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Telecommunications Retail Price Benchmarking for Arab Countries 2022

Report from the AREGNET Price Benchmarking Study
Produced by Teligen, a division of TechInsights

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Teligen wishes to thank:

- The AREGNET members for feedback and support in the collection of tariff information and to TRA Bahrain for commissioning and coordinating the study on behalf of AREGNET
- The operators who have contributed with additional tariff information

CONTENTS OF THIS REPORT

• Background to the study and basket concept	4
• 2022 study overview	5
• Notes to the results	6
• Comparative Price Level (CPL) and Purchasing Power Parity (PPP)	7
• Price benchmarking with Telecoms Baskets	8
• Results from the fixed voice basket for 2022, time series and ranking	9
• Results from the mobile voice and data basket for 2022, time series and ranking	28
• Results from the fixed broadband basket for 2022, time series and ranking	54
• Results from the mobile broadband basket for 2022, time series and ranking	111
• Results from the leased line basket for 2022, time series and ranking	152
• Summary of main findings from the benchmarking study	168
• Appendix	
• Exchange rates and VAT	183
• PPP	184
• List of acronyms used	186

- The benchmarking study was originally initiated by TRA Bahrain in 2008 and has been updated on approximately an annual basis since then. This update for 2022 was commissioned by TRA Bahrain.
- In increasingly competitive markets it is important for regulators to be able to track the evolution of prices and analyze the impact of price changes and competition on the effective prices paid by consumers.
- This study allows Arab countries to compare the price levels within and between countries, and also to compare with the OECD countries. To enable such comparisons, this study shows the cost of purchasing ‘baskets’ of telecommunications services. Additionally, time series data is presented, showing how the cost of such baskets has changed in each country over the period from 2018 to 2022.
- The benchmarking covers the following services:
 - Fixed voice (PSTN)
 - Mobile telephony
 - Fixed Broadband
 - Mobile broadband
 - Leased Lines
- The basket methodologies used are identical to the OECD Price Benchmarking baskets from 2017, with minor changes. A separate document detailing the methodology used in this study is available.
- The data was collected in Q4 2022 by Teligen from public sources on the Internet and was subsequently passed to national regulators for comments and checking.

- The 2022 AREGNET study results are presented in this report. As in previous years, the study benchmarks fixed and mobile voice and data services across the 22 AREGNET countries
- In terms of data collection and verification:
 - Data was collected directly from operator websites over the period Q4 2021
 - Country data files and draft results in local currencies were prepared and distributed to AREGNET members for review
 - Following receipt of comments, system files were finalised and reports prepared
- The methodology used is based on the 2017 OECD basket revisions, which also featured in the 2020 and 2021 updates to this study. Full details of the OECD 2017 methodology are available, but key changes over the OECD 2010 methodology include:
 - Removal of international calls from fixed voice baskets
 - Revision of mobile baskets, with sets of baskets focusing on low and high data usage separately, with increased data usage in the high data usage category
 - Revision of speed categories for fixed broadband services, including removal of upper speed limit within individual baskets
 - Revision of data usage within mobile broadband services.

- As with previous updates, exchange rate and CPL (comparative price level) current data is applied retrospectively to historic data, so that changes to time series reflect changes to tariffs only and are not impacted by changes in either exchange rates or CPLs.
- For this report, both OECD country results and AREGNET country results have been adjusted using World Bank CPLs.
 - This means that both sets of data – OECD and AREGNET – are based on conversions from the same source
 - Note however, OECD results converted using World Bank CPLs will not be directly comparable to official OECD results.
- Feedback, where received, has been considered in the production of these results

COMPARATIVE PRICE LEVEL (CPL) AND PURCHASING POWER PARITY (PPP)

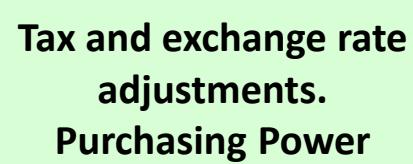
- The data presented in the report is presented using purchasing power parities (PPPs), which are used to incorporate both the financial differences between exchange rates, and the differences in the state of the economies as seen through the purchasing power of the citizens in each country.
- In order to create an up-to-date PPP conversion factor, published Comparative Price Level (CPL) data is used
 - This is described in more depth on pages 185 to 186 in the appendix of this report.
- The CPL data used for this study has been obtained from the World Bank and is based on 2021 data, unless otherwise stated.
- For this report, both OECD country results and AREGNET country results have been adjusted using World Bank CPLs. This is different to previous reports, where OECD results have used OECD CPLs and AREGNET country results have been adjusted using World Bank CPLs
 - This means that both sets of data – OECD and AREGNET – are based on conversions from the same source
 - Note however, OECD results converted using World Bank CPLs will not be directly comparable to official OECD results.
- The World Bank CPL data also contained some gaps i.e., data for Palestine and Somalia was not available, so assumptions were made as to the likely CPL values for these countries
- The PPP values have been applied retrospectively to any historic data presented in this report
 - This is to ensure that any changes observed in the time series are as a result of changes to tariffs and not to exchange rates and CPL values.

PRICE BENCHMARKING WITH TELECOMS BASKETS

Combine tariff information with a usage profile in a “basket calculation engine” to calculate cost of individual calls and tariff elements.



Adjust costs for tax, currency and purchasing power to create comparable results.



The benchmarking results show the end user cost of using the service according to the usage profile, in a consistent format.



Fixed voice basket results 2022

- Due to lack of published data, and lack of feedback, only partial (or no) data is available (and no results are included) for:
 - Iraq
 - Somalia
 - Sudan
 - Syria
 - Yemen
- Business tariffs are not published (and no business results are included) for:
 - Djibouti
 - Egypt
 - Iraq
 - Somalia
 - Sudan
 - Syria
 - Yemen
- The analysis covers up to 303 tariffs from the incumbent operators in 17 countries

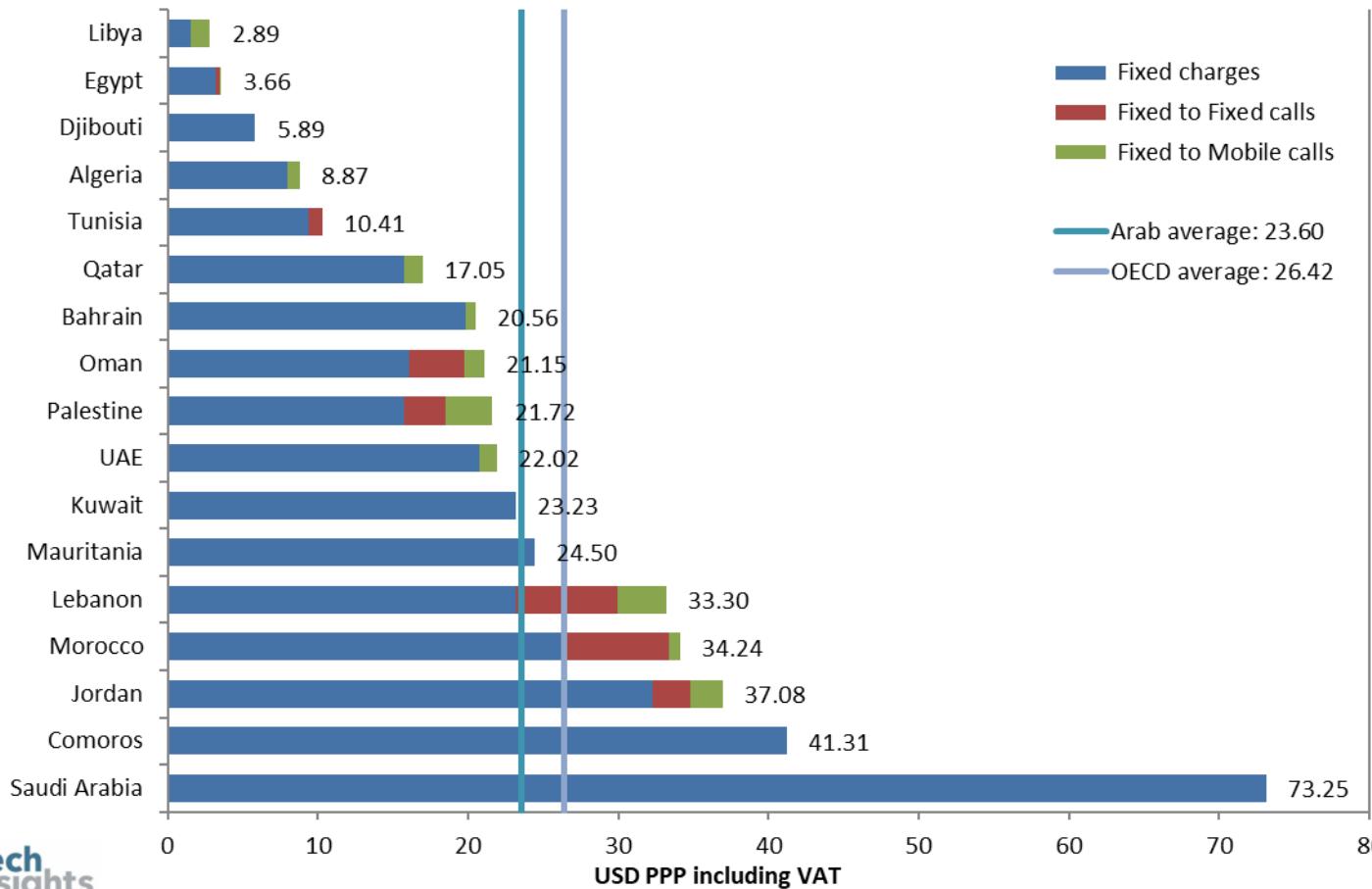
- Six different basket definitions:
 - Defined by number of calls per month
 - Residential: 20, 60, 140 and 420 calls per month
 - Business: 100 and 260 calls per month

Calls per month	Call distribution			
	Total	Fixed to fixed	Fixed to fixed	Fixed to mobile
	calls	Local	National	
20 calls basket	20	61%	20%	19%
60 calls basket	60	60%	15%	25%
140 calls basket	140	58%	15%	27%
420 calls basket	420	73%	17%	10%
100 calls business basket	100	48%	19%	33%
260 calls business basket	260	43%	23%	34%

- Tariffs from the incumbent operator in each country
 - Several tariff packages can be covered for each operator
 - The results show the lowest cost option for each operator
- Tariff information included in basket calculation:
 - Fixed charges for installation (depreciated over the service life) and monthly rental. These are shown on the following charts as **Fixed charges**
 - Usage charges covering local through to national calls and calls to mobiles. These are shown on the following charts as **Fixed to Fixed calls** and **Fixed to Mobile calls**.
 - International calls are now **no longer** part of the OECD methodology and have been excluded from the baskets

20 CALLS/MONTH, RESIDENTIAL BASED ON 2017 OECD FIXED VOICE BASKET

AREGNET Fixed Voice Price Benchmarking 2022
OECD 2017: 20 calls Residential



No data for:

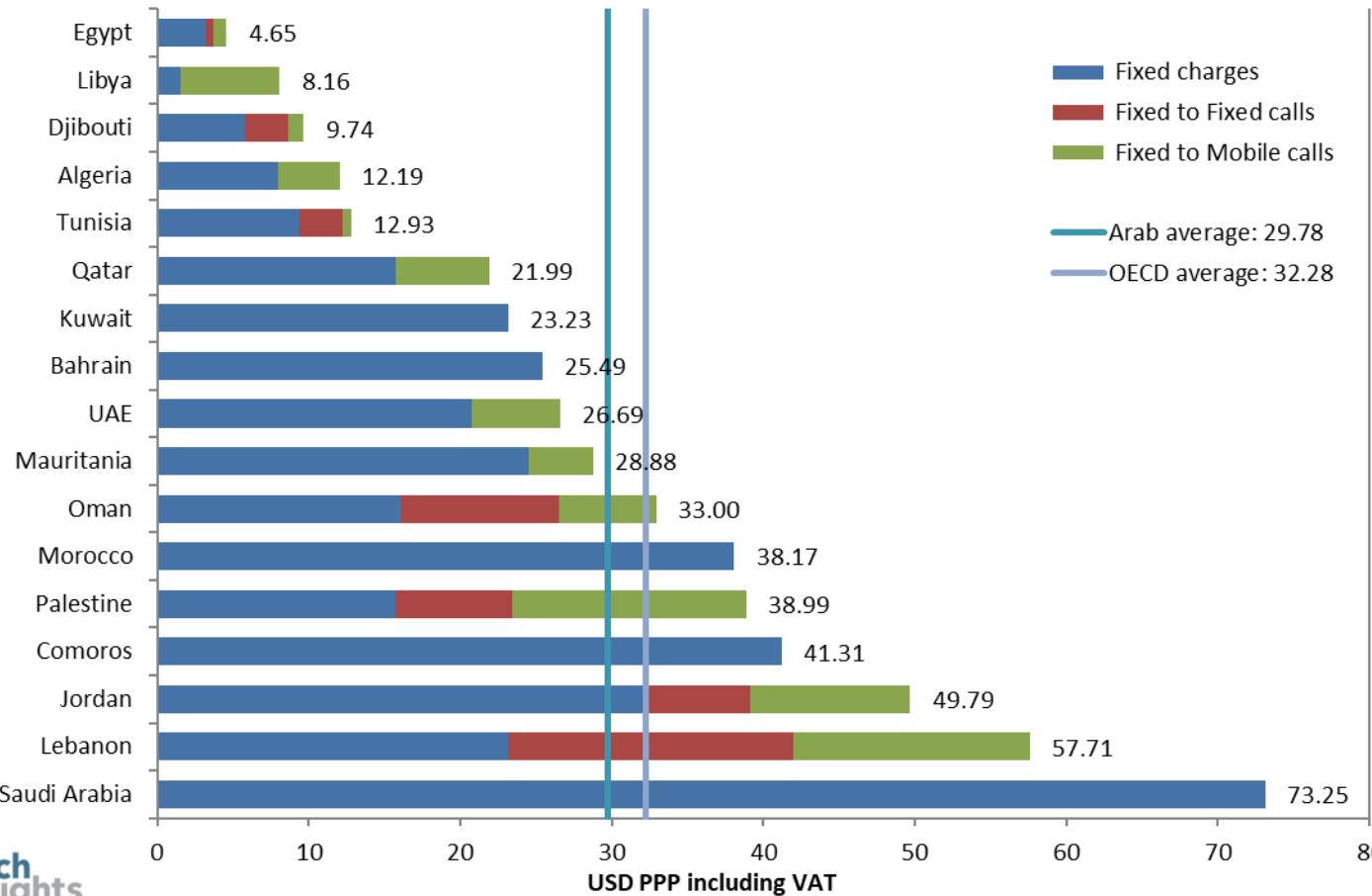
- Iraq
- Somalia
- Sudan
- Syria
- Yemen

For information on what is included in Fixed charges, Fixed to Fixed calls and Fixed to Mobile calls, please see page 11

60 CALLS/MONTH, RESIDENTIAL BASED ON 2017 OECD FIXED VOICE BASKET



AREGNET Fixed Voice Price Benchmarking 2022 OECD 2017: 60 calls Residential



No data for:

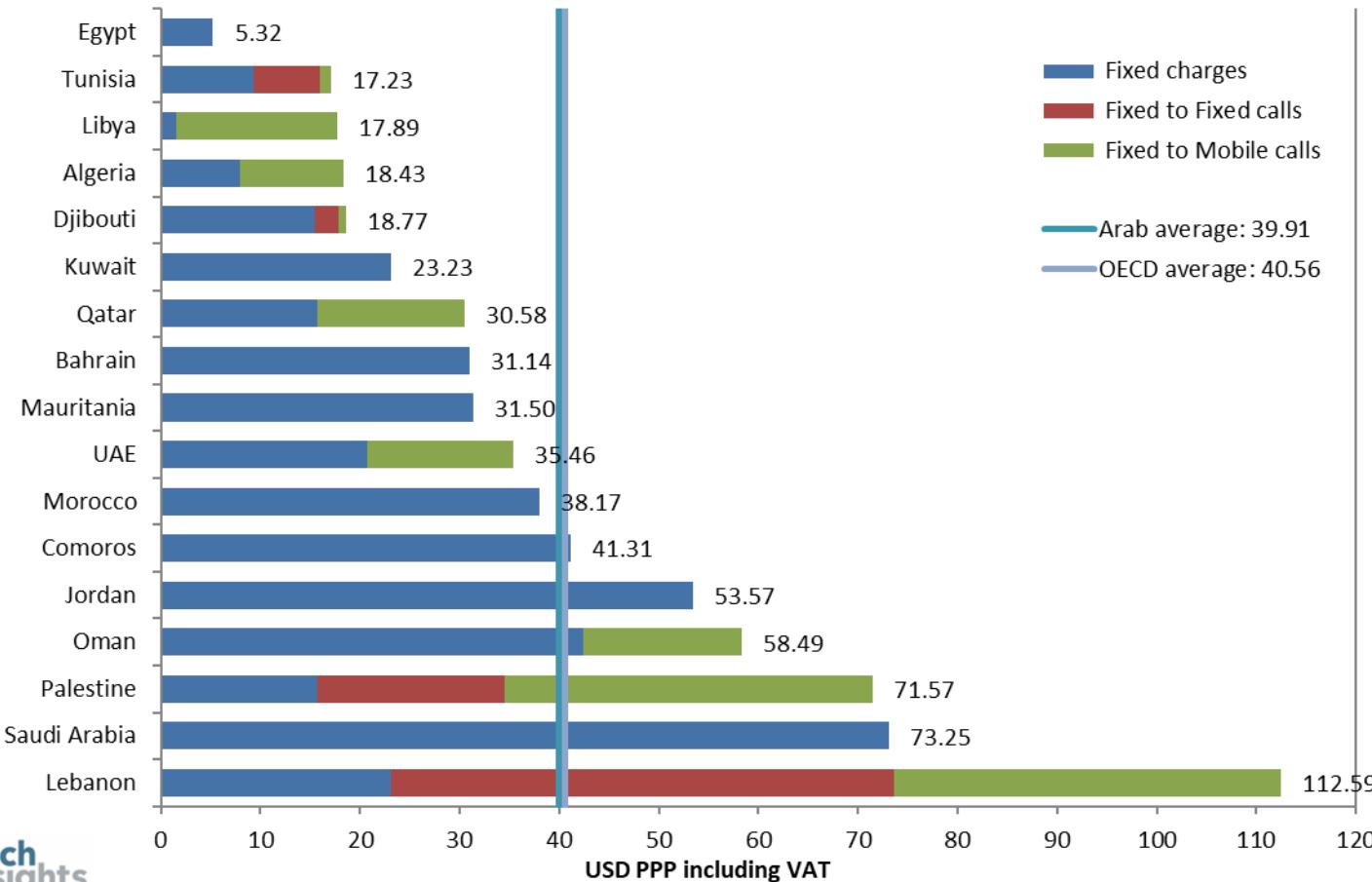
- Iraq
- Somalia
- Sudan
- Syria
- Yemen

For information on what is included in Fixed charges, Fixed to Fixed calls and Fixed to Mobile calls, please see page 11

140 CALLS/MONTH, RESIDENTIAL BASED ON 2017 OECD FIXED VOICE BASKET



AREGNET Fixed Voice Price Benchmarking 2022
OECD 2017: 140 calls Residential



No data for:

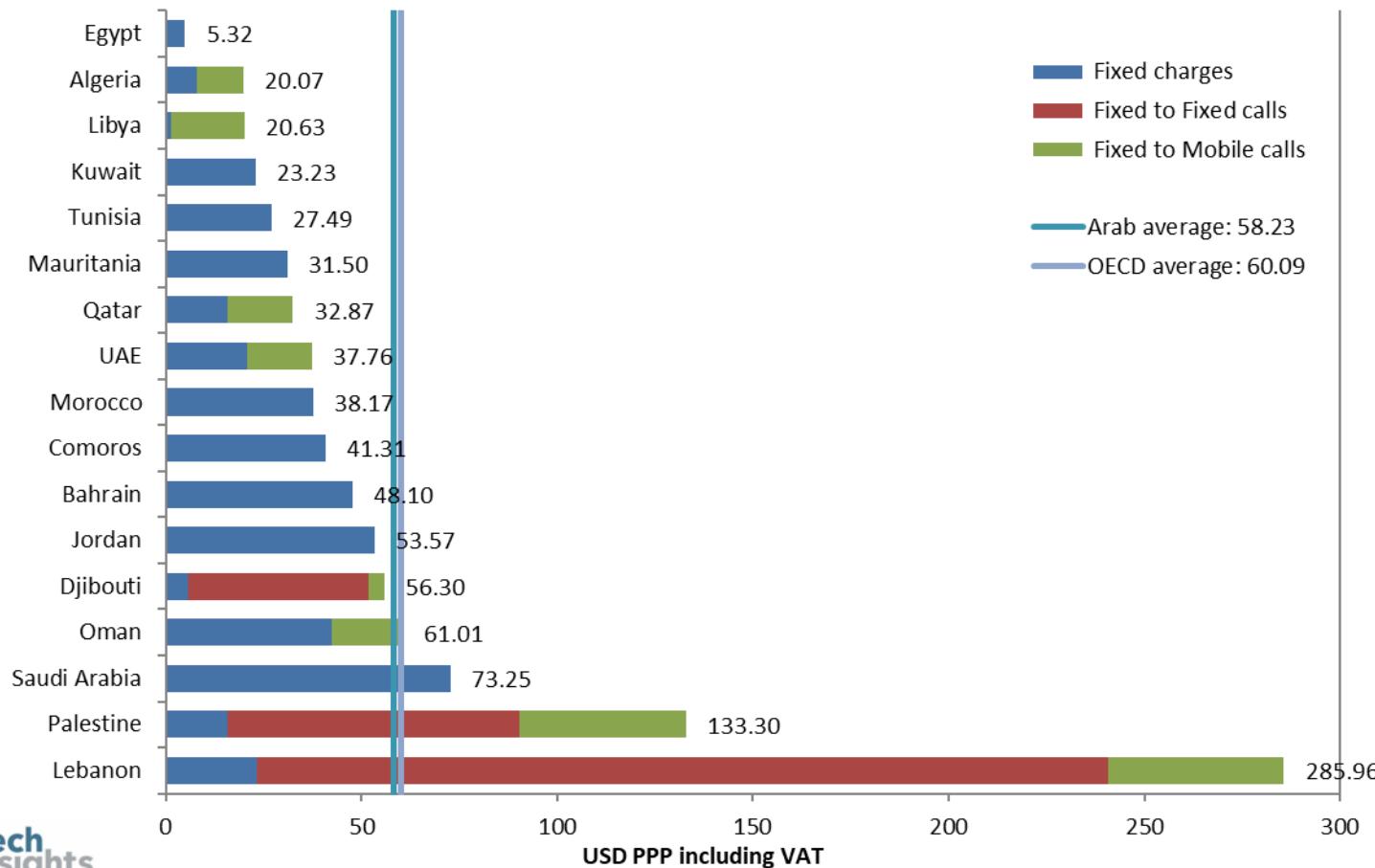
- Iraq
- Somalia
- Sudan
- Syria
- Yemen

For information on what is included in Fixed charges, Fixed to Fixed calls and Fixed to Mobile calls, please see page 11

420 CALLS/MONTH, RESIDENTIAL BASED ON 2017 OECD FIXED VOICE BASKET



AREGNET Fixed Voice Price Benchmarking 2022
OECD 2017: 420 calls Residential



No data for:

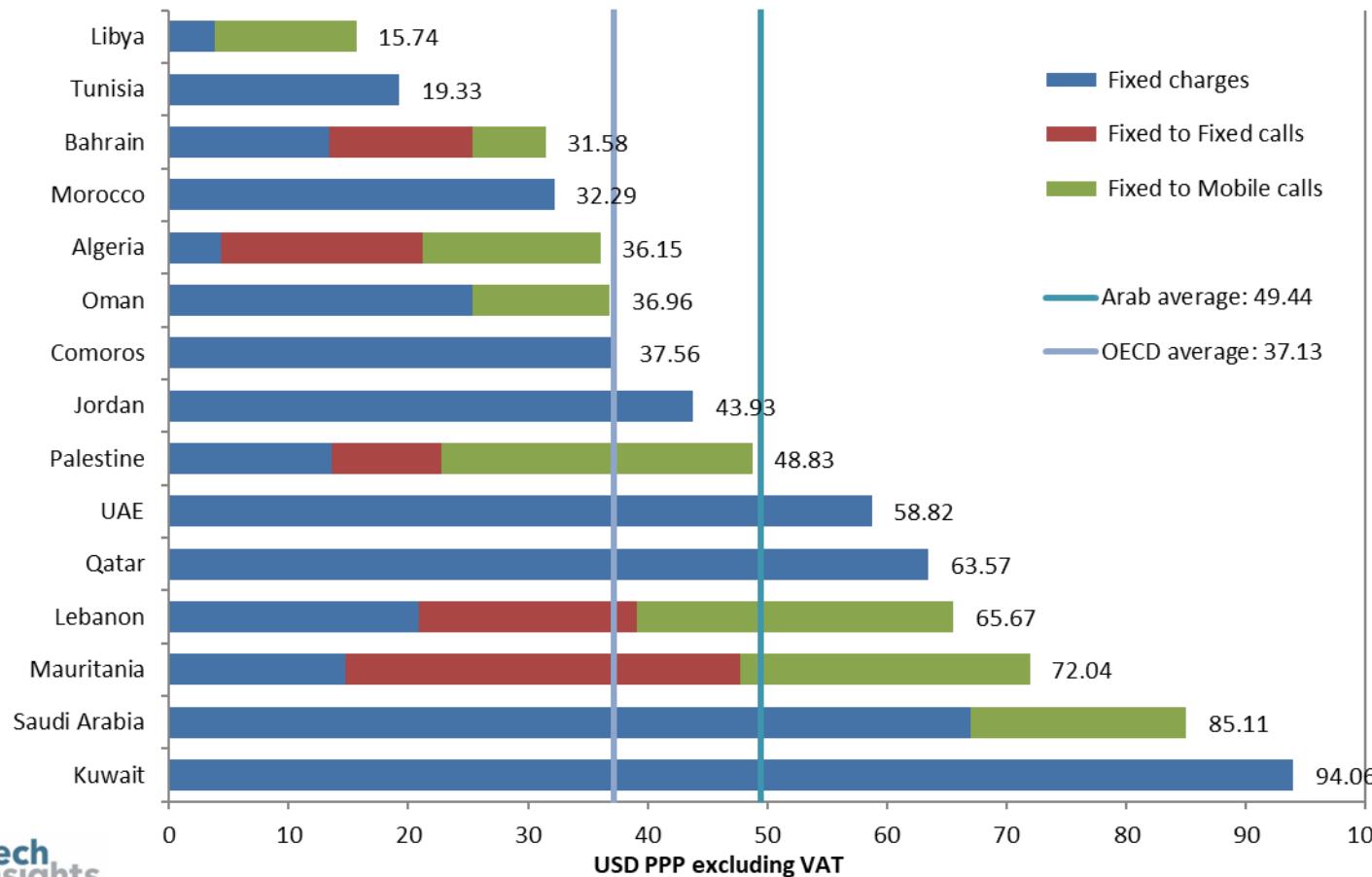
- Iraq
- Somalia
- Sudan
- Syria
- Yemen

For information on what is included in Fixed charges, Fixed to Fixed calls and Fixed to Mobile calls, please see page 11

100 CALLS/MONTH, BUSINESS BASED ON 2017 OECD FIXED VOICE BASKET



AREGNET Fixed Voice Price Benchmarking 2022
OECD 2017: 100 calls Businesss



No data for:

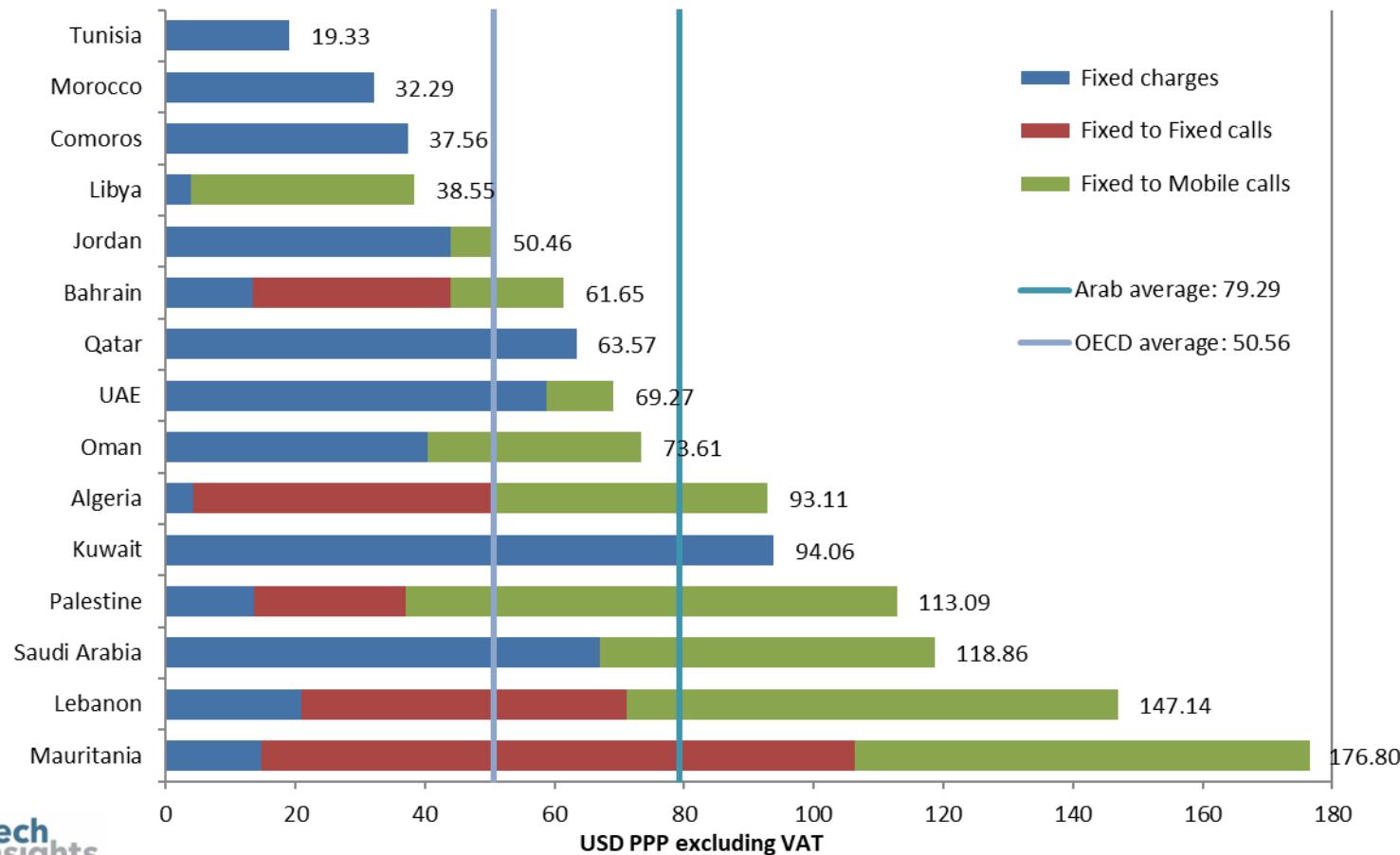
- Djibouti
- Egypt
- Iraq
- Somalia
- Sudan
- Syria
- Yemen

For information on what is included in Fixed charges, Fixed to Fixed calls and Fixed to Mobile calls, please see page 11

260 CALLS/MONTH, BUSINESS BASED ON 2017 OECD FIXED VOICE BASKET



AREGNET Fixed Voice Price Benchmarking 2022 OECD 2017: 260 calls Business



No data for:

- Djibouti
- Egypt
- Iraq
- Somalia
- Sudan
- Syria
- Yemen

For information on what is included in Fixed charges, Fixed to Fixed calls and Fixed to Mobile calls, please see page 11

OBSERVATIONS FROM FIXED VOICE BASKET RESULTS

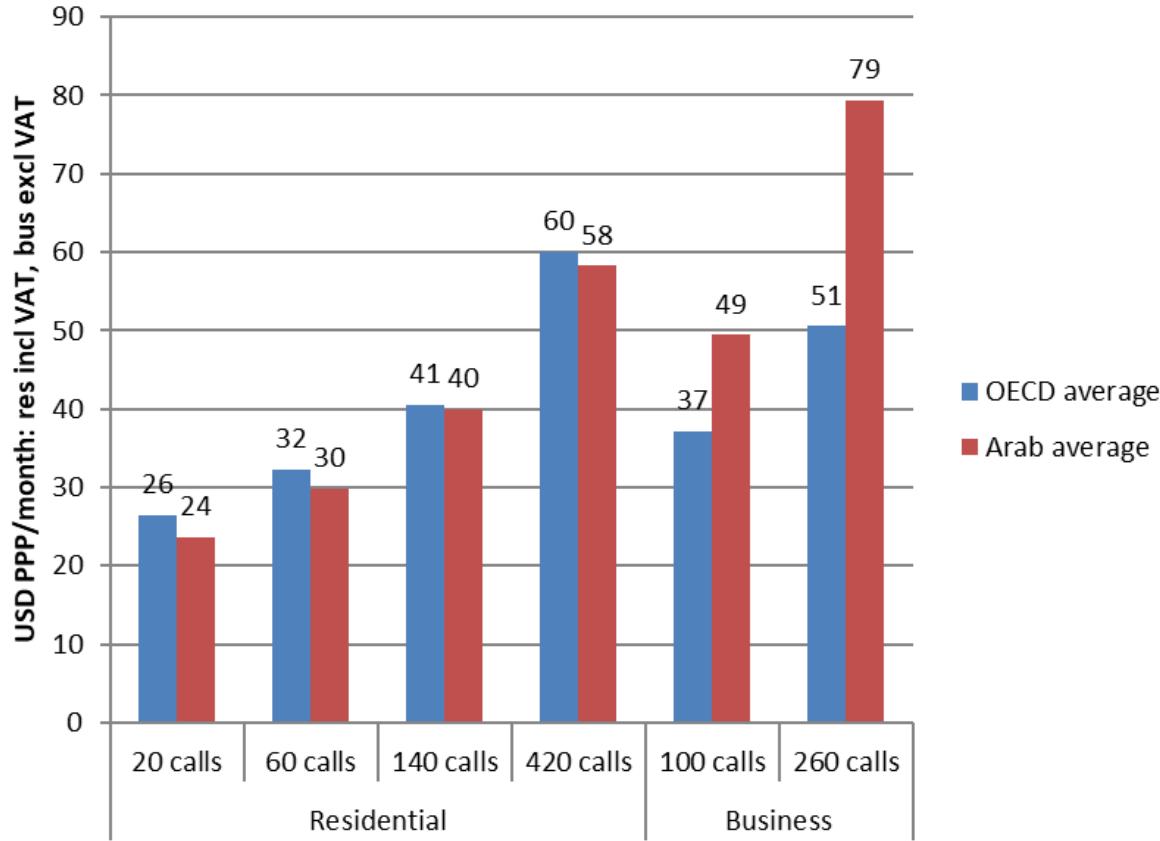
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- Comparison between OECD and Arab averages are shown on the following slide, however, the following can be observed:
 - The trend from previous updates continues for residential services. A large proportion of countries are either below the OECD average, or are on par with it, and the Arab average is consistently below that of the OECD average. Consequently, at this level of usage, the Arab average is below that of the OECD, between 3-11% cheaper.
 - For business services, The position is reversed, with a large proportion of countries above the OECD average, and the Arab average is consistently higher than that of the OECD, 33% for the 100 calls basket and 57% for the 260 calls basket..
- A number of Arab countries continue to have fixed costs well below the OECD countries, causing the usage element to dominate. This makes the overall cost grow quicker with increasing usage, something that will discourage growth in usage. In some Arab countries, however, both fixed and usage costs are much higher than OECD countries.

* Countries with gaps in the tariff information are not considered.

COMPARISON OF OECD AND ARAB AVERAGES

Arab and OECD average comparisons for OECD fixed voice baskets



- For residential baskets, the Arab average is consistently lower than the OECD average – between 3% and 11% lower.
- For both business baskets, the Arab average is more expensive than the OECD average, with lower usage Arab businesses paying on average 33% more, and higher usage businesses paying around 57% more.
- This is a trend observed in previous years. OECD fixed voice business services are typically much higher than residential services and incorporate much more stringent SLAs. Across the Arab countries, residential and business fixed voice pricing is much more closely aligned.

Fixed voice time series analysis and ranking tables 2018–2022

2017 OECD FIXED VOICE BASKETS RANKING, 20 CALLS/MONTH, RESIDENTIAL



Results for Fixed Voice: OECD 2017: 20 calls Residential basket, 2018-2022
 Results in USD PPP including VAT

	2018	2019	2020	2021	2022
Algeria	8.09	8.09	10.68	8.87	8.87
Bahrain	11.87	12.46	18.76	18.76	20.56
Comoros	41.31	41.31	41.31	41.31	41.31
Djibouti	14.34	14.34	14.34	5.89	5.89
Egypt	2.68	3.64	3.54	3.65	3.66
Jordan	29.45	33.49	33.49	38.02	37.08
Kuwait	23.23	19.99	19.99	23.23	23.23
Lebanon	33.11	33.11	33.11	33.11	33.30
Libya				2.89	2.89
Mauritania	19.71	24.50	24.50	24.50	24.50
Morocco	33.53	34.24	34.24	34.24	34.24
Oman	20.15	20.15	20.15	21.15	21.15
Palestine	19.39	18.94	21.72	21.72	21.72
Qatar	16.44	16.44	16.44	17.05	17.05
Saudi Arabia	30.52	30.52	33.43	73.25	73.25
Somalia					
Sudan					
Syria					
Tunisia	9.25	10.53	10.53	10.41	10.41
UAE	21.94	21.95	21.96	21.96	22.02
Yemen					

Arab average 19.88 21.48 22.39 23.53 23.60

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	2	2	3	4	4
Bahrain	4	4	6	7	7
Comoros	16	16	16	16	16
Djibouti	5	5	4	3	3
Egypt	1	1	1	2	2
Jordan	12	14	14	15	15
Kuwait	11	8	7	11	11
Lebanon	14	13	12	13	13
Libya	-	-	-	1	1
Mauritania	8	11	11	12	12
Morocco	15	15	15	14	14
Oman	9	9	8	8	8
Palestine	7	7	9	9	9
Qatar	6	6	5	6	6
Saudi Arabia	13	12	13	17	17
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	3	3	2	5	5
UAE	10	10	10	10	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED VOICE BASKETS RANKING, 60 CALLS/MONTH, RESIDENTIAL



Results for Fixed Voice: OECD 2017: 60 calls Residential basket, 2018-2022

Results in USD PPP including VAT

	2018	2019	2020	2021	2022
Algeria	20.59	20.59	16.37	12.19	12.19
Bahrain	13.42	14.09	23.69	23.69	25.49
Comoros	41.31	41.31	41.31	41.31	41.31
Djibouti	21.30	21.30	21.30	9.74	9.74
Egypt	4.10	4.62	4.39	4.63	4.65
Jordan	43.02	47.06	47.06	51.58	49.79
Kuwait	23.23	19.99	19.99	23.23	23.23
Lebanon	57.52	57.52	57.52	57.52	57.71
Libya				8.16	8.16
Mauritania	29.44	28.88	28.88	28.88	28.88
Morocco	37.46	38.17	38.17	38.17	38.17
Oman	31.43	31.43	31.43	33.00	33.00
Palestine	35.95	35.51	38.99	38.99	38.99
Qatar	21.60	21.60	21.60	21.99	21.99
Saudi Arabia	40.99	40.99	44.90	73.25	73.25
Somalia					
Sudan					
Syria					
Tunisia	12.60	13.33	13.33	12.93	12.93
UAE	26.31	26.39	26.40	26.40	26.69
Yemen					

Arab average	27.56	28.92	29.71	29.75	29.78
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Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	4	5	3	4	4
Bahrain	3	3	7	8	8
Comoros	14	14	13	14	14
Djibouti	5	6	5	3	3
Egypt	1	1	1	1	1
Jordan	15	15	15	15	15
Kuwait	7	4	4	7	7
Lebanon	16	16	16	16	16
Libya	-	-	-	2	2
Mauritania	9	9	9	10	10
Morocco	12	12	11	12	12
Oman	10	10	10	11	11
Palestine	11	11	12	13	13
Qatar	6	7	6	6	6
Saudi Arabia	13	13	14	17	17
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	2	2	2	5	5
UAE	8	8	8	9	9
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED VOICE BASKETS RANKING, 140 CALLS/MONTH, RESIDENTIAL



Results for Fixed Voice: OECD 2017: 140 calls Residential basket, 2018-2022
 Results in USD PPP including VAT

	2018	2019	2020	2021	2022
Algeria	35.93	35.93	22.84	18.43	18.43
Bahrain	18.81	19.75	29.34	29.34	31.14
Comoros	41.31	41.31	41.31	41.31	41.31
Djibouti	36.91	36.91	36.91	18.77	18.77
Egypt	6.61	7.65	7.66	5.32	5.32
Jordan	45.49	49.53	49.53	57.45	53.57
Kuwait	23.23	19.99	19.99	23.23	23.23
Lebanon	112.40	112.40	112.40	112.40	112.59
Libya				17.89	17.89
Mauritania	40.59	31.50	31.50	31.50	31.50
Morocco	37.46	38.17	38.17	38.17	38.17
Oman	55.70	55.70	55.70	58.49	58.49
Palestine	69.30	68.85	71.57	71.57	71.57
Qatar	30.78	30.78	30.78	30.58	30.58
Saudi Arabia	64.44	64.44	63.70	73.25	73.25
Somalia					
Sudan					
Syria					
Tunisia	16.69	18.10	18.10	17.23	17.23
UAE	34.55	34.73	34.76	34.76	35.46
Yemen					

Arab average 40.48 41.61 41.52 39.98 39.91

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	7	8	4	4	4
Bahrain	3	3	5	7	8
Comoros	11	11	11	12	12
Djibouti	8	9	9	5	5
Egypt	1	1	1	1	1
Jordan	12	12	12	13	13
Kuwait	4	4	3	6	6
Lebanon	16	16	16	17	17
Libya	-	-	-	3	3
Mauritania	10	6	7	9	9
Morocco	9	10	10	11	11
Oman	13	13	13	14	14
Palestine	15	15	15	15	15
Qatar	5	5	6	8	7
Saudi Arabia	14	14	14	16	16
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	2	2	2	2	2
UAE	6	7	8	10	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED VOICE BASKETS RANKING, 420 CALLS/MONTH, RESIDENTIAL



Results for Fixed Voice: OECD 2017: 420 calls Residential basket, 2018-2022

Results in USD PPP including VAT

	2018	2019	2020	2021	2022
Algeria	39.20	39.20	24.07	20.07	20.07
Bahrain	34.96	36.70	46.30	46.30	48.10
Comoros	41.31	41.31	41.31	41.31	41.31
Djibouti	95.86	95.86	95.86	56.30	56.30
Egypt	10.09	8.00	8.01	5.32	5.32
Jordan	45.49	49.53	49.53	57.45	53.57
Kuwait	23.23	19.99	19.99	23.23	23.23
Lebanon	285.77	285.77	285.77	285.77	285.96
Libya				20.63	20.63
Mauritania	40.59	31.50	31.50	31.50	31.50
Morocco	37.46	38.17	38.17	38.17	38.17
Oman	58.10	58.10	58.10	61.01	61.01
Palestine	132.64	132.19	133.30	133.30	133.30
Qatar	33.17	33.17	33.17	32.87	32.87
Saudi Arabia	77.12	77.12	63.70	73.25	73.25
Somalia					
Sudan					
Syria					
Tunisia	27.49	27.49	27.49	27.49	27.49
UAE	36.70	36.91	36.95	36.95	37.76
Yemen					

Arab average	61.16	63.19	62.08	58.29	58.23
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- Below Arab average
- Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	8	9	3	2	2
Bahrain	5	6	10	11	11
Comoros	10	10	9	10	10
Djibouti	14	14	14	12	13
Egypt	1	1	1	1	1
Jordan	11	11	11	13	12
Kuwait	2	2	2	4	4
Lebanon	16	16	16	17	17
Libya	-	-	-	3	3
Mauritania	9	4	5	6	6
Morocco	7	8	8	9	9
Oman	12	12	12	14	14
Palestine	15	15	15	16	16
Qatar	4	5	6	7	7
Saudi Arabia	13	13	13	15	15
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	3	3	4	5	5
UAE	6	7	7	8	8
Yemen	-	-	-	-	-

- Least expensive
- Most expensive

OECD FIXED VOICE BASKETS RANKING, 100 CALLS/MONTH, BUSINESS



Results for Fixed Voice: OECD 2017: 100 calls Business basket, 2018-2022
 Results in USD PPP excluding VAT

	2018	2019	2020	2021	2022
Algeria					36.15
Bahrain	30.76	30.76	30.76	31.58	31.58
Comoros	37.56	37.56	37.56	37.56	37.56
Djibouti	22.73	22.73	22.73		
Egypt					
Jordan	46.25	43.93	43.93	43.93	43.93
Kuwait		78.39	78.39	94.06	94.06
Lebanon	65.50	65.50	65.50	65.50	65.67
Libya				15.74	15.74
Mauritania	72.04	72.04	72.04	72.04	72.04
Morocco	32.29	32.29	32.29	32.29	32.29
Oman	36.96	36.96	36.96	36.96	36.96
Palestine	45.12	44.73	48.83	48.83	48.83
Qatar	96.90	63.57	63.57	63.57	63.57
Saudi Arabia	49.18	49.18	49.18	85.11	85.11
Somalia					
Sudan					
Syria					
Tunisia	15.61	11.78	19.33	19.33	19.33
UAE	56.05	56.18	56.18	70.17	58.82
Yemen					

Arab average 44.48 46.11 46.95 51.19 49.44

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	5
Bahrain	3	3	3	3	3
Comoros	6	6	6	6	7
Djibouti	2	2	2	-	-
Egypt	-	-	-	-	-
Jordan	8	7	7	7	8
Kuwait	-	14	14	14	15
Lebanon	11	12	12	10	12
Libya	-	-	-	1	1
Mauritania	12	13	13	12	13
Morocco	4	4	4	4	4
Oman	5	5	5	5	6
Palestine	7	8	8	8	9
Qatar	13	11	11	9	11
Saudi Arabia	9	9	9	13	14
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	1	1	1	2	2
UAE	10	10	10	11	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED VOICE BASKETS RANKING, 260 CALLS/MONTH, BUSINESS



Results for Fixed Voice: OECD 2017: 260 calls Business basket, 2018-2022
 Results in USD PPP excluding VAT

	2018	2019	2020	2021	2022
Algeria					93.11
Bahrain	59.46	59.46	59.46	61.65	61.65
Comoros	37.56	37.56	37.56	37.56	37.56
Djibouti	45.70	45.70	45.70		
Egypt					
Jordan	60.18	57.86	50.46	50.46	50.46
Kuwait		78.39	78.39	94.06	94.06
Lebanon	146.97	146.97	146.97	146.97	147.14
Libya				38.55	38.55
Mauritania	176.80	176.80	176.80	176.80	176.80
Morocco	32.29	32.29	32.29	32.29	32.29
Oman	73.61	73.61	73.61	73.61	73.61
Palestine	111.82	111.43	113.09	113.09	113.09
Qatar	120.72	63.57	63.57	63.57	63.57
Saudi Arabia	88.56	88.56	88.56	118.86	118.86
Somalia					
Sudan					
Syria					
Tunisia	15.61	11.78	19.33	19.33	19.33
UAE	74.57	74.95	74.95	88.68	69.27
Yemen					

Arab average

77.31	75.64	75.77	79.68	79.29
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Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	10
Bahrain		5	6	6	6
Comoros		3	3	3	3
Djibouti		4	4	4	-
Egypt	-	-	-	-	-
Jordan		6	5	5	5
Kuwait	-		10	10	10
Lebanon		12	13	13	13
Libya	-	-	-	4	4
Mauritania	13	14	14	14	15
Morocco		2	2	2	2
Oman		7	8	8	9
Palestine		10	12	12	11
Qatar		11	7	7	7
Saudi Arabia	9	11	11	12	13
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia		1	1	1	1
UAE		8	9	9	8
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OBSERVATIONS FROM FIXED VOICE TIME SERIES RESULTS

- There have been some changes to fixed voice from the 2021 update, most of which were. The most notable ones over the period 2021 – 2022 include:
 - Algerie Telecom in Algeria now publishes business pricing, and results for the business baskets for Algerian now feature in the overall results.
 - Batelco Bahrain's residential pricing saw an increase, partly due to tariff changes, but also due to the increase in VAT from 5% to 10%. As business results are presented exclusive of VAT, there was no change from 2021 to 2022 for Bahrain.
 - Orange, Jordan made some reductions to residential fixed voice pricing, to both rentals and call charges, resulting in a small decrease.
 - Ogero, Lebanon, increased the connection charge on its fixed voice services, resulting in an increase across all baskets.
 - Etisalat UAE has waived the AED 180 installation fee for business landline pricing.
- Average costs across almost all residential and business baskets have changed from the previous year, but the changes have been very small, as shown below. The biggest change was seen for the 100 calls business basket, which saw a modest 3% decline in the average cost.

Change in overall average

2021-2022

20 calls residential	↑	0%
60 calls residential	↑	0%
140 calls residential	↓	0%
420 calls residential	↓	0%
100 calls business	↓	-3%
260 calls business	↓	0%

* Countries with gaps in the tariff information are not considered.

Mobile voice and data basket results 2022

- Tariff restrictions:
 - Only pre-paid for Comoros
 - One operator only for Comoros, Djibouti and Somalia
- Otherwise, two operators are covered for each country where data is available
- A total of 1121 tariff packages covered for 40 operators in 22 countries
- Results are presented for residential prepaid and postpaid offerings, in line with OECD methodology and in line with previous AREGNET studies
- The high data allowances in some of the OECD baskets for 2017 may result in very high costs for high data baskets in those countries where tariffs are not optimised for high levels of data use.

- There are 12 baskets OECD baskets for mobile voice/mobile voice and data:
 - 2 baskets with no data
 - 5 baskets with lower data use
 - 5 baskets with higher data use
- Included in the OECD 2017 definitions are two unlimited voice baskets. Results for these have not been included due to the small number of providers that have unlimited offers.
- The 2017 baskets are shown in the table below.

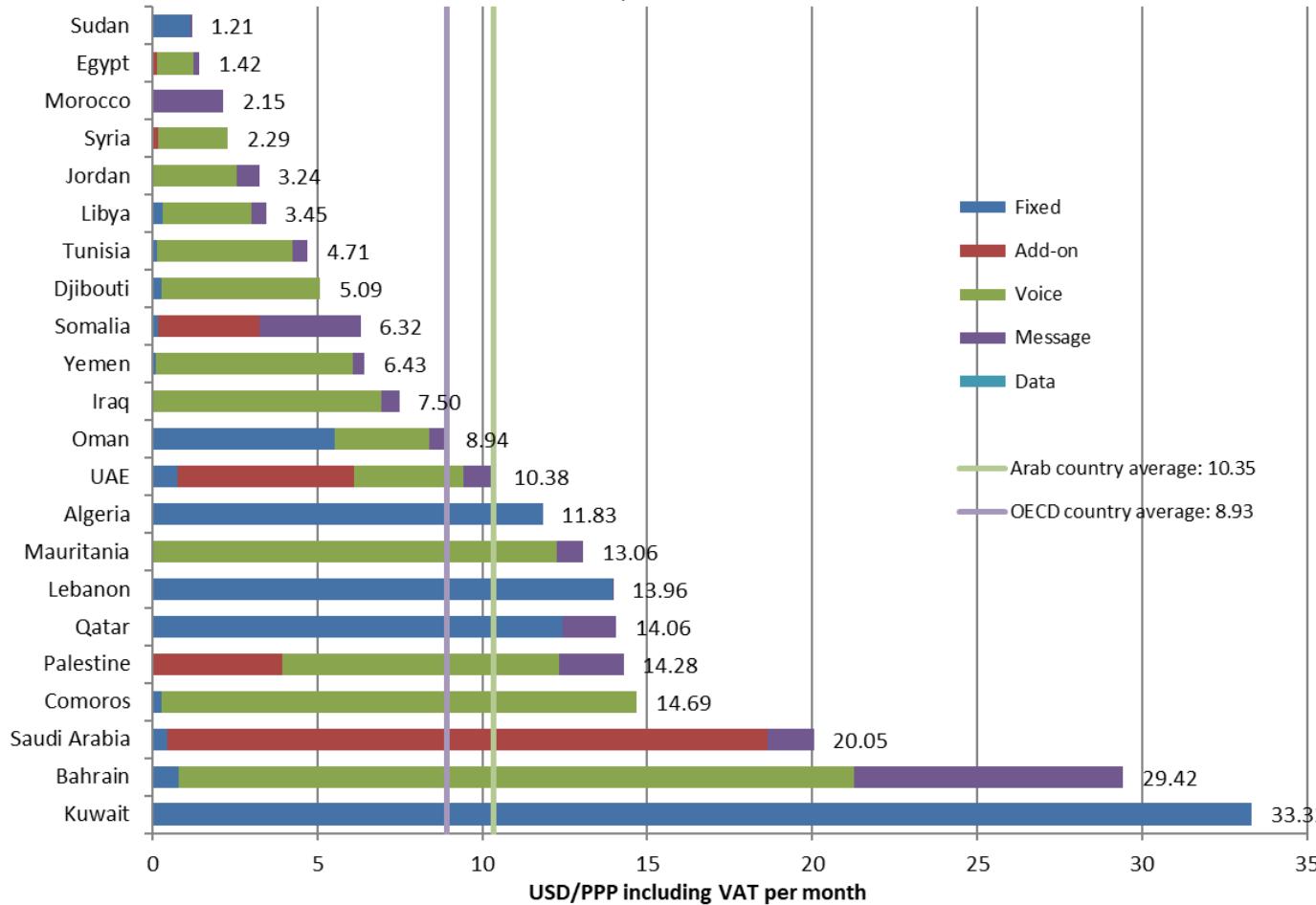
Basket	Voice calls	SMS	Data (GB)
30 calls, no data	30	10	0
100 calls, no data	100	20	0
30 calls, 0.1 GB	30	20	0.1
100 calls, 0.5 GB	100	40	0.5
300 calls, 1 GB	300	80	1
900 calls, 2 GB	900	160	2
Unlimited voice, 5 GB	Unlimited	Unlimited	5
30 calls, 0.5 GB	30	10	0.5
100 calls, 2 GB	100	20	2
300 calls, 5 GB	300	40	5
900 calls, 10 GB	900	80	10
Unlimited voice, 20 GB	Unlimited	Unlimited	20

30 CALLS/MONTH NO DATA BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 30 calls, no data



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

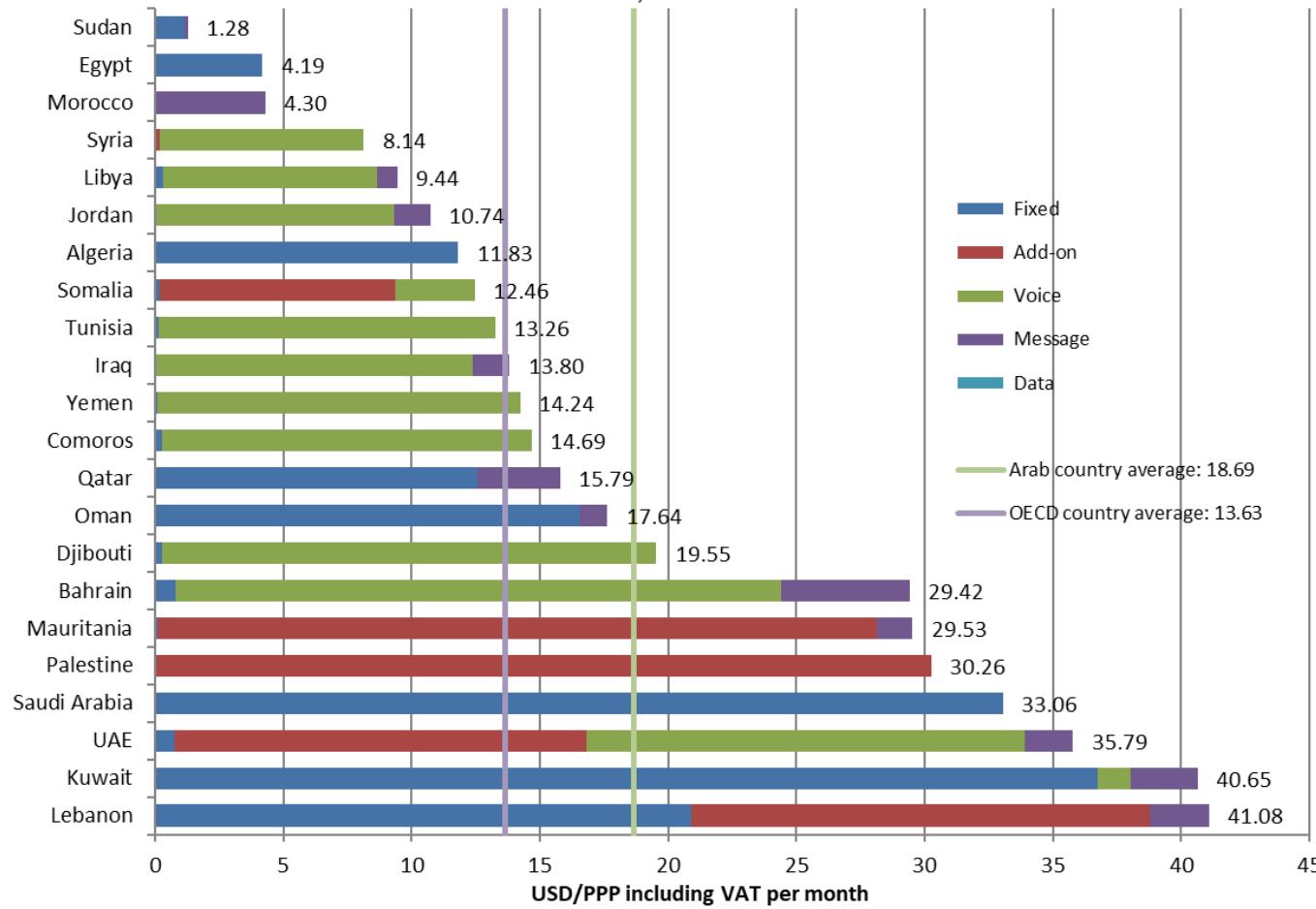
17 country results are based on prepaid tariffs

100 CALLS/MONTH NO DATA BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 100 calls, no data



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

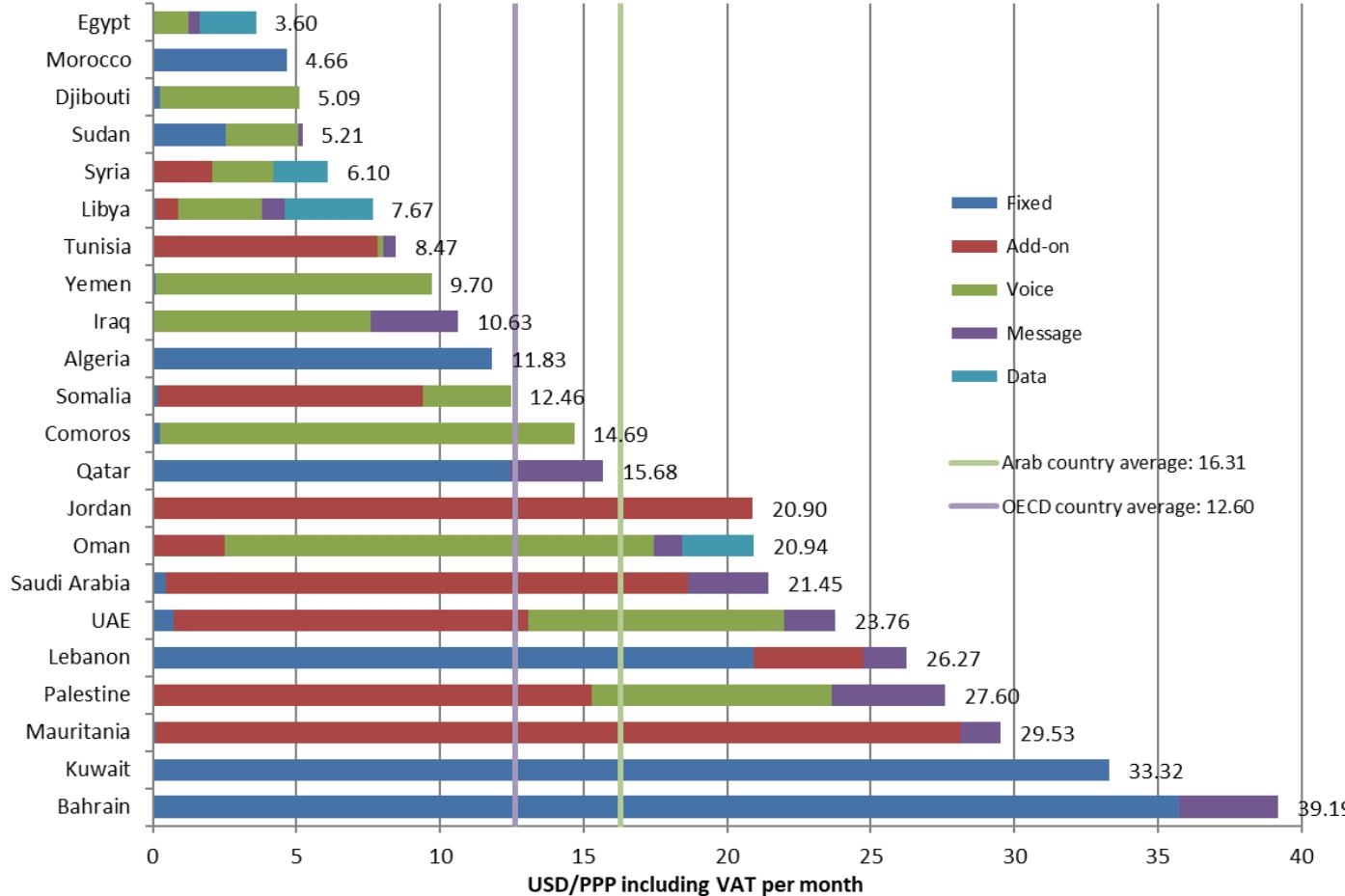
15 country results are based on prepaid tariffs

30 CALLS AND 0.1GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 30 calls, 0.1 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

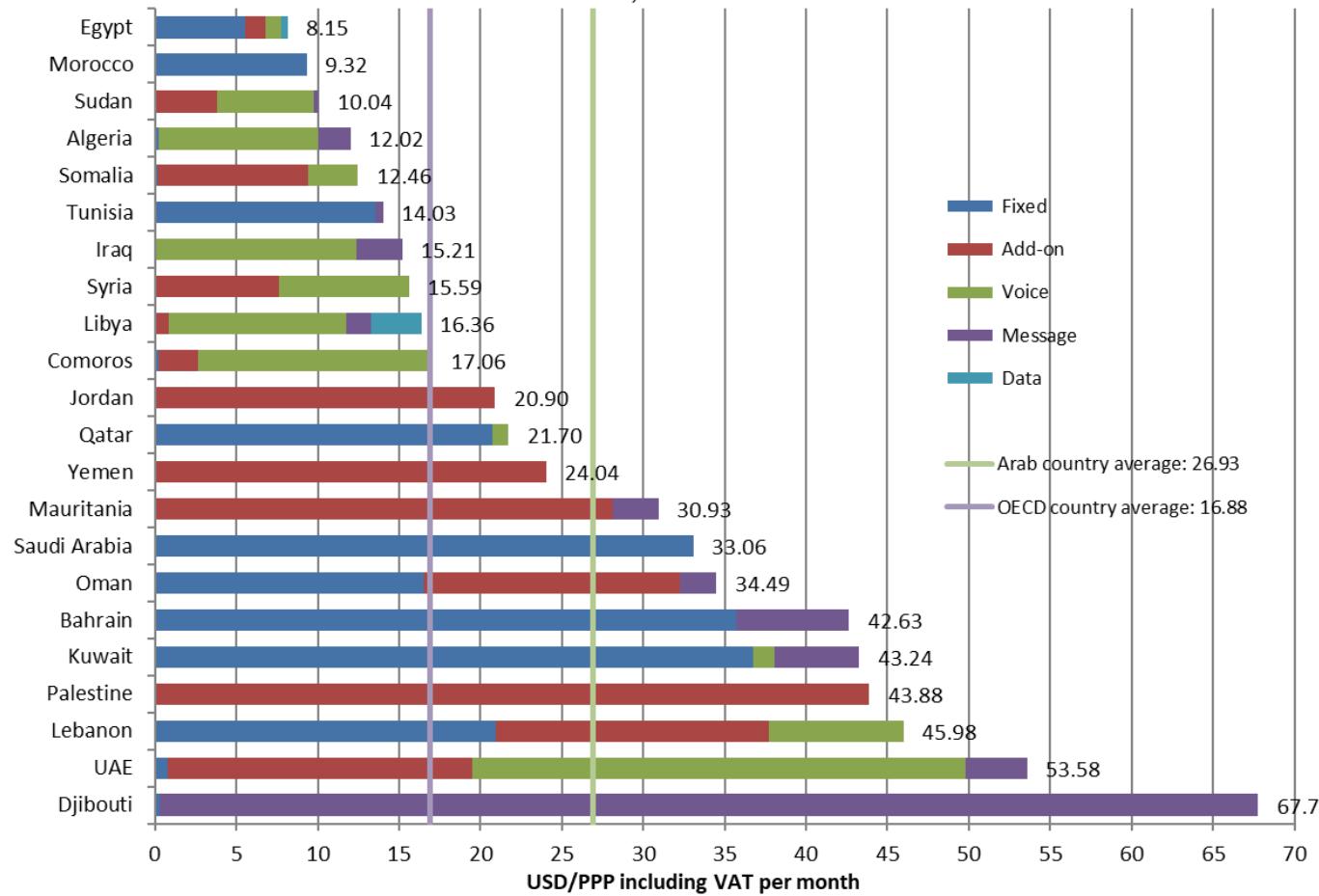
19 country results are based on prepaid tariffs

100 CALLS AND 0.5GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 100 calls, 0.5 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

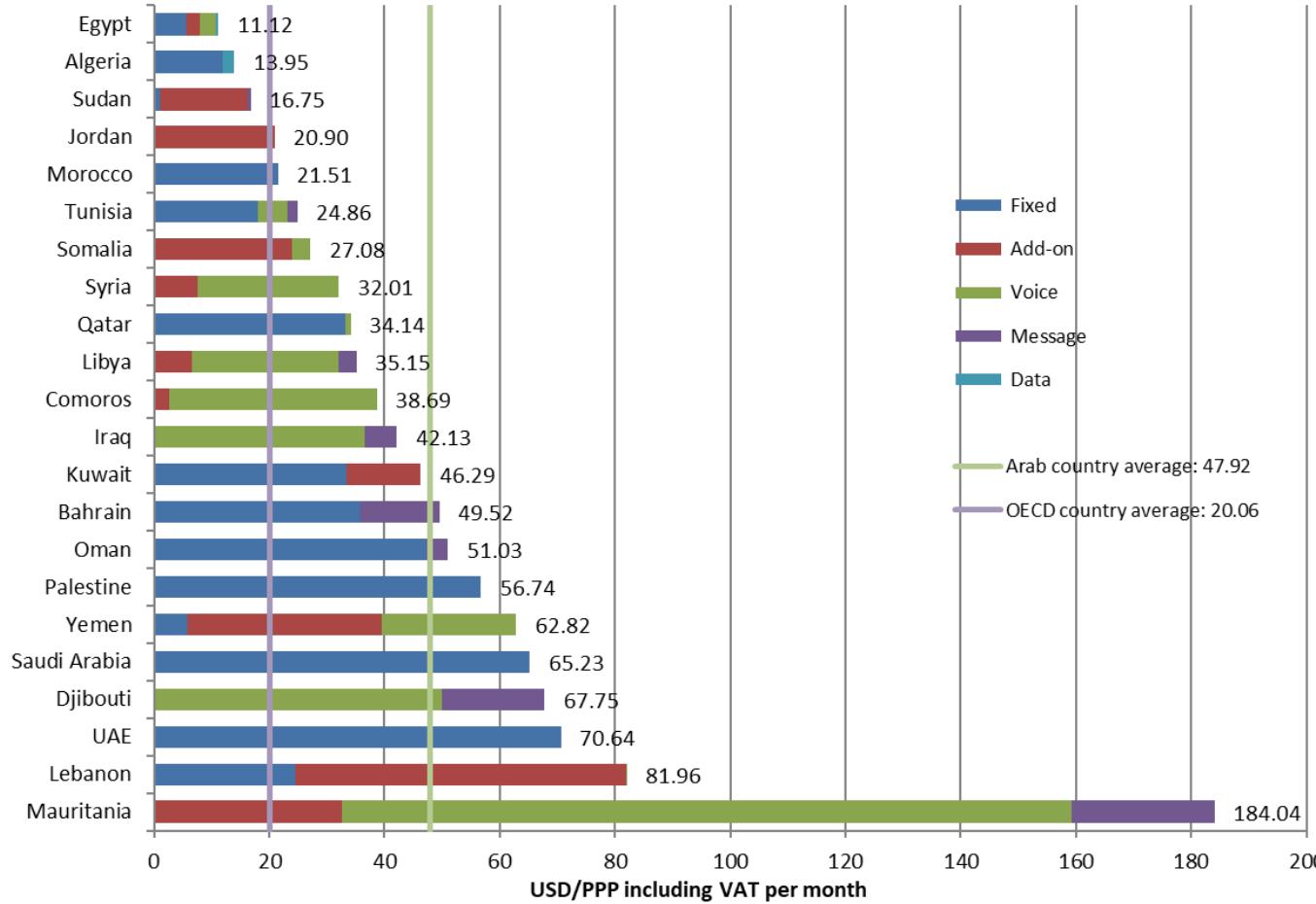
16 country results are based on prepaid tariffs

300 CALLS AND 1GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 300 calls, 1 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

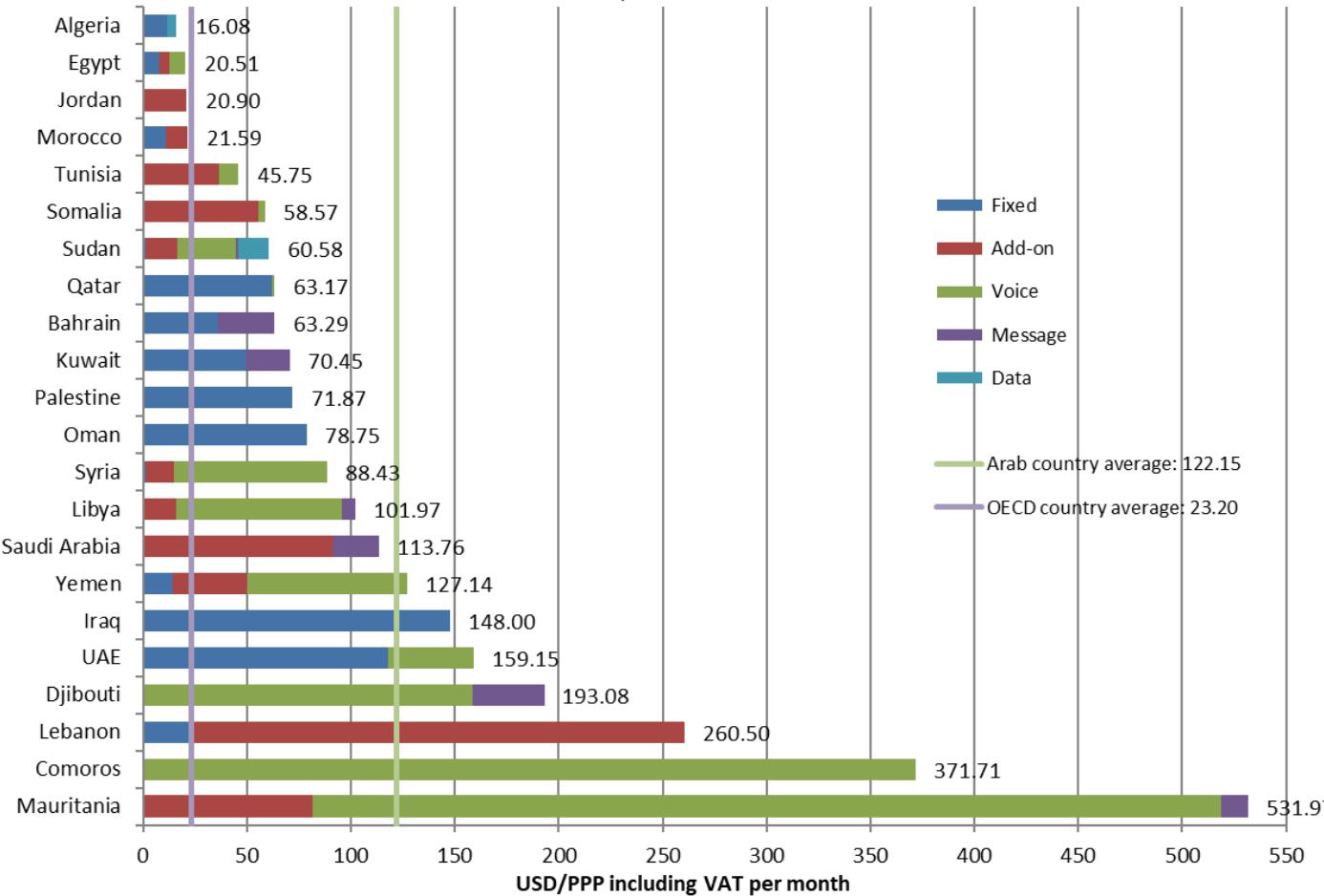
11 country results are based on prepaid tariffs

900 CALLS AND 2GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 900 calls, 2 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

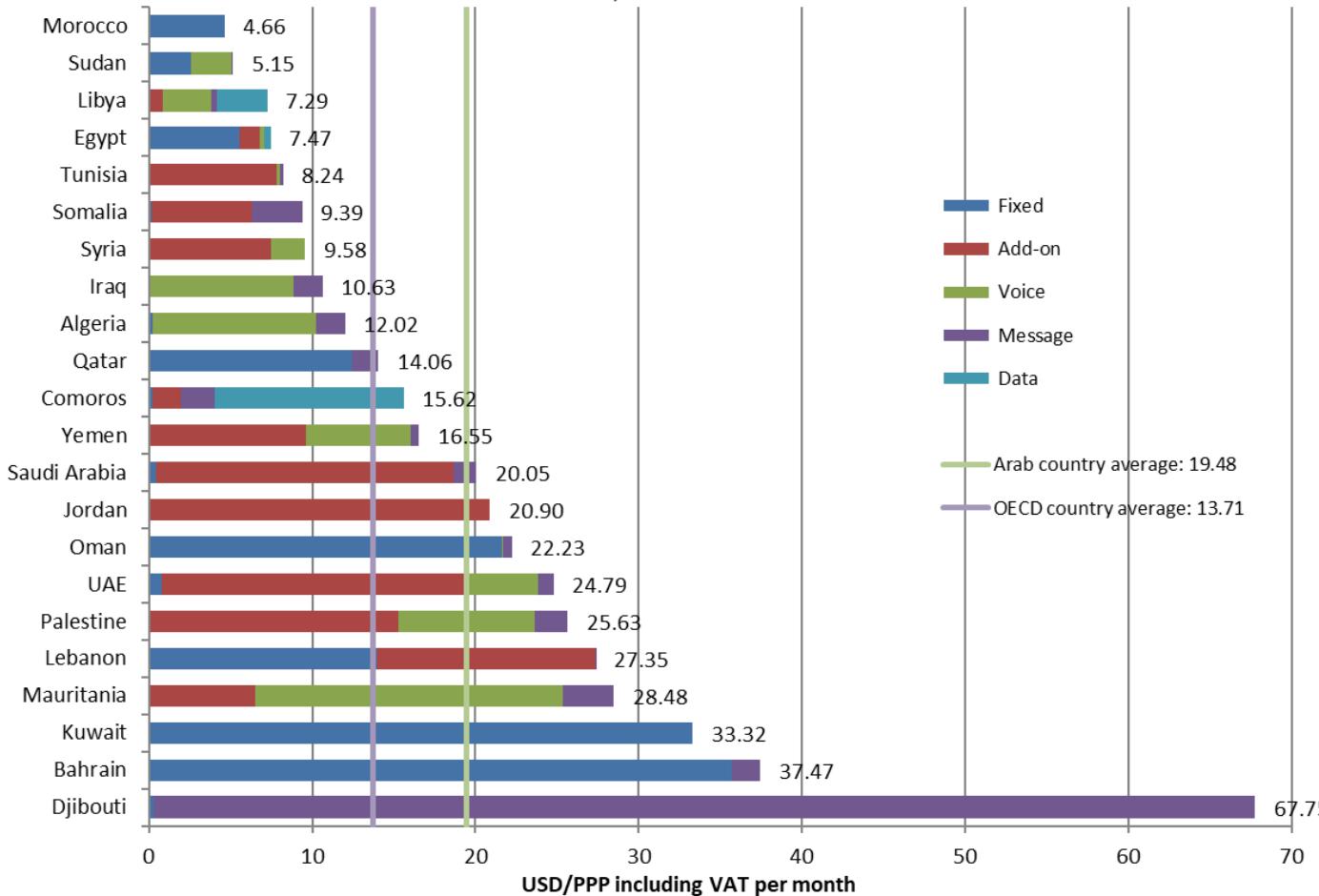
9 country results are based on prepaid tariffs

30 CALLS AND 0.5GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 30 calls, 0.5 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

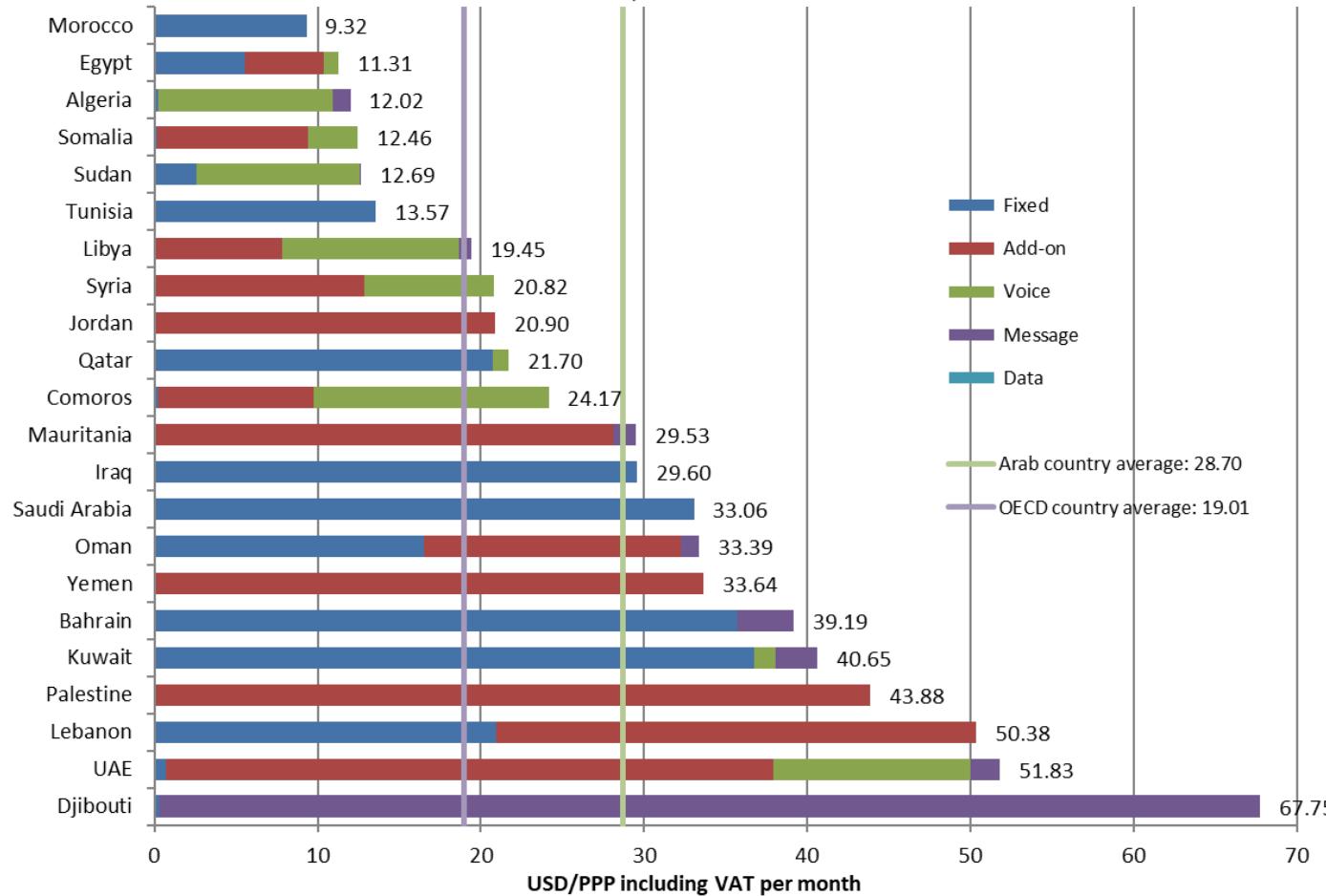
19 country results are based on prepaid tariffs

100 CALLS AND 2GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 100 calls, 2 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

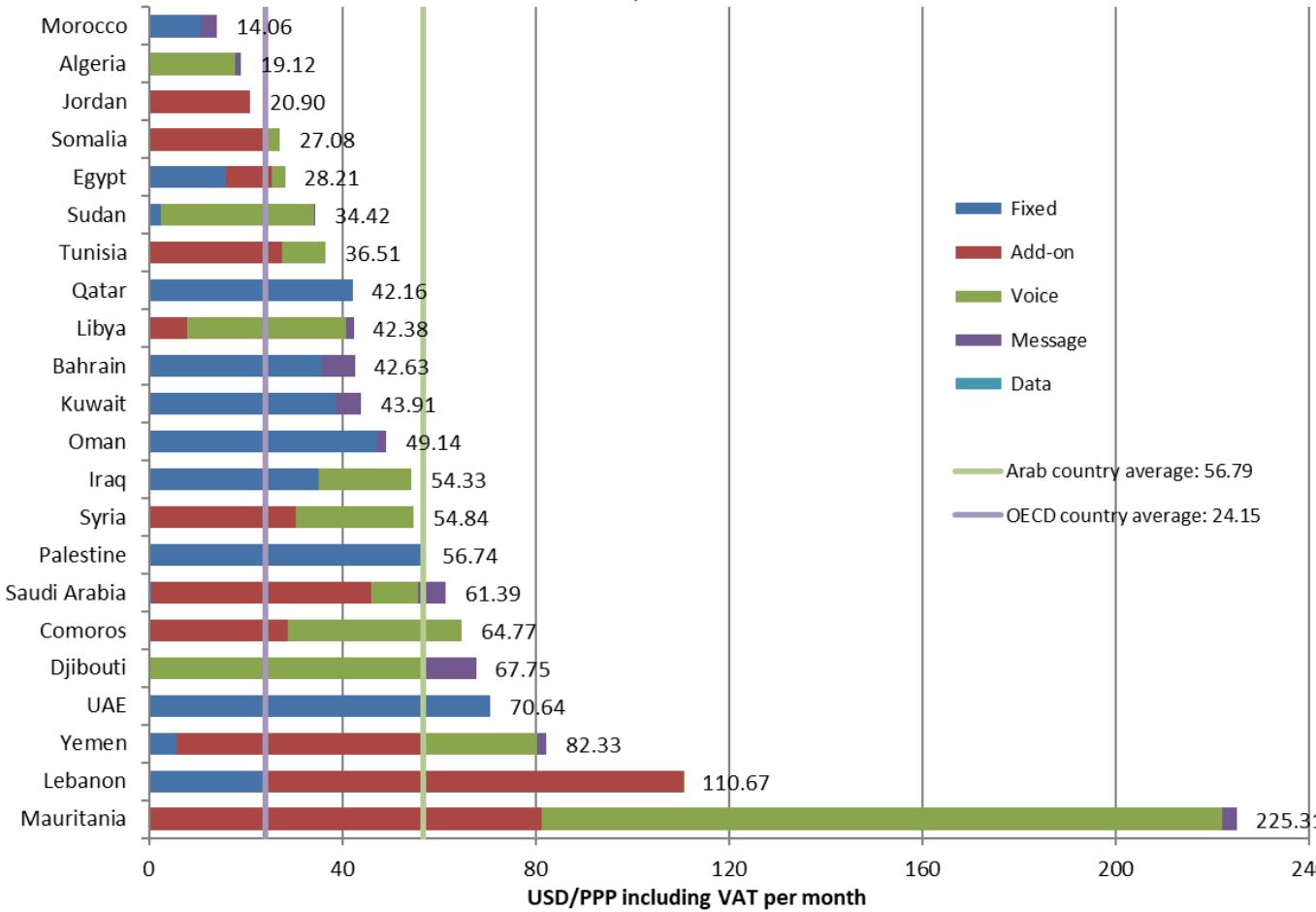
15 country results are based on prepaid tariffs

300 CALLS AND 5GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 300 calls, 5 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

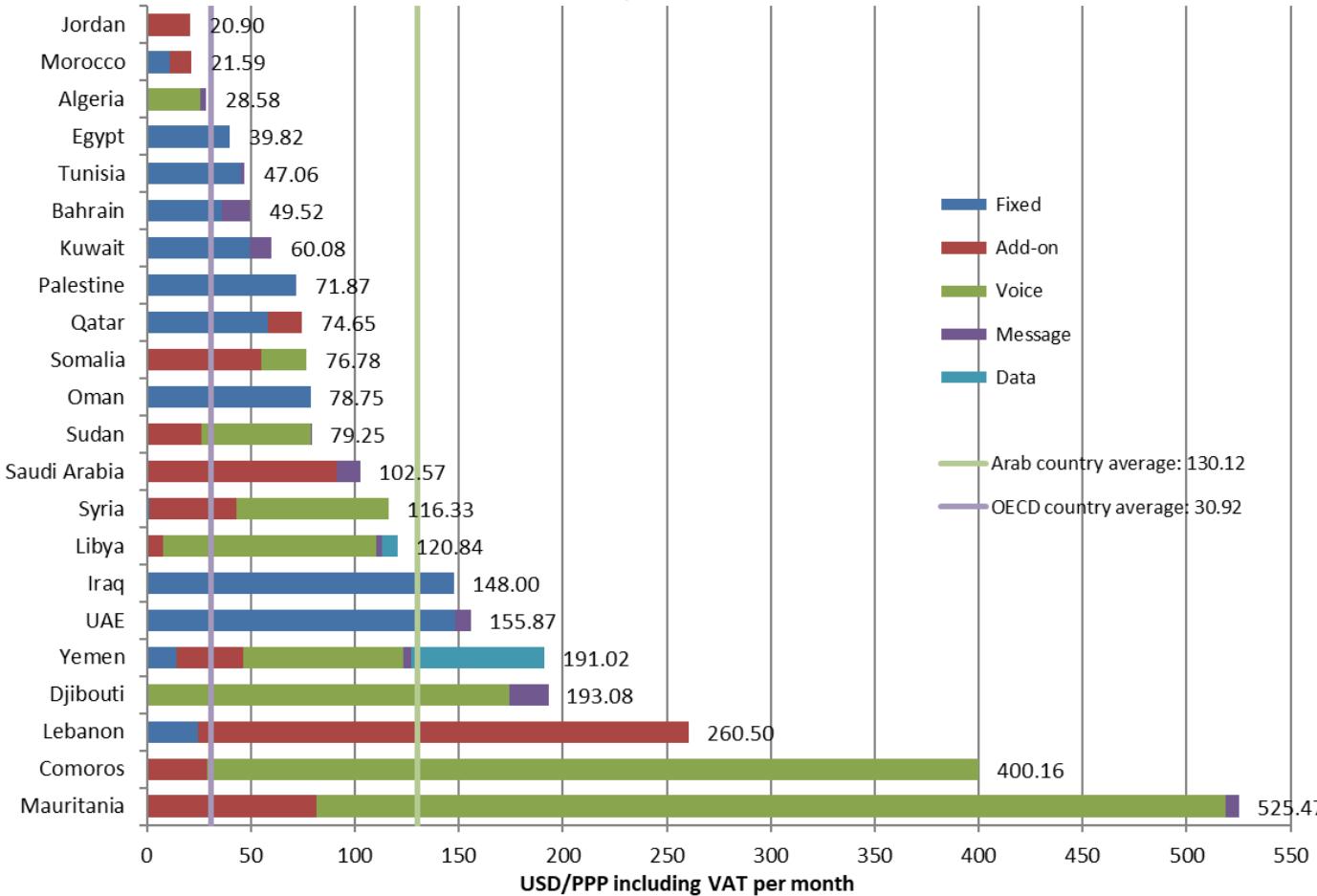
11 country results are based on prepaid tariffs

900 CALLS AND 10GB/MONTH, RESIDENTIAL BASED ON 2017 OECD MOBILE VOICE AND DATA BASKET



AREGNET Mobile Voice and Data Price Benchmarking 2022

OECD 2017: 900 calls, 10 GB



Please note:
Selective discounts included.

The data charges shown on the graph refer to overage charges only. Fixed data charges may be embedded in the monthly fixed charges.

9 country results are based on prepaid tariffs

COMPARISON OF OECD AND ARAB AVERAGES

	USD PPP/month inc VAT	
	OECD average	Arab average
30 calls no data	9	10
100 calls no data	14	19
30 calls, 0.1 GB	13	16
100 calls, 0.5 GB	17	27
300 calls, 1 GB	20	48
900 calls, 2 GB	23	122
30 calls, 0.5 GB	14	19
100 calls, 2 GB	19	29
300 calls, 5 GB	24	57
900 calls, 10 GB	31	130

	% that Arab average is higher or lower than OECD average
30 calls no data	16.0%
100 calls no data	37%
30 calls, 0.1 GB	29%
100 calls, 0.5 GB	59%
300 calls, 1 GB	139%
900 calls, 2 GB	427%
30 calls, 0.5 GB	42%
100 calls, 2 GB	51%
300 calls, 5 GB	135%
900 calls, 10 GB	321%

- The table shows the average monthly cost for residential and business baskets separately, for both the Arab countries and OECD countries, as well as the percentage that the Arab average is higher or lower than the OECD average.
- The Arab average is consistently higher than the OECD average.
- For lower usage baskets, the difference between OECD average and Arab average is relatively small in real terms, while for higher usage baskets the Arab average is significantly more expensive than the OECD average.
- The Arab average is impacted by some very expensive countries, particularly for higher usage.

Mobile voice and data time series analysis and ranking tables 2018–2022

OECD MOBILE BASKETS RANKING 30 CALLS/MONTH NO DATA



Results for Mobile Voice and Data: OECD 2017: 30 calls, no data basket, 2018-2022
 Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	15.76	23.78	11.83	11.83	11.83
Bahrain	32.87	32.90	28.57	29.42	29.42
Comoros	14.69	14.69	14.69	14.69	14.69
Djibouti					5.09
Egypt	1.45	1.45	1.42	1.42	1.42
Iraq	7.19	7.19	7.50	7.50	7.50
Jordan	8.93	9.72	4.16	3.24	3.24
Kuwait	15.47	16.69	16.69	34.62	33.32
Lebanon	58.47	42.12	46.74	46.74	13.96
Libya	3.43	3.43	3.45	3.45	3.45
Mauritania	13.17	15.58	16.89	16.89	13.06
Morocco	2.15	2.15	2.15	2.15	2.15
Oman	14.78	14.78	8.11	8.52	8.94
Palestine	18.09	18.09	14.13	14.28	14.28
Qatar	8.58	8.70	10.87	9.49	14.06
Saudi Arabia	6.42	17.05	17.03	17.03	20.05
Somalia					6.32
Sudan					1.21
Syria	2.32	2.29	2.29	2.29	2.29
Tunisia	4.65	4.65	4.71	4.71	4.71
UAE	10.14	11.13	11.13	10.51	10.38
Yemen	6.43	6.43	6.43	6.43	6.43

Arab average	12.89	13.31	12.04	12.90	10.35
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Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	16	17	12	12	14
Bahrain	18	18	18	17	21
Comoros	13	11	14	14	19
Djibouti					8
Egypt	1	1	1	1	2
Iraq	8	7	8	8	11
Jordan	10	9	5	4	5
Kuwait	15	14	15	18	22
Lebanon	19	19	19	19	16
Libya	4	4	4	5	6
Mauritania	12	13	16	15	15
Morocco	2	2	2	2	3
Oman	14	12	9	9	12
Palestine	17	16	13	13	18
Qatar	9	8	10	10	17
Saudi Arabia	6	15	17	16	20
Somalia					9
Sudan					1
Syria	3	3	3	3	4
Tunisia	5	5	6	6	7
UAE	11	10	11	11	13
Yemen	7	6	7	7	10

Least expensive
 Most expensive

OECD MOBILE BASKETS RANKING 100 CALLS/MONTH NO DATA



Results for Mobile Voice and Data: OECD 2017: 100 calls, no data basket, 2018-2022

Results in USD/PPP including VAT per month^b

	2018	2019	2020	2021	2022
Algeria	23.78	23.78	11.83	11.83	11.83
Bahrain	32.87	32.90	28.57	29.42	29.42
Comoros	24.30	14.69	14.69	14.69	14.69
Djibouti					19.55
Egypt	2.79	2.79	4.51	3.49	4.19
Iraq	17.82	11.80	11.80	11.74	13.80
Jordan	12.69	12.54	14.38	10.74	10.74
Kuwait	33.87	50.19	32.42	42.40	40.65
Lebanon	121.79	121.79	121.79	121.79	41.08
Libya	10.54	9.61	9.61	9.61	9.44
Mauritania	47.69	56.95	29.53	29.53	29.53
Morocco	4.30	4.30	4.30	4.30	4.30
Oman	27.78	27.78	16.00	16.80	17.64
Palestine	36.66	43.36	40.91	30.26	30.26
Qatar	22.90	15.70	16.23	20.46	15.79
Saudi Arabia	22.02	31.24	32.17	32.95	33.06
Somalia					12.46
Sudan					1.28
Syria	8.36	8.14	8.14	8.14	8.14
Tunisia	7.70	8.95	8.93	8.93	13.26
UAE	23.18	24.49	34.02	35.87	35.79
Yemen	14.24	14.24	14.24	13.81	14.24
Arab average	26.07	27.12	23.90	24.04	18.69

- Below Arab average
- Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	12	11	7	8	7
Bahrain	15	15	13	13	16
Comoros	13	9	10	10	12
Djibouti					15
Egypt	1	1	2	1	2
Iraq	8	6	6	7	10
Jordan	6	7	9	6	6
Kuwait	16	17	16	18	21
Lebanon	19	19	19	19	22
Libya	5	5	5	5	5
Mauritania	18	18	14	14	17
Morocco	2	2	1	2	3
Oman	14	13	11	11	14
Palestine	17	16	18	15	18
Qatar	10	10	12	12	13
Saudi Arabia	9	14	15	16	19
Somalia					8
Sudan					1
Syria	4	3	3	3	4
Tunisia	3	4	4	4	9
UAE	11	12	17	17	20
Yemen	7	8	8	9	11

- Least expensive
- Most expensive

OECD MOBILE BASKETS RANKING 30 CALLS AND 0.1GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 30 calls, 0.1 GB basket, 2018-2022
 Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	23.78	23.78	11.83	11.83	11.83
Bahrain	35.65	37.90	37.95	41.51	39.19
Comoros	14.69	14.69	14.69	14.69	14.69
Djibouti					5.09
Egypt	3.44	3.44	3.60	3.60	3.60
Iraq	7.89	7.89	11.80	10.63	10.63
Jordan	22.85	10.76	20.90	20.90	20.90
Kuwait	27.99	35.01	32.42	35.91	33.32
Lebanon	90.45	82.05	96.75	96.75	26.27
Libya	7.67	7.67	7.67	7.67	7.67
Mauritania	38.37	37.30	29.53	29.53	29.53
Morocco	10.40	10.40	10.40	4.66	4.66
Oman	14.78	21.42	20.94	20.94	20.94
Palestine	35.41	31.30	23.67	23.82	27.60
Qatar	21.37	11.89	11.53	15.79	15.68
Saudi Arabia	13.08	20.05	20.05	21.45	21.45
Somalia					12.46
Sudan					5.21
Syria	4.42	6.10	6.10	6.10	6.10
Tunisia	5.13	5.15	5.15	5.15	8.47
UAE	10.84	12.49	12.49	18.03	23.76
Yemen	9.70	9.70	9.70	9.70	9.70

Arab average	20.94	20.47	20.38	20.98	16.31
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- Below Arab average
- Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	9	8	10
Bahrain	17	18	18	18	22
Comoros	10	11	11	9	12
Djibouti					3
Egypt	1	1	1	1	1
Iraq	5	5	8	7	9
Jordan	13	8	13	12	14
Kuwait	15	16	17	17	21
Lebanon	19	19	19	19	18
Libya	4	4	4	5	6
Mauritania	18	17	16	16	20
Morocco	7	7	6	2	2
Oman	11	13	14	13	15
Palestine	16	15	15	15	19
Qatar	12	9	7	10	13
Saudi Arabia	9	12	12	14	16
Somalia					11
Sudan					4
Syria	2	3	3	4	5
Tunisia	3	2	2	3	7
UAE	8	10	10	11	17
Yemen	6	6	5	6	8

- Least expensive
- Most expensive

OECD MOBILE BASKETS RANKING 100 CALLS AND 0.5GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 100 calls, 0.5 GB basket, 2018-2022

Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	23.78	23.78	13.24	12.02	12.02
Bahrain	49.01	41.29	45.16	44.73	42.63
Comoros	19.38	17.06	17.06	17.06	17.06
Djibouti					67.75
Egypt	3.98	3.98	5.35	6.68	8.15
Iraq	28.62	21.15	21.15	13.14	15.21
Jordan	24.37	14.63	20.90	20.90	20.90
Kuwait	49.43	50.19	32.42	44.99	43.24
Lebanon	136.58	163.89	163.89	163.89	45.98
Libya	24.85	15.78	16.56	16.36	16.36
Mauritania	73.70	79.38	30.93	30.93	30.93
Morocco	15.17	15.52	15.52	9.32	9.32
Oman	27.78	32.41	32.00	34.10	34.49
Palestine	58.90	64.53	56.19	41.61	43.88
Qatar	28.35	21.70	21.70	21.70	21.70
Saudi Arabia	32.53	33.06	32.17	32.95	33.06
Somalia					12.46
Sudan					10.04
Syria	14.43	15.59	15.59	15.59	15.59
Tunisia	8.60	9.40	9.38	9.38	14.03
UAE	24.97	35.71	35.71	37.66	53.58
Yemen	24.10	24.10	26.26	26.26	24.04

Arab average	35.19	35.96	32.17	31.54	26.93
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- Below Arab average
- Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	6	10	3	4	4
Bahrain	15	15	17	17	17
Comoros	5	7	7	8	10
Djibouti					22
Egypt	1	1	1	1	1
Iraq	13	8	9	5	7
Jordan	8	3	8	9	11
Kuwait	16	16	15	18	18
Lebanon	19	19	19	19	20
Libya	9	6	6	7	9
Mauritania	18	18	12	12	14
Morocco	4	4	4	2	2
Oman	11	12	13	14	16
Palestine	17	17	18	16	19
Qatar	12	9	10	10	12
Saudi Arabia	14	13	14	13	15
Somalia					5
Sudan					3
Syria	3	5	5	6	8
Tunisia	2	2	2	3	6
UAE	10	14	16	15	21
Yemen	7	11	11	11	13

- Least expensive
- Most expensive

OECD MOBILE BASKETS RANKING

300 CALLS AND 1GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 300 calls, 1 GB basket, 2018-2022

Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	33.51	23.78	15.09	15.09	13.95
Bahrain	54.54	52.35	57.26	52.83	49.52
Comoros	94.52	38.69	38.69	38.69	38.69
Djibouti					67.75
Egypt	6.77	6.77	10.69	11.48	11.12
Iraq	80.08	39.84	39.84	36.04	42.13
Jordan	26.46	18.81	20.90	20.90	20.90
Kuwait	85.29	85.29	66.71	69.81	46.29
Lebanon	250.28	235.23	235.23	235.23	81.96
Libya	48.55	35.28	36.05	36.05	35.15
Mauritania	171.77	196.62	148.30	148.30	184.04
Morocco	21.30	22.07	24.04	21.51	21.51
Oman	69.27	94.99	48.60	48.60	51.03
Palestine	121.03	95.94	71.97	56.74	56.74
Qatar	58.84	41.47	42.30	42.30	34.14
Saudi Arabia	74.14	53.61	64.34	65.11	65.23
Somalia					27.08
Sudan					16.75
Syria	30.97	32.01	32.01	32.01	32.01
Tunisia	21.72	21.72	21.72	21.72	24.86
UAE	70.64	74.17	70.64	70.64	70.64
Yemen	61.24	56.63	63.77	63.77	62.82
Arab average	72.68	64.49	58.32	57.20	47.92

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	6	5	2	2	2
Bahrain	8	11	12	12	14
Comoros	16	8	8	9	11
Djibouti					19
Egypt	1	1	1	1	1
Iraq	14	9	9	7	12
Jordan	4	2	3	3	4
Kuwait	15	15	15	16	13
Lebanon	19	19	19	19	21
Libya	7	7	7	8	10
Mauritania	18	18	18	18	22
Morocco	2	4	5	4	5
Oman	11	16	11	11	15
Palestine	17	17	17	13	16
Qatar	9	10	10	10	9
Saudi Arabia	13	12	14	15	18
Somalia					7
Sudan					3
Syria	5	6	6	6	8
Tunisia	3	3	4	5	6
UAE	12	14	16	17	20
Yemen	10	13	13	14	17

Least expensive
 Most expensive

OECD MOBILE BASKETS RANKING 900 CALLS AND 2GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 900 calls, 2 GB basket, 2018-2022

Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	80.68	35.67	25.95	25.95	16.08
Bahrain	115.51	123.92	119.39	119.39	63.29
Comoros	402.15	371.71	371.71	371.71	371.71
Djibouti					193.08
Egypt	13.54	13.54	23.05	22.90	20.51
Iraq	285.85	146.79	139.78	139.78	148.00
Jordan	31.75	22.81	20.90	20.90	20.90
Kuwait	182.84	182.84	116.70	80.18	70.45
Lebanon	749.37	749.37	749.37	749.37	260.50
Libya	127.02	95.64	105.67	105.67	101.97
Mauritania	475.18	560.56	543.14	543.14	531.97
Morocco	42.81	44.18	44.00	44.00	21.59
Oman	170.27	155.88	75.00	75.00	78.75
Palestine	298.81	152.47	192.91	71.87	71.87
Qatar	103.45	82.94	62.98	77.27	63.17
Saudi Arabia	180.13	129.57	88.20	113.76	113.76
Somalia					58.57
Sudan					60.58
Syria	83.96	77.80	77.80	88.43	88.43
Tunisia	50.48	50.48	45.75	45.75	45.75
UAE	159.15	167.11	159.15	159.15	159.15
Yemen	140.07	130.33	126.23	127.14	127.14

Arab average	194.37	173.35	162.51	156.91	122.15
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Below Arab average

Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	5	3	3	3	1
Bahrain	8	9	12	13	9
Comoros	17	17	17	17	21
Djibouti					19
Egypt	1	1	2	2	2
Iraq	15	12	14	15	17
Jordan	2	2	1	1	3
Kuwait	14	16	11	9	10
Lebanon	19	19	19	19	20
Libya	9	8	10	11	14
Mauritania	18	18	18	18	22
Morocco	3	4	4	4	4
Oman	12	14	7	7	12
Palestine	16	13	16	6	11
Qatar	7	7	6	8	8
Saudi Arabia	13	10	9	12	15
Somalia					6
Sudan					7
Syria	6	6	8	10	13
Tunisia	4	5	5	5	5
UAE	11	15	15	16	18
Yemen	10	11	13	14	16

Least expensive
 Most expensive

OECD MOBILE BASKETS RANKING 30 CALLS + 0.5GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 30 calls, 0.5 GB basket, 2018-2022
 Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	23.78	23.78	13.24	12.02	12.02
Bahrain	34.22	36.21	36.26	39.89	37.47
Comoros	12.05	15.62	15.62	15.62	15.62
Djibouti					67.75
Egypt	3.98	3.98	3.76	3.76	7.47
Iraq	23.95	21.15	21.15	10.63	10.63
Jordan	22.85	9.72	20.90	20.90	20.90
Kuwait	26.69	33.71	32.42	34.62	33.32
Lebanon	96.75	80.39	95.70	95.70	27.35
Libya	15.77	10.42	9.62	7.29	7.29
Mauritania	37.56	36.60	28.83	28.83	28.48
Morocco	10.54	11.01	11.11	4.66	4.66
Oman	14.78	20.92	20.56	22.23	22.23
Palestine	40.56	40.56	25.48	21.85	25.63
Qatar	23.51	12.05	12.58	14.17	14.06
Saudi Arabia	14.81	25.64	18.65	20.05	20.05
Somalia					9.39
Sudan					5.15
Syria	8.35	9.58	9.58	9.58	9.58
Tunisia	4.90	4.92	4.92	4.92	8.24
UAE	18.19	21.91	21.91	18.03	24.79
Yemen	23.53	20.12	21.71	21.71	16.55

Arab average	24.04	23.07	22.32	21.39	19.48
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- Below Arab average
- Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	13	13	7	7	9
Bahrain	16	16	18	18	21
Comoros	5	8	8	9	11
Djibouti					22
Egypt	1	1	1	1	4
Iraq	14	11	12	6	8
Jordan	10	4	11	12	14
Kuwait	15	15	17	17	20
Lebanon	19	19	19	19	18
Libya	8	5	4	4	3
Mauritania	17	17	16	16	19
Morocco	4	6	5	2	1
Oman	6	10	10	15	15
Palestine	18	18	15	14	17
Qatar	11	7	6	8	10
Saudi Arabia	7	14	9	11	13
Somalia					6
Sudan					2
Syria	3	3	3	5	7
Tunisia	2	2	2	3	5
UAE	9	12	14	10	16
Yemen	12	9	13	13	12

- Least expensive
- Most expensive

OECD MOBILE BASKETS RANKING 100 CALLS + 2GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 100 calls, 2 GB basket, 2018-2022
 Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	24.19	23.78	17.15	12.02	12.02
Bahrain	45.92	37.90	41.72	41.51	39.19
Comoros	14.92	24.17	24.17	24.17	24.17
Djibouti					67.75
Egypt	8.76	8.76	4.74	7.93	11.31
Iraq	48.25	31.84	25.82	25.82	29.60
Jordan	26.46	12.54	20.90	20.90	20.90
Kuwait	50.19	50.19	32.42	42.40	40.65
Lebanon	209.31	221.31	221.31	221.31	50.38
Libya	30.25	15.01	24.08	19.45	19.45
Mauritania	72.07	77.98	29.53	29.53	29.53
Morocco	15.06	15.06	15.06	9.32	9.32
Oman	45.00	36.41	41.00	33.05	33.39
Palestine	150.23	79.66	63.60	49.17	43.88
Qatar	49.93	25.71	25.71	25.71	21.70
Saudi Arabia	45.09	33.06	32.17	32.95	33.06
Somalia					12.46
Sudan					12.69
Syria	16.55	20.82	20.82	20.82	20.82
Tunisia	19.53	25.58	22.31	22.31	13.57
UAE	23.18	61.94	59.04	50.17	51.83
Yemen	52.71	50.76	47.88	47.88	33.64

Arab average	49.87	44.87	40.50	38.76	28.70
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 Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	7	6	3	3	3
Bahrain	12	13	15	14	17
Comoros	2	7	8	8	11
Djibouti					22
Egypt	1	1	1	1	2
Iraq	13	10	10	10	13
Jordan	8	2	5	6	9
Kuwait	15	14	13	15	18
Lebanon	19	19	19	19	20
Libya	9	3	7	4	7
Mauritania	17	17	11	11	12
Morocco	3	4	2	2	1
Oman	10	12	14	13	15
Palestine	18	18	18	17	19
Qatar	14	9	9	9	10
Saudi Arabia	11	11	12	12	14
Somalia					4
Sudan					5
Syria	4	5	4	5	8
Tunisia	5	8	6	7	6
UAE	6	16	17	18	21
Yemen	16	15	16	16	16

 Least expensive
 Most expensive

OECD MOBILE BASKETS RANKING 300 CALLS + 5GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 300 calls, 5 GB basket, 2018-2022
 Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	41.41	23.78	23.78	19.12	19.12
Bahrain	50.23	47.83	51.81	48.41	42.63
Comoros	91.67	64.77	64.77	64.77	64.77
Djibouti					67.75
Egypt	15.93	15.93	10.31	21.50	28.21
Iraq	126.34	77.27	54.22	47.21	54.33
Jordan	31.75	22.81	20.90	20.90	20.90
Kuwait	85.29	85.29	66.71	64.62	43.91
Lebanon	311.52	311.52	311.52	311.52	110.67
Libya	217.54	33.73	53.95	42.38	42.38
Mauritania	225.43	193.82	258.96	258.96	225.31
Morocco	19.36	19.36	19.36	19.36	14.06
Oman	94.99	94.99	46.80	46.80	49.14
Palestine	298.81	112.71	71.97	71.87	56.74
Qatar	77.81	62.21	48.58	42.51	42.16
Saudi Arabia	65.39	65.23	64.34	61.39	61.39
Somalia					27.08
Sudan					34.42
Syria	38.39	54.84	54.84	54.84	54.84
Tunisia	90.50	77.03	36.51	36.51	36.51
UAE	75.67	79.45	70.64	70.64	70.64
Yemen	164.05	125.61	105.62	105.62	82.33

Arab average	111.69	82.54	75.56	74.15	56.79
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- Below Arab average
- Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	5	4	4	1	2
Bahrain	6	6	8	10	10
Comoros	12	9	13	14	17
Djibouti					18
Egypt	1	1	1	4	5
Iraq	14	12	10	9	13
Jordan	3	3	3	3	3
Kuwait	10	14	14	13	11
Lebanon	19	19	19	19	21
Libya	16	5	9	6	9
Mauritania	17	18	18	18	22
Morocco	2	2	2	2	1
Oman	13	15	6	8	12
Palestine	18	16	16	16	15
Qatar	9	8	7	7	8
Saudi Arabia	7	10	12	12	16
Somalia					4
Sudan					6
Syria	4	7	11	11	14
Tunisia	11	11	5	5	7
UAE	8	13	15	15	19
Yemen	15	17	17	17	20

- Least expensive
- Most expensive

OECD MOBILE BASKETS RANKING

900 CALLS + 10GB DATA/MONTH



Results for Mobile Voice and Data: OECD 2017: 900 calls, 10 GB basket, 2018-2022
 Results in USD/PPP including VAT per month

	2018	2019	2020	2021	2022
Algeria	80.68	58.36	35.29	28.58	28.58
Bahrain	123.49	125.07	119.39	119.39	49.52
Comoros	396.46	400.16	400.16	400.16	400.16
Djibouti					193.08
Egypt	47.79	47.79	43.06	33.58	39.82
Iraq	457.15	308.90	193.23	140.65	148.00
Jordan	45.27	31.94	38.15	31.97	20.90
Kuwait	172.46	172.46	115.01	89.26	60.08
Lebanon	756.26	733.29	733.29	733.29	260.50
Libya	577.65	92.55	124.70	120.84	120.84
Mauritania	525.58	554.95	654.22	654.22	525.47
Morocco	85.84	44.18	44.00	44.00	21.59
Oman	170.27	155.88	75.00	75.00	78.75
Palestine	298.81	298.81	301.83	170.22	71.87
Qatar	132.70	103.68	75.19	77.27	74.65
Saudi Arabia	192.05	129.57	95.57	102.57	102.57
Somalia					76.78
Sudan					79.25
Syria	99.59	116.33	116.33	116.33	116.33
Tunisia	158.00	184.61	54.80	54.80	47.06
UAE	173.30	178.19	159.15	159.15	155.87
Yemen	320.49	241.29	190.29	191.02	191.02

Arab average	253.36	209.37	187.83	175.91	130.12
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Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	3	4	1	1	3
Bahrain	6	8	11	11	6
Comoros	15	17	17	17	21
Djibouti					19
Egypt	2	3	3	3	4
Iraq	16	16	15	13	16
Jordan	1	1	2	2	1
Kuwait	10	11	9	8	7
Lebanon	19	19	19	19	20
Libya	18	5	12	12	15
Mauritania	17	18	18	18	22
Morocco	4	2	4	4	2
Oman	9	10	6	6	11
Palestine	13	15	16	15	8
Qatar	7	6	7	7	9
Saudi Arabia	12	9	8	9	13
Somalia					10
Sudan					12
Syria	5	7	10	10	14
Tunisia	8	13	5	5	5
UAE	11	12	13	14	17
Yemen	14	14	14	16	18

Least expensive
 Most expensive

OBSERVATIONS FROM MOBILE TIME SERIES RESULTS

- Over the period 2021 to 2022, the overall change is one of decreasing prices, across all usage baskets. This is consistent with the trend seen in many markets globally, where mobile allowances are consistently increasing, resulting in a cost decrease in many baskets.

Change in overall average

2021-2022

Usage Basket	Change	Percentage Change
30 calls no data	↓	-20%
100 calls no data	↓	-22%
30 calls, 0.1 GB	↓	-21%
100 calls, 0.5 GB	↓	-14%
300 calls, 1 GB	↓	-16%
900 calls, 2 GB	↓	-22%
30 calls, 0.5 GB	↓	-9%
100 calls, 2 GB	↓	-26%
300 calls, 5 GB	↓	-23%
900 calls, 10 GB	↓	-26%

- Most providers made changes to mobile pricing, and in particular to data allowances. Some of the changes that were observed include, but are not limited to the following (note: the changes are detailed at a country rather than operator level):
 - Algeria: new plans added, changes to data allowances and Pay As You Go (PAYG) monthly allowances
 - Bahrain: VAT increased from 5 to 10%, postpaid plans have been revised, and changes made to PAYG plans, with the net result being decreases in costs
 - Egypt: General plan changes, with some plans removed, and new ones added. Changes to some allowances.
 - Kuwait: New plans added. Changes to data allowances. Pay As You Go (PAYG) : Changes to data add-ons. Replacement and removal of selected plans.
 - Lebanon: Changes to line rental fees and call charges, as well as data add-ons. New plans added.
 - Morocco: Allowance changes – minutes and data add-ons.
 - Qatar: Promotion changes and fixed rental increases
 - Saudi Arabia: Allowance increase for some plans, and call and SMS charge decreases. New plans added.
 - UAE: New plans added, and several plans removed. New data add-ons.

Fixed broadband basket results 2022

FIXED BROADBAND BASKET METHODOLOGY

- Research covering 591 fixed broadband residential and business service offerings from both incumbent and competitor ISPs* in 22 Arab countries
- Costs are derived using the OECD broadband basket methodology and are based on the baskets that were defined by OECD in 2017, which consider a number of speed ranges and usage levels (15 in total). The baskets are shown in the table below.
- The technologies included are DSL, Cable, Fibre and Wireless.
 - As of Q4 2022, 13 Arab countries and 33 OECD countries had broadband services >1000 Mb/s
 - Costs are shown separately for both residential and business services. Note, for business services >= 1000 Mb/s, results are not shown, as offers are not available/published in most markets
- Total monthly cost calculated based on usage profiles, which are dependent on the speed of service, as shown below:

Minimum Download Speed (Mb/s)	Low alternative data volume (GB/month)	Medium data volume (GB/month)	High alternative data volume (GB/month)
0.256	5	15	45
10	10	30	90
25	20	60	180
100	40	120	360
1000	100	300	900

In previous years, results have only been shown based on the incumbent provider only in each country. For this year, two sets of results have been included (current year only, not time series):

- Incumbent only
- Incumbent and competitor ISPs (up to 3 ISPs per country, including incumbent). For this set of results, the cheapest per country is shown.

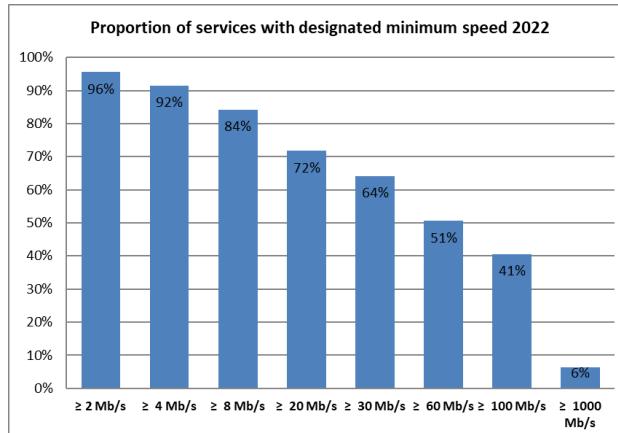
Tariff data cover the cheapest form of installation, amortized over three years, modem cost (if applicable), monthly rental, usage allowances and any usage charges. Additional information on speed, web-space, email addresses, penalties with excess usage, and contract term duration is also included in the basic data and presented along with the cost results.

- To the extent this information is published by the provider

* **Incumbent ISP will normally mean the ISP owned by the incumbent operator in the country.**

FIXED BROADBAND DATA ISSUES

- Speeds have continued to rise since 2021. The table below shows that 96% of all services recorded have a minimum advertised download speed of 2 Mb/s or above, 64% of services are at least 30 Mb/s, and over 40% of plans are at least 100 Mb/s.



- Speeds above 2 Mb/s are available in all 22 countries covered. Five countries offer speeds over 1000Mb/s. The average speed for the Arab countries for the current update is almost 186 Mb/s, up from 183 Mb/s in 2021. This average includes services for the additional ISPs now included in the analysis.
- The table below shows the trend in development of speeds from 2018 to 2022. Up to 2021, there is a clear increase in the availability of higher speed services. In 2022, the data includes additional providers beyond the incumbent in each country, and this impacts the 2022 results.

	2018	2019	2020	2021	2022
≥ 2 Mb/s	88%	90%	91%	90%	96%
≥ 4 Mb/s	79%	81%	83%	84%	92%
≥ 8 Mb/s	63%	66%	67%	73%	84%
≥ 20 Mb/s	39%	42%	46%	58%	72%
≥ 30 Mb/s	29%	32%	37%	51%	64%
≥ 60 Mb/s	16%	20%	22%	38%	51%
≥ 100 Mb/s	11%	14%	18%	32%	41%
≥ 1000 Mb/s	1%	1%	1%	7%	6%

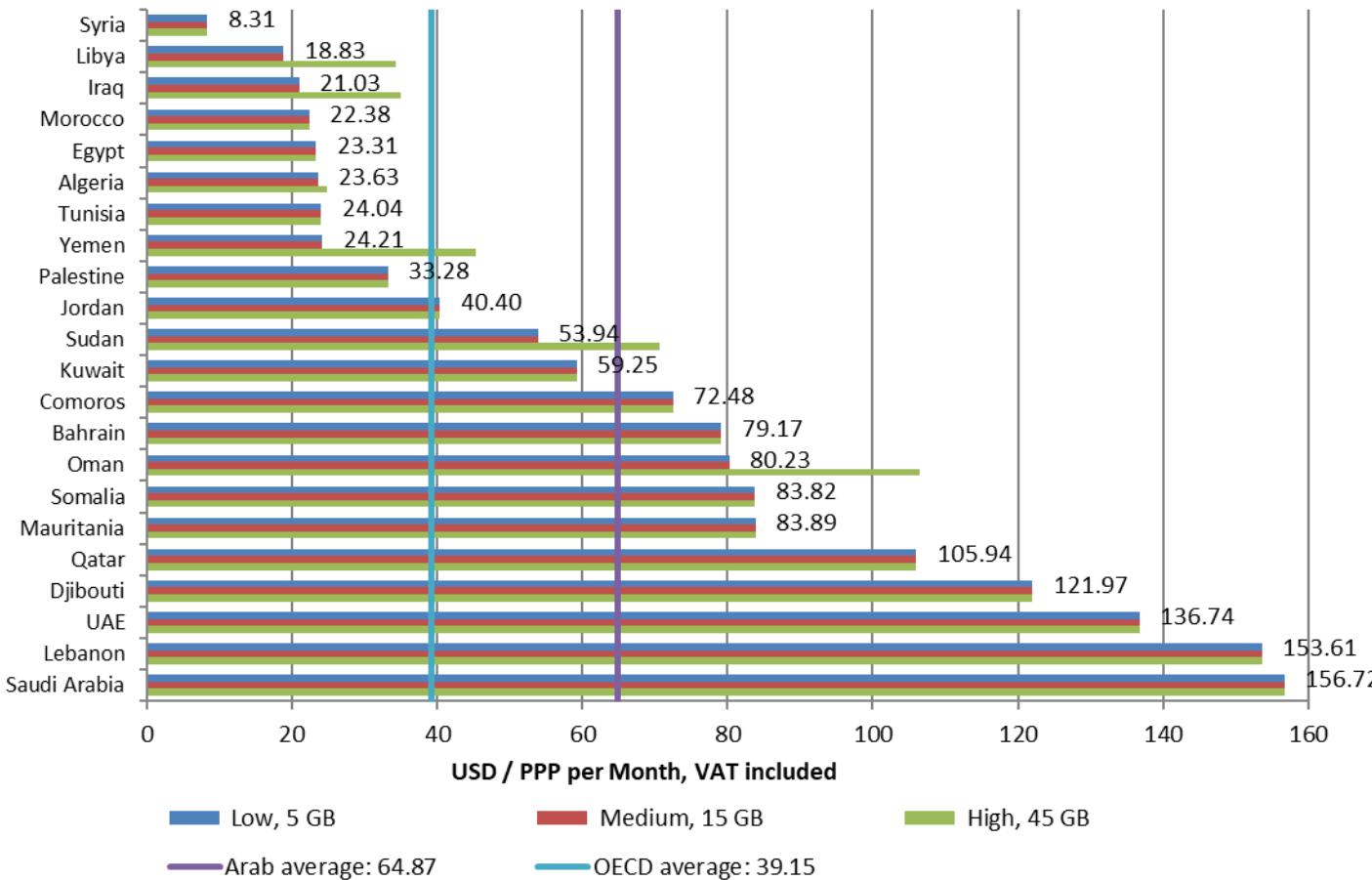
Note: the average speed is a simple average across the packages, and does not take into account the distribution of customers across available plans. Information on customer distribution is not available, and hence a weighted average is not possible.

RESIDENTIAL FIXED BROADBAND VERY LOW SPEED OECD 2017 BASKET >= 0.25 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=0.25 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 5 GB
Medium usage: 15 GB
High usage: 45 GB.

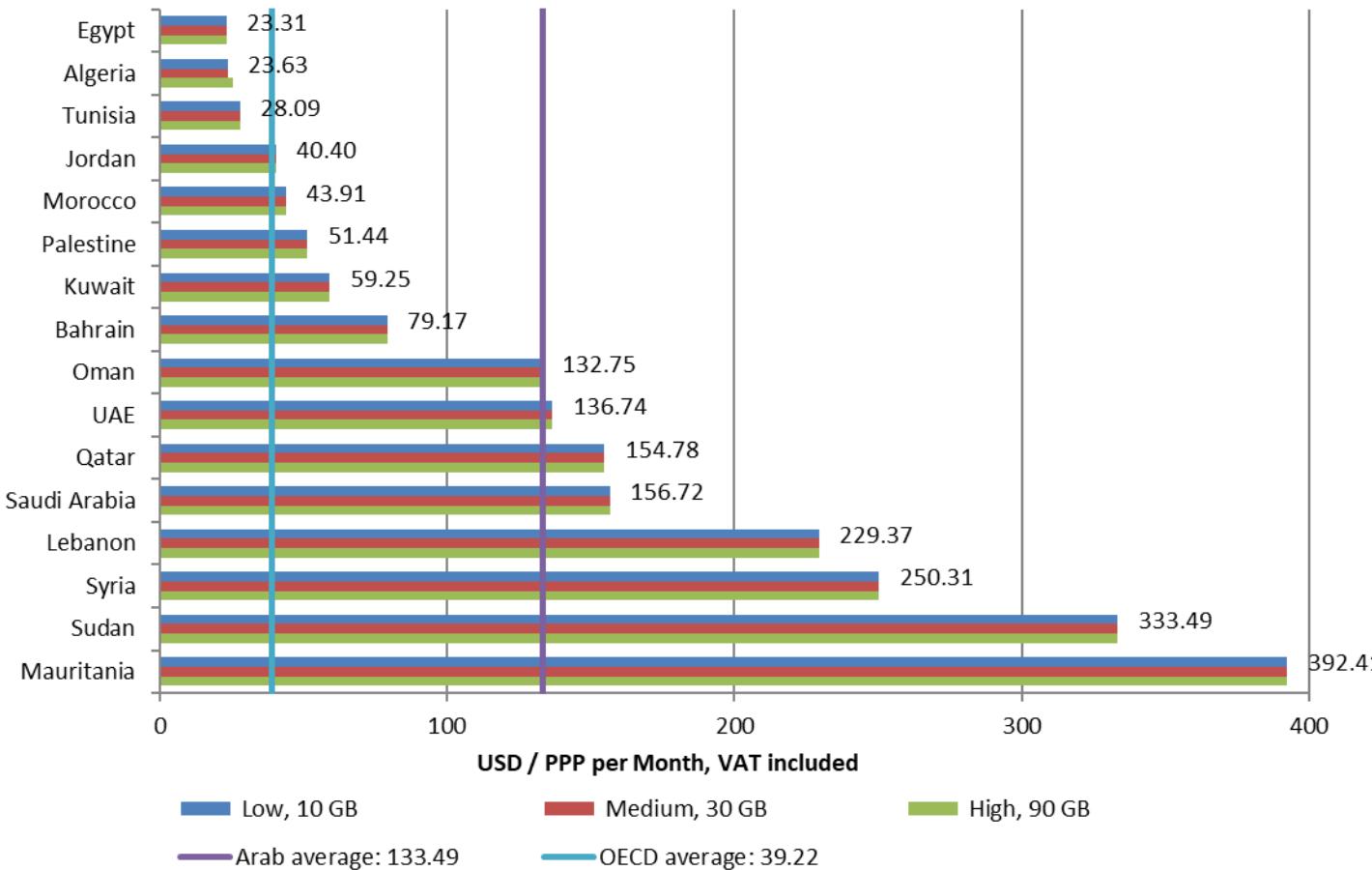
Average lines are based on the medium usage basket.

RESIDENTIAL FIXED BROADBAND LOW SPEED OECD 2017 BASKET >= 10 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=10 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 10 GB
Medium usage: 30 GB
High usage: 90 GB.

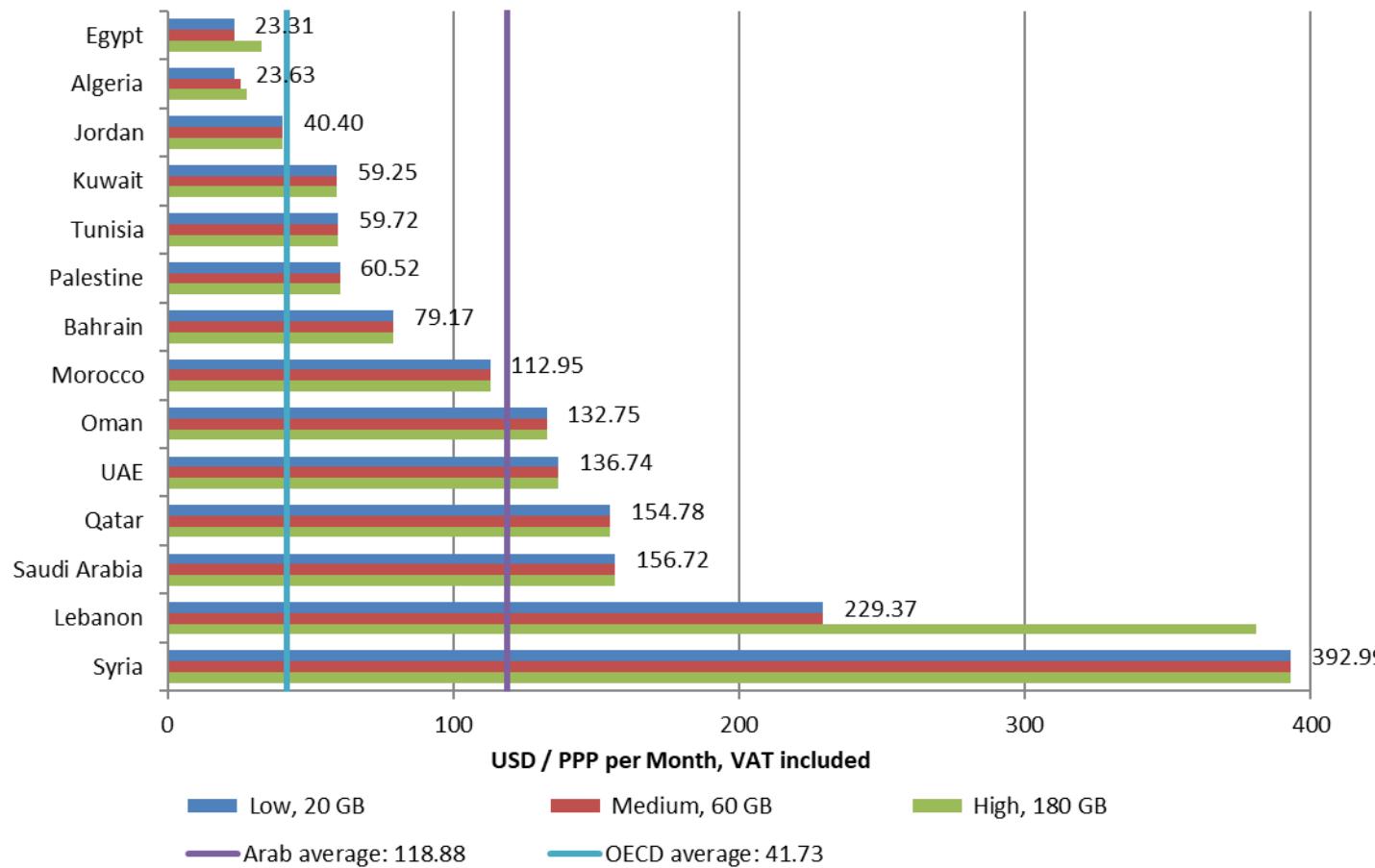
Average lines are based on the medium usage basket.

RESIDENTIAL FIXED BROADBAND MEDIUM SPEED OECD 2017 BASKET >= 25 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=25 Mb/s, low, medium and high usage

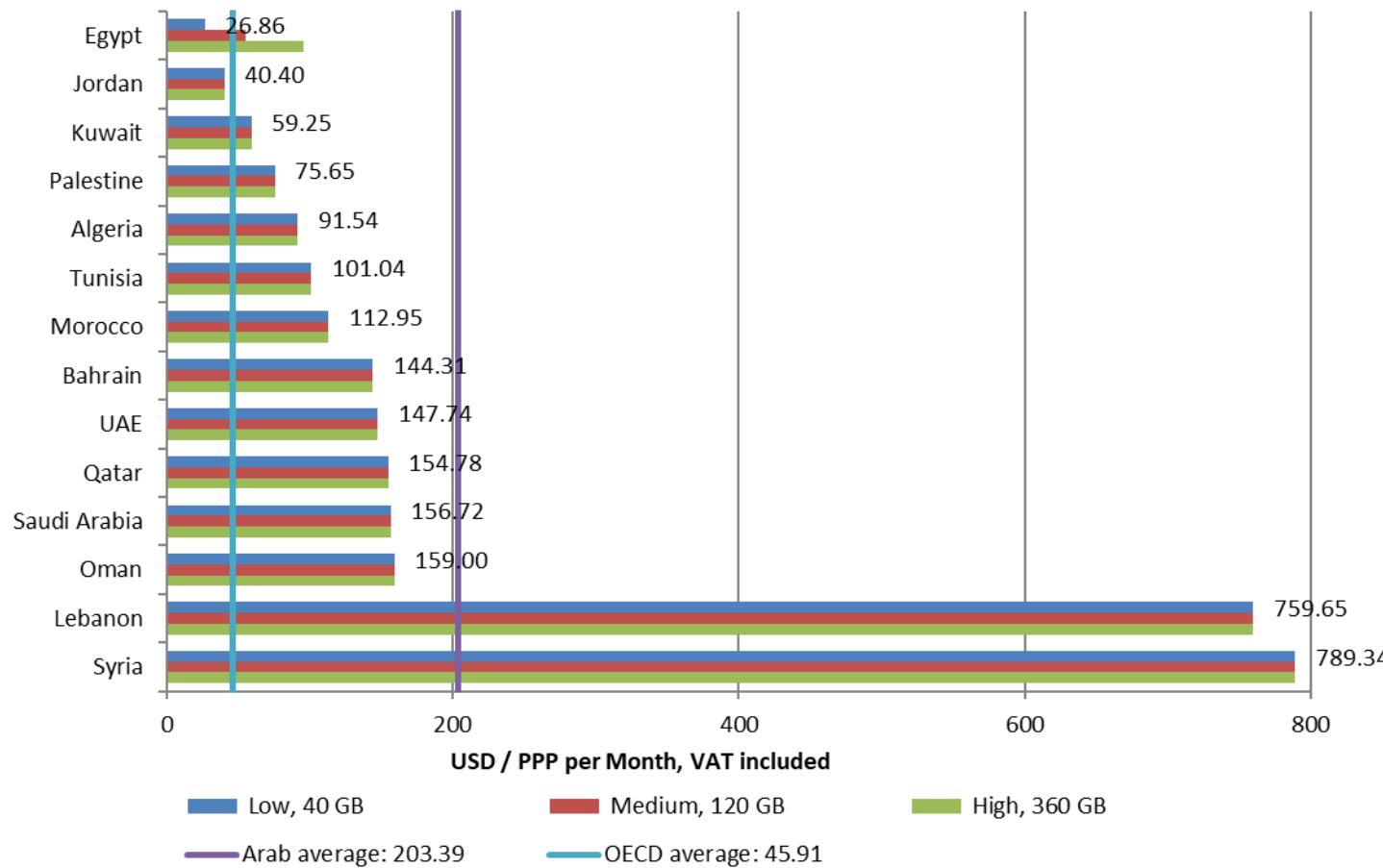


RESIDENTIAL FIXED BROADBAND HIGH SPEED OECD 2017 BASKET >= 100 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=100 Mb/s, low, medium and high usage

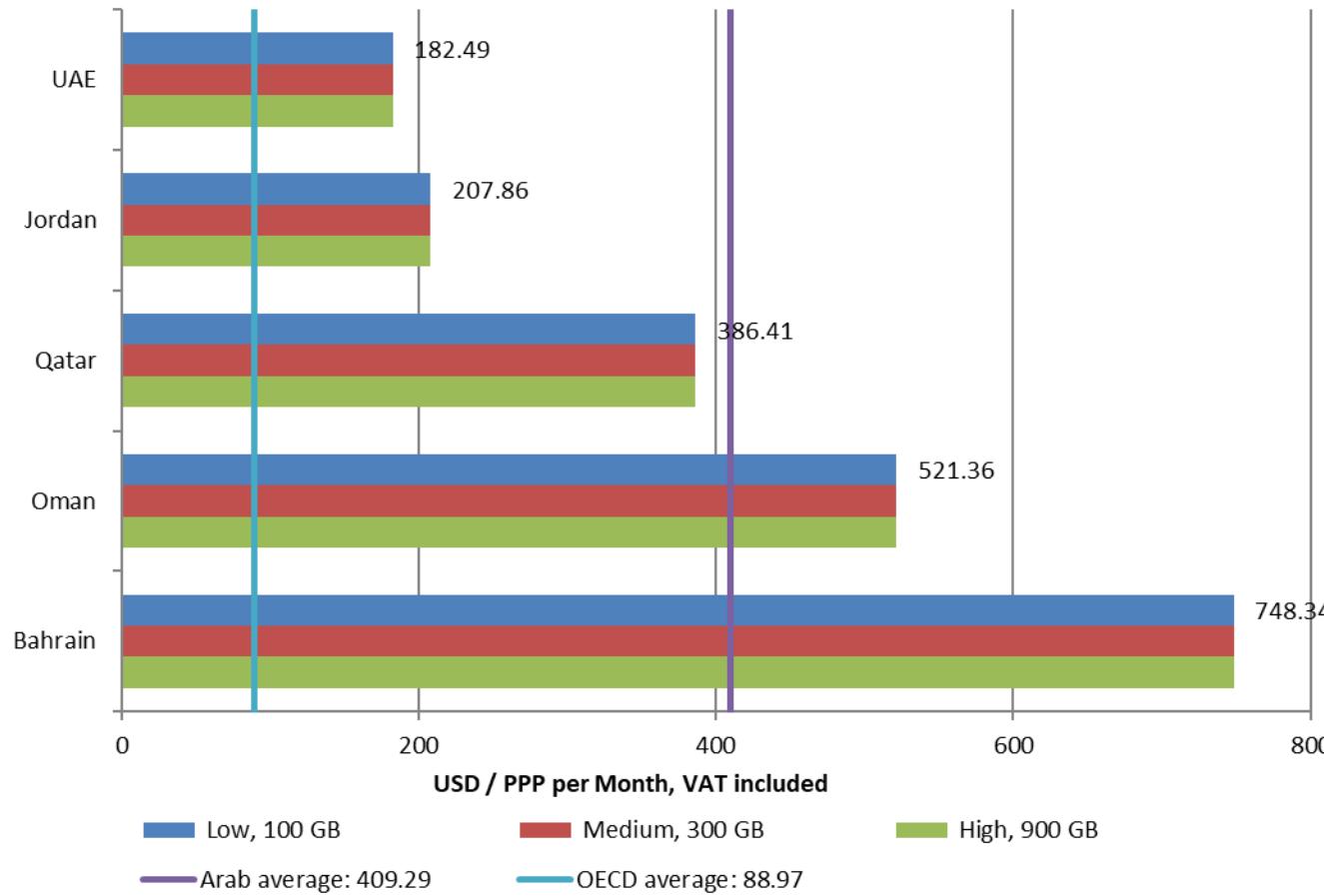


RESIDENTIAL FIXED BROADBAND VERY HIGH SPEED OECD 2017 BASKET >= 1000 MB/S – INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=1000 Mb/s, low, medium and high usage

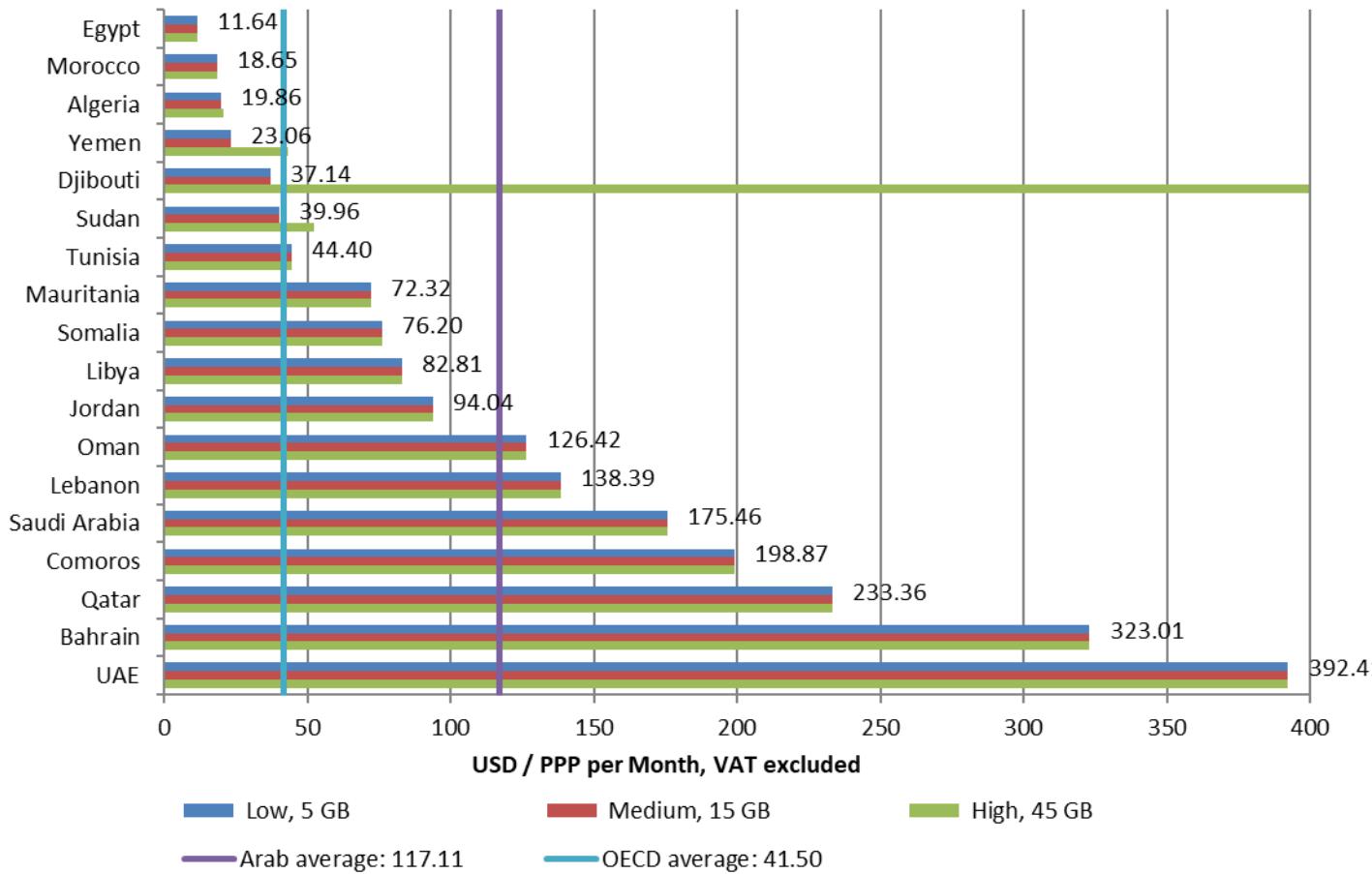


BUSINESS FIXED BROADBAND VERY LOW SPEED OECD 2017 BASKET >= 0.25 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >= 0.25 Mb/s, low, medium and high usage

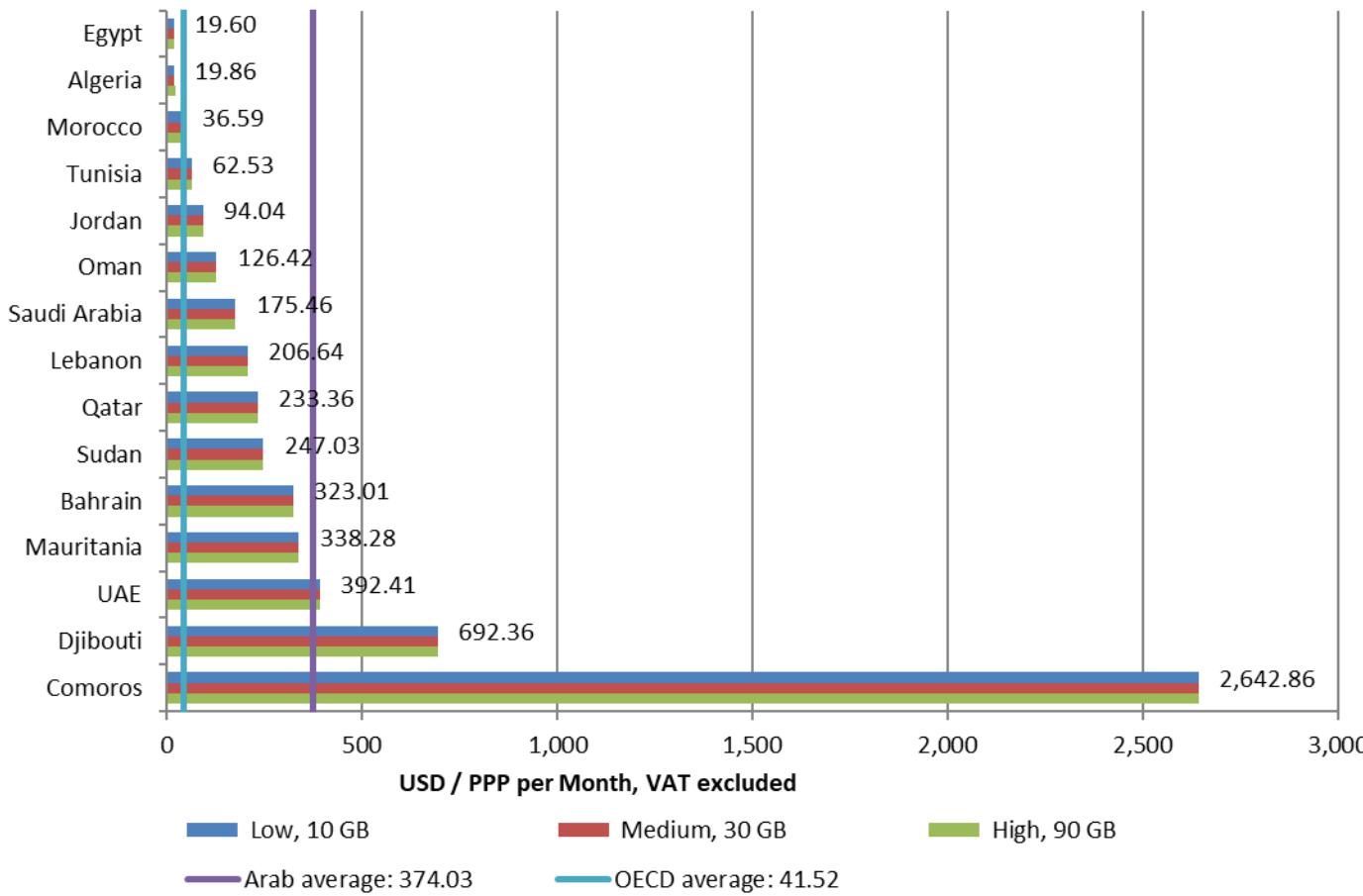


BUSINESS FIXED BROADBAND LOW SPEED OECD 2017 BASKET >= 10 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=10 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 10 GB
Medium usage: 30 GB
High usage: 90 GB.

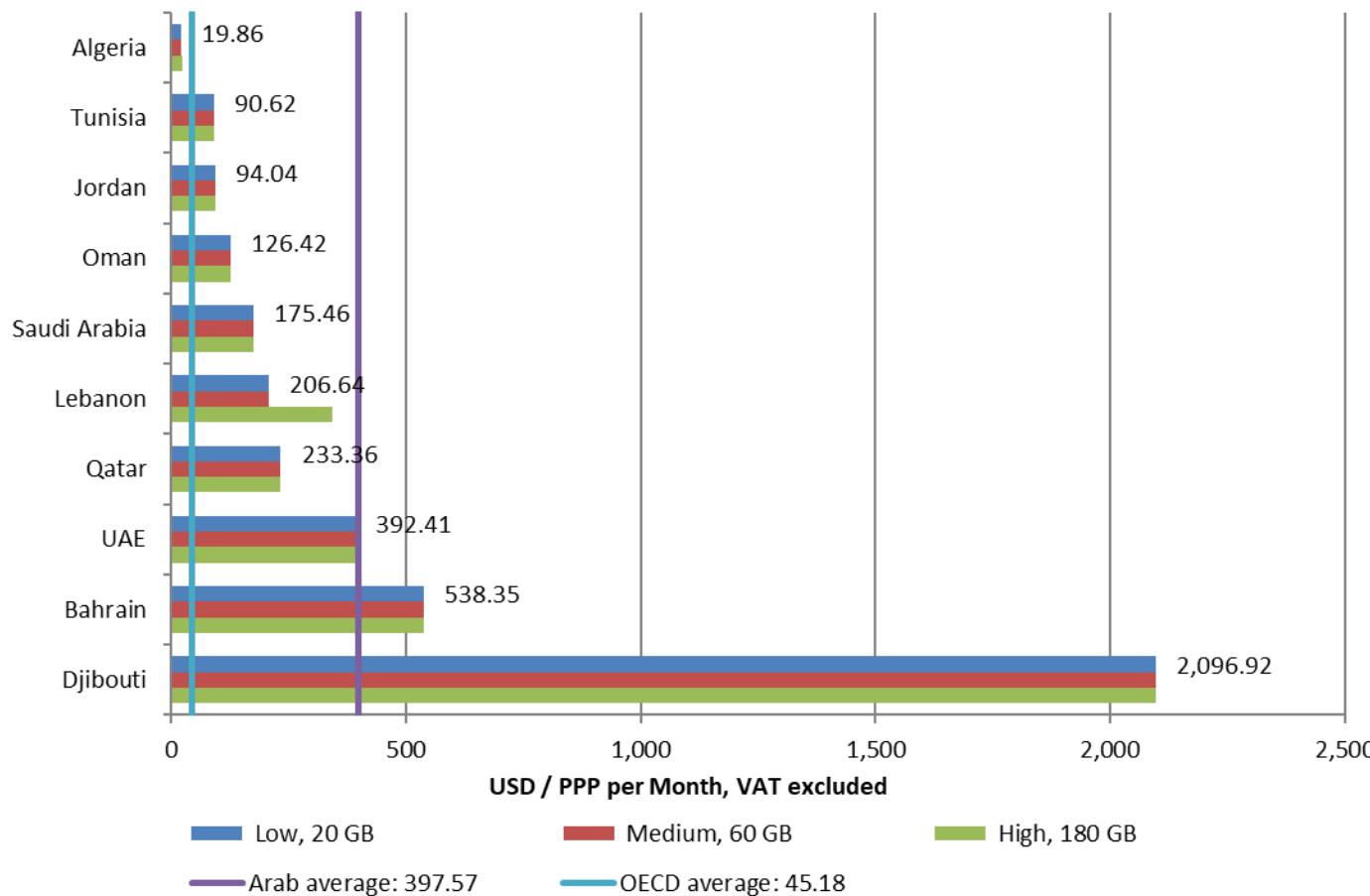
Average lines are based on the medium usage basket.

BUSINESS FIXED BROADBAND MEDIUM SPEED OECD 2017 BASKET >= 25 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=25 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 20 GB
Medium usage: 60 GB
High usage: 180 GB.

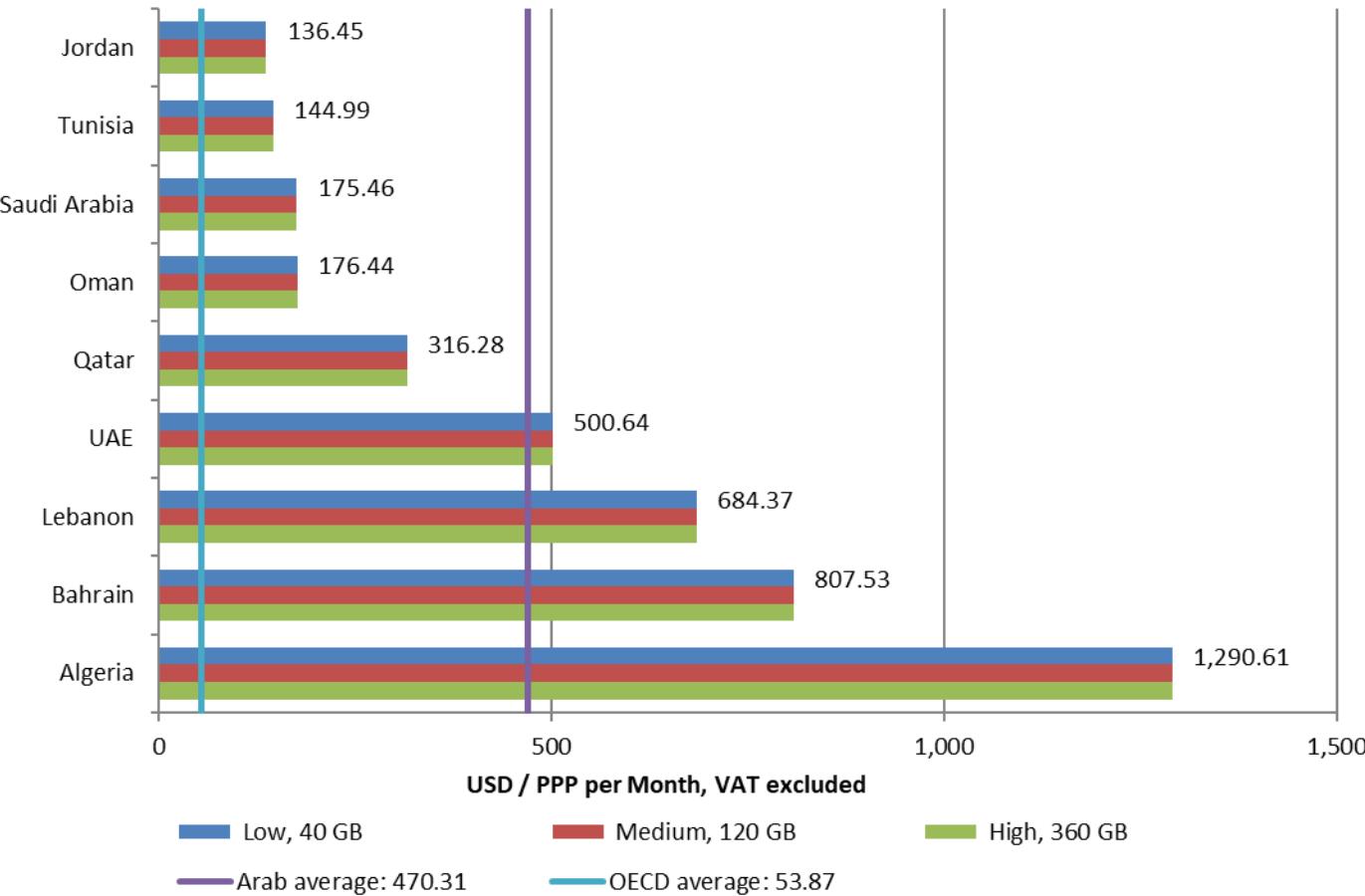
Average lines are based on the medium usage basket.

BUSINESS FIXED BROADBAND HIGH SPEED OECD 2017 BASKET >= 100 MB/S - INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=100 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 40 GB
Medium usage: 120 GB
High usage: 360 GB.

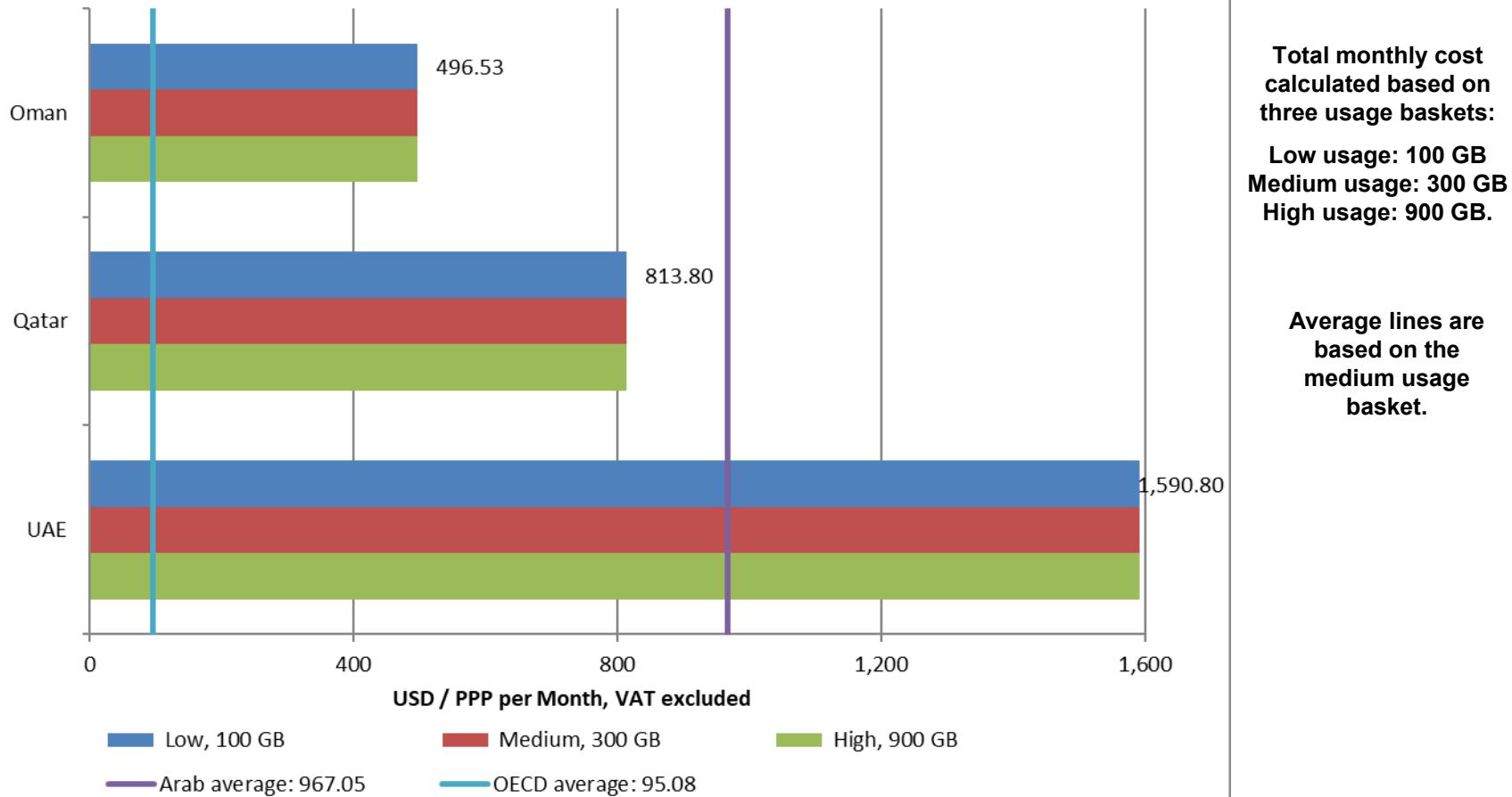
Average lines are based on the medium usage basket.

BUSINESS FIXED BROADBAND VERY HIGH SPEED OECD 2017 BASKET >= 1000 MB/S – INCUMBENT ONLY



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=1000 Mb/s, low, medium and high usage



OBSERVATIONS FROM FIXED BROADBAND BASKET RESULTS - INCUMBENT ONLY

- The tables below show the OECD and Arab average for each basket, based on the medium usage baskets (low and high usage may differ, but typically don't). These tables are based on the results for the incumbent providers only.

Residential	USD PPP/month inc VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	39	65
>= 10 Mb/s / 30 GB	39	133
>= 25 Mb/s / 60 GB	42	119
>= 100 Mb/s / 120 GB	46	203
>= 1000 Mb/s / 300 GB	89	409

Business	USD PPP/month excl VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	41	117
>= 10 Mb/s / 30 GB	42	374
>= 25 Mb/s / 60 GB	45	398
>= 100 Mb/s / 120 GB	54	470
>= 1000 Mb/s / 300 GB	95	967

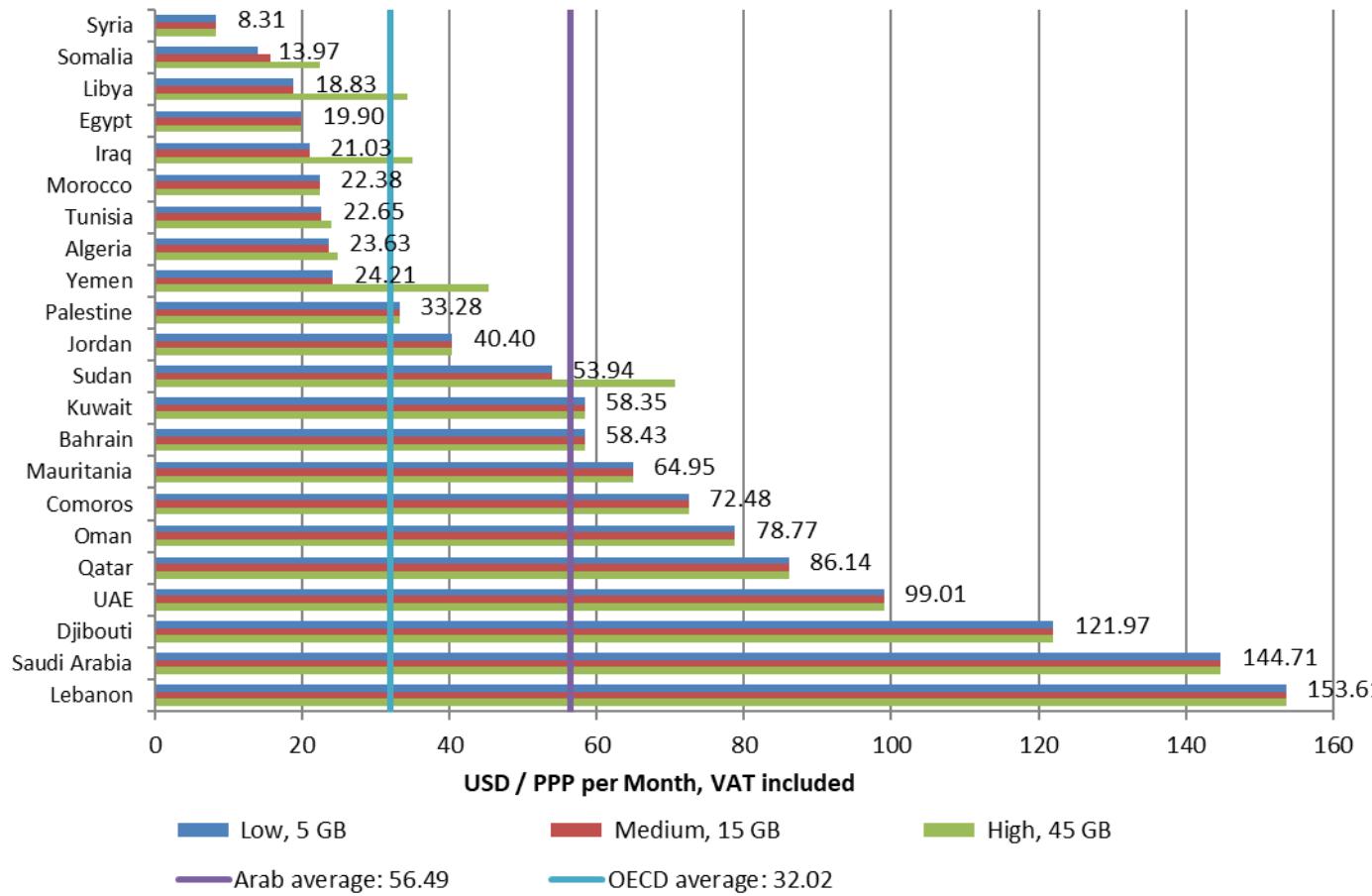
- The average Arab residential cost is still considerably higher than the OECD average or up to 4.6 times higher for the highest speed basket. For business services, the average is up to 9 times higher.
 - The residential figure continues to be skewed by particularly high costs in several countries, in particular, Mauritania, Sudan and Syria. For business services, the Arab average is heavily skewed by a number of countries, including Comoros and Djibouti.
- In eleven of the twenty-one countries usage-based tariffs are still prevalent, in some instances providers offer both usage based and flat rate tariffs. Usage-based pricing affects residential results for Iraq, Lebanon, Libya, Oman, Sudan and Yemen, while for business pricing, usage impacts results in Djibouti, Lebanon and Yemen. Usage based tariffs continue to be offered in many OECD countries, however, often it's limited to one provider within a country, and often for low usage tariffs.

RESIDENTIAL FIXED BROADBAND VERY LOW SPEED OECD 2017 BASKET >= 0.25 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=0.25 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 5 GB

Medium usage: 15 GB

High usage: 45 GB.

Average lines are based on the medium usage basket.

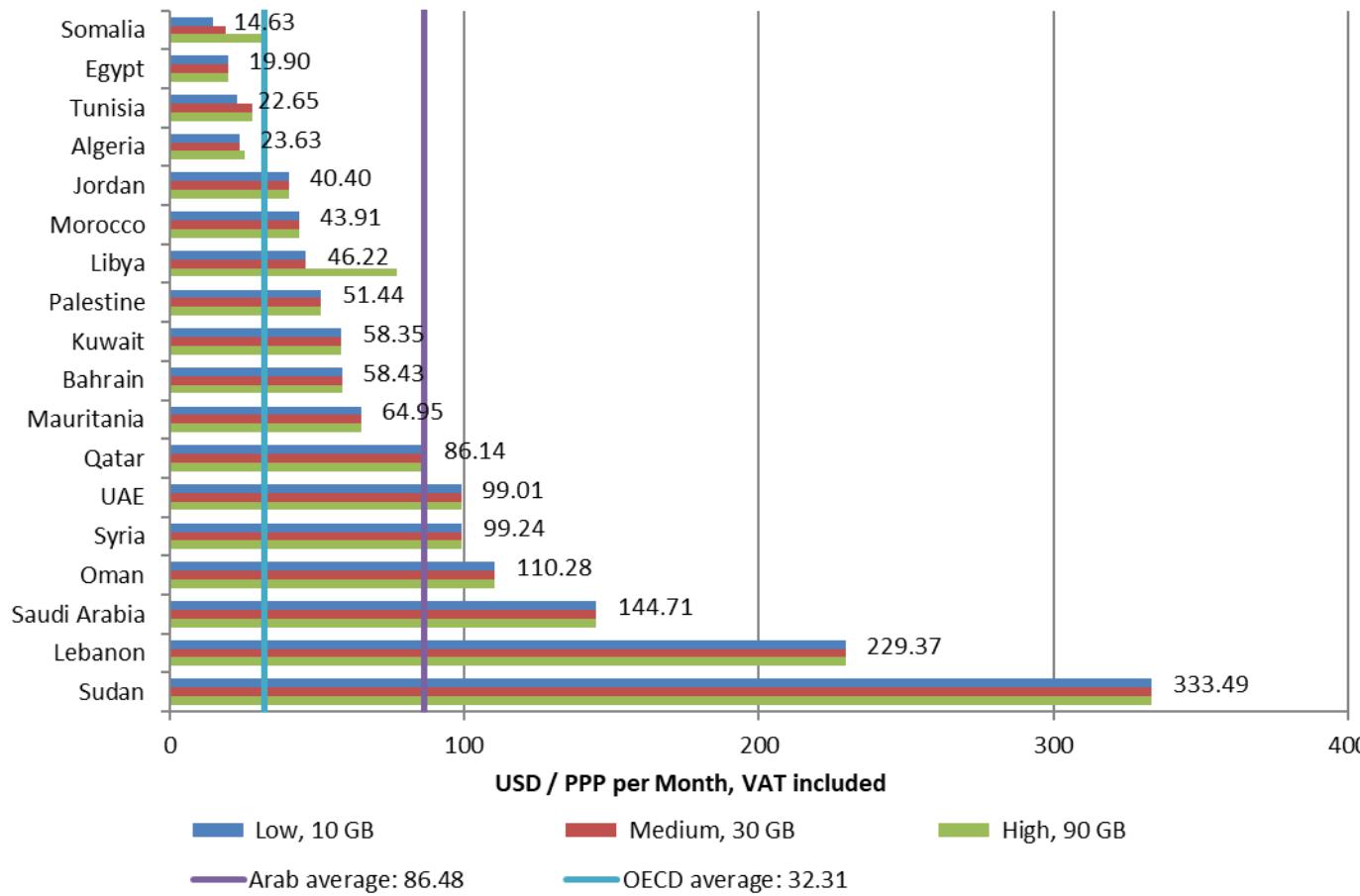
RESIDENTIAL FIXED BROADBAND LOW SPEED

OECD 2017 BASKET >= 10 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=10 Mb/s, low, medium and high usage



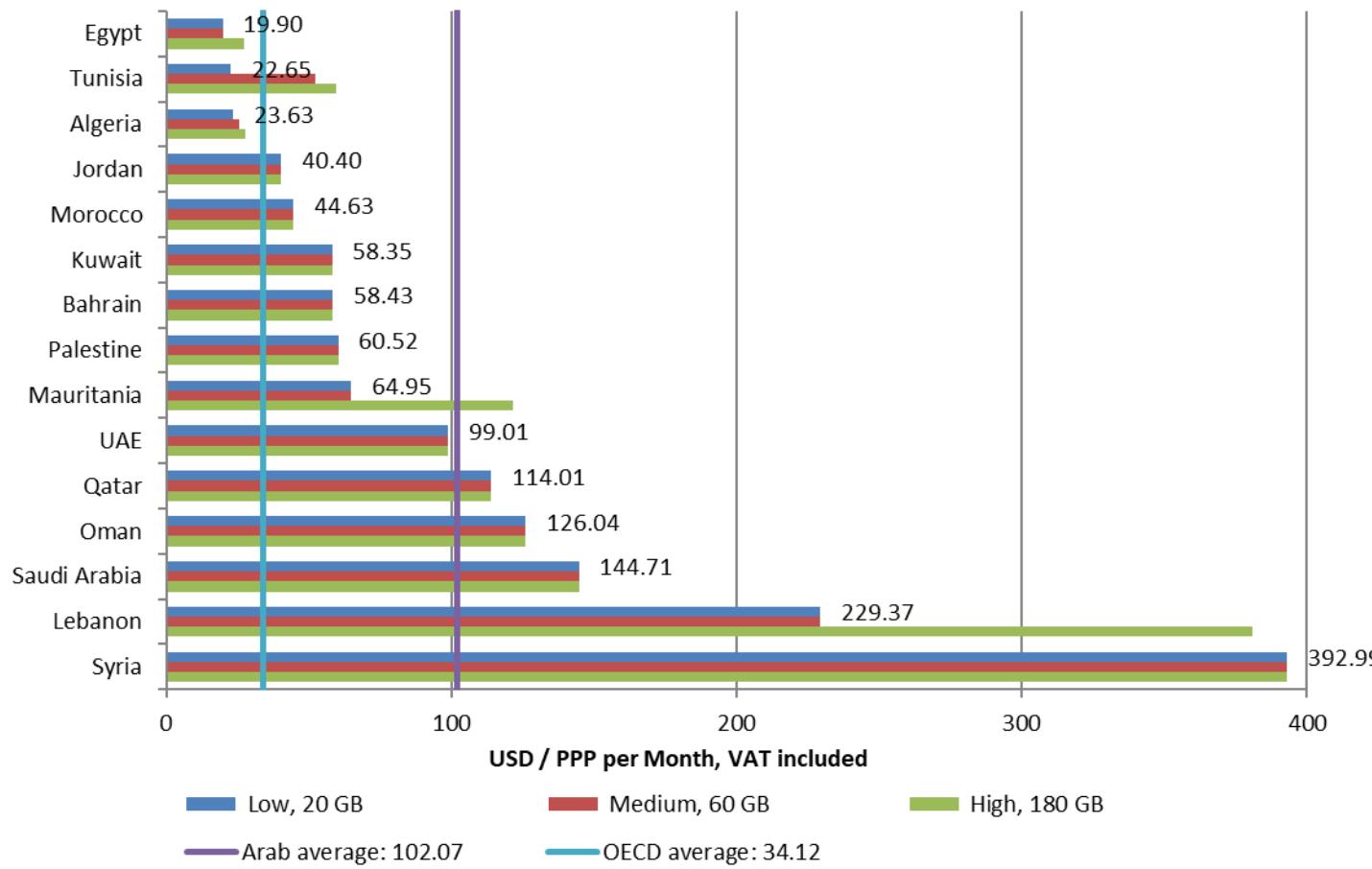
Total monthly cost calculated based on three usage baskets:

Low usage: 10 GB
 Medium usage: 30 GB
 High usage: 90 GB.

Average lines are based on the medium usage basket.

AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=25 Mb/s, low, medium and high usage

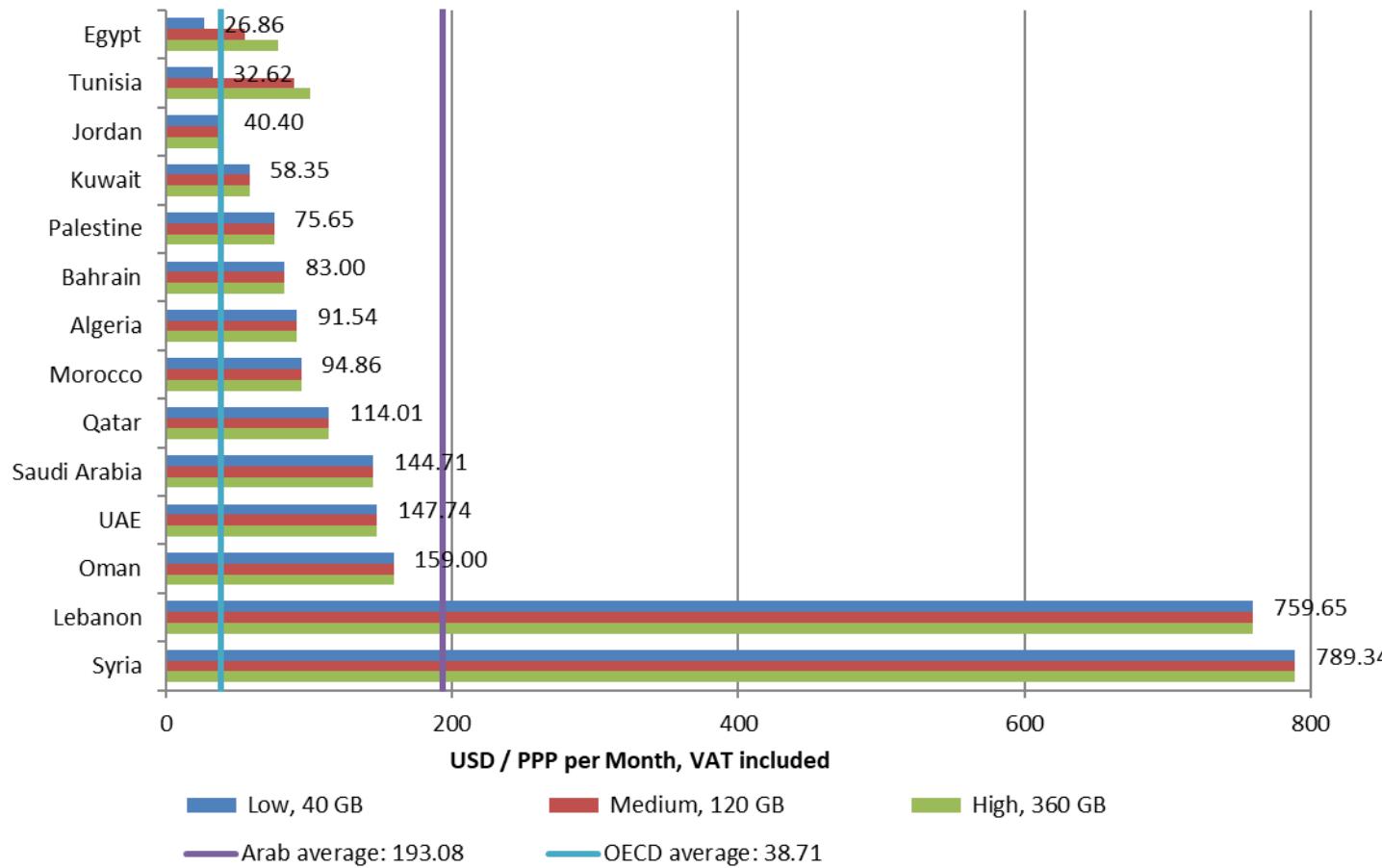


RESIDENTIAL FIXED BROADBAND HIGH SPEED OECD 2017 BASKET >= 100 MB/ (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=100 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 40 GB

Medium usage: 120 GB

High

usage: 360 GB.

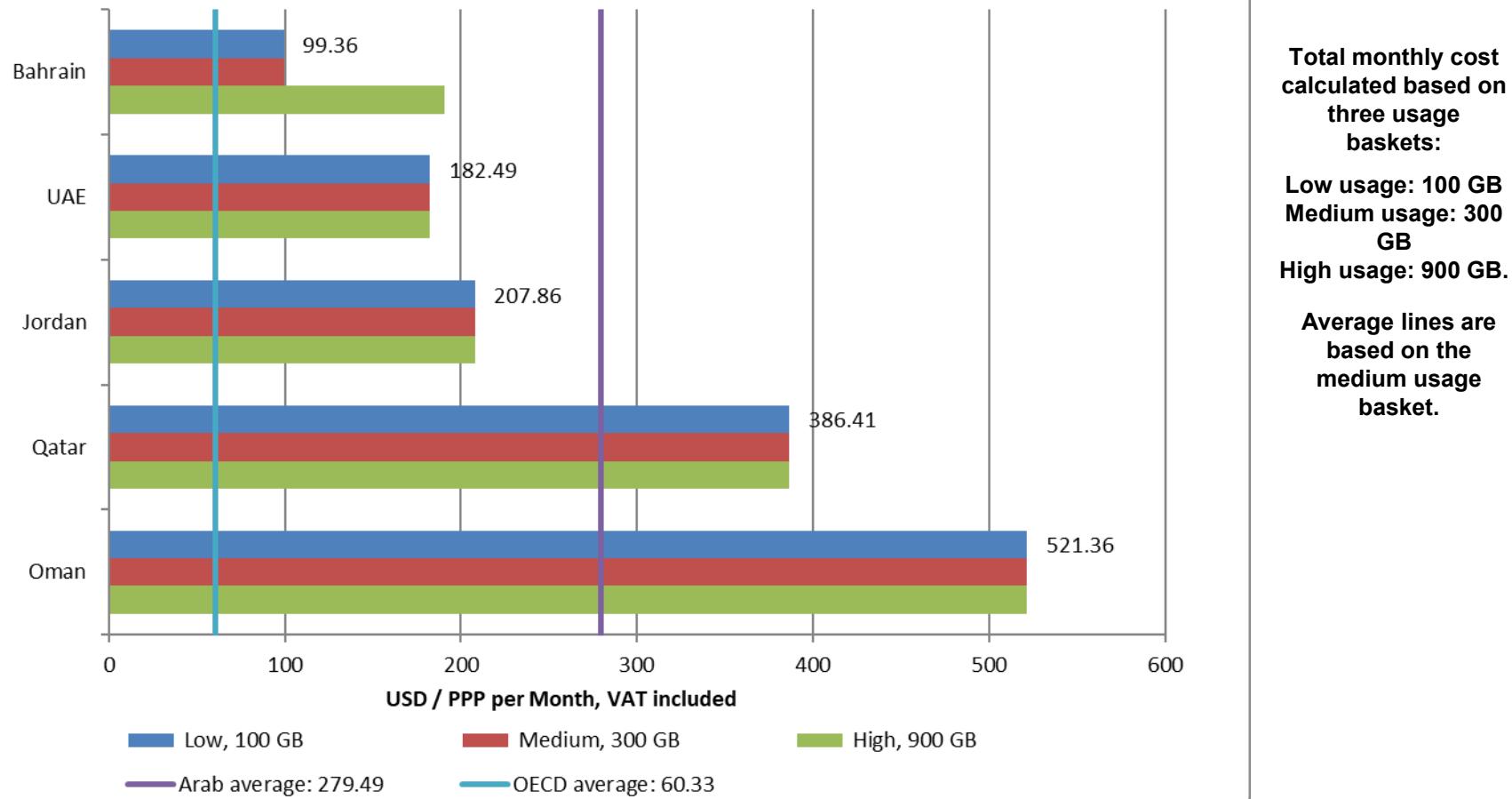
Average lines are based on the medium usage basket.

RESIDENTIAL FIXED BROADBAND VERY HIGH SPEED OECD 2017 BASKET >= 1000 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Residential Fixed Broadband >=1000 Mb/s, low, medium and high usage



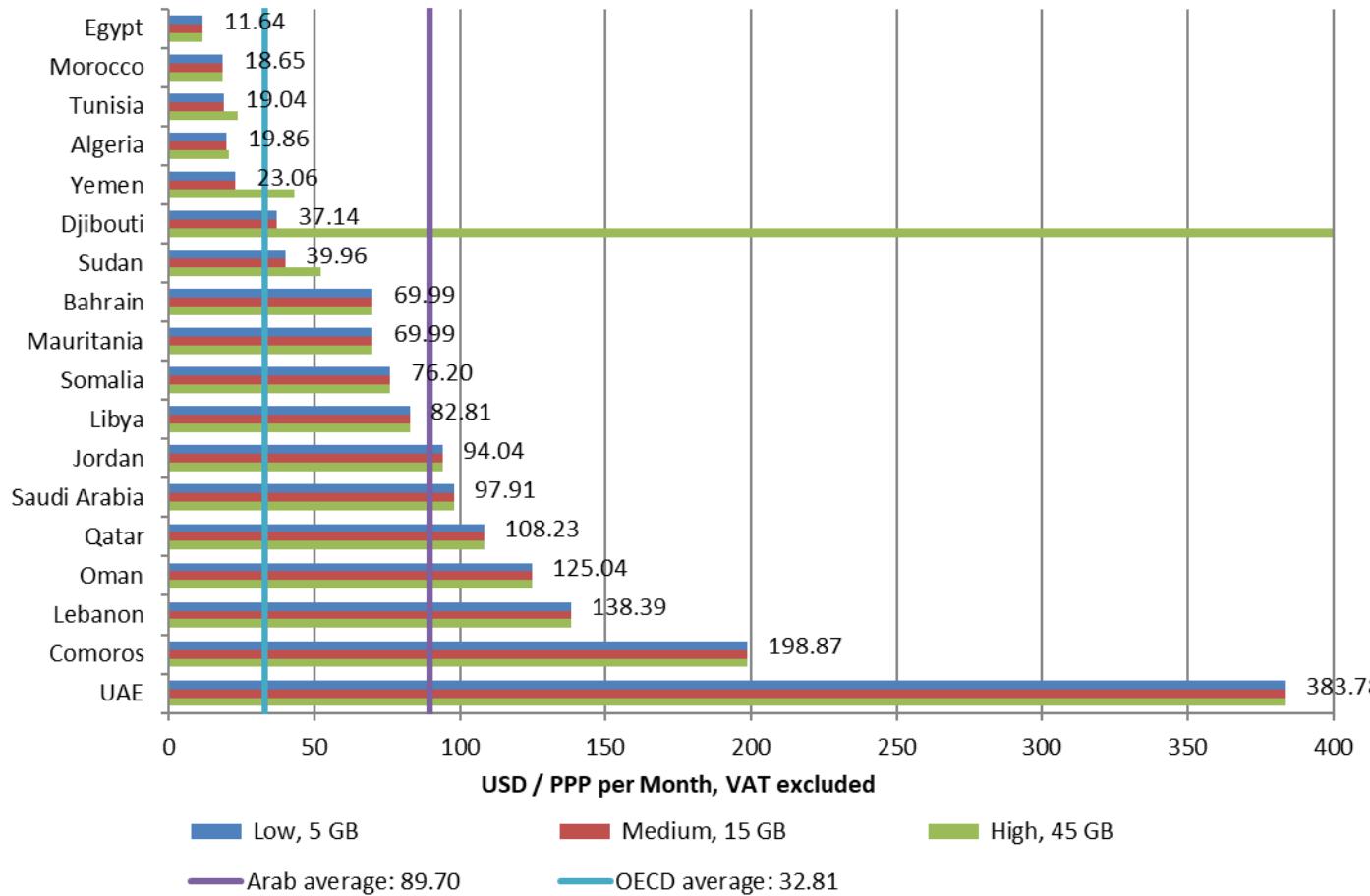
BUSINESS FIXED BROADBAND VERY LOW SPEED

OECD 2017 BASKET >= 0.25 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=0.25 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 5 GB
Medium usage: 15 GB
High usage: 45 GB.

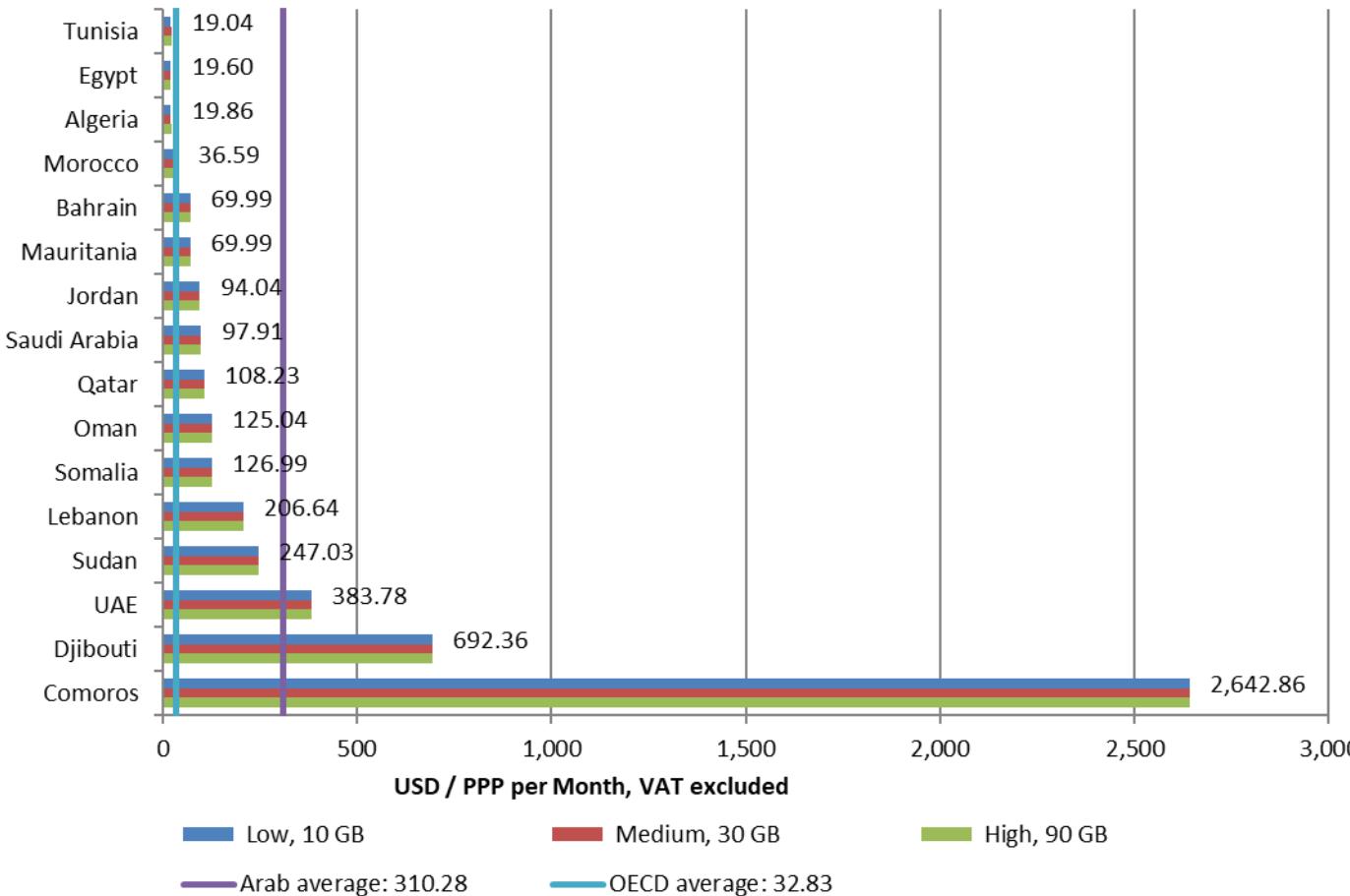
BUSINESS FIXED BROADBAND LOW SPEED

OECD 2017 BASKET >= 10 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=10 Mb/s, low, medium and high usage

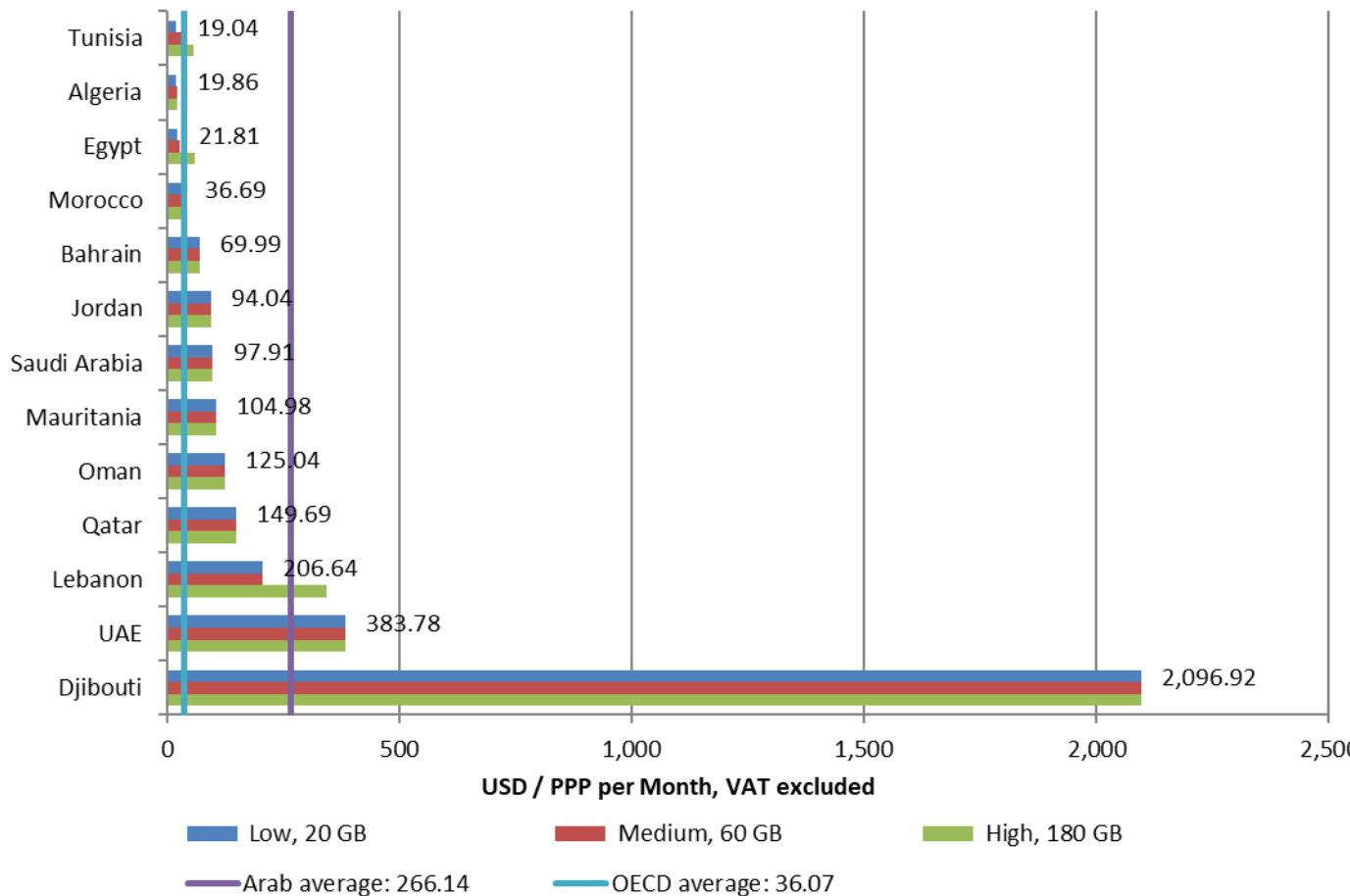


BUSINESS FIXED BROADBAND MEDIUM SPEED OECD 2017 BASKET >= 25 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=25 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 20 GB
Medium usage: 60 GB
High usage: 180 GB.

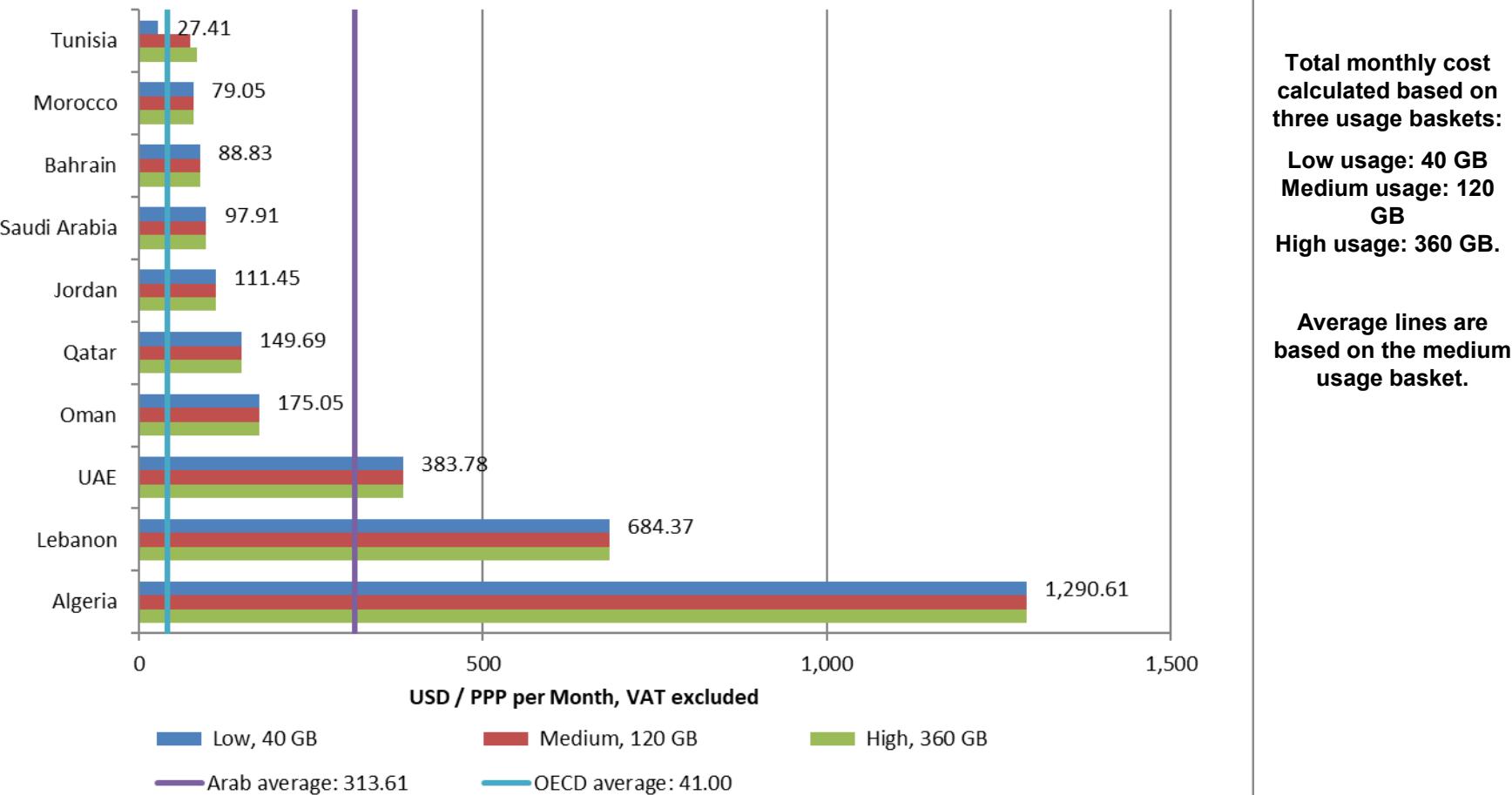
Average lines are based on the medium usage basket.

BUSINESS FIXED BROADBAND HIGH SPEED OECD 2017 BASKET >= 100 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=100 Mb/s, low, medium and high usage

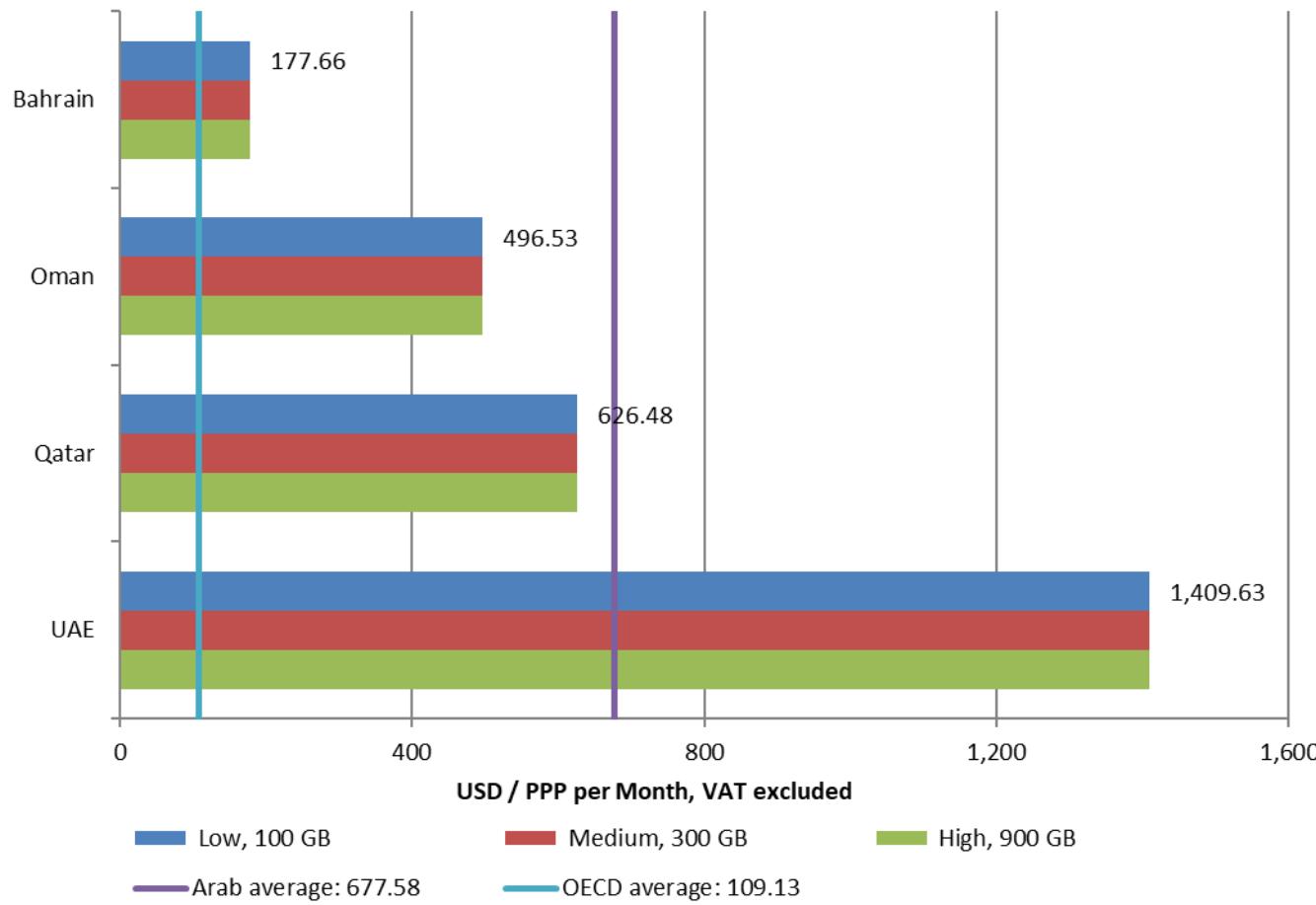


BUSINESS FIXED BROADBAND VERY HIGH SPEED OECD 2017 BASKET >= 1000 MB/S (UP TO 3 ISPS PER COUNTRY)



AREGNET Fixed Broadband Price Benchmarking 2022

OECD 2017: Business Fixed Broadband >=1000 Mb/s, low, medium and high usage



Total monthly cost calculated based on three usage baskets:

Low usage: 100 GB
Medium usage: 300 GB
High usage: 900 GB.

Average lines are based on the medium usage basket.

OBSERVATIONS FROM FIXED BROADBAND BASKET RESULTS (UP TO 3 ISPS PER COUNTRY)

- The tables below show the OECD and Arab average for each basket, based on the medium usage baskets (low and high usage may differ, but typically don't). These tables are based on the results for up to 3 ISPs per country.

Residential	USD PPP/month inc VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	32	56
>= 10 Mb/s / 30 GB	32	86
>= 25 Mb/s / 60 GB	34	102
>= 100 Mb/s / 120 GB	39	193
>= 1000 Mb/s / 300 GB	60	279

Business	USD PPP/month excl VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	33	90
>= 10 Mb/s / 30 GB	33	310
>= 25 Mb/s / 60 GB	36	266
>= 100 Mb/s / 120 GB	41	314
>= 1000 Mb/s / 300 GB	109	678

- The average Arab residential cost is still considerably higher than the OECD average or up to 5 times higher for the highest speed basket. For business services, the average is up to 9.5 times higher.
 - The residential figure continues to be skewed by particularly high costs in a number of countries, in particular, Mauritania, Sudan and Syria. For business services, the Arab average is heavily skewed by a number of countries, including Comoros and Djibouti.
- In eleven of the twenty-one countries usage-based tariffs are still prevalent, in some instances providers offer both usage based and flat rate tariffs. Usage-based pricing affects residential results for Iraq, Lebanon, Libya, Oman, Sudan and Yemen, while for business pricing, usage impacts results in Djibouti, Lebanon and Yemen. Usage based tariffs continue to be offered in many OECD countries, however, often it's limited to one provider within a country, and often for low usage tariffs.

Fixed broadband time series analysis and ranking tables 2018–2022

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=0.25 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 5 GB / >=0.25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria	37.80	37.80	37.80	43.71	23.63
Bahrain	53.84	56.53	56.53	99.36	79.17
Comoros	72.48	72.48	72.48	72.48	72.48
Djibouti	84.12	84.12	92.24	121.97	121.97
Egypt	6.98	15.36	16.76	16.76	23.31
Iraq		21.03	21.03	21.03	21.03
Jordan	69.31	70.63	70.63	82.12	40.40
Kuwait	18.37	18.37	16.75	52.41	59.25
Lebanon	66.71	66.71	66.71	66.71	153.61
Libya	24.61	18.83	18.83	18.83	18.83
Mauritania	83.89	83.89	83.89	83.89	83.89
Morocco	21.90	22.80	22.50	22.38	22.38
Oman	76.41	80.23	80.23	80.23	80.23
Palestine	43.88	43.88	33.28	33.28	33.28
Qatar	114.23	105.94	98.89	105.94	105.94
Saudi Arabia	51.89	56.83	128.68	115.81	156.72
Somalia					83.82
Sudan					53.94
Syria	3.84	5.15	8.31	8.31	8.31
Tunisia	24.10	18.58	18.58	21.90	24.04
UAE	36.82	36.82	36.82	36.82	136.74
Yemen	15.21	15.21	15.21	15.21	24.21
Arab average	47.71	46.56	49.81	55.96	64.87

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	9	10	11	10	6
Bahrain	12	12	12	17	14
Comoros	15	16	15	13	13
Djibouti	18	19	18	20	19
Egypt	2	3	4	3	5
Iraq			7	5	3
Jordan	14	15	14	15	10
Kuwait		4	3	11	12
Lebanon	13	14	13	12	21
Libya	7	6	6	4	2
Mauritania	17	18	17	16	17
Morocco	5	8	8	7	4
Oman	16	17	16	14	15
Palestine	10	11	9	8	9
Qatar	19	20	19	18	18
Saudi Arabia	11	13	20	19	22
Somalia					
Sudan					11
Syria	1	1	1	1	1
Tunisia	6	5	5	6	7
UAE	8	9	10	9	20
Yemen	3	2	2	2	8

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=0.25 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 15 GB / >=0.25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria	37.80	37.80	37.80	43.71	23.63
Bahrain	53.84	56.53	56.53	99.36	79.17
Comoros	72.48	72.48	72.48	72.48	72.48
Djibouti	84.12	84.12	92.24	121.97	121.97
Egypt	13.27	15.36	16.76	16.76	23.31
Iraq		21.03	21.03	21.03	21.03
Jordan	69.31	70.63	70.63	82.12	40.40
Kuwait	18.37	18.37	16.75	52.41	59.25
Lebanon	66.71	66.71	66.71	66.71	153.61
Libya	24.61	18.83	18.83	18.83	18.83
Mauritania	83.89	83.89	83.89	83.89	83.89
Morocco	21.90	22.80	22.50	22.38	22.38
Oman	76.41	80.23	80.23	80.23	80.23
Palestine	43.88	43.88	33.28	33.28	33.28
Qatar	114.23	105.94	98.89	105.94	105.94
Saudi Arabia	51.89	56.83	128.68	115.81	156.72
Somalia					83.82
Sudan					53.94
Syria	5.43	6.42	8.31	8.31	8.31
Tunisia	24.10	18.58	18.58	21.90	24.04
UAE	36.82	36.82	36.82	36.82	136.74
Yemen	65.66	65.66	65.66	65.66	24.21
Arab average	50.78	49.15	52.33	58.48	64.87

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	8	9	10	9	6
Bahrain	11	11	11	17	14
Comoros	15	16	15	13	13
Djibouti	18	19	18	20	19
Egypt	2	2	3	2	5
Iraq			6	4	3
Jordan	14	15	14	15	10
Kuwait		3	2	10	12
Lebanon	13	14	13	12	21
Libya	6	5	5	3	2
Mauritania	17	18	17	16	17
Morocco	4	7	7	6	4
Oman	16	17	16	14	15
Palestine	9	10	8	7	9
Qatar	19	20	19	18	18
Saudi Arabia	10	12	20	19	22
Somalia					
Sudan					11
Syria	1	1	1	1	1
Tunisia	5	4	4	5	7
UAE	7	8	9	8	20
Yemen	12	13	12	11	8

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=0.25 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 45 GB / >=0.25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria	37.80	37.80	37.80	43.71	24.81
Bahrain	53.84	56.53	56.53	99.36	79.17
Comoros	72.48	72.48	72.48	72.48	72.48
Djibouti	84.12	84.12	92.24	121.97	121.97
Egypt	13.27	15.36	16.76	16.76	23.31
Iraq		35.05	35.05	35.05	35.05
Jordan	69.31	70.63	70.63	82.12	40.40
Kuwait	18.37	18.37	16.75	52.41	59.25
Lebanon	81.86	81.86	66.71	81.86	153.61
Libya	120.90	39.05	39.05	34.24	34.24
Mauritania	83.89	83.89	83.89	83.89	83.89
Morocco	21.90	22.80	22.50	22.38	22.38
Oman	101.42	106.49	106.49	106.49	106.49
Palestine	43.88	43.88	33.28	33.28	33.28
Qatar	114.23	105.94	98.89	105.94	105.94
Saudi Arabia	117.49	128.68	128.68	115.81	156.72
Somalia					83.82
Sudan					70.57
Syria	5.43	6.42	8.31	8.31	8.31
Tunisia	24.10	18.58	18.58	21.90	24.04
UAE	36.82	36.82	36.82	36.82	136.74
Yemen					45.40
Arab average	61.17	56.04	54.81	61.83	69.18

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	7	8	9	9	5
Bahrain	9	11	11	15	14
Comoros	11	13	14	11	13
Djibouti	14	16	16	19	19
Egypt	2	2	3	2	3
Iraq			7	7	8
Jordan	10	12	13	13	9
Kuwait		3	2	10	11
Lebanon	12	14	12	12	21
Libya	18	9	10	6	7
Mauritania	13	15	15	14	16
Morocco	4	5	5	4	2
Oman	15	18	18	17	18
Palestine	8	10	6	5	6
Qatar	16	17	17	16	17
Saudi Arabia	17	19	19	18	22
Somalia					
Sudan					12
Syria	1	1	1	1	1
Tunisia	5	4	4	3	4
UAE	6	7	8	8	20
Yemen	-	-	-	-	10

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=10 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 10 GB / >=10 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria	186.66	186.66	118.12	43.71	23.63
Bahrain	53.84	56.53	56.53	99.36	79.17
Comoros					
Djibouti					
Egypt	22.35	20.95	16.76	16.76	23.31
Iraq					
Jordan	86.72	88.04	70.63	82.12	40.40
Kuwait	71.32	71.32	64.30	52.41	59.25
Lebanon	81.86	81.86	81.86	81.86	229.37
Libya					
Mauritania	392.41	392.41	392.41	392.41	392.41
Morocco	43.43	44.33	44.03	43.91	43.91
Oman	141.43	106.49	106.49	132.75	132.75
Palestine	56.74	56.74	56.74	51.44	51.44
Qatar	132.67	137.51	149.95	154.78	154.78
Saudi Arabia	117.49	128.68	128.68	115.81	156.72
Somalia					
Sudan					333.49
Syria	54.25	59.05	250.31	250.31	250.31
Tunisia	37.42	26.28	26.28	33.05	28.09
UAE	150.47	150.47	177.38	177.38	136.74
Yemen					
Arab average	108.60	107.15	116.03	115.20	133.49

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	10	3	2
Bahrain	4	4	4	9	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	9	9	7	8	4
Kuwait		7	6	6	7
Lebanon	8	8	8	7	13
Libya	-	-	-	-	-
Mauritania	15	15	15	15	16
Morocco	3	3	3	4	5
Oman	12	10	9	11	9
Palestine	6	5	5	5	6
Qatar	11	12	12	12	11
Saudi Arabia	10	11	11	10	12
Somalia					
Sudan					15
Syria	5	6	14	14	14
Tunisia	2	2	2	2	3
UAE	13	13	13	13	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=10 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 30 GB / >=10 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria	186.66	186.66	118.12	43.71	23.63
Bahrain	53.84	56.53	56.53	99.36	79.17
Comoros					
Djibouti					
Egypt	22.35	20.95	16.76	16.76	23.31
Iraq					
Jordan	86.72	88.04	70.63	82.12	40.40
Kuwait	71.32	71.32	64.30	52.41	59.25
Lebanon	81.86	81.86	81.86	81.86	229.37
Libya					
Mauritania	392.41	392.41	392.41	392.41	392.41
Morocco	43.43	44.33	44.03	43.91	43.91
Oman	141.43	106.49	106.49	132.75	132.75
Palestine	56.74	56.74	56.74	51.44	51.44
Qatar	132.67	137.51	149.95	154.78	154.78
Saudi Arabia	117.49	128.68	128.68	115.81	156.72
Somalia					
Sudan					333.49
Syria	54.25	59.05	250.31	250.31	250.31
Tunisia	37.42	26.28	26.28	33.05	28.09
UAE	150.47	150.47	177.38	177.38	136.74
Yemen					
Arab average	108.60	107.15	116.03	115.20	133.49

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	10	3	2
Bahrain	4	4	4	9	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	9	9	7	8	4
Kuwait		7	6	6	7
Lebanon	8	8	8	7	13
Libya	-	-	-	-	-
Mauritania	15	15	15	15	16
Morocco	3	3	3	4	5
Oman	12	10	9	11	9
Palestine	6	5	5	5	6
Qatar	11	12	12	12	11
Saudi Arabia	10	11	11	10	12
Somalia					
Sudan					15
Syria	5	6	14	14	14
Tunisia	2	2	2	2	3
UAE	13	13	13	13	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=10 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 90 GB / >=10 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria	186.66	186.66	118.12	43.71	25.60
Bahrain	53.84	56.53	56.53	99.36	79.17
Comoros					
Djibouti					
Egypt	22.35	20.95	16.76	16.76	23.31
Iraq					
Jordan	86.72	88.04	70.63	82.12	40.40
Kuwait	71.32	71.32	64.30	52.41	59.25
Lebanon	119.73	119.73	81.86	119.73	229.37
Libya					
Mauritania	392.41	392.41	392.41	392.41	392.41
Morocco	43.43	44.33	44.03	43.91	43.91
Oman	141.43	106.49	106.49	132.75	132.75
Palestine	56.74	56.74	56.74	51.44	51.44
Qatar	132.67	137.51	149.95	154.78	154.78
Saudi Arabia	117.49	128.68	128.68	115.81	156.72
Somalia					
Sudan					333.49
Syria	54.25	59.05	250.31	250.31	250.31
Tunisia	37.42	26.28	26.28	33.05	28.09
UAE	150.47	150.47	177.38	177.38	136.74
Yemen					
Arab average	111.13	109.68	116.03	117.73	133.61

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	10	3	2
Bahrain	4	4	4	8	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	8	8	7	7	4
Kuwait		7	6	6	7
Lebanon	10	10	8	10	13
Libya	-	-	-	-	-
Mauritania	15	15	15	15	16
Morocco	3	3	3	4	5
Oman	12	9	9	11	9
Palestine	6	5	5	5	6
Qatar	11	12	12	12	11
Saudi Arabia	9	11	11	9	12
Somalia					
Sudan					15
Syria	5	6	14	14	14
Tunisia	2	2	2	2	3
UAE	13	13	13	13	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=25 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 20 GB / >=25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria		348.51	240.85	91.54	23.63
Bahrain	108.42	169.58	121.97	99.36	79.17
Comoros					
Djibouti					
Egypt		22.35	16.76	16.76	23.31
Iraq					
Jordan	96.24	111.40	111.40	120.79	40.40
Kuwait	166.41	166.41	132.91	91.85	59.25
Lebanon	207.62	207.62	207.62	207.62	229.37
Libya					
Mauritania					
Morocco	108.23	109.71	109.72	109.72	112.95
Oman	176.44	185.26	159.00	159.00	132.75
Palestine	69.60	69.60	77.92	60.52	60.52
Qatar	174.13	137.51	149.95	154.78	154.78
Saudi Arabia	117.49	128.68	128.68	115.81	156.72
Somalia					
Sudan					
Syria			392.99	392.99	392.99
Tunisia	86.59	63.84	64.77	53.90	59.72
UAE	160.84	160.84	177.38	177.38	136.74
Yemen					
Arab average	133.82	144.72	149.42	132.29	118.74

Below Arab average
Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	13	13	4	2
Bahrain	5	10	6	6	7
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	1	1	1	1
Iraq		-	-	-	-
Jordan	3	5	5	9	3
Kuwait		9	8	5	4
Lebanon	11	12	12	13	13
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	4	4	4	7	8
Oman	10	11	10	11	9
Palestine	1	3	3	3	6
Qatar	9	7	9	10	11
Saudi Arabia	6	6	7	8	12
Somalia					
Sudan					-
Syria	-	-	14	14	14
Tunisia	2	2	2	2	5
UAE	7	8	11	12	10
Yemen	-	-	-	-	-

Least expensive
Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=25 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 60 GB / >=25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria		348.51	240.85	91.54	25.60
Bahrain	108.42	169.58	121.97	99.36	79.17
Comoros					
Djibouti					
Egypt		27.94	16.76	16.76	23.31
Iraq					
Jordan	96.24	111.40	111.40	120.79	40.40
Kuwait	166.41	166.41	132.91	91.85	59.25
Lebanon	207.62	207.62	207.62	207.62	229.37
Libya					
Mauritania					
Morocco	108.23	109.71	109.72	109.72	112.95
Oman	176.44	185.26	159.00	159.00	132.75
Palestine	69.60	69.60	77.92	60.52	60.52
Qatar	174.13	137.51	149.95	154.78	154.78
Saudi Arabia	117.49	128.68	128.68	115.81	156.72
Somalia					
Sudan					
Syria			392.99	392.99	392.99
Tunisia	86.59	63.84	64.77	53.90	59.72
UAE	160.84	160.84	177.38	177.38	136.74
Yemen					
Arab average	133.82	145.15	149.42	132.29	118.88

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	13	13	4	2
Bahrain	5	10	6	6	7
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	1	1	1	1
Iraq		-	-	-	-
Jordan	3	5	5	9	3
Kuwait		9	8	5	4
Lebanon	11	12	12	13	13
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	4	4	4	7	8
Oman	10	11	10	11	9
Palestine	1	3	3	3	6
Qatar	9	7	9	10	11
Saudi Arabia	6	6	7	8	12
Somalia					
Sudan					-
Syria	-	-	14	14	14
Tunisia	2	2	2	2	5
UAE	7	8	11	12	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=25 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 180 GB / >=25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria		348.51	240.85	91.54	27.80
Bahrain	135.34	169.58	121.97	99.36	79.17
Comoros					
Djibouti					
Egypt		41.90	25.14	25.14	32.86
Iraq					
Jordan	96.24	111.40	111.40	120.79	40.40
Kuwait	166.41	166.41	132.91	91.85	59.25
Lebanon	207.62	207.62	207.62	207.62	380.88
Libya					
Mauritania					
Morocco	108.23	109.71	109.72	109.72	112.95
Oman	176.44	185.26	159.00	159.00	132.75
Palestine	69.60	69.60	77.92	60.52	60.52
Qatar	174.13	137.51	149.95	154.78	154.78
Saudi Arabia	117.49	128.68	128.68	147.98	156.72
Somalia					
Sudan					
Syria			392.99	392.99	392.99
Tunisia	86.59	63.84	64.77	53.90	59.72
UAE	160.84	160.84	177.38	177.38	136.74
Yemen					
Arab average	136.27	146.22	150.02	135.18	130.54

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	13	13	4	1
Bahrain	6	10	6	6	7
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	1	1	1	2
Iraq			-	-	-
Jordan	3	5	5	8	3
Kuwait		9	8	5	4
Lebanon	11	12	12	13	13
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	4	4	4	7	8
Oman	10	11	10	11	9
Palestine	1	3	3	3	6
Qatar	9	7	9	10	11
Saudi Arabia	5	6	7	9	12
Somalia					
Sudan					-
Syria	-	-	14	14	14
Tunisia	2	2	2	2	5
UAE	7	8	11	12	10
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=100 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 40 GB / >=100 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria		584.79	240.85	169.64	91.54
Bahrain	376.85	423.95	235.02	138.92	144.31
Comoros					
Djibouti					
Egypt		41.90	44.70	44.70	26.86
Iraq					
Jordan	136.07	135.11	111.40	120.79	40.40
Kuwait			203.15	778.03	59.25
Lebanon					759.65
Libya					
Mauritania					
Morocco	108.23	109.71	109.72	109.72	112.95
Oman	401.50	421.58	185.26	159.00	159.00
Palestine	117.25	117.25	96.83	75.65	75.65
Qatar	236.32	178.97	178.97	154.78	154.78
Saudi Arabia	234.98	198.27	160.85	184.97	156.72
Somalia					
Sudan					
Syria			789.34	789.34	789.34
Tunisia	190.80	109.15	110.08	97.69	101.04
UAE	496.34	194.94	192.21	192.21	147.74
Yemen					
Arab average	255.37	228.69	204.49	231.96	201.37

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	11	12	9	5
Bahrain	7	10	11	6	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	1	1	1	1
Iraq			-	-	-
Jordan	3	5	5	5	2
Kuwait		-	10	12	3
Lebanon	-	-	-	-	13
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco		1	3	3	7
Oman	8	9	8	8	12
Palestine	2	4	2	2	4
Qatar	6	6	7	7	10
Saudi Arabia	5	8	6	10	11
Somalia					
Sudan					-
Syria	-	-	13	13	14
Tunisia	4	2	4	3	6
UAE	9	7	9	11	9
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=100 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 120 GB / >=100 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria		584.79	240.85	169.64	91.54
Bahrain	376.85	423.95	235.02	138.92	144.31
Comoros					
Djibouti					
Egypt		55.87	44.70	44.70	55.16
Iraq					
Jordan	136.07	135.11	111.40	120.79	40.40
Kuwait			203.15	778.03	59.25
Lebanon					759.65
Libya					
Mauritania					
Morocco	108.23	109.71	109.72	109.72	112.95
Oman	401.50	421.58	185.26	159.00	159.00
Palestine	117.25	117.25	96.83	75.65	75.65
Qatar	236.32	178.97	178.97	154.78	154.78
Saudi Arabia	234.98	198.27	160.85	184.97	156.72
Somalia					
Sudan					
Syria			789.34	789.34	789.34
Tunisia	190.80	109.15	110.08	97.69	101.04
UAE	496.34	194.94	192.21	192.21	147.74
Yemen					
Arab average	255.37	229.96	204.49	231.96	203.39

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	11	12	9	5
Bahrain	7	10	11	6	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	1	1	1	2
Iraq		-	-	-	-
Jordan	3	5	5	5	1
Kuwait		-	10	12	3
Lebanon	-	-	-	-	13
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	3	3	4	7
Oman	8	9	8	8	12
Palestine	2	4	2	2	4
Qatar	6	6	7	7	10
Saudi Arabia	5	8	6	10	11
Somalia					
Sudan					-
Syria	-	-	13	13	14
Tunisia	4	2	4	3	6
UAE	9	7	9	11	9
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=100 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 360 GB / >=100 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria		584.79	240.85	169.64	91.54
Bahrain	376.85	423.95	235.02	138.92	144.31
Comoros					
Djibouti					
Egypt		97.77	80.31	80.31	95.76
Iraq					
Jordan	136.07	135.11	111.40	120.79	40.40
Kuwait			203.15	778.03	59.25
Lebanon					759.65
Libya					
Mauritania					
Morocco	108.23	109.71	109.72	109.72	112.95
Oman	401.50	421.58	185.26	159.00	159.00
Palestine	117.25	117.25	96.83	75.65	75.65
Qatar	236.32	178.97	178.97	154.78	154.78
Saudi Arabia	234.98	198.27	160.85	184.97	156.72
Somalia					
Sudan					
Syria			789.34	789.34	789.34
Tunisia	190.80	109.15	110.08	97.69	101.04
UAE	496.34	194.94	192.21	192.21	147.74
Yemen					
Arab average	255.37	233.77	207.23	234.70	206.30

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	11	12	9	4
Bahrain	7	10	11	6	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	1	1	2	5
Iraq			-	-	-
Jordan	3	5	5	5	1
Kuwait		-	10	12	2
Lebanon	-	-	-	-	13
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	3	3	4	7
Oman	8	9	8	8	12
Palestine	2	4	2	1	3
Qatar	6	6	7	7	10
Saudi Arabia	5	8	6	10	11
Somalia					
Sudan					-
Syria	-	-	13	13	14
Tunisia	4	2	4	3	6
UAE	9	7	9	11	9
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=1000 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 100 GB / >=1000 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria					
Bahrain				715.50	748.34
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan		223.17	236.69	201.59	207.86
Kuwait					
Lebanon					
Libya					
Mauritania					
Morocco					
Oman			526.61	159.00	521.36
Palestine					
Qatar	630.19	635.03	635.03	397.32	386.41
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE	2,473.25	1,410.93	1,408.20	1,452.66	182.49
Yemen					
Arab average	1551.72	756.37	701.63	585.22	409.29

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	-	-	-	4	5
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	-		1	1	2
Kuwait		-	-	-	-
Lebanon	-	-	-	-	-
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	-	-		2	1
Palestine	-	-	-	-	-
Qatar		1	2	3	3
Saudi Arabia	-	-	-	-	-
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE		2	3	4	5
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=1000 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 300 GB / >=1000 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria					
Bahrain				715.50	748.34
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan		223.17	236.69	201.59	207.86
Kuwait					
Lebanon					
Libya					
Mauritania					
Morocco					
Oman			526.61	159.00	521.36
Palestine					
Qatar	630.19	635.03	635.03	397.32	386.41
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE	2,473.25	1,410.93	1,408.20	1,452.66	182.49
Yemen					
Arab average	1551.72	756.37	701.63	585.22	409.29

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	-	-	-	4	5
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	-		1	1	2
Kuwait		-	-	-	-
Lebanon	-	-	-	-	-
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	-	-		2	1
Palestine	-	-	-	-	-
Qatar		1	2	3	3
Saudi Arabia	-	-	-	-	-
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE		2	3	4	5
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING RESIDENTIAL >=1000 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 900 GB / >=1000 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT included, Residential results

	2018	2019	2020	2021	2022
Algeria					
Bahrain				715.50	748.34
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan		223.17	236.69	201.59	207.86
Kuwait					
Lebanon					
Libya					
Mauritania					
Morocco					
Oman			526.61	211.52	521.36
Palestine					
Qatar	630.19	635.03	635.03	397.32	386.41
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE	2,473.25	1,410.93	1,408.20	1,452.66	182.49
Yemen					
Arab average	1551.72	756.37	701.63	595.72	409.29

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	-	-	-	4	5
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	-		1	1	1
Kuwait		-	-	-	-
Lebanon	-	-	-	-	-
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	-	-		2	2
Palestine	-	-	-	-	-
Qatar		1	2	3	3
Saudi Arabia	-	-	-	-	-
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE		2	3	4	5
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=0.25 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 5 GB / >=0.25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria	198.55	198.55	198.55	198.55	19.86
Bahrain	80.75	77.08	77.08	323.01	323.01
Comoros	198.87	198.87	198.87	198.87	198.87
Djibouti	371.64	371.64	408.53	37.14	37.14
Egypt	6.13	11.64	11.64	11.64	11.64
Iraq					
Jordan	87.73	83.59	83.59	94.04	94.04
Kuwait					
Lebanon	60.10	60.10	60.10	60.10	138.39
Libya	24.61	82.81	82.81	82.81	82.81
Mauritania	72.32	72.32	72.32	72.32	72.32
Morocco	18.25	19.00	18.75	18.65	18.65
Oman	226.45	226.45	226.45	151.43	126.42
Palestine	81.52	81.52	81.52		
Qatar	293.25	293.25	293.25	233.36	233.36
Saudi Arabia	114.91	104.92	104.92	175.46	175.46
Somalia					76.20
Sudan					39.96
Syria					
Tunisia	71.59	63.43	63.43	44.40	44.40
UAE	370.97	370.97	392.41	392.41	392.41
Yemen	45.76	45.76	45.76	45.76	23.06
Arab average	136.67	138.94	142.35	133.75	117.11

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	12	12	12	12	3
Bahrain	8	7	7	15	17
Comoros	13	13	13	13	15
Djibouti	17	17	17	3	5
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	10	10	10	9	11
Kuwait		-	-	-	-
Lebanon	5	4	4	6	13
Libya	3	9	9	8	10
Mauritania	7	6	6	7	8
Morocco	2	2	2	2	2
Oman	14	14	14	10	12
Palestine	9	8	8	-	-
Qatar	15	15	15	14	16
Saudi Arabia	11	11	11	11	14
Somalia					
Sudan					6
Syria	-	-	-	-	-
Tunisia	6	5	5	4	7
UAE	16	16	16	16	18
Yemen	4	3	3	5	4

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=0.25 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 15 GB / >=0.25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria	198.55	198.55	198.55	198.55	19.86
Bahrain	80.75	77.08	77.08	323.01	323.01
Comoros	198.87	198.87	198.87	198.87	198.87
Djibouti	371.64	371.64	408.53	37.14	37.14
Egypt	11.64	11.64	11.64	11.64	11.64
Iraq					
Jordan	87.73	83.59	83.59	94.04	94.04
Kuwait					
Lebanon	60.10	60.10	60.10	60.10	138.39
Libya	24.61	82.81	82.81	82.81	82.81
Mauritania	72.32	72.32	72.32	72.32	72.32
Morocco	18.25	19.00	18.75	18.65	18.65
Oman	226.45	226.45	226.45	151.43	126.42
Palestine	81.52	81.52	81.52		
Qatar	293.25	293.25	293.25	233.36	233.36
Saudi Arabia	114.91	104.92	104.92	175.46	175.46
Somalia					76.20
Sudan					39.96
Syria					
Tunisia	71.59	63.43	63.43	44.40	44.40
UAE	370.97	370.97	392.41	392.41	392.41
Yemen	63.04	63.04	63.04	63.04	23.06
Arab average	138.01	139.95	143.37	134.83	117.11

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	12	12	12	12	3
Bahrain	8	7	7	15	17
Comoros	13	13	13	13	15
Djibouti	17	17	17	3	5
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	10	10	10	9	11
Kuwait		-	-	-	-
Lebanon	4	3	3	5	13
Libya	3	9	9	8	10
Mauritania	7	6	6	7	8
Morocco	2	2	2	2	2
Oman	14	14	14	10	12
Palestine	9	8	8	-	-
Qatar	15	15	15	14	16
Saudi Arabia	11	11	11	11	14
Somalia					
Sudan					6
Syria	-	-	-	-	-
Tunisia	6	5	5	4	7
UAE	16	16	16	16	18
Yemen	5	4	4	6	4

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=0.25 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 45 GB / >=0.25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria	198.55	198.55	198.55	198.55	20.85
Bahrain	80.75	77.08	77.08	323.01	323.01
Comoros	198.87	198.87	198.87	198.87	198.87
Djibouti	371.64	371.64	408.53	480.15	480.15
Egypt	11.64	11.64	11.64	11.64	11.64
Iraq					
Jordan	87.73	83.59	83.59	94.04	94.04
Kuwait					
Lebanon	73.75	73.75	60.10	73.75	138.39
Libya	120.90	82.81	82.81	82.81	82.81
Mauritania	72.32	72.32	72.32	72.32	72.32
Morocco	18.25	19.00	18.75	18.65	18.65
Oman	226.45	226.45	226.45	151.43	126.42
Palestine	81.52	81.52	81.52		
Qatar	293.25	293.25	293.25	233.36	233.36
Saudi Arabia	114.91	104.92	104.92	175.46	175.46
Somalia					76.20
Sudan					52.28
Syria					
Tunisia	71.59	63.43	63.43	44.40	44.40
UAE	370.97	370.97	392.41	392.41	392.41
Yemen	97.36	97.36	97.36	97.36	43.24

Arab average	146.50	142.77	145.39	165.51	143.58
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Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	12	12	12	11	3
Bahrain	6	6	6	14	16
Comoros	13	13	13	12	14
Djibouti	17	17	17	16	18
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	8	9	9	7	10
Kuwait		-	-	-	-
Lebanon	5	5	3	5	12
Libya	11	8	8	6	9
Mauritania	4	4	5	4	7
Morocco	2	2	2	2	2
Oman	14	14	14	9	11
Palestine	7	7	7	-	-
Qatar	15	15	15	13	15
Saudi Arabia	10	11	11	10	13
Somalia					
Sudan					6
Syria	-	-	-	-	-
Tunisia	3	3	4	3	5
UAE	16	16	16	15	17
Yemen	9	10	10	8	4

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=10 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 10 GB / >=10 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria	1,290.61	1,290.61	1,290.61	198.55	19.86
Bahrain	592.19	565.27	565.27	323.01	323.01
Comoros	2,642.86	2,642.86	2,642.86	2,642.86	2,642.86
Djibouti	535.62	535.62	588.91	692.36	692.36
Egypt	19.60	19.60	19.60	19.60	19.60
Iraq					
Jordan	135.62	104.49	104.49	94.04	94.04
Kuwait					
Lebanon	73.75	73.75	73.75	73.75	206.64
Libya					
Mauritania	338.28	338.28	338.28	338.28	338.28
Morocco	36.19	36.94	36.69	36.59	36.59
Oman	351.49	351.49	351.49	201.45	126.42
Palestine	163.03	163.03	163.03		
Qatar	293.25	293.25	293.25	233.36	233.36
Saudi Arabia	141.55	129.24	129.24	175.46	175.46
Somalia					
Sudan					247.03
Syria					
Tunisia	107.83	81.56	81.56	62.53	62.53
UAE	370.97	370.97	392.41	392.41	392.41
Yemen					
Arab average	472.86	466.46	471.43	391.73	374.03

Below Arab average
Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	14	7	2
Bahrain	13	13	12	10	11
Comoros	15	15	15	14	15
Djibouti	12	12	13	13	14
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	5	5	5	5	5
Kuwait		-	-	-	-
Lebanon	3	3	3	4	8
Libya	-	-	-	-	-
Mauritania	9	9	9	11	12
Morocco	2	2	2	2	3
Oman	10	10	10	8	6
Palestine	7	7	7	-	-
Qatar	8	8	8	9	9
Saudi Arabia	6	6	6	6	7
Somalia					
Sudan					10
Syria	-	-	-	-	-
Tunisia	4	4	4	3	4
UAE	11	11	11	12	13
Yemen	-	-	-	-	-

Least expensive
Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=10 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 30 GB / >=10 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria	1,290.61	1,290.61	1,290.61	198.55	19.86
Bahrain	592.19	565.27	565.27	323.01	323.01
Comoros	2,642.86	2,642.86	2,642.86	2,642.86	2,642.86
Djibouti	535.62	535.62	588.91	692.36	692.36
Egypt	19.60	19.60	19.60	19.60	19.60
Iraq					
Jordan	135.62	104.49	104.49	94.04	94.04
Kuwait					
Lebanon	73.75	73.75	73.75	73.75	206.64
Libya					
Mauritania	338.28	338.28	338.28	338.28	338.28
Morocco	36.19	36.94	36.69	36.59	36.59
Oman	351.49	351.49	351.49	201.45	126.42
Palestine	163.03	163.03	163.03		
Qatar	293.25	293.25	293.25	233.36	233.36
Saudi Arabia	141.55	129.24	129.24	175.46	175.46
Somalia					
Sudan					247.03
Syria					
Tunisia	107.83	81.56	81.56	62.53	62.53
UAE	370.97	370.97	392.41	392.41	392.41
Yemen					

Arab average	472.86	466.46	471.43	391.73	374.03
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Below Arab average
Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	14	7	2
Bahrain	13	13	12	10	11
Comoros	15	15	15	14	15
Djibouti	12	12	13	13	14
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	5	5	5	5	5
Kuwait		-	-	-	-
Lebanon	3	3	3	4	8
Libya	-	-	-	-	-
Mauritania	9	9	9	11	12
Morocco	2	2	2	2	3
Oman	10	10	10	8	6
Palestine	7	7	7	-	-
Qatar	8	8	8	9	9
Saudi Arabia	6	6	6	6	7
Somalia					
Sudan					10
Syria	-	-	-	-	-
Tunisia	4	4	4	3	4
UAE	11	11	11	12	13
Yemen	-	-	-	-	-

Least expensive
Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=10 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 90 GB / >=10 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria	1,290.61	1,290.61	1,290.61	198.55	21.51
Bahrain	592.19	565.27	565.27	323.01	323.01
Comoros	2,642.86	2,642.86	2,642.86	2,642.86	2,642.86
Djibouti	535.62	535.62	588.91	692.36	692.36
Egypt	19.60	19.60	19.60	19.60	19.60
Iraq					
Jordan	135.62	104.49	104.49	94.04	94.04
Kuwait					
Lebanon	107.87	107.87	73.75	107.87	206.64
Libya					
Mauritania	338.28	338.28	338.28	338.28	338.28
Morocco	36.19	36.94	36.69	36.59	36.59
Oman	351.49	351.49	351.49	201.45	126.42
Palestine	163.03	163.03	163.03		
Qatar	293.25	293.25	293.25	233.36	233.36
Saudi Arabia	141.55	129.24	129.24	175.46	175.46
Somalia					
Sudan					247.03
Syria					
Tunisia	107.83	81.56	81.56	62.53	62.53
UAE	370.97	370.97	392.41	392.41	392.41
Yemen					
Arab average	475.13	468.74	471.43	394.17	374.14

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	14	14	14	7	2
Bahrain	13	13	12	10	11
Comoros	15	15	15	14	15
Djibouti	12	12	13	13	14
Egypt	1	1	1	1	1
Iraq			-	-	-
Jordan	5	4	5	4	5
Kuwait		-	-	-	-
Lebanon	4	5	3	5	8
Libya	-	-	-	-	-
Mauritania	9	9	9	11	12
Morocco	2	2	2	2	3
Oman	10	10	10	8	6
Palestine	7	7	7	-	-
Qatar	8	8	8	9	9
Saudi Arabia	6	6	6	6	7
Somalia					
Sudan					10
Syria	-	-	-	-	-
Tunisia	3	3	4	3	4
UAE	11	11	11	12	13
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=25 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 20 GB / >=25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria				1,290.61	19.86
Bahrain	1,722.72	1,644.42	1,644.42	538.35	538.35
Comoros					
Djibouti	1,650.80	1,650.80	1,802.48	2,096.92	2,096.92
Egypt					
Iraq					
Jordan	170.89	138.97	138.97	94.04	94.04
Kuwait					
Lebanon	187.05	187.05	187.05	187.05	206.64
Libya					
Mauritania					
Morocco	90.19	91.43	91.44	91.44	
Oman	1,401.79	1,401.79	1,401.79	751.60	126.42
Palestine	763.00	763.00	763.00		
Qatar	749.31	459.09	293.25	233.36	233.36
Saudi Arabia	194.84	177.89	177.89	175.46	175.46
Somalia					
Sudan					
Syria					
Tunisia				90.62	90.62
UAE	392.41	392.41	392.41	392.41	392.41
Yemen					
Arab average	732.30	690.68	689.27	540.17	397.41

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	10	1
Bahrain	10	9	9	8	9
Comoros	-	-	-	-	-
Djibouti	9	10	10	11	10
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	2	2	2	3	3
Kuwait		-	-	-	-
Lebanon	3	4	4	5	6
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	1	1	2	-
Oman	8	8	8	9	4
Palestine	7	7	7	-	-
Qatar	6	6	5	6	7
Saudi Arabia	4	3	3	4	5
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	1	2
UAE	5	5	6	7	8
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=25 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 60 GB / >=25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria				1,290.61	21.51
Bahrain	1,722.72	1,644.42	1,644.42	538.35	538.35
Comoros					
Djibouti	1,650.80	1,650.80	1,802.48	2,096.92	2,096.92
Egypt					
Iraq					
Jordan	170.89	138.97	138.97	94.04	94.04
Kuwait					
Lebanon	187.05	187.05	187.05	187.05	206.64
Libya					
Mauritania					
Morocco	90.19	91.43	91.44	91.44	
Oman	1,401.79	1,401.79	1,401.79	751.60	126.42
Palestine	763.00	763.00	763.00		
Qatar	749.31	459.09	293.25	233.36	233.36
Saudi Arabia	194.84	177.89	177.89	175.46	175.46
Somalia					
Sudan					
Syria					
Tunisia				90.62	90.62
UAE	392.41	392.41	392.41	392.41	392.41
Yemen					
Arab average	732.30	690.68	689.27	540.17	397.57

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	10	1
Bahrain	10	9	9	8	9
Comoros	-	-	-	-	-
Djibouti	9	10	10	11	10
Egypt	-	-	-	-	-
Iraq					
Jordan	2	2	2	3	3
Kuwait		-	-	-	-
Lebanon	3	4	4	5	6
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	1	1	2	-
Oman	8	8	8	9	4
Palestine	7	7	7	-	-
Qatar	6	6	5	6	7
Saudi Arabia	4	3	3	4	5
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	1	2
UAE	5	5	6	7	8
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=25 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 180 GB / >=25 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria				1,290.61	23.36
Bahrain	1,722.72	1,644.42	1,644.42	538.35	538.35
Comoros					
Djibouti	1,650.80	1,650.80	1,802.48	2,096.92	2,096.92
Egypt					
Iraq					
Jordan	170.89	138.97	138.97	94.04	94.04
Kuwait					
Lebanon	187.05	187.05	187.05	187.05	343.13
Libya					
Mauritania					
Morocco	90.19	91.43	91.44	91.44	
Oman	1,401.79	1,401.79	1,401.79	751.60	126.42
Palestine	763.00	763.00	763.00		
Qatar	749.31	459.09	293.25	233.36	233.36
Saudi Arabia	194.84	177.89	177.89	175.46	175.46
Somalia					
Sudan					
Syria					
Tunisia				90.62	90.62
UAE	392.41	392.41	392.41	392.41	392.41
Yemen					
Arab average	732.30	690.68	689.27	540.17	411.41

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	10	1
Bahrain	10	9	9	8	9
Comoros	-	-	-	-	-
Djibouti	9	10	10	11	10
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	2	2	2	3	3
Kuwait		-	-	-	-
Lebanon	3	4	4	5	7
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	1	1	2	-
Oman	8	8	8	9	4
Palestine	7	7	7	-	-
Qatar	6	6	5	6	6
Saudi Arabia	4	3	3	4	5
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	1	2
UAE	5	5	6	7	8
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=100 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 40 GB / >=100 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria				1,290.61	1,290.61
Bahrain				807.53	807.53
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan	170.89	138.97	138.97	135.49	136.45
Kuwait					
Lebanon					684.37
Libya					
Mauritania					
Morocco	90.19	91.43	91.44	91.44	
Oman	1,751.88	1,751.88	1,751.88	1,001.67	176.44
Palestine					
Qatar	749.31	749.31	459.09	316.28	316.28
Saudi Arabia	274.76	250.87	250.87	175.46	175.46
Somalia					
Sudan					
Syria					
Tunisia				144.99	144.99
UAE	724.16	526.52	470.84	500.64	500.64
Yemen					
Arab average	626.87	584.83	527.18	496.01	470.31

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	9	9
Bahrain	-	-	-	7	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	2	2	2	2	1
Kuwait		-	-	-	-
Lebanon	-	-	-	-	7
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	1	1	1	-
Oman	6	6	6	8	4
Palestine	-	-	-	-	-
Qatar	5	5	4	5	5
Saudi Arabia	3	3	3	4	3
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	3	2
UAE	4	4	5	6	6
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=100 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 120 GB / >=100 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria				1,290.61	1,290.61
Bahrain				807.53	807.53
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan	170.89	138.97	138.97	135.49	136.45
Kuwait					
Lebanon					684.37
Libya					
Mauritania					
Morocco	90.19	91.43	91.44	91.44	
Oman	1,751.88	1,751.88	1,751.88	1,001.67	176.44
Palestine					
Qatar	749.31	749.31	459.09	316.28	316.28
Saudi Arabia	274.76	250.87	250.87	175.46	175.46
Somalia					
Sudan					
Syria					
Tunisia				144.99	144.99
UAE	724.16	526.52	470.84	500.64	500.64
Yemen					
Arab average	626.87	584.83	527.18	496.01	470.31

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	9	9
Bahrain	-	-	-	7	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	2	2	2	2	1
Kuwait		-	-	-	-
Lebanon	-	-	-	-	7
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	1	1	1	-
Oman	6	6	6	8	4
Palestine	-	-	-	-	-
Qatar	5	5	4	5	5
Saudi Arabia	3	3	3	4	3
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	3	2
UAE	4	4	5	6	6
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=100 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 360 GB / >=100 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria				1,290.61	1,290.61
Bahrain				807.53	807.53
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan	170.89	138.97	138.97	135.49	136.45
Kuwait					
Lebanon					684.37
Libya					
Mauritania					
Morocco	90.19	91.43	91.44	91.44	
Oman	1,751.88	1,751.88	1,751.88	1,001.67	176.44
Palestine					
Qatar	749.31	749.31	459.09	316.28	316.28
Saudi Arabia	274.76	250.87	250.87	175.46	175.46
Somalia					
Sudan					
Syria					
Tunisia				144.99	144.99
UAE	724.16	526.52	470.84	500.64	500.64
Yemen					
Arab average	626.87	584.83	527.18	496.01	470.31

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	9	9
Bahrain	-	-	-	7	8
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	2	2	2	2	1
Kuwait		-	-	-	-
Lebanon	-	-	-	-	7
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	1	1	1	1	-
Oman	6	6	6	8	4
Palestine	-	-	-	-	-
Qatar	5	5	4	5	5
Saudi Arabia	3	3	3	4	3
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	3	2
UAE	4	4	5	6	6
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=1000 MB/S LOW USAGE



Results for Fixed Broadband: OECD Low 100 GB / >=1000 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria					
Bahrain					
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon					
Libya					
Mauritania					
Morocco					
Oman				4,002.52	496.53
Palestine					
Qatar		915.15		813.80	813.80
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE				1,590.80	1,590.80
Yemen					
Arab average		915.15	2135.71	967.05	

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	-	-	-	-	-
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	-	-	-	-	-
Kuwait		-	-	-	-
Lebanon	-	-	-	-	-
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	-	-	-	3	1
Palestine	-	-	-	-	-
Qatar	-	-	1	1	2
Saudi Arabia	-	-	-	-	-
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE	-	-	-	2	3
Yemen	-	-	-	-	-

Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=1000 MB/S MEDIUM USAGE



Results for Fixed Broadband: OECD Medium 300 GB / >=1000 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria					
Bahrain					
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon					
Libya					
Mauritania					
Morocco					
Oman			4,002.52	496.53	
Palestine					
Qatar		915.15	813.80	813.80	
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE			1,590.80	1,590.80	
Yemen					
Arab average		915.15	2135.71	967.05	

Below Arab average
Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	-	-	-	-	-
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	-	-	-	-	-
Kuwait		-	-	-	-
Lebanon	-	-	-	-	-
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	-	-	-	3	1
Palestine	-	-	-	-	-
Qatar	-	-	1	1	2
Saudi Arabia	-	-	-	-	-
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE	-	-	-	2	3
Yemen	-	-	-	-	-

Least expensive
Most expensive

OECD FIXED BROADBAND BASKETS RANKING BUSINESS >=1000 MB/S HIGH USAGE



Results for Fixed Broadband: OECD High 900 GB / >=1000 Mb/s basket, 2018-2022

Results in USD / PPP per Month, VAT excluded, Business results

	2018	2019	2020	2021	2022
Algeria					
Bahrain					
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon					
Libya					
Mauritania					
Morocco					
Oman			4,002.52	496.53	
Palestine					
Qatar		915.15	813.80	813.80	
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE			1,590.80	1,590.80	
Yemen					
Arab average		915.15	2135.71	967.05	

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	-	-	-	-	-
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq			-	-	-
Jordan	-	-	-	-	-
Kuwait		-	-	-	-
Lebanon	-	-	-	-	-
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	-	-	-	3	1
Palestine	-	-	-	-	-
Qatar	-	-	1	1	2
Saudi Arabia	-	-	-	-	-
Somalia					
Sudan					-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE	-	-	-	2	3
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OBSERVATIONS FROM FIXED BROADBAND TIME SERIES RESULTS

- The table below summarizes how the overall Arab average changed from 2021-2022. The picture is one mainly of increases across the lower speed residential baskets – up to 16% and decreases for speeds of 25 Mb/s and above, with greater decreases for higher speeds – up to 30%.
- The average cost across all business baskets fell, with the greatest reductions being seen at the highest speeds of service – up to 55%.

Change in overall average 2021-2022	Residential			Business			Change in average 2021-2022 (Res: Inc VAT, Bus, Excl VAT)	
	Low	Medium	High	Low	Medium	High	Residential	Business
>= 0.25 Mb/s / 15 GB	↑	↑	↑	↓	↓	↓	11%	-13%
>= 10 Mb/s / 30 GB	↑	↑	↑	↓	↓	↓	16%	-5%
>= 25 Mb/s / 60 GB	↓	↓	↓	↓	↓	↓	-10%	-26%
>= 100 Mb/s / 120 GB	↓	↓	↓	↓	↓	↓	-12%	-5%
>= 1000 Mb/s / 300 GB	↓	↓	↓	↓	↓	↓	-30%	-55%

- Speeds have continued to rise since 2021. 96% of all services recorded now have a minimum advertised download speed of 2 Mb/s or above, 64% of services are at least 30 Mb/s, and over 40% of plans are at least 100 Mb/s
- The average speed for the Arab countries for the current update is almost 186 Mb/s, up from 183 Mb/s in 2021. This average includes services for the additional ISPs now included in the analysis.
- There have been changes for most providers in the current update. An increasing trend is the introduction of fixed-wireless services, which often are significantly cheaper than fixed wireline services. These services typically come with a pre-set download allowance, although these are usually very generous and sufficient for average household use.
- Time series results are based on incumbent-only pricing

Mobile broadband basket results 2022

- There are 7 baskets OECD baskets for mobile broadband ranging from low to very high usage, and these are shown in the table below.

	Usage volume (GB/month)
0.5 GB basket	0.5
1 GB basket	1
2 GB basket	2
5 GB basket	5
10 GB basket	10
20 GB basket	20
50 GB basket	50

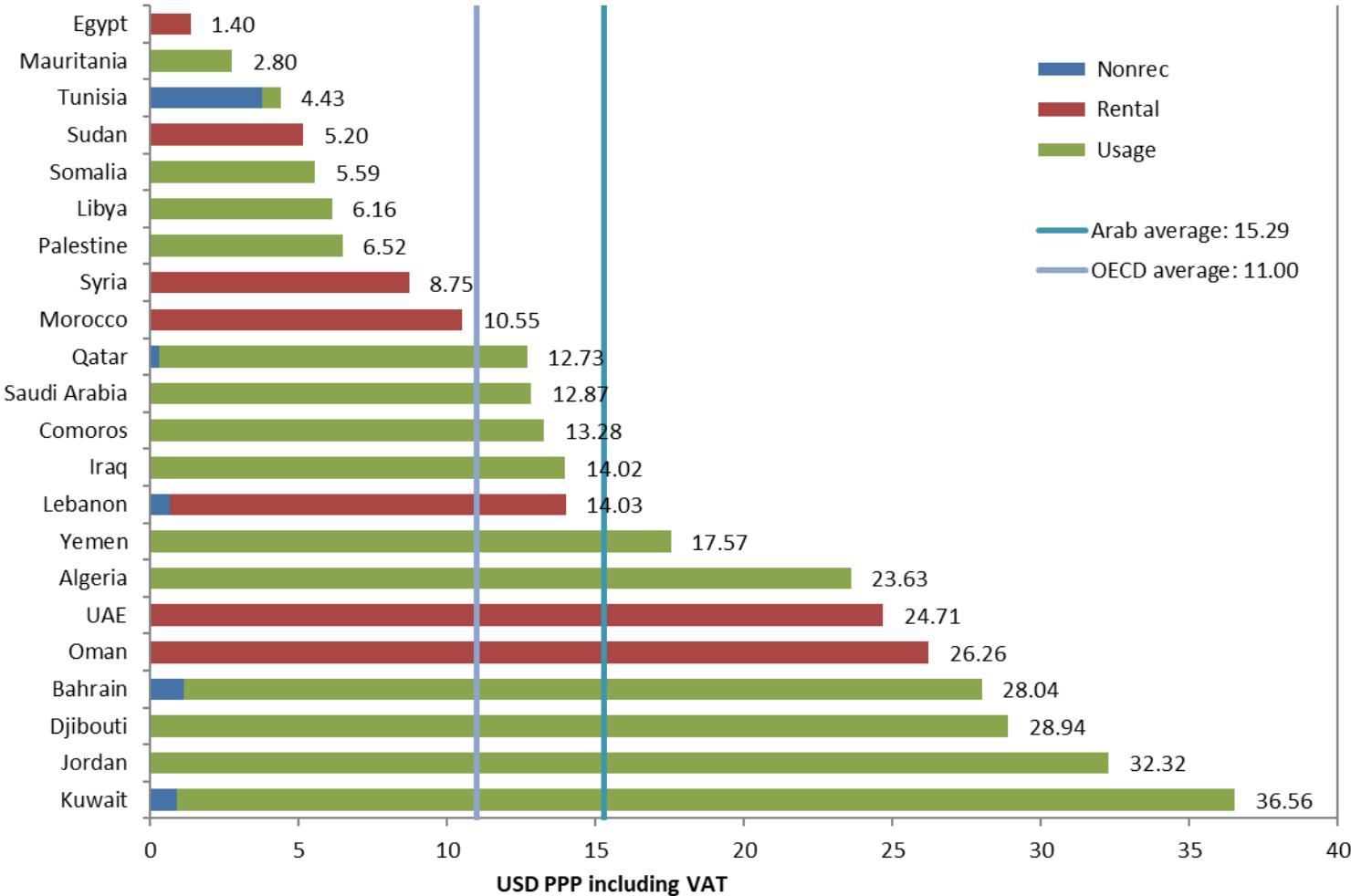
- There are also two special baskets which simulate short term usage

	Usage volume (GB/month)	Days of use per month
0.5 GB basket	0.5	15
1 GB basket	1	15

- Data collected refers to dedicated mobile broadband packages (i.e. not mobile broadband bundled with or added to mobile voice packages) , and up to three operators are considered

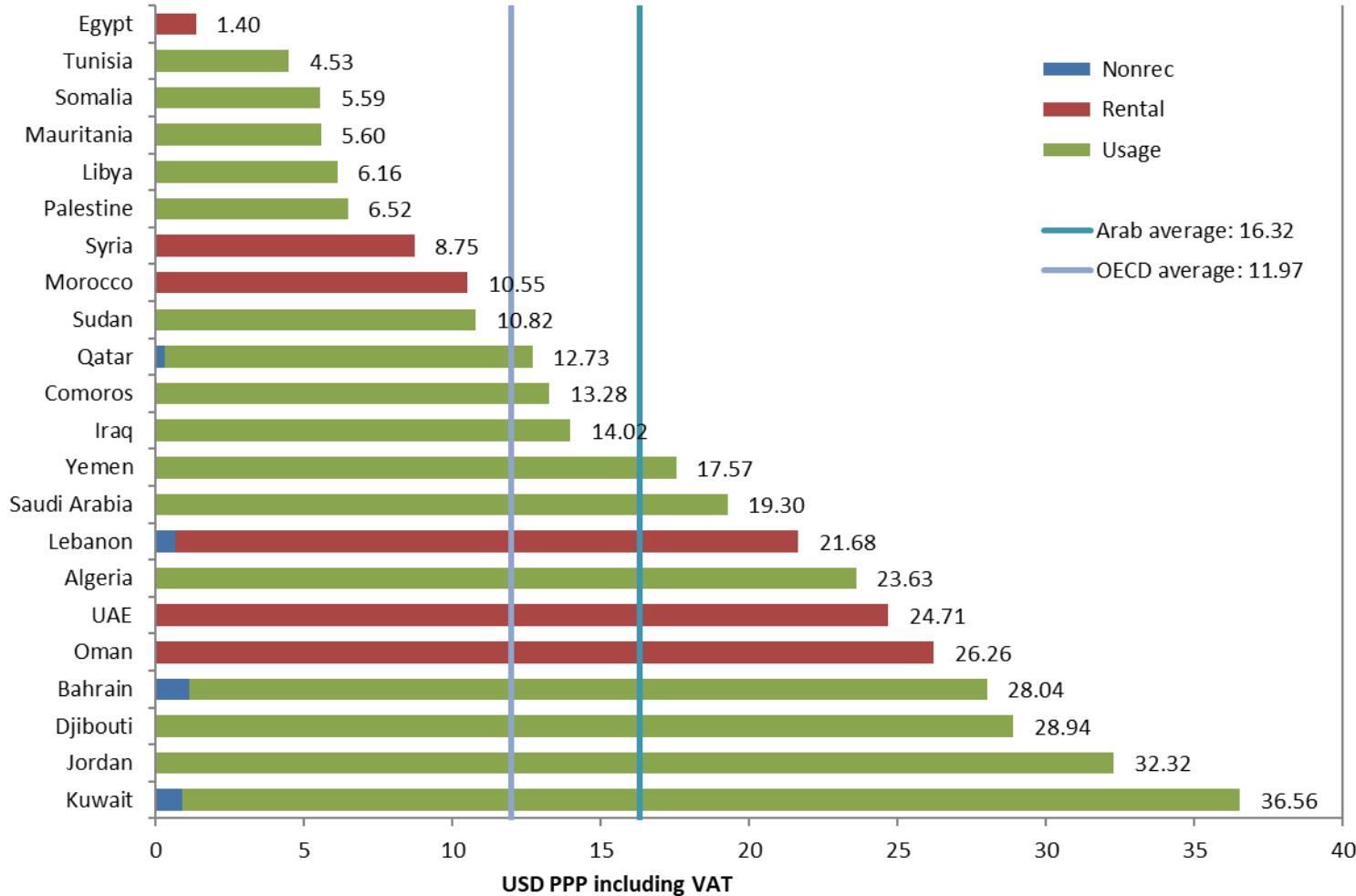
RESIDENTIAL MOBILE BROADBAND OECD 2017 0.5GB BASKET

AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 0.5 GB / 30 days per month, Residential



RESIDENTIAL MOBILE BROADBAND OECD 2017 1GB BASKET

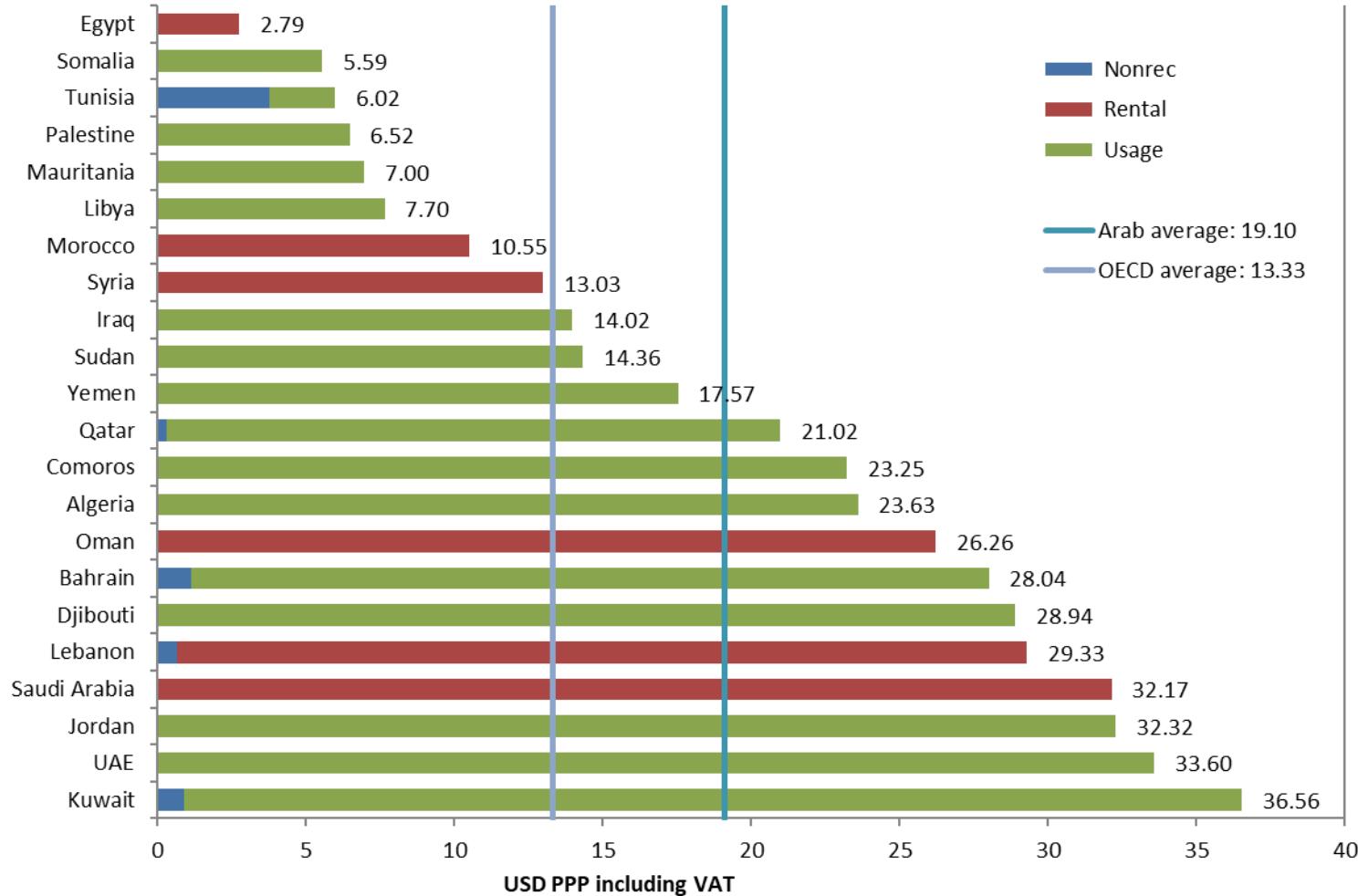
AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 1 GB / 30 days per month, Residential



RESIDENTIAL MOBILE BROADBAND OECD 2017 2GB BASKET

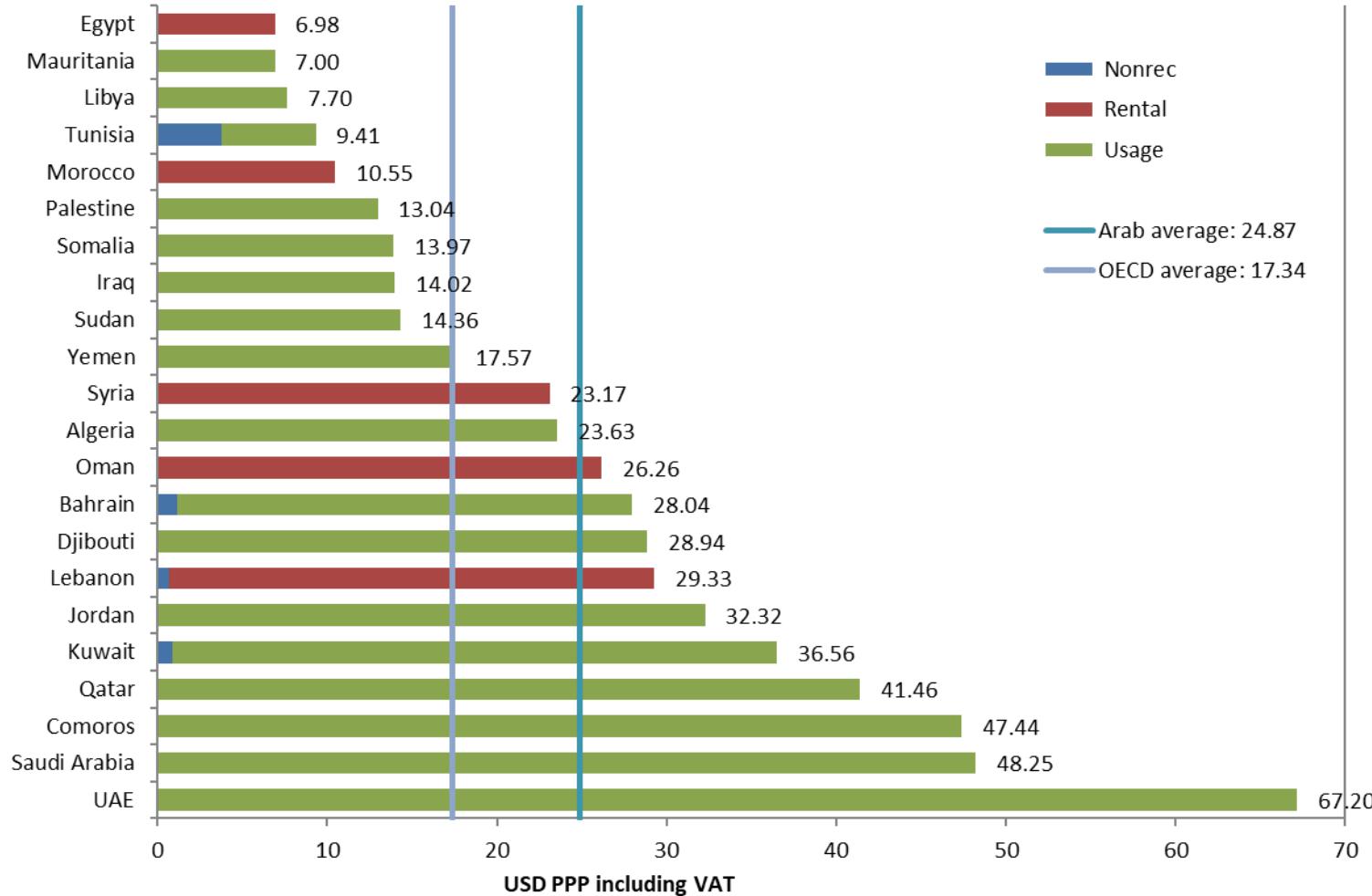
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AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 2 GB / 30 days per month, Residential



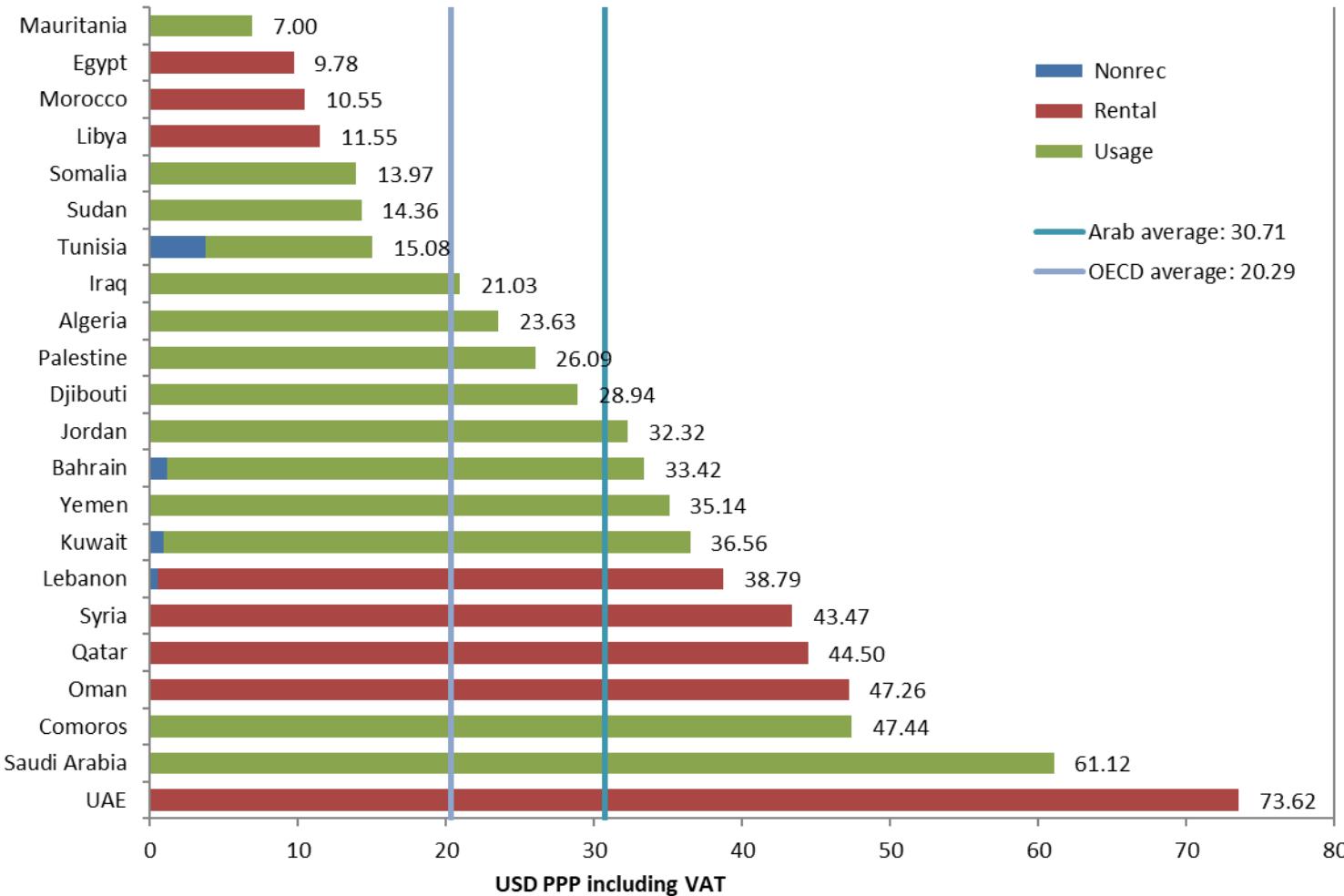
RESIDENTIAL MOBILE BROADBAND OECD 2017 5GB BASKET

AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 5 GB / 30 days per month, Residential



RESIDENTIAL MOBILE BROADBAND OECD 2017 10GB BASKET

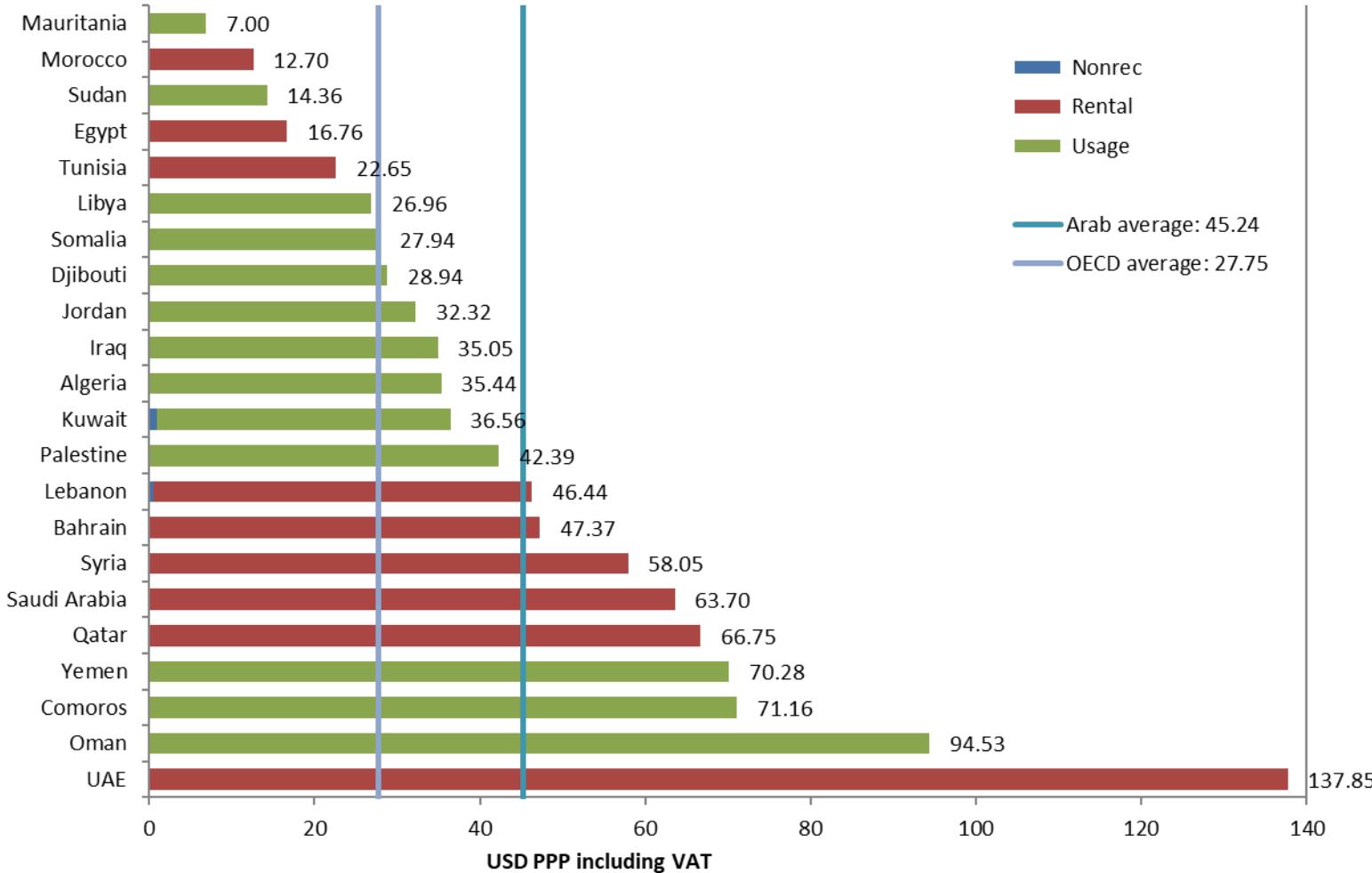
AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 10 GB / 30 days per month, Residential



RESIDENTIAL MOBILE BROADBAND OECD 2017 20GB BASKET

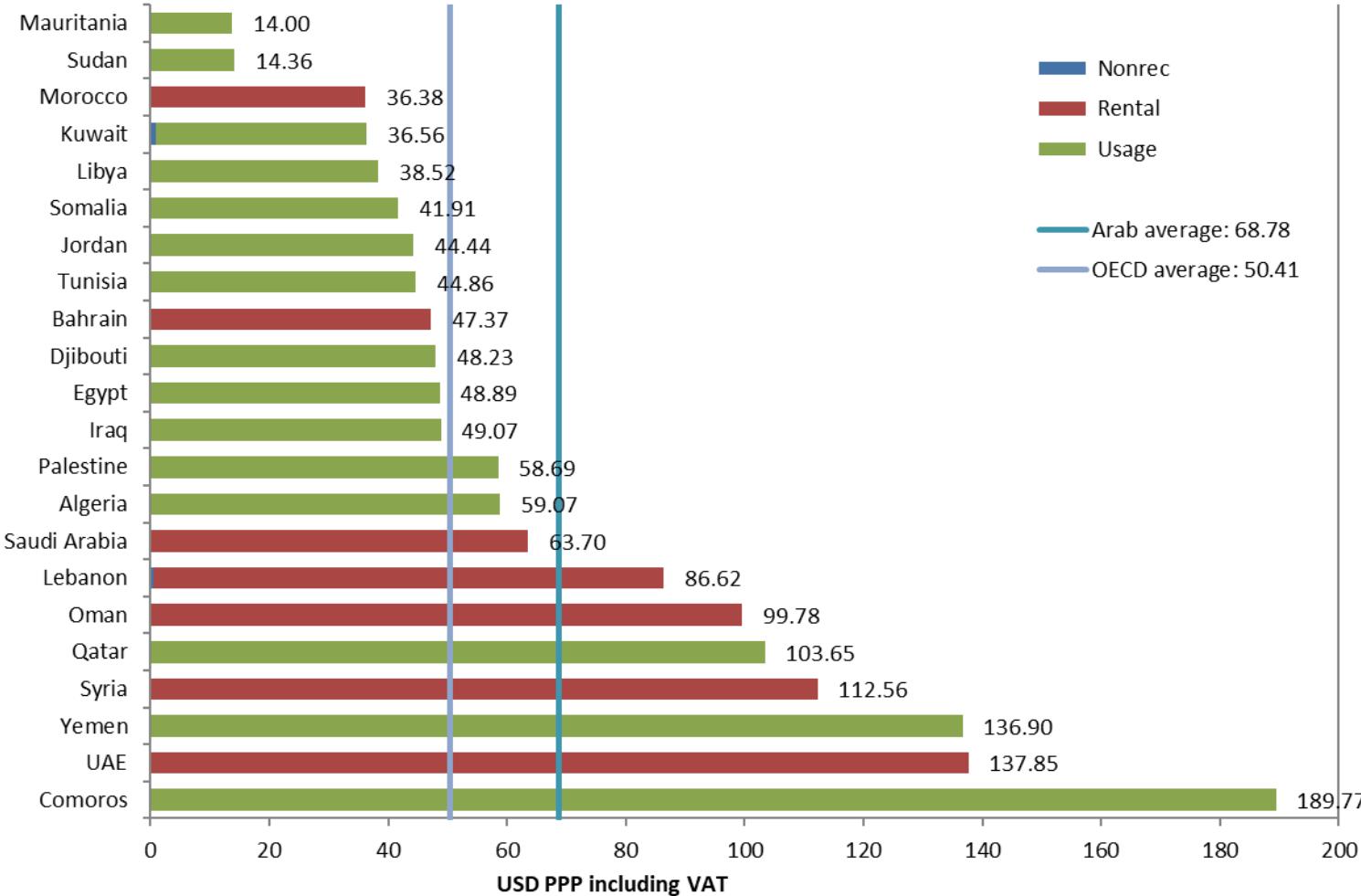
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AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 20 GB / 30 days per month, Residential



RESIDENTIAL MOBILE BROADBAND OECD 2017 50GB BASKET

AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 50 GB / 30 days per month, Residential



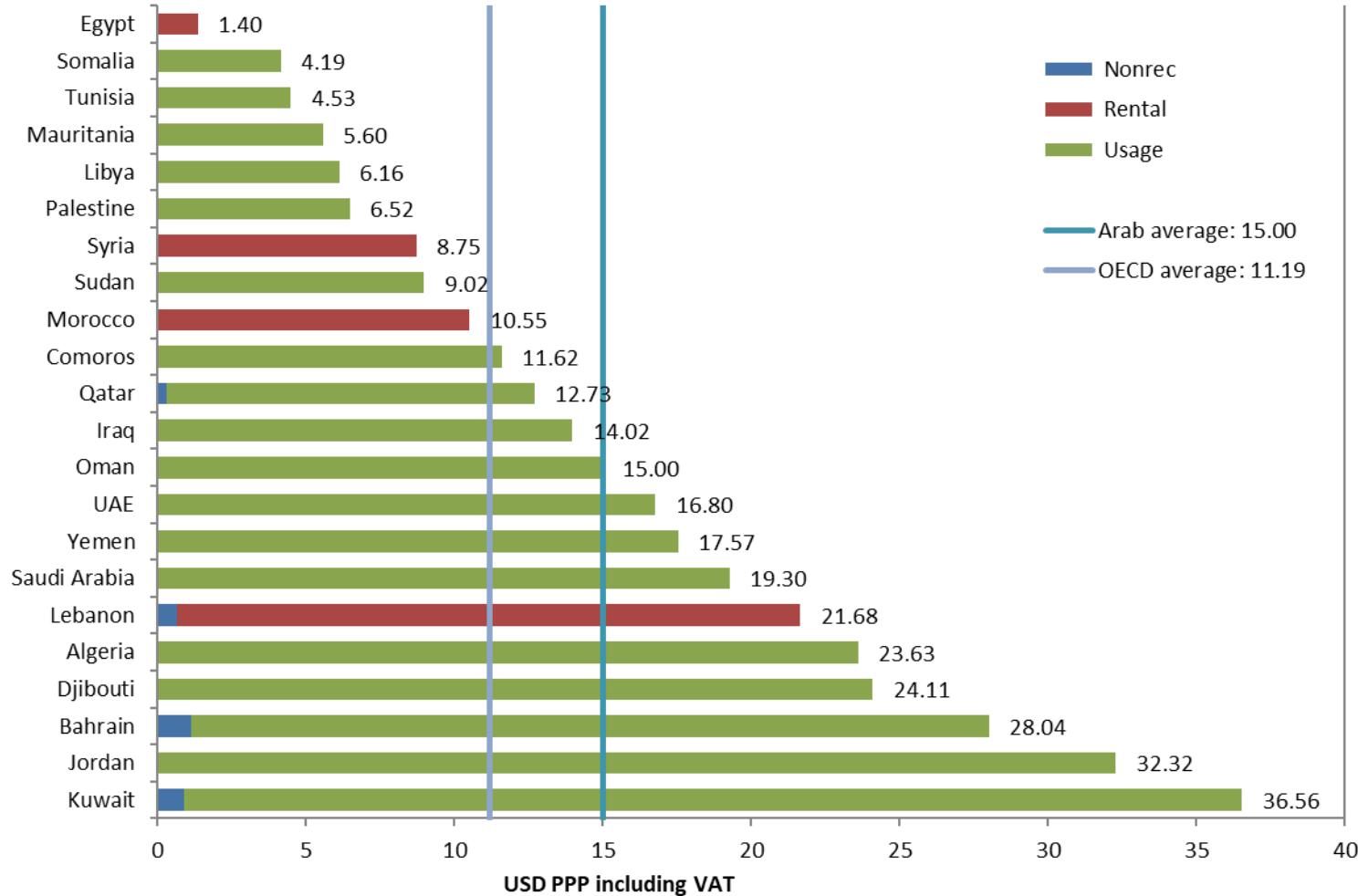
RESIDENTIAL MOBILE BROADBAND OECD 2017 SHORT VALIDITY 0.5GB BASKET

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RESIDENTIAL MOBILE BROADBAND OECD 2017 SHORT VALIDITY 1GB BASKET

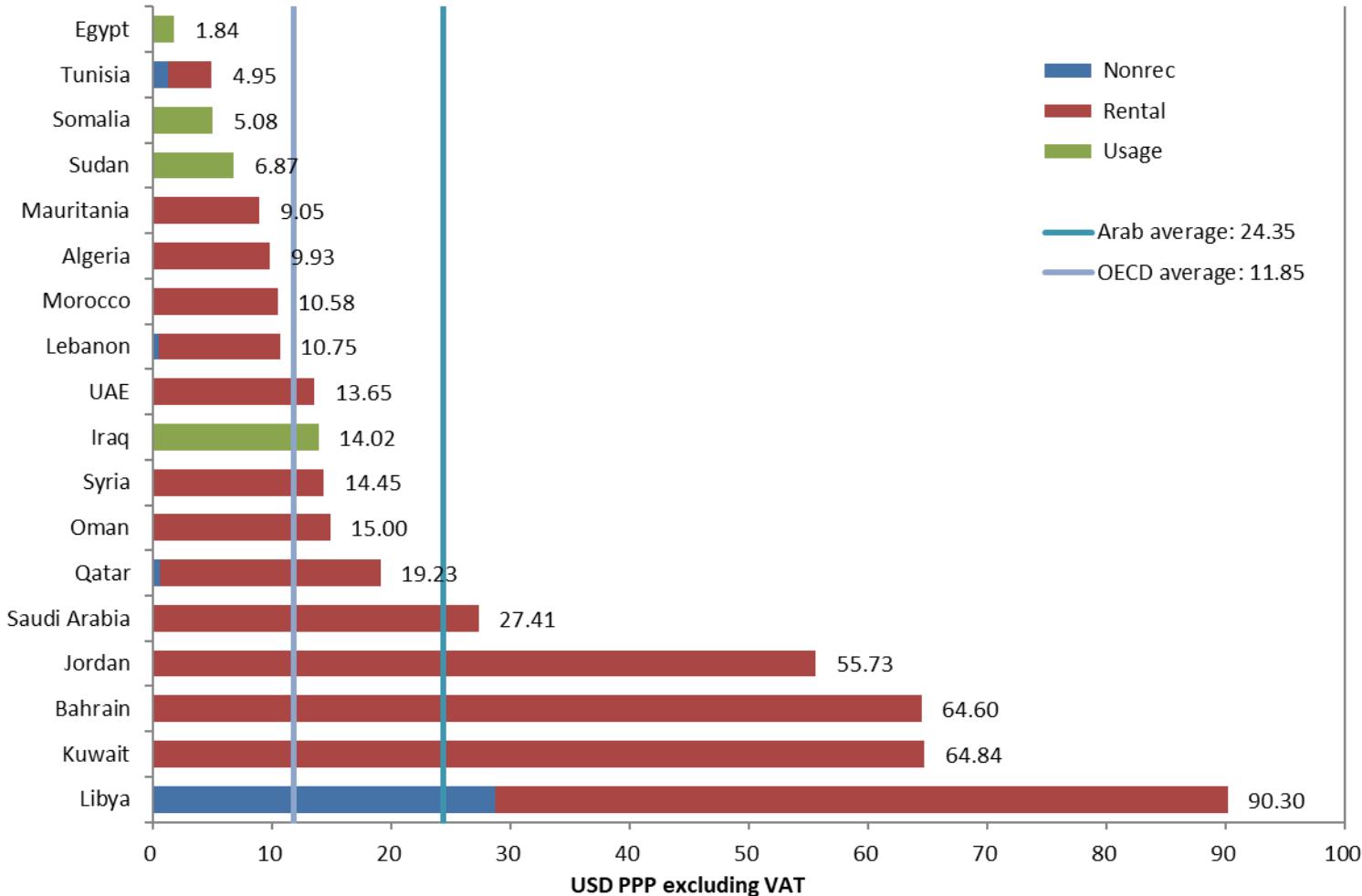
AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 1 GB / 15 days per month, Residential



BUSINESS MOBILE BROADBAND OECD 2017 0.5GB BASKET

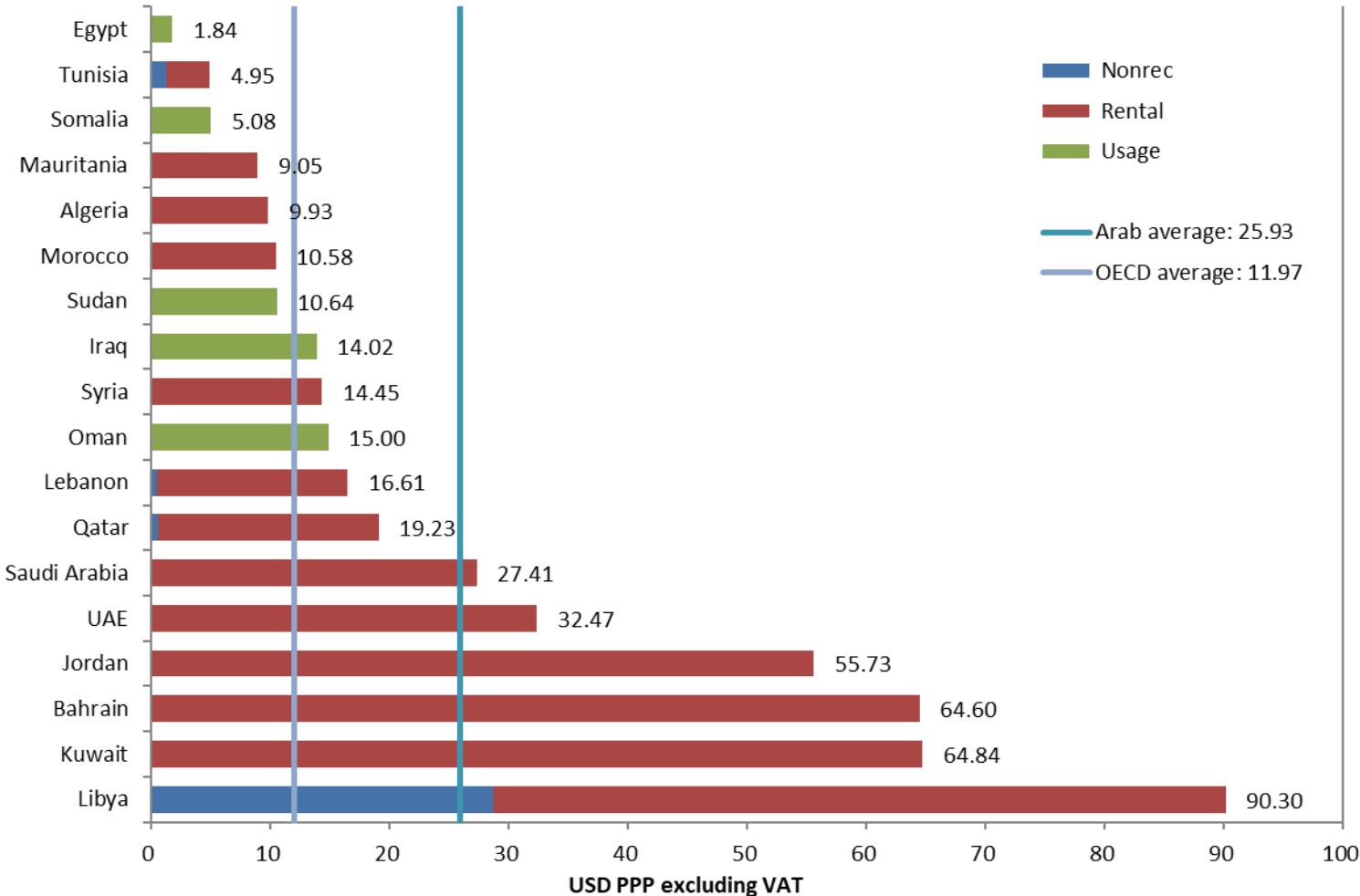
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AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 0.5 GB / 30 days per month, Business



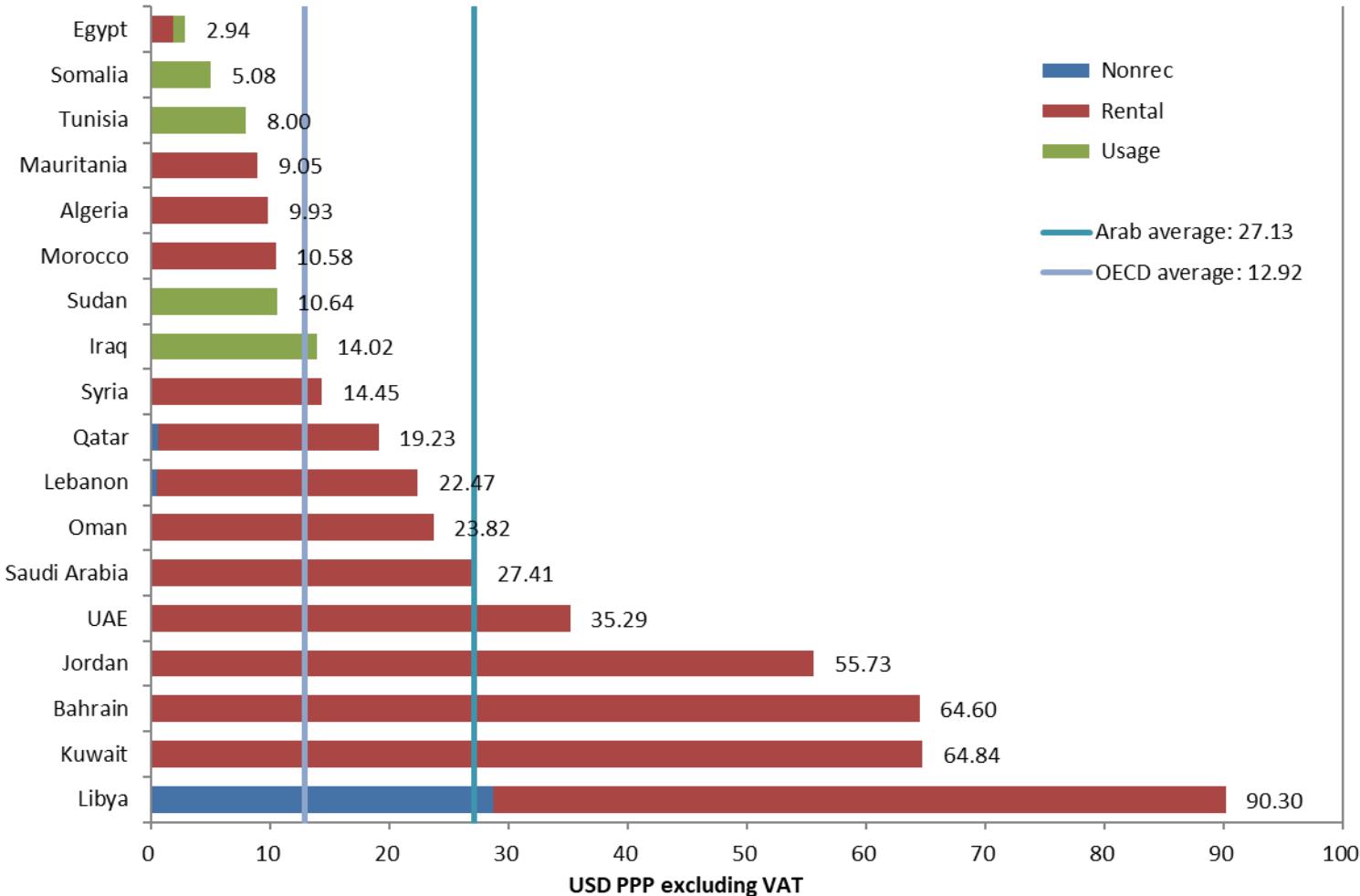
BUSINESS MOBILE BROADBAND OECD 2017 1GB BASKET

AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 1 GB / 30 days per month, Business



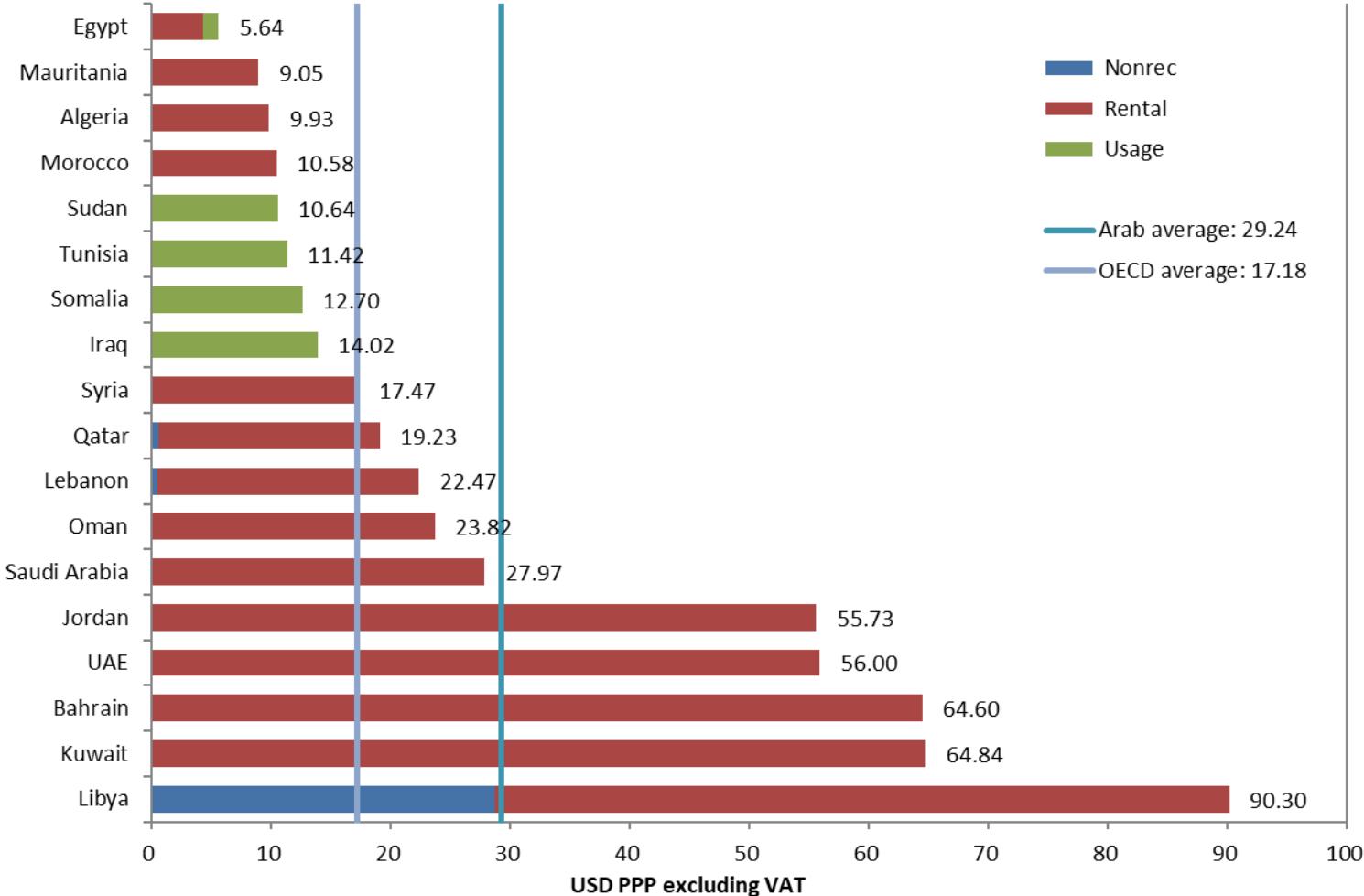
BUSINESS MOBILE BROADBAND OECD 2017 2GB BASKET

AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 2 GB / 30 days per month, Business



BUSINESS MOBILE BROADBAND OECD 2017 5GB BASKET

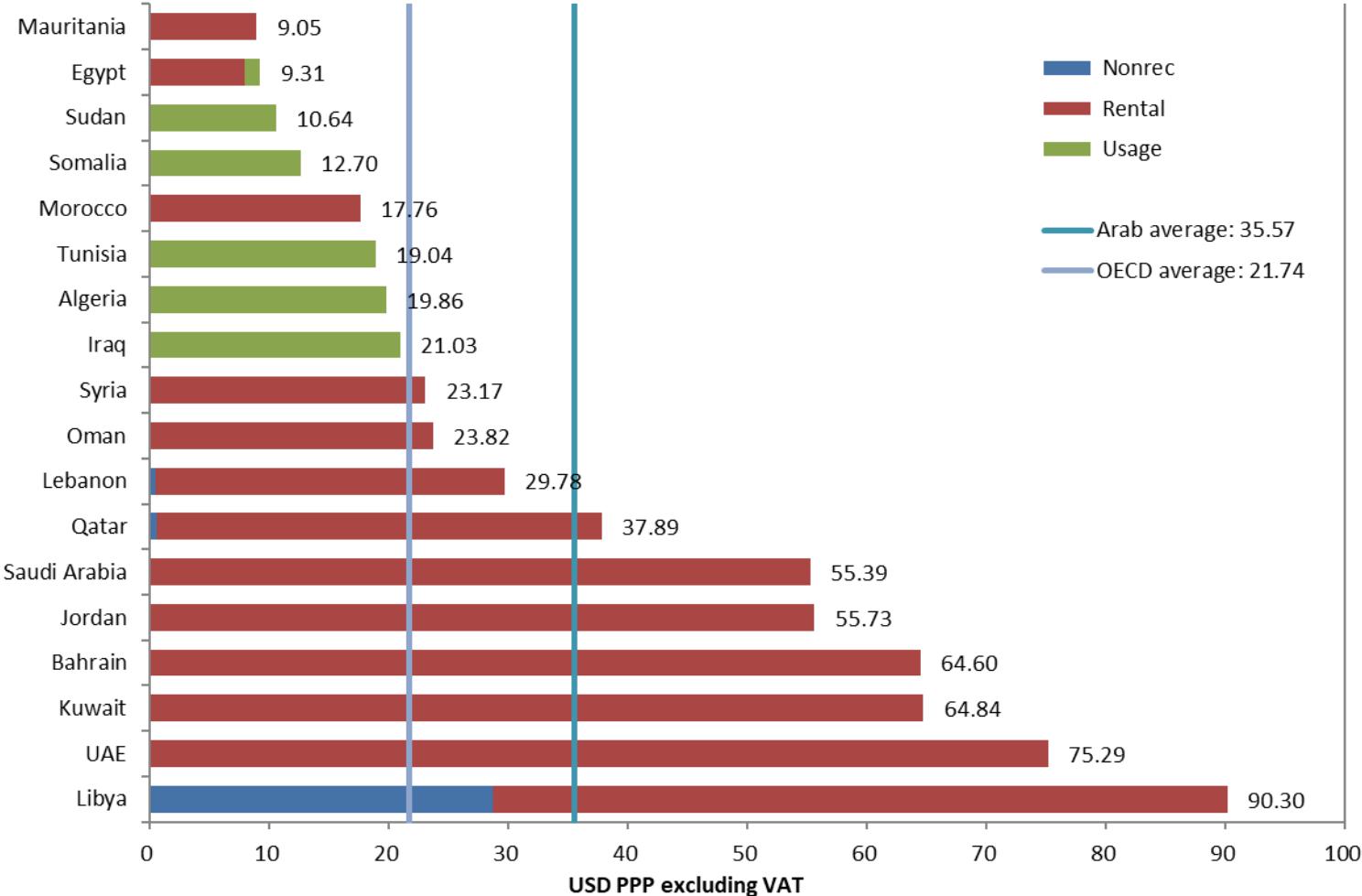
AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 5 GB / 30 days per month, Business



BUSINESS MOBILE BROADBAND OECD 2017 10GB BASKET

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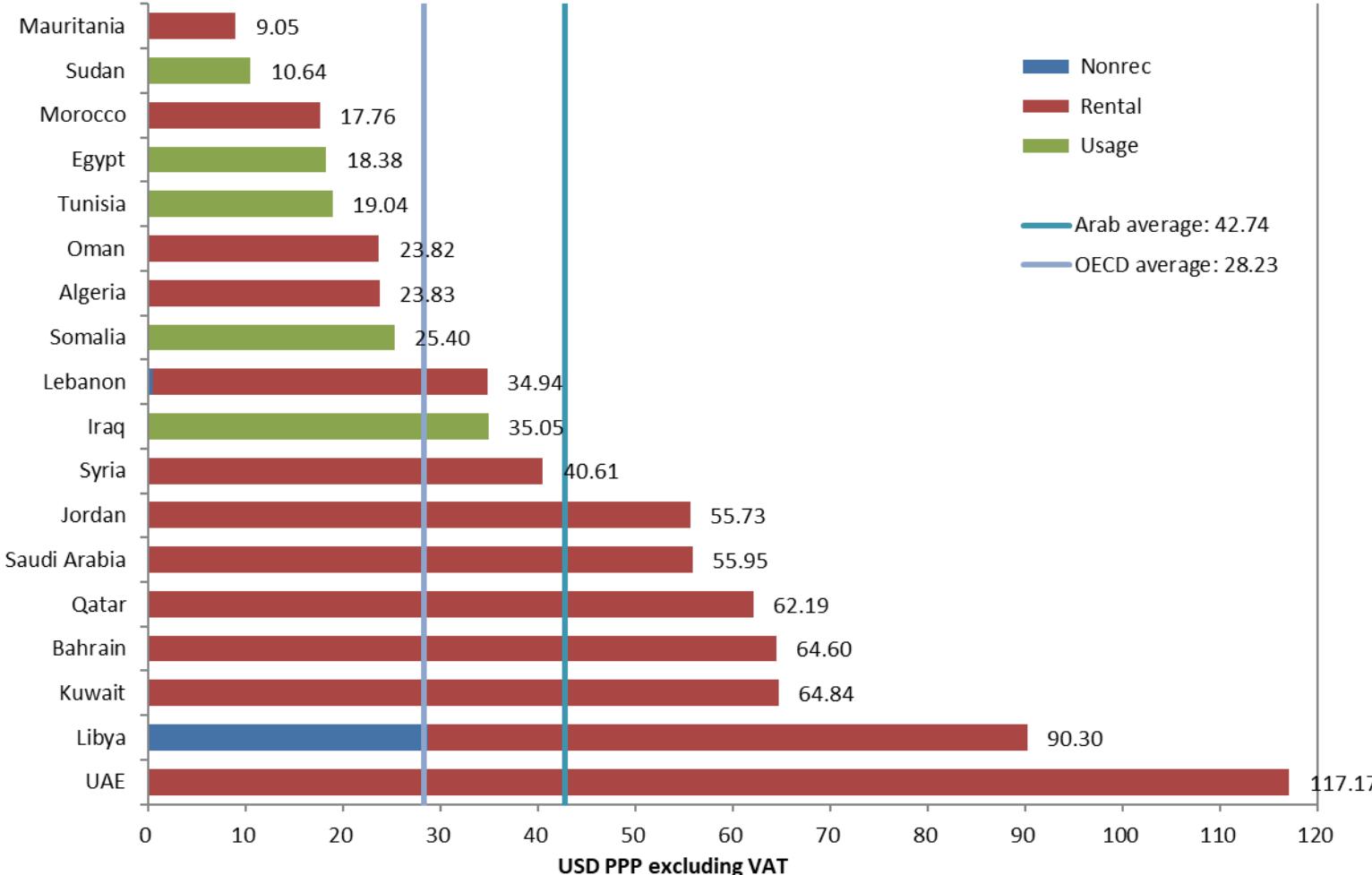
AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 10 GB / 30 days per month, Business



BUSINESS MOBILE BROADBAND OECD 2017 20GB BASKET

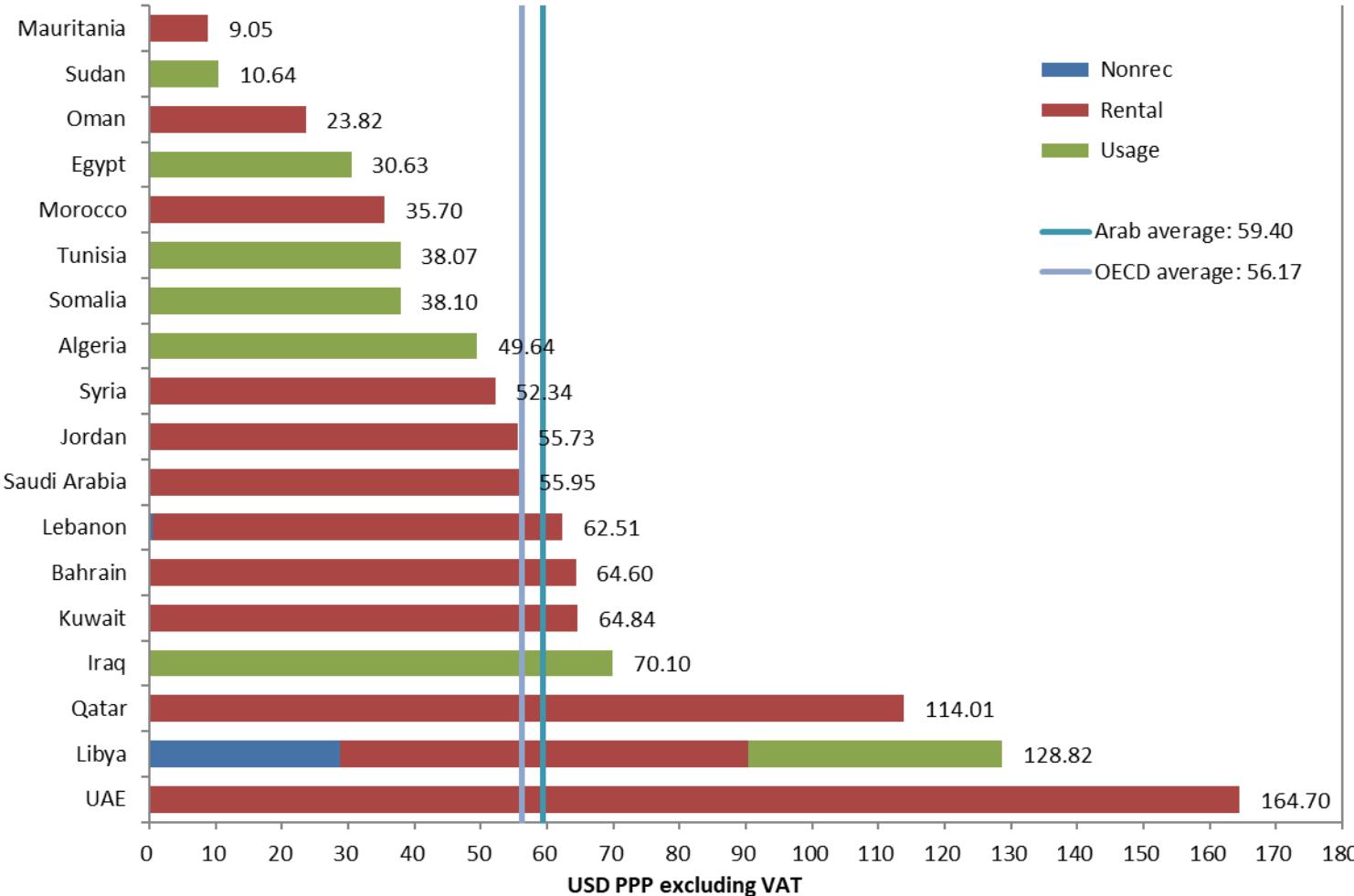
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AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 20 GB / 30 days per month, Business



BUSINESS MOBILE BROADBAND OECD 2017 50GB BASKET

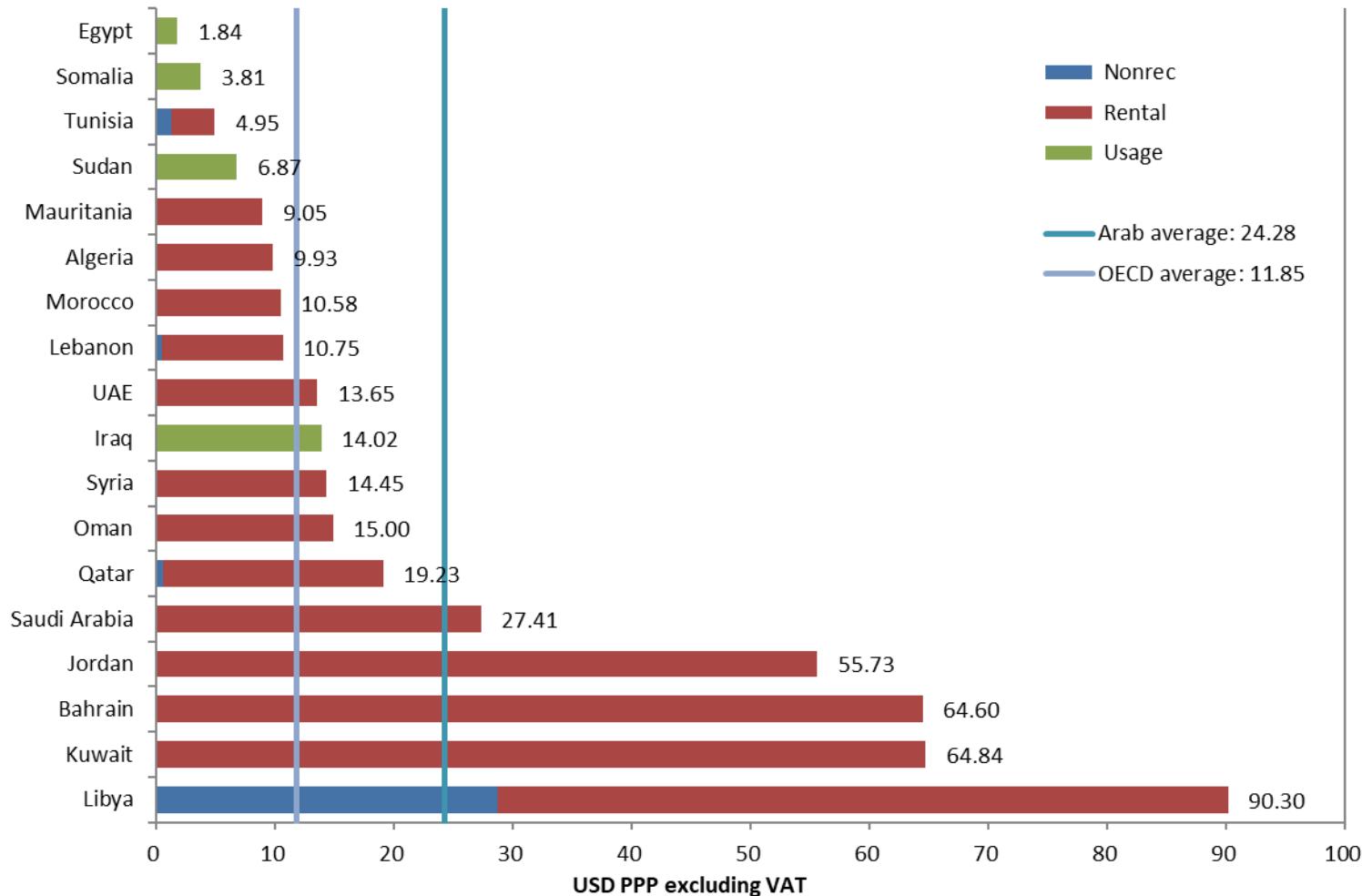
AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 50 GB / 30 days per month, Business



BUSINESS MOBILE BROADBAND OECD 2017 SHORT VALIDITY 0.5GB BASKET

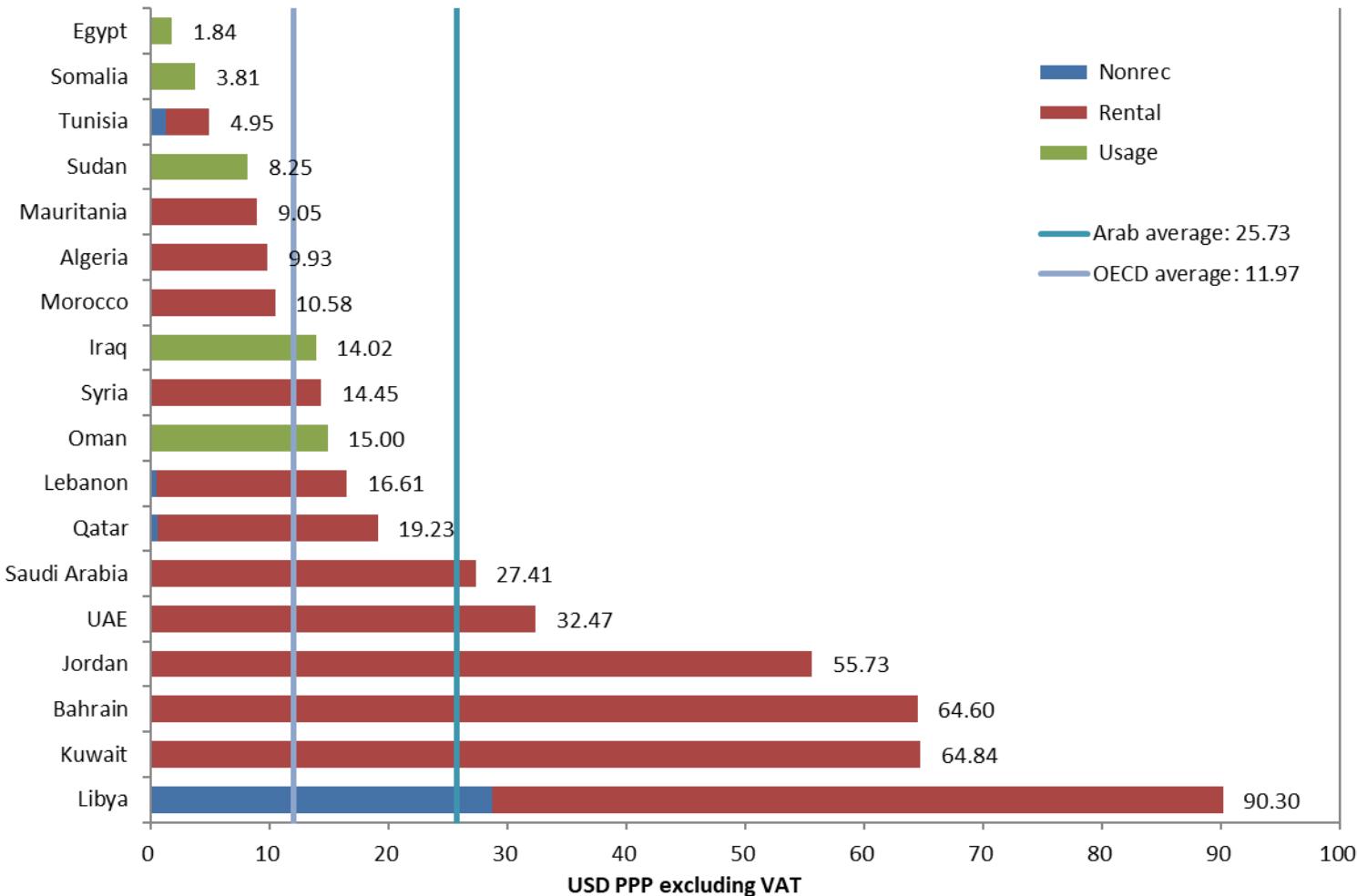
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AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 0.5 GB / 15 days per month, Business



BUSINESS MOBILE BROADBAND OECD 2017 SHORT VALIDITY 1GB BASKET

AREGENET Mobile Broadband Price Benchmarking 2022
OECD 2017: 1 GB / 15 days per month, Business



OBSERVATIONS FROM MOBILE BROADBAND BASKET RESULTS

- Mobile broadband services are available across all the Arab countries.
- The table below shows the average increased cost of mobile broadband services for both residential and business customers in the Arab countries compared to the OECD average.

	Arab:OECD average	
	Residential	Business
0.5 GB	39%	105%
1 GB	36%	117%
2 GB	43%	110%
5 GB	43%	70%
10 GB	51%	64%
20 GB	63%	51%
50 GB	36%	6%
0.5 GB short validity	33%	105%
1 GB short validity	34%	115%

- The average for the residential service baskets in the Arab countries compared to the OECD average ranges from 33%-63% more expensive, depending on the basket, although for the lower usage baskets in particular, in real terms the variance is relatively small.
- For business services, the range is 6% (more expensive) for the 50GB basket, to 117% for the 1 GB basket.

Mobile broadband time series analysis and ranking tables 2018–2022

OECD MOBILE BROADBAND BASKETS RANKING 0.5GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 0.5GB/30 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, residential results

	2018	2019	2020	2021	2022
Algeria	13.09	11.81	23.63	23.63	23.63
Bahrain	32.90	32.93	33.40	33.40	28.04
Comoros	19.93	13.28	13.28	13.28	13.28
Djibouti	31.08	31.08	31.08	31.08	28.94
Egypt	2.44	2.44	1.40	1.40	1.40
Iraq	16.82	16.82	14.02	14.02	14.02
Jordan	8.08	8.08	8.08	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	38.79	38.79	38.79	38.79	14.03
Libya	21.50	12.33	12.33	7.70	6.16
Mauritania	21.00	21.00	2.10	7.00	2.80
Morocco	10.55	10.55	10.55	10.76	10.55
Oman	10.00	10.00	15.00	25.01	26.26
Palestine	29.50	11.35	11.35	6.52	6.52
Qatar	21.70	21.70	22.80	17.70	12.73
Saudi Arabia	11.75	11.19	32.17	19.30	12.87
Somalia	13.97	13.97	13.97	5.59	5.59
Sudan					5.20
Syria	8.74	8.75	8.75	8.75	8.75
Tunisia	9.06	7.83	4.08	4.08	4.43
UAE	24.71	27.18	24.71	24.71	24.71
Yemen	24.75	22.00	14.51	14.51	17.57
Arab average	19.18	18.02	17.85	17.76	15.29

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	8	9	14	13	15
Bahrain	19	18	18	18	18
Comoros	11	11	9	9	12
Djibouti	17	17	16	16	19
Egypt	1	1	1	1	1
Iraq	10	13	11	10	13
Jordan	2	3	4	17	20
Kuwait	18	20	20	19	21
Lebanon	20	19	19	20	14
Libya	13	10	8	6	6
Mauritania	12	14	2	5	2
Morocco	6	6	6	8	9
Oman	5	5	12	15	17
Palestine		8	7	4	7
Qatar	14	15	13	11	10
Saudi Arabia	7	7	17	12	11
Somalia	9	12	10	3	5
Sudan					4
Syria	3	4	5	7	8
Tunisia	4	2	3	2	3
UAE	15	16	15	14	16

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 1GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 1GB/30 days per mth, Residential basket, 2018-2022

Results in USD PPP including VAT, residential results

	2018	2019	2020	2021	2022
Algeria	17.72	11.81	23.63	23.63	23.63
Bahrain	32.90	32.93	33.40	33.40	28.04
Comoros	23.72	13.28	13.28	13.28	13.28
Djibouti	31.08	31.08	31.08	31.08	28.94
Egypt	4.53	4.34	1.40	1.40	1.40
Iraq	21.03	21.03	14.02	14.02	14.02
Jordan	20.20	8.08	20.20	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	65.57	65.57	66.85	65.57	21.68
Libya	21.50	12.33	12.33	7.70	6.16
Mauritania	21.00	21.00	2.10	7.00	5.60
Morocco	10.55	10.55	10.55	10.76	10.55
Oman	15.00	15.00	15.00	25.01	26.26
Palestine	37.07	14.37	15.13	6.52	6.52
Qatar	21.70	21.70	22.80	20.73	12.73
Saudi Arabia	23.50	16.78	32.17	19.30	19.30
Somalia	13.97	13.97	13.97	5.59	5.59
Sudan					10.82
Syria	8.74	8.75	8.75	8.75	8.75
Tunisia	9.06	7.83	4.08	4.08	4.53
UAE	48.92	48.92	24.71	24.71	24.71
Yemen	28.92	23.15	24.11	24.11	17.57
Arab average	24.24	21.33	20.40	19.64	16.32

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	7	6	14	13	15
Bahrain	17	17	18	18	18
Comoros	14	8	7	9	11
Djibouti	15	16	16	16	19
Egypt	1	1	1	1	1
Iraq	10	14	9	10	12
Jordan	8	3	12	17	20
Kuwait	16	18	19	19	21
Lebanon	20	20	20	20	14
Libya	11	7	6	6	5
Mauritania	9	13	2	5	4
Morocco	4	5	5	8	8
Oman	6	11	10	15	17
Palestine		10	11	4	6
Qatar	12	15	13	12	10
Saudi Arabia	13	12	17	11	13
Somalia	5	9	8	3	3
Sudan					9
Syria	2	4	4	7	7
Tunisia	3	2	3	2	2
UAE	19	19	15	14	16

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 2GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 2GB/30 days per mth, Residential basket, 2018-2022

Results in USD PPP including VAT, 2GB/30 days per mth, Residential results

	2018	2019	2020	2021	2022
Algeria	28.35	23.63	23.63	23.63	23.63
Bahrain	32.90	32.93	33.40	33.40	28.04
Comoros	33.21	23.25	23.25	23.25	23.25
Djibouti	31.08	31.08	31.08	31.08	28.94
Egypt	6.63	6.63	2.79	2.79	2.79
Iraq	21.03	21.03	14.02	14.02	14.02
Jordan	20.20	16.16	20.20	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	88.53	88.53	89.80	88.53	29.33
Libya	33.06	12.33	12.33	7.70	7.70
Mauritania	21.00	21.00	2.10	7.00	7.00
Morocco	10.55	10.55	10.55	10.76	10.55
Oman	25.01	25.01	15.00	25.01	26.26
Palestine	74.13	14.37	16.30	13.04	6.52
Qatar	21.70	21.70	22.80	20.73	21.02
Saudi Arabia	25.18	27.97	32.17	32.17	32.17
Somalia	13.97	13.97	13.97	5.59	5.59
Sudan					14.36
Syria	13.02	13.03	13.03	13.03	13.03
Tunisia	9.06	9.06	7.25	7.25	6.02
UAE	48.92	48.92	44.47	44.47	33.60
Yemen	33.72	33.72	38.47	38.47	17.57
Arab average	29.70	25.73	24.07	24.18	19.10

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	12	13	14	12	13
Bahrain	15	17	17	17	15
Comoros	17	12	13	11	12
Djibouti	13	16	15	14	16
Egypt	1	1	2	1	1
Iraq	8	10	8	9	9
Jordan	6	8	11	16	19
Kuwait	14	18	18	18	21
Lebanon	20	20	20	20	17
Libya	16	4	5	5	6
Mauritania	7	9	1	3	5
Morocco	3	3	4	6	7
Oman	10	14	9	13	14
Palestine		7	10	8	4
Qatar	9	11	12	10	11
Saudi Arabia	11	15	16	15	18
Somalia	5	6	7	2	2
Sudan					10
Syria	4	5	6	7	8
Tunisia	2	2	3	4	3
UAE	18	19	19	19	20

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 5GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 5GB/30 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, residential results

	2018	2019	2020	2021	2022
Algeria	29.54	23.63	23.63	23.63	23.63
Bahrain	32.90	32.93	33.40	33.40	28.04
Comoros	53.37	47.44	47.44	47.44	47.44
Djibouti	31.08	31.08	31.08	31.08	28.94
Egypt	11.64	11.25	6.98	6.98	6.98
Iraq	21.03	21.03	21.03	14.02	14.02
Jordan	24.24	24.24	28.28	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	88.53	88.53	89.80	88.53	29.33
Libya	67.72	13.87	13.87	7.70	7.70
Mauritania	34.99	34.99	3.50	7.00	7.00
Morocco	10.55	10.55	10.55	10.76	10.55
Oman	50.01	50.01	25.01	25.01	26.26
Palestine	185.34	22.69	26.09	25.72	13.04
Qatar	37.31	37.31	41.46	41.46	41.46
Saudi Arabia	36.37	41.96	32.17	51.47	48.25
Somalia	27.94	13.97	13.97	13.97	13.97
Sudan					14.36
Syria	21.44	21.44	21.44	23.17	23.17
Tunisia	13.59	13.59	7.25	7.25	9.41
UAE	59.04	88.44	74.12	74.12	67.20
Yemen	67.35	67.35	75.08	75.08	17.57
Arab average	44.59	35.32	31.67	32.08	24.87

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	8	9	9	9	11
Bahrain	11	12	15	14	13
Comoros	16	17	18	17	19
Djibouti	9	11	13	12	14
Egypt	2	2	2	1	1
Iraq	4	6	7	7	8
Jordan	6	10	12	13	16
Kuwait	10	16	16	15	17
Lebanon	19	20	20	20	15
Libya	18	4	5	4	3
Mauritania	12	13	1	2	2
Morocco	1	1	4	5	5
Oman	15	18	10	10	12
Palestine	20	8	11	11	6
Qatar	14	14	17	16	18
Saudi Arabia	13	15	14	18	20
Somalia	7	5	6	6	7
Sudan					9
Syria	5	7	8	8	10
Tunisia	3	3	3	3	4
UAE	17	19	19	19	21

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 10GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 10GB/30 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, residential results

	2018	2019	2020	2021	2022
Algeria	67.73	23.63	23.63	23.63	23.63
Bahrain	32.90	32.93	33.40	33.40	33.42
Comoros	106.74	47.44	47.44	47.44	47.44
Djibouti	31.08	31.08	31.08	31.08	28.94
Egypt	18.50	18.50	9.78	9.78	9.78
Iraq	29.44	29.44	35.05	21.03	21.03
Jordan	24.24	24.24	28.28	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	149.75	115.31	115.31	113.40	38.79
Libya	125.50	23.11	19.26	15.41	11.55
Mauritania	69.99	69.99	7.00	7.00	7.00
Morocco	21.31	21.31	21.31	21.31	10.55
Oman	100.03	75.02	50.01	50.01	47.26
Palestine	370.67	26.48	29.35	29.35	26.09
Qatar	45.61	45.61	42.04	44.50	44.50
Saudi Arabia	44.06	53.15	63.70	63.70	61.12
Somalia	55.88	27.94	13.97	13.97	13.97
Sudan					14.36
Syria	34.91	34.91	34.91	43.47	43.47
Tunisia	22.65	22.65	7.25	7.25	15.08
UAE	84.33	88.44	88.44	88.44	73.62
Yemen	134.62	100.99	111.68	111.68	35.14
Arab average	76.30	45.60	40.56	40.08	30.71

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	13	5	7	8	9
Bahrain	8	11	11	12	13
Comoros	17	15	16	16	19
Djibouti	6	10	10	10	11
Egypt	1	1	3	3	2
Iraq	5	9	13	6	8
Jordan	4	6	8	11	12
Kuwait	7	13	14	13	14
Lebanon	19	20	20	20	15
Libya	18	4	5	5	4
Mauritania	14	17	1	1	1
Morocco	2	2	6	7	3
Oman	16	18	17	17	18
Palestine	20	7	9	9	10
Qatar	11	14	15	15	17
Saudi Arabia	10	16	18	18	20
Somalia	12	8	4	4	5
Sudan					6
Syria	9	12	12	14	16
Tunisia	3	3	2	2	7
UAE	15	19	19	19	21

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 20GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 20GB/30 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, 20GB/30 days per mth, Residential results

	2018	2019	2020	2021	2022
Algeria	165.40	31.50	47.26	35.44	35.44
Bahrain	53.84	54.46	54.93	43.07	47.37
Comoros	213.49	71.16	71.16	71.16	71.16
Djibouti	31.08	31.08	31.08	31.08	28.94
Egypt	35.26	35.26	16.76	16.76	16.76
Iraq	42.06	42.06	35.13	35.05	35.05
Jordan	28.28	24.24	28.28	32.32	32.32
Kuwait	32.42	45.39	38.90	45.39	36.56
Lebanon	226.27	172.70	115.31	149.75	46.44
Libya	241.05	30.81	26.96	26.96	26.96
Mauritania	71.84	71.84	14.00	7.00	7.00
Morocco	32.08	32.08	32.08	34.23	12.70
Oman	150.04	125.04	100.03	100.03	94.53
Palestine	741.35	35.55	39.13	39.13	42.39
Qatar	82.92	82.92	44.17	66.75	66.75
Saudi Arabia	88.12	58.16	63.70	63.70	63.70
Somalia	83.82	41.91	27.94	27.94	27.94
Sudan					14.36
Syria	57.90	57.90	57.90	58.05	58.05
Tunisia	22.65	22.65	14.50	14.50	22.65
UAE	134.93	187.27	187.27	148.23	137.85
Yemen	269.14	184.90	184.90	184.90	70.28
Arab average	133.52	68.52	58.64	58.64	45.24

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	16	5	13	10	11
Bahrain	8	12	14	12	15
Comoros	17	15	17	17	19
Djibouti	3	4	7	6	8
Egypt	6	7	3	3	4
Iraq	7	10	9	9	10
Jordan	2	2	6	7	9
Kuwait	5	11	10	13	12
Lebanon	18	19	19	20	14
Libya	19	3	4	4	6
Mauritania	10	16	1	1	1
Morocco	4	6	8	8	2
Oman	15	18	18	18	20
Palestine	20	8	11	11	13
Qatar	11	17	12	16	18
Saudi Arabia	13	14	16	15	17
Somalia	12	9	5	5	7
Sudan					3
Syria	9	13	15	14	16
Tunisia	1	1	2	2	5
UAE	14	20	20	19	21

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 50GB DATA/MONTH, RESIDENTIAL



Results for Mobile Broadband: 50GB/30 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, 50GB/30 days per mth, Residential results

	2018	2019	2020	2021	2022
Algeria	413.69	70.88	70.88	59.07	59.07
Bahrain	53.84	63.04	62.18	43.07	47.37
Comoros	533.72	189.77	189.77	189.77	189.77
Djibouti	31.08	31.08	31.08	31.08	48.23
Egypt	91.13	91.13	48.89	48.89	48.89
Iraq	42.06	42.06	35.13	49.07	49.07
Jordan	40.40	40.40	44.44	44.44	44.44
Kuwait	38.90	64.84	38.90	45.39	36.56
Lebanon	455.83	383.13	210.96	264.53	86.62
Libya	587.69	65.58	65.58	38.52	38.52
Mauritania	71.84	71.84	31.50	21.00	14.00
Morocco	76.24	75.34	66.15	68.84	36.38
Oman	250.07	250.07	200.06	200.06	99.78
Palestine	1,853.37	52.20	91.30	55.43	58.69
Qatar	206.42	206.42	44.31	103.65	103.65
Saudi Arabia	88.12	58.16	63.70	63.70	63.70
Somalia	174.62	55.88	41.91	41.91	41.91
Sudan					14.36
Syria	57.90	57.90	57.90	75.30	112.56
Tunisia	181.23	45.31	36.25	36.25	44.86
UAE	187.27	187.27	187.27	187.27	137.85
Yemen	605.46	477.74	477.74	477.74	136.90
Arab average	287.66	122.86	99.80	102.14	68.78

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	16	12	15	12	14
Bahrain	5	9	11	6	9
Comoros	18	17	18	18	21
Djibouti	1	1	1	2	10
Egypt	10	15	9	9	11
Iraq	4	3	3	10	12
Jordan	3	2	8	7	7
Kuwait	2	10	5	8	4
Lebanon	17	20	20	20	16
Libya	19	11	13	4	5
Mauritania	7	13	2	1	1
Morocco	8	14	14	14	3
Oman	15	19	19	19	17
Palestine	20	5	16	11	13
Qatar	14	18	7	16	18
Saudi Arabia	9	8	12	13	15
Somalia	11	6	6	5	6
Sudan					2
Syria	6	7	10	15	19
Tunisia	12	4	4	3	8
UAE	13	16	17	17	20

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING

0.5GB DATA/15 DAYS SHORT VALIDITY, RESIDENTIAL



Results for Mobile Broadband: 0.5GB/15 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, residential results

	2018	2019	2020	2021	2022
Algeria	10.63	10.63	17.72	23.63	23.63
Bahrain	27.52	27.55	28.02	28.02	28.04
Comoros	17.79	6.64	6.64	6.64	6.64
Djibouti	16.61	16.61	16.61	16.61	24.11
Egypt	2.44	2.44	1.40	1.40	1.40
Iraq	16.82	16.82	14.02	14.02	14.02
Jordan	8.08	8.08	8.08	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	38.79	38.79	38.79	38.79	14.03
Libya	21.50	6.16	6.16	6.16	6.16
Mauritania	10.50	10.50	1.05	7.00	2.80
Morocco	10.55	10.55	6.46	6.76	10.55
Oman	10.00	10.00	15.00	15.00	15.00
Palestine	29.50	11.35	11.35	6.52	6.52
Qatar	21.70	21.70	20.73	16.58	12.73
Saudi Arabia	11.75	11.19	32.17	19.30	9.65
Somalia	8.38	8.38	8.38	4.19	4.19
Sudan					5.20
Syria	8.74	8.75	8.75	8.75	8.75
Tunisia	9.06	7.83	4.08	4.08	4.43
UAE	24.71	27.18	24.71	24.71	14.82
Yemen	24.75	22.00	14.51	14.51	17.57
Arab average	17.25	15.64	15.41	15.64	13.60

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	9	11	14	15	17
Bahrain	17	18	17	17	19
Comoros	13	3	6	6	8
Djibouti	11	14	13	13	18
Egypt	1	1	2	1	1
Iraq	12	15	11	10	13
Jordan	2	5	7	18	20
Kuwait	19	20	20	19	21
Lebanon	20	19	19	20	14
Libya	14	2	4	4	6
Mauritania	7	9	1	8	2
Morocco	8	10	5	7	11
Oman	6	8	12	11	16
Palestine		13	10	5	7
Qatar	15	16	15	12	12
Saudi Arabia	10	12	18	14	10
Somalia	3	6	8	3	3
Sudan					5
Syria	4	7	9	9	9
Tunisia	5	4	3	2	4
UAE	16	17	16	16	15

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 1GB DATA/15 DAYS SHORT VALIDITY, RESIDENTIAL



Results for Mobile Broadband: 1GB/15 days per mth, Residential basket, 2018-2022
 Results in USD PPP including VAT, residential results

	2018	2019	2020	2021	2022
Algeria	14.18	11.81	23.63	23.63	23.63
Bahrain	27.52	27.55	28.02	28.02	28.04
Comoros	23.72	11.62	11.62	11.62	11.62
Djibouti	16.61	16.61	16.61	16.61	24.11
Egypt	4.53	4.34	1.40	1.40	1.40
Iraq	19.63	19.63	14.02	14.02	14.02
Jordan	18.18	8.08	18.18	32.32	32.32
Kuwait	32.42	45.39	38.90	33.50	36.56
Lebanon	65.57	65.57	66.85	65.57	21.68
Libya	21.50	6.16	6.16	6.16	6.16
Mauritania	10.50	10.50	1.05	7.00	5.60
Morocco	10.55	10.55	6.46	6.76	10.55
Oman	15.00	15.00	15.00	15.00	15.00
Palestine	37.07	14.37	15.13	6.52	6.52
Qatar	21.70	21.70	20.73	16.58	12.73
Saudi Arabia	23.50	16.78	32.17	19.30	19.30
Somalia	8.38	8.38	8.38	4.19	4.19
Sudan					9.02
Syria	8.74	8.75	8.75	8.75	8.75
Tunisia	9.06	7.83	4.08	4.08	4.53
UAE	48.92	48.92	24.71	24.71	16.80
Yemen	28.92	23.15	24.11	24.11	17.57
Arab average	22.20	19.18	18.38	17.61	15.00

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	7	10	15	15	17
Bahrain	16	17	17	17	19
Comoros	15	9	8	9	10
Djibouti	9	13	12	13	18
Egypt	1	1	2	1	1
Iraq	11	15	9	10	12
Jordan	10	4	13	18	20
Kuwait	17	18	19	19	21
Lebanon	20	20	20	20	16
Libya	12	2	4	4	5
Mauritania	5	7	1	7	4
Morocco	6	8	5	6	9
Oman	8	12	10	11	13
Palestine		11	11	5	6
Qatar	13	16	14	12	11
Saudi Arabia	14	14	18	14	15
Somalia	2	5	6	3	2
Sudan					8
Syria	3	6	7	8	7
Tunisia	4	3	3	2	3
UAE	19	19	16	16	14

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 0.5GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 0.5GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	11.00	9.93	9.93	9.93	9.93
Bahrain	33.65	30.59	30.59	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	2.14	2.14	1.84	1.84	1.84
Iraq	16.82	16.82	14.02	14.02	14.02
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	27.96	34.95	29.78	29.78	10.75
Libya	40.87	90.30	90.30	90.30	90.30
Mauritania	54.30	54.30	1.81	9.05	9.05
Morocco	11.33	10.58	10.58	10.58	10.58
Oman	15.00	23.82	14.29	15.00	15.00
Palestine			8.48		
Qatar	37.31	37.31	37.31	19.23	19.23
Saudi Arabia	27.41	27.41	27.41	27.41	27.41
Somalia	12.70	12.70	12.70	5.08	5.08
Sudan					6.87
Syria	14.45	14.45	14.45	14.45	14.45
Tunisia	16.00	19.04	3.43	3.43	4.95
UAE	83.07	83.07	13.65	13.65	13.65
Yemen	23.88	20.95			
Arab average	42.26	37.50	29.63	33.71	24.35

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	2	2	5	5	6
Bahrain	12	11	15	15	16
Comoros	-	-	-	-	-
Djibouti	17	17	19	18	-
Egypt	1	1	2	1	1
Iraq	8	6	9	8	10
Jordan	-	-	17	14	15
Kuwait	9	9	12	16	17
Lebanon	11	12	14	13	8
Libya	14	16	18	17	18
Mauritania	15	14	1	4	5
Morocco	3	3	6	6	7
Oman	6	8	10	10	12
Palestine		-	4	-	-
Qatar	13	13	16	11	13
Saudi Arabia	10	10	13	12	14
Somalia	4	4	7	3	3
Sudan					4
Syria	5	5	11	9	11
Tunisia	7	7	3	2	2
UAE	16	15	8	7	9

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 1GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 1GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	15.88	9.93	9.93	9.93	9.93
Bahrain	33.65	30.59	30.59	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	3.98	3.74	1.84	1.84	1.84
Iraq	21.03	21.03	14.02	14.02	14.02
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	50.29	59.08	50.29	50.29	16.61
Libya	40.87	90.30	90.30	90.30	90.30
Mauritania	54.30	54.30	1.81	9.05	9.05
Morocco	11.33	10.58	10.58	10.58	10.58
Oman	25.01	23.82	14.29	15.00	15.00
Palestine			11.74		
Qatar	37.31	37.31	37.31	19.23	19.23
Saudi Arabia	27.41	27.41	27.41	27.41	27.41
Somalia	12.70	12.70	12.70	5.08	5.08
Sudan					10.64
Syria	14.45	14.45	14.45	14.45	14.45
Tunisia	16.00	19.04	3.43	3.43	4.95
UAE	83.07	83.07	32.47	32.47	32.47
Yemen	27.54	22.05			
Arab average	44.87	39.23	31.87	35.89	25.93

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	5	2	4	5	5
Bahrain	11	11	13	15	16
Comoros	-	-	-	-	-
Djibouti	17	17	19	18	-
Egypt	1	1	2	1	1
Iraq	7	7	8	7	8
Jordan	-	-	17	14	15
Kuwait	9	9	11	16	17
Lebanon	14	14	16	13	11
Libya	13	16	18	17	18
Mauritania	15	13	1	4	4
Morocco	2	3	5	6	6
Oman	8	8	9	9	10
Palestine		-	6	-	-
Qatar	12	12	15	10	12
Saudi Arabia	10	10	12	11	13
Somalia	3	4	7	3	3
Sudan					7
Syria	4	5	10	8	9
Tunisia	6	6	3	2	2
UAE	16	15	14	12	14

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 2GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 2GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, 2GB/30 days per mth, Business results

	2018	2019	2020	2021	2022
Algeria	22.08	19.86	9.93	9.93	9.93
Bahrain	33.65	30.59	30.59	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	5.81	5.62	2.45	2.94	2.94
Iraq	21.03	21.03	14.02	14.02	14.02
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	67.86	79.76	67.86	67.86	22.47
Libya	40.87	90.30	90.30	90.30	90.30
Mauritania	54.30	54.30	1.81	9.05	9.05
Morocco	11.33	10.58	10.58	10.58	10.58
Oman	50.01	47.63	23.82	23.82	23.82
Palestine			16.96		
Qatar	37.31	37.31	37.31	19.23	19.23
Saudi Arabia	27.41	27.41	27.41	27.41	27.41
Somalia	12.70	12.70	12.70	5.08	5.08
Sudan					10.64
Syria	14.45	14.45	14.45	14.45	14.45
Tunisia	16.00	19.04	6.09	6.09	8.00
UAE	83.07	83.07	36.01	36.01	35.29
Yemen	32.12	32.12			
Arab average	47.94	42.92	33.93	37.77	27.13

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	7	6	4	5	5
Bahrain	10	10	13	14	16
Comoros	-	-	-	-	-
Djibouti	17	17	19	18	-
Egypt	1	1	2	1	1
Iraq	6	7	7	7	8
Jordan	-	-	16	13	15
Kuwait	8	8	11	15	17
Lebanon	15	14	17	16	11
Libya	12	16	18	17	18
Mauritania	14	13	1	4	4
Morocco	2	2	5	6	6
Oman	13	12	10	10	12
Palestine		-	9	-	-
Qatar	11	11	15	9	10
Saudi Arabia	9	9	12	11	13
Somalia	3	3	6	2	2
Sudan					7
Syria	4	4	8	8	9
Tunisia	5	5	3	3	3
UAE	16	15	14	12	14

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 5GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 5GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	34.75	19.86	9.93	9.93	9.93
Bahrain	37.68	57.31	58.88	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	12.04	11.27	3.80	5.64	5.64
Iraq	21.03	21.03	21.03	14.02	14.02
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	67.86	79.76	67.86	67.86	22.47
Libya	159.19	90.30	90.30	90.30	90.30
Mauritania	61.54	61.54	3.02	9.05	9.05
Morocco	11.33	10.58	10.58	10.58	10.58
Oman	85.02	61.92	47.63	23.82	23.82
Palestine			50.87		
Qatar	37.31	37.31	37.31	19.23	19.23
Saudi Arabia	36.37	36.37	39.16	27.97	27.97
Somalia	25.40	12.70	12.70	12.70	12.70
Sudan					10.64
Syria	23.17	17.47	17.47	17.47	17.47
Tunisia	16.00	19.04	6.09	6.09	11.42
UAE	106.60	105.19	56.00	56.00	56.00
Yemen	64.15	64.15			
Arab average	62.91	49.58	40.79	39.65	29.24

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	8	6	4	4	3
Bahrain	11	11	16	14	16
Comoros	-	-	-	-	-
Djibouti	17	17	19	18	-
Egypt	2	2	2	1	1
Iraq	4	7	8	7	8
Jordan	-	-	14	12	14
Kuwait	7	8	9	15	17
Lebanon	13	14	17	16	11
Libya	16	15	18	17	18
Mauritania	12	12	1	3	2
Morocco	1	1	5	5	4
Oman	14	13	12	10	12
Palestine		-	13	-	-
Qatar	10	10	10	9	10
Saudi Arabia	9	9	11	11	13
Somalia	6	3	6	6	7
Sudan					5
Syria	5	4	7	8	9
Tunisia	3	5	3	2	6
UAE	15	16	15	13	15

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 10GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 10GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	49.64	19.86	19.86	19.86	19.86
Bahrain	37.68	57.31	58.88	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	18.68	18.68	9.31	9.31	9.31
Iraq	29.44	29.44	35.05	21.03	21.03
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	107.92	103.88	88.37	88.37	29.78
Libya	356.40	90.30	90.30	90.30	90.30
Mauritania	61.93	72.40	6.03	9.05	9.05
Morocco	17.76	17.76	17.76	17.76	17.76
Oman	120.03	114.32	71.45	23.82	23.82
Palestine			84.78		
Qatar	45.61	45.61	42.04	37.89	37.89
Saudi Arabia	44.76	44.76	55.39	55.39	55.39
Somalia	50.80	25.40	12.70	12.70	12.70
Sudan					10.64
Syria	28.88	23.17	23.17	23.17	23.17
Tunisia	16.00	19.04	6.09	6.09	19.04
UAE	106.60	105.19	76.01	76.01	75.29
Yemen	128.21	96.18			
Arab average	86.29	59.44	49.45	46.32	35.57

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	10	4	6	6	7
Bahrain	7	11	13	13	15
Comoros	-	-	-	-	-
Djibouti	16	17	19	18	-
Egypt	3	2	3	3	2
Iraq	6	8	9	7	8
Jordan	-	-	12	12	14
Kuwait	4	7	8	14	16
Lebanon	14	14	17	16	11
Libya	17	13	18	17	18
Mauritania	12	12	1	2	1
Morocco	2	1	5	5	5
Oman	15	16	14	9	10
Palestine		-	16	-	-
Qatar	9	10	10	10	12
Saudi Arabia	8	9	11	11	13
Somalia	11	6	4	4	4
Sudan					3
Syria	5	5	7	8	9
Tunisia	1	3	2	1	6
UAE	13	15	15	15	17

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 20GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 20GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	69.49	28.96	23.83	23.83	23.83
Bahrain	37.68	57.31	58.88	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	30.42	30.08	18.38	18.38	18.38
Iraq	42.06	42.06	42.06	35.05	35.05
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	163.07	103.88	103.88	103.88	34.94
Libya	750.80	90.30	90.30	90.30	90.30
Mauritania	61.93	72.40	12.07	9.05	9.05
Morocco	21.53	21.53	21.53	21.53	17.76
Oman	245.07	233.40	119.08	23.82	23.82
Palestine			169.56		
Qatar	93.28	83.50	62.19	62.19	62.19
Saudi Arabia	44.76	44.76	55.95	55.95	55.95
Somalia	76.20	38.10	25.40	25.40	25.40
Sudan					10.64
Syria	40.61	40.61	40.61	40.61	40.61
Tunisia	19.20	19.04	12.18	12.18	19.04
UAE	188.95	188.95	117.17	117.17	117.17
Yemen	256.33	192.27			
Arab average	137.46	81.88	63.97	54.57	42.74

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	10	4	5	6	7
Bahrain	5	10	12	12	15
Comoros	-	-	-	-	-
Djibouti	16	15	18	18	-
Egypt	4	5	3	3	4
Iraq	7	8	9	8	10
Jordan	-	-	10	10	12
Kuwait	3	3	7	14	16
Lebanon	13	14	15	16	9
Libya	17	13	14	15	17
Mauritania	9	11	1	1	1
Morocco	2	2	4	4	3
Oman	15	17	17	5	6
Palestine		-	19	-	-
Qatar	12	12	13	13	14
Saudi Arabia	8	9	11	11	13
Somalia	11	6	6	7	8
Sudan					2
Syria	6	7	8	9	11
Tunisia	1	1	2	2	5
UAE	14	16	16	17	18

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 50GB DATA/MONTH, BUSINESS



Results for Mobile Broadband: 50GB/30 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	129.06	59.57	49.64	49.64	49.64
Bahrain	37.68	57.31	84.79	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	103.94	86.54	18.38	30.63	30.63
Iraq	42.06	42.06	42.06	70.10	70.10
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	328.52	190.06	190.06	190.06	62.51
Libya	1,934.02	128.82	128.82	128.82	128.82
Mauritania	61.93	72.40	30.17	9.05	9.05
Morocco	63.53	62.79	55.13	57.37	35.70
Oman	395.11	376.30	309.61	23.82	23.82
Palestine			423.89		
Qatar	169.70	103.65	114.01	114.01	114.01
Saudi Arabia	55.95	55.95	67.14	55.95	55.95
Somalia	158.74	50.80	38.10	38.10	38.10
Sudan					10.64
Syria	954.91	52.34	52.34	52.34	52.34
Tunisia		114.22	30.46	30.46	38.07
UAE	330.12	330.12	165.42	165.42	164.70
Yemen	576.62	480.53			
Arab average	333.81	136.12	107.50	75.49	59.40

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	8	7	7	6	8
Bahrain	2	6	12	11	13
Comoros	-	-	-	-	-
Djibouti	11	14	15	16	-
Egypt	7	10	1	4	4
Iraq	3	2	6	13	15
Jordan	-	-	10	8	10
Kuwait	1	1	2	12	14
Lebanon	12	15	17	18	12
Libya	16	13	14	15	17
Mauritania	5	9	3	1	1
Morocco	6	8	9	10	5
Oman	14	17	18	2	3
Palestine		-	19	-	-
Qatar	10	11	13	14	16
Saudi Arabia	4	5	11	9	11
Somalia	9	3	5	5	7
Sudan					2
Syria	15	4	8	7	9
Tunisia	-	12	4	3	6
UAE	13	16	16	17	18

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 0.5GB DATA/15 DAYS SHORT VALIDITY, BUSINESS



Results for Mobile Broadband: 0.5GB/15 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	11.00	9.93	9.93	9.93	9.93
Bahrain	33.65	30.59	30.59	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	2.14	2.14	1.84	1.84	1.84
Iraq	16.82	16.82	14.02	14.02	14.02
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	27.96	34.95	29.78	29.78	10.75
Libya	40.87	90.30	90.30	90.30	90.30
Mauritania	27.15	27.15	0.91	9.05	9.05
Morocco	11.33	10.58	10.58	10.58	10.58
Oman	15.00	23.82	14.29	15.00	15.00
Palestine			8.48		
Qatar	37.31	37.31	20.73	19.23	19.23
Saudi Arabia	27.41	27.41	27.41	27.41	27.41
Somalia	7.62	7.62	7.62	3.81	3.81
Sudan					6.87
Syria	14.45	14.45	14.45	14.45	14.45
Tunisia	16.00	19.04	3.43	3.43	4.95
UAE	83.07	83.07	13.65	13.65	13.65
Yemen	23.88	20.95			
Arab average	40.47	35.71	28.44	33.64	24.28

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	3	3	6	5	6
Bahrain	13	12	16	15	16
Comoros	-	-	-	-	-
Djibouti	17	17	19	18	-
Egypt	1	1	2	1	1
Iraq	8	6	9	8	10
Jordan	-	-	17	14	15
Kuwait	9	9	13	16	17
Lebanon	12	13	15	13	8
Libya	15	16	18	17	18
Mauritania	10	10	1	4	5
Morocco	4	4	7	6	7
Oman	6	8	10	10	12
Palestine	-		5	-	-
Qatar	14	14	12	11	13
Saudi Arabia	11	11	14	12	14
Somalia	2	2	4	3	2
Sudan					4
Syria	5	5	11	9	11
Tunisia	7	7	3	2	3
UAE	16	15	8	7	9

Least expensive
 Most expensive

OECD MOBILE BROADBAND BASKETS RANKING 1GB DATA/15 DAYS SHORT VALIDITY, BUSINESS



Results for Mobile Broadband: 1GB/15 days per mth, Business basket, 2018-2022
 Results in USD PPP excluding VAT, business results

	2018	2019	2020	2021	2022
Algeria	15.88	9.93	9.93	9.93	9.93
Bahrain	33.65	30.59	30.59	61.67	64.60
Comoros					
Djibouti	306.92	160.77	160.77	160.77	
Egypt	3.98	3.74	1.84	1.84	1.84
Iraq	19.63	19.63	14.02	14.02	14.02
Jordan			55.73	55.73	55.73
Kuwait	25.93	25.93	25.93	64.84	64.84
Lebanon	50.29	59.08	50.29	50.29	16.61
Libya	40.87	90.30	90.30	90.30	90.30
Mauritania	27.15	27.15	0.91	9.05	9.05
Morocco	11.33	10.58	10.58	10.58	10.58
Oman	25.01	23.82	14.29	15.00	15.00
Palestine			11.74		
Qatar	37.31	37.31	20.73	19.23	19.23
Saudi Arabia	27.41	27.41	27.41	27.41	27.41
Somalia	7.62	7.62	7.62	3.81	3.81
Sudan					8.25
Syria	14.45	14.45	14.45	14.45	14.45
Tunisia	16.00	19.04	3.43	3.43	4.95
UAE	83.07	83.07	32.47	32.47	32.47
Yemen	27.54	22.05			
Arab average	43.00	37.36	30.69	35.82	25.73

Below Arab average
 Above Arab average

Ranking from cheapest to most expensive, 2018-2022

	2018	2019	2020	2021	2022
Algeria	5	3	5	5	6
Bahrain	12	12	14	15	16
Comoros	-	-	-	-	-
Djibouti	17	17	19	18	-
Egypt	1	1	2	1	1
Iraq	7	7	8	7	8
Jordan	-	-	17	14	15
Kuwait	9	9	12	16	17
Lebanon	15	14	16	13	11
Libya	14	16	18	17	18
Mauritania	10	10	1	4	5
Morocco	3	4	6	6	7
Oman	8	8	9	9	10
Palestine			7	-	-
Qatar	13	13	11	10	12
Saudi Arabia	11	11	13	11	13
Somalia	2	2	4	3	2
Sudan					4
Syria	4	5	10	8	9
Tunisia	6	6	3	2	3
UAE	16	15	15	12	14

Least expensive
 Most expensive

OBSERVATIONS FROM MOBILE BROADBAND TIME SERIES RESULTS

- There have been price and service changes for several Arab providers since 2021, with revisions of portfolios and changes to data allowances. Note, however, that several providers did not make changes that had any impact on the basket cost. The table below shows the overall shift in the Arab average for each basket and speed category, for both residential and business services, along with the change in the average percentage, with the general cost trend being downwards across all residential and business baskets.
- The residential basket averages have fallen between 13% and 33% since 2021. For business services, the reduction in average has been much more consistent across the baskets and is between 21% and 28%.
- The change in average can be impacted by various factors in addition to tariff changes, such as countries publishing data where they hadn't previously, or vice versa, however, the reduction in the cost of mobile data across the Arab countries, is one seen in global markets. The 'reduction' is often driven by an increase in allowances rather than a reduction in rentals, thus allowing mobile operators to better maintain revenues across existing subscribers.

Change in overall average 2021-2022	Residential	Business	Residential	Business
0.5 GB	↓	↓	-14%	-28%
1 GB	↓	↓	-17%	-28%
2 GB	↓	↓	-21%	-28%
5 GB	↓	↓	-22%	-26%
10 GB	↓	↓	-23%	-23%
20 GB	↓	↓	-23%	-22%
50 GB	↓	↓	-33%	-21%
0.5 GB short validity	↓	↓	-13%	-28%
1 GB short validity	↓	↓	-15%	-28%

Leased line basket results 2022

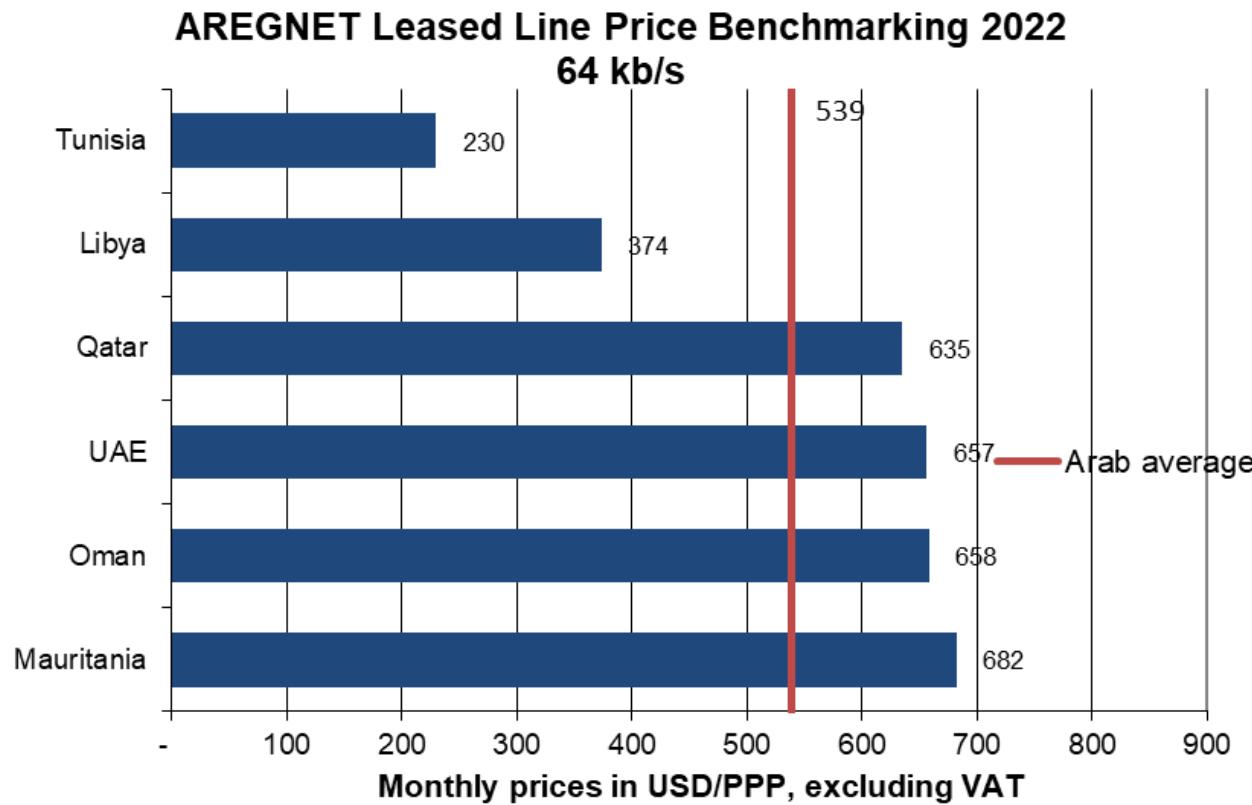
OECD LEASED LINE BASKET, 2010 DEFINITIONS

- The leased line 2010 baskets were unchanged in the 2017 OECD review, and the 2010 baskets defined in 2010 are still current
- Prices for 2 Mb/s and 34 Mb/s national circuits
- 6 specific distances are used:
 - 2 km, 20 km, 50 km, 100 km, 200 km and 500 km
- Each distance is weighted in order to calculate a **weighted average price for one circuit** as follows:

National Distance	2km	20km	50km	100km	200km	500km	Total
64 kb/s	50%	18%	6%	8%	10%	8%	100%
2 Mb/s	50%	18%	6%	8%	10%	8%	100%
34 Mb/s	42%	18%	15%	9%	8%	8%	100%

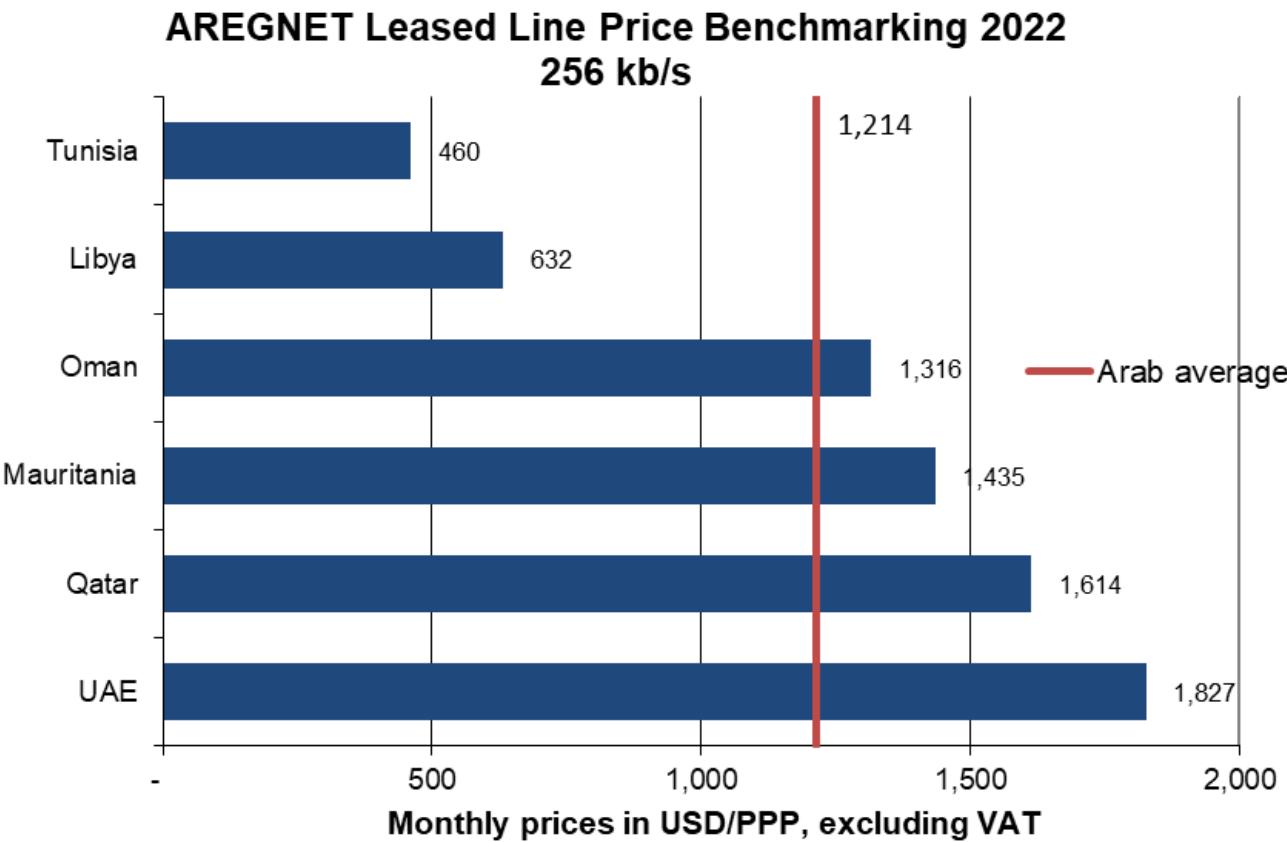
- The 2 bitrates are calculated and reported separately.
- Where the distances in the basket go beyond the country borders, the weights of those distances are attributed to the longest available tariff zone.
 - For example: In Bahrain, a 2 Mb/s circuit costs BD 630 regardless of distance. The longest possible circuit distance in Bahrain is approximately 50 km. But the weights for 100 km (8%), 200 km (10%) and 500 km (8%) are still applied to this price as the price for the longest possible circuit in order to cover 100%.
 - This may bias the results for small countries with distance-sensitive prices in the sense that a relatively higher proportion of the circuits will be at maximum cost
 - Small countries with no distance pricing will be favoured by this scheme.
- For the Arab country price benchmarking three more bitrates are added, to the extent they are offered in the countries concerned:
 - 64 kb/s (formerly used in the OECD 2006 baskets) and 256 kb/s in order to cover a wider range of services relevant for the region, and 155 Mb/s to show the potential for future development.
 - The calculations for these speeds use the same weighted average price as for 2 Mb/s and 34 Mb/s respectively

- No price data available for:
 - Comoros
 - Djibouti
 - Egypt
 - Iraq
 - Jordan
 - Morocco
 - Palestine
 - Saudi Arabia
 - Somalia
 - Syria
 - Yemen
- Other countries may have data missing for specific bitrates



Note: No equivalent OECD data exists.

256KB/S OECD LEASED LINE BASKET RESULTS



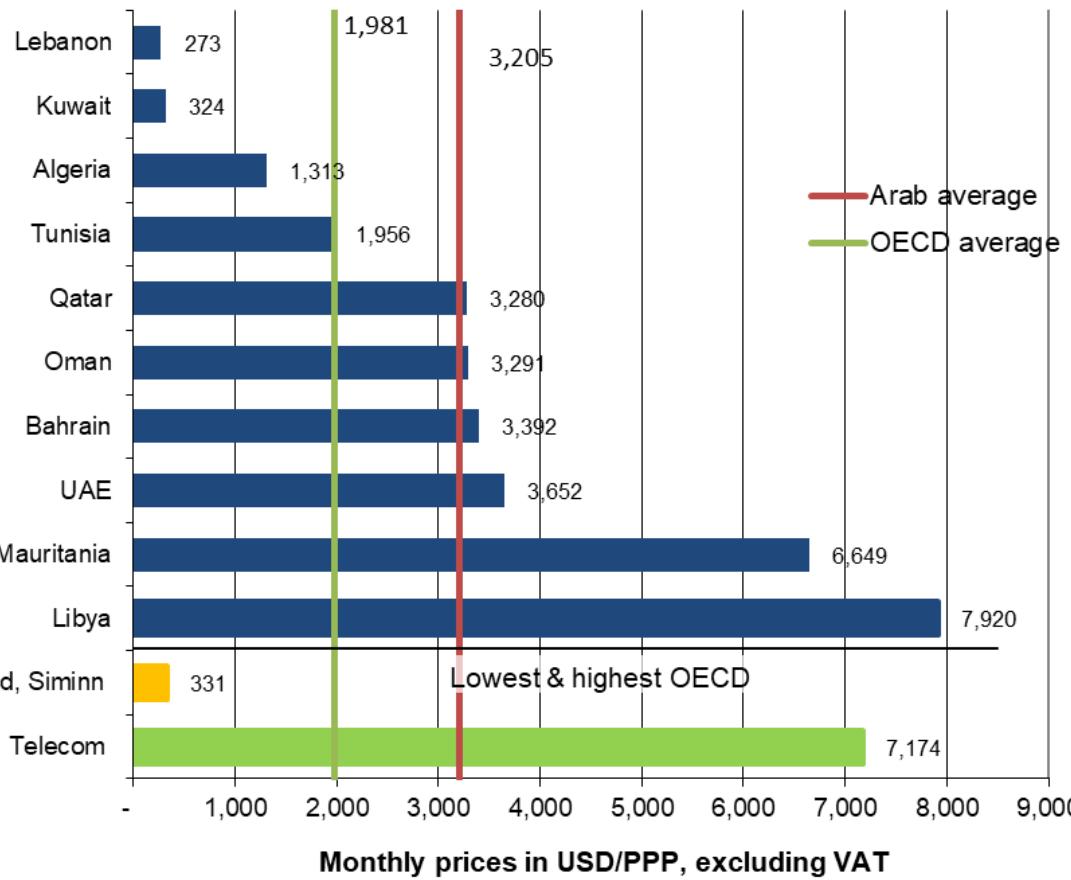
The OECD basket does not cover 256 kb/s; however, the standard 2010 methodology has been applied to 256 kb/s circuits for the Arab countries

Note: No equivalent OECD data exists.

2 MB/S OECD LEASED LINE BASKET RESULTS

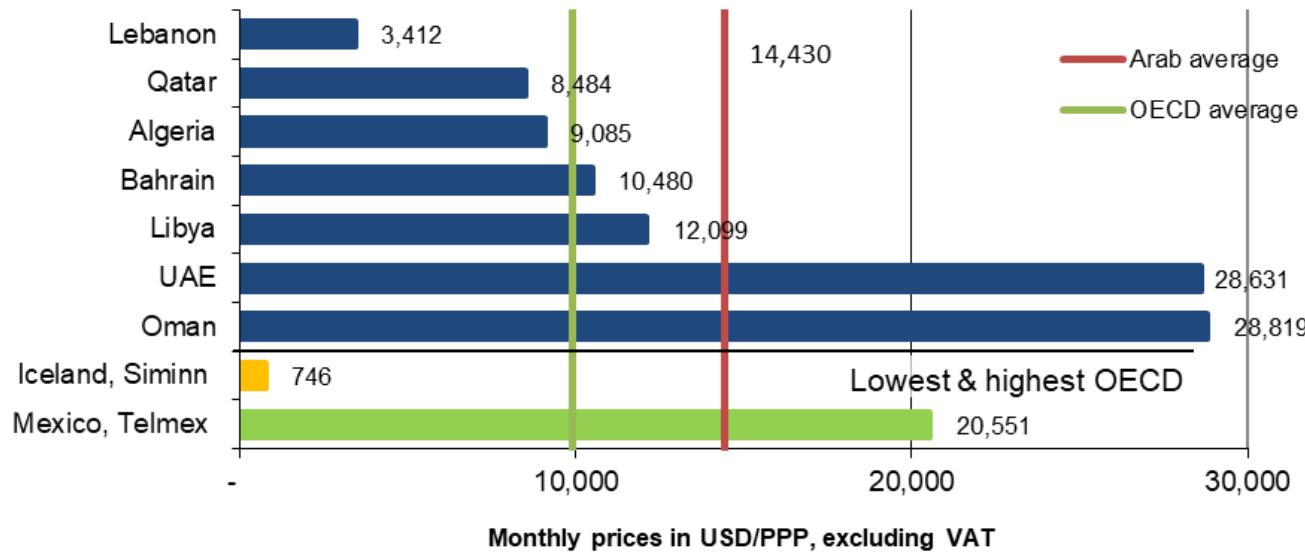


AREGNET Leased Line Price Benchmarking 2022
OECD 2017: 2 Mb/s



The OECD data shown represents the lowest and highest prices found in OECD countries, and the average price across all 34 OECD countries.

AREGNET Leased Line Price Benchmarking 2022 OECD 2017: 34 Mb/s

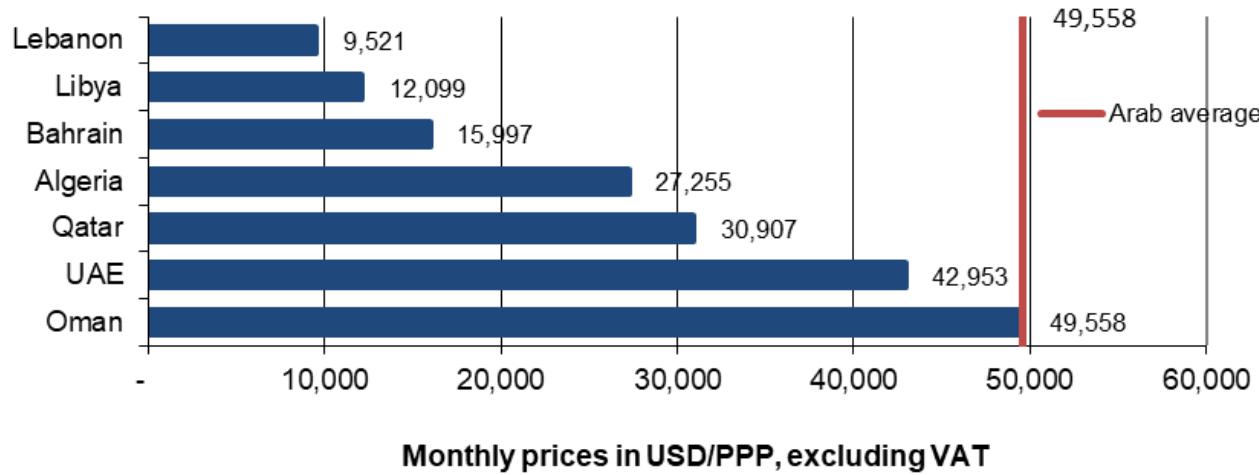


The OECD data shown represents the lowest and highest prices found in OECD countries, and the average price across all 34 OECD countries.

Only a few of the Arab countries publish these prices. The service may still be offered, though.

155 MB/S OECD LEASED LINE BASKET RESULTS

AREGNET Leased Line Price Benchmarking 2021 155 Mb/s



Only a few of the Arab countries publish these prices. The service may still be offered, though.

The OECD basket does not cover 155 Mb/s; however, the standard 2010 methodology has been applied to 155 Mb/s circuits for the Arab countries

Note: No equivalent OECD data exists.

OBSERVATIONS FROM LEASED LINE RESULTS

- The number of Arab countries publishing leased line pricing has changed slightly since 2021, as shown in the table below, as a result of the addition of 34 Mb/s and 155 Mb/s pricing for Libya.

# countries publishing prices	2021	2022
64 kb/s	6	6
256 kb/s	6	6
2 Mb/s	10	10
34 Mb/s	6	7
155 Mb/s	6	7

- For 2 Mb/s, four countries are below the OECD average: Lebanon, Kuwait, Algeria and Tunisia. Tunisia falls just below the OECD average.
- For 34 Mb/s, three countries are below the OECD average: Lebanon, Qatar and Algeria. Bahrain is slightly higher than the OECD average.
- Many of the Arab countries are quite small in size and this price comparison may give advantage to the tariff structure used in these small countries.
 - i.e. the reality may be worse than the result shown here.

Leased line time series analysis and ranking tables 2018–2022

OECD LEASED LINE BASKETS RANKING, 64 KB/S



Total results for 64 kb/s leased line basket

Results in US\$PPP excluding VAT

	2017	2018	2020	2021	2022
Algeria					
Bahrain	700	700			
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon	528				
Libya					374
Mauritania	682	682	682	682	682
Morocco					
Oman	658	658	658	658	658
Palestine					
Qatar	635	635	635	635	635
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia	230	230	230	230	230
UAE	657	657	657	657	657
Yemen					
Arab average	584	594	573	573	539

Below Arab average
 Above Arab average

Ranking for 64 kb/s leased line basket

	2017	2018	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	7	6	-	-	-
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq	-	-	-	-	-
Jordan	-	-	-	-	-
Kuwait	-	-	-	-	-
Lebanon	2	-	-	-	-
Libya	-	-	-	-	2
Mauritania	6	5	5	5	6
Morocco	-	-	-	-	-
Oman	5	4	4	4	5
Palestine	-	-	-	-	-
Qatar	3	2	2	2	3
Saudi Arabia	-	-	-	-	-
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	1	1	1	1	1
UAE	4	3	3	3	4
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD LEASED LINE BASKETS RANKING, 256 KB/S



Total results for 256 kb/s leased line basket

Results in US\$PPP excluding VAT

	2017	2018	2020	2021	2022
Algeria					
Bahrain	1,346	1,346			
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon	528				
Libya					632
Mauritania	1,435	1,435	1,435	1,435	1,435
Morocco					
Oman	1,316	1,316	1,316	1,316	1,316
Palestine					
Qatar	1,614	1,614	1,614	1,614	1,614
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia	460	460	460	460	460
UAE	1,827	1,827	1,827	1,827	1,827
Yemen					
Arab average	1,218	1,333	1,331	1,331	1,214

Below Arab average
 Above Arab average

Ranking for 256 kb/s leased line basket

	2017	2018	2020	2021	2022
Algeria	-	-	-	-	-
Bahrain	4	3	-	-	-
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq	-	-	-	-	-
Jordan	-	-	-	-	-
Kuwait	-	-	-	-	-
Lebanon	2	-	-	-	-
Libya	-	-	-	-	2
Mauritania	5	4	3	3	4
Morocco	-	-	-	-	-
Oman	3	2	2	2	3
Palestine	-	-	-	-	-
Qatar	6	5	4	4	5
Saudi Arabia	-	-	-	-	-
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	1	1	1	1	1
UAE	7	6	5	5	6
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD LEASED LINE BASKETS RANKING, 2 MB/S



Total results for OECD 2 Mb/s leased line basket

Results in US\$PPP excluding VAT

	2017	2018	2020	2021	2022
Algeria	1,624	1,313	1,313	1,313	1,313
Bahrain	4,791	4,791	3,392	3,392	3,392
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait		324	324	324	324
Lebanon	1,133	273	273	273	273
Libya					7,920
Mauritania	6,649	6,649	6,649	6,649	6,649
Morocco					
Oman	3,291	3,291	3,291	3,291	3,291
Palestine					
Qatar	3,280	3,280	3,280	3,280	3,280
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia	1,956	1,956	1,956	1,956	1,956
UAE	3,652	3,652	3,652	3,652	3,652
Yemen					
Arab average	3,297	2,837	2,681	2,681	3,205

Below Arab average
 Above Arab average

Ranking for OECD 2 Mb/s leased line basket

	2017	2018	2020	2021	2022
Algeria	2	3	3	3	3
Bahrain	7	8	7	7	7
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq	-	-	-	-	-
Jordan	-	-	-	-	-
Kuwait	-	2	2	2	2
Lebanon	1	1	1	1	1
Libya	-	-	-	-	10
Mauritania	8	9	9	9	9
Morocco	-	-	-	-	-
Oman	5	6	6	6	6
Palestine	-	-	-	-	-
Qatar	4	5	5	5	5
Saudi Arabia	-	-	-	-	-
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	3	4	4	4	4
UAE	6	7	8	8	8
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD LEASED LINE BASKETS RANKING, 34 MB/S



Total results for OECD 34 Mb/s leased line basket

Results in US\$PPP excluding VAT

	2017	2018	2020	2021	2022
Algeria	14,726	9,085	9,085	9,085	9,085
Bahrain			10,480	10,480	10,480
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon		3,412	3,412	3,412	3,412
Libya					
Mauritania					
Morocco					
Oman	28,819	28,819	28,819	28,819	28,819
Palestine					
Qatar	8,484	8,484	8,484	8,484	8,484
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE	28,631	28,631	28,631	28,631	28,631
Yemen					
Arab average	20,165	15,686	14,819	14,819	14,819

Below Arab average
 Above Arab average

Ranking for OECD 34 Mb/s leased line basket

	2017	2018	2020	2021	2022
Algeria	2	3	3	3	3
Bahrain	-	-	4	4	4
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq	-	-	-	-	-
Jordan	-	-	-	-	-
Kuwait	-	-	-	-	-
Lebanon	-	1	1	1	1
Libya	-	-	-	-	-
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	4	5	6	6	6
Palestine	-	-	-	-	-
Qatar	1	2	2	2	2
Saudi Arabia	-	-	-	-	-
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE	3	4	5	5	5
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OECD LEASED LINE BASKETS RANKING, 155 MB/S



Total results for 155 Mb/s leased line basket
Results in US\$PPP excluding VAT

	2017	2018	2020	2021	2022
Algeria	26,429	27,255	27,255	27,255	27,255
Bahrain			15,997	15,997	15,997
Comoros					
Djibouti					
Egypt					
Iraq					
Jordan					
Kuwait					
Lebanon		9,521	9,521	9,521	9,521
Libya					12,099
Mauritania					
Morocco					
Oman	49,558	49,558	49,558	49,558	49,558
Palestine					
Qatar	30,907	30,907	30,907	30,907	30,907
Saudi Arabia					
Somalia					
Sudan					
Syria					
Tunisia					
UAE	42,953	42,953	42,953	42,953	42,953
Yemen					
Arab average	37,462	32,039	29,365	29,365	26,899

Below Arab average
 Above Arab average

Ranking for 155 Mb/s leased line basket

	2017	2018	2020	2021	2022
Algeria	1	2	3	3	4
Bahrain	-	-	2	2	3
Comoros	-	-	-	-	-
Djibouti	-	-	-	-	-
Egypt	-	-	-	-	-
Iraq	-	-	-	-	-
Jordan	-	-	-	-	-
Kuwait	-	-	-	-	-
Lebanon	-	1	1	1	1
Libya	-	-	-	-	2
Mauritania	-	-	-	-	-
Morocco	-	-	-	-	-
Oman	4	5	6	6	7
Palestine	-	-	-	-	-
Qatar	2	3	4	4	5
Saudi Arabia	-	-	-	-	-
Somalia	-	-	-	-	-
Sudan	-	-	-	-	-
Syria	-	-	-	-	-
Tunisia	-	-	-	-	-
UAE	3	4	5	5	6
Yemen	-	-	-	-	-

Least expensive
 Most expensive

OBSERVATIONS FROM LEASED LINE TIME SERIES RESULTS

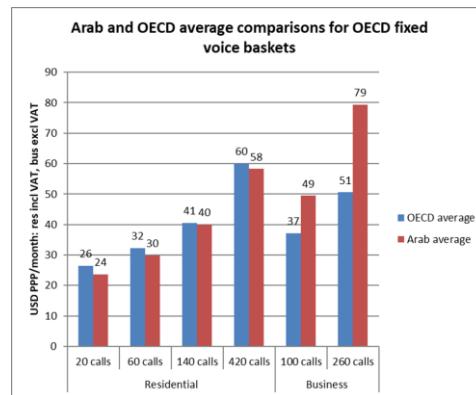
- Leased line prices were not reported in 2019 but were re-introduced in 2020. As a result, the time series runs for an extra year, from 2017-2022
- Prices have been generally stable over time with either no or only occasional changes to prices by operators.
- From 2021 to 2022, Libya introduced prices, which impacted the 2022 average. Other than that, there were no changes to leased line pricing.
- Due to the devaluation of the Sudanese currency in 2021, the inclusion of historical pricing produces distorted results, and historic pricing for Sudan has been removed, which has impacted the average, to some degree.
- The average price changes for each basket between 2020/2021 and 2021/2022 are shown in the table below

	2020-2021	2021-2022
64 kb/s	0.0%	-5.8%
256 kb/s	0.0%	-8.8%
2 Mb/s	0.0%	19.5%
34 Mb/s	0.0%	0.0%
155 Mb/s	0.0%	-8.4%

Summary of the main findings from the benchmarking study

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED VOICE TELEPHONY (1)

- The graph below shows a comparison of Arab and OECD average costs.



- The trend from previous updates continues for residential services. A large proportion of countries are either below the OECD average, or are on par with it, and the Arab average is consistently below that of the OECD average. Consequently, at this level of usage, the Arab average is below that of the OECD, between 3-11% cheaper.
- For business services, The position is reversed, with a large proportion of countries above the OECD average, and the Arab average is consistently higher than that of the OECD, 33% for the 100 calls basket and 57% for the 260 calls basket.
- A number of Arab countries continue to have fixed costs well below the OECD countries, causing the usage element to dominate. This makes the overall cost grow quicker with increasing usage, something that will discourage growth in usage. In some Arab countries, however, both fixed and usage costs are much higher than OECD countries.
- Average costs across almost all residential and business baskets have changed from the previous year, but the changes have been very small, as shown below. The biggest change was seen for the 100 calls business basket, which saw a modest 3% decline in the average cost.

Change in overall average

2021-2022

20 calls residential	↑	0%
60 calls residential	↑	0%
140 calls residential	↓	0%
420 calls residential	↓	0%
100 calls business	↓	-3%
260 calls business	↓	0%

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED VOICE TELEPHONY (2)

		Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average
Fixed voice Residential	20 calls	24	26	 -11%
	60 calls	30	32	 -8%
	140 calls	40	41	 -2%
	420 calls	58	60	 -3%
Fixed voice Business	100 calls	49	37	 33%
	260 calls	79	51	 57%

Residential prices include VAT, business prices exclude VAT

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: MOBILE VOICE TELEPHONY (1)

- The Arab average is consistently higher than the OECD average. For lower usage baskets, the difference between OECD average and Arab average is relatively small in real terms, while for higher usage baskets the Arab average is significantly more expensive than the OECD average. The Arab average is impacted by some very expensive countries, particularly for higher usage

	USD PPP/month inc VAT	
	OECD average	Arab average
30 calls no data	9	10
100 calls no data	14	19
30 calls, 0.1 GB	13	16
100 calls, 0.5 GB	17	27
300 calls, 1 GB	20	48
900 calls, 2 GB	23	122
30 calls, 0.5 GB	14	19
100 calls, 2 GB	19	29
300 calls, 5 GB	24	57
900 calls, 10 GB	31	130

	% that Arab average is higher or lower than OECD average
30 calls no data	16.0%
100 calls no data	37%
30 calls, 0.1 GB	29%
100 calls, 0.5 GB	59%
300 calls, 1 GB	139%
900 calls, 2 GB	427%
30 calls, 0.5 GB	42%
100 calls, 2 GB	51%
300 calls, 5 GB	135%
900 calls, 10 GB	321%

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: MOBILE VOICE TELEPHONY (2)

- Over the period 2021 to 2022, the overall change is one of decreasing prices, across all usage baskets. This is consistent with the trend seen in many markets globally, where mobile allowances are consistently increasing, resulting in a cost decrease in many baskets.
- Most providers made changes to mobile pricing, and in particular to data allowances

Change in overall average

2021-2022

30 calls no data	↓	-20%
100 calls no data	↓	-22%
30 calls, 0.1 GB	↓	-21%
100 calls, 0.5 GB	↓	-14%
300 calls, 1 GB	↓	-16%
900 calls, 2 GB	↓	-22%
30 calls, 0.5 GB	↓	-9%
100 calls, 2 GB	↓	-26%
300 calls, 5 GB	↓	-23%
900 calls, 10 GB	↓	-26%

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: MOBILE VOICE TELEPHONY (3)

		Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average
No data	30 calls no data	10	9	 16%
	100 calls no data	19	14	 37%
Low data	30 calls, 0.1 GB	16	13	 29%
	100 calls, 0.5 GB	27	17	 59%
	300 calls, 1 GB	48	20	 139%
	900 calls, 2 GB	122	23	 427%
High data	30 calls, 0.5 GB	19	14	 42%
	100 calls, 2 GB	29	19	 51%
	300 calls, 5 GB	57	24	 135%
	900 calls, 10 GB	130	31	 321%

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED BROADBAND INCUMBENT (1)

- Only the incumbent provider is considered in this analysis. The next slide considers the per country results when up to 3 ISPs per country are considered. Note: Not all countries covered in the study have published prices for 3 ISPs.
- Below is a comparison of the Arab and OECD averages for each of the baskets considered. The average Arab residential cost is still considerably higher than the OECD average, up to 4.6 times higher for the highest speed basket. For business services, the average is up to 9 times higher.
 - The residential figure continues to be skewed by particularly high costs in several countries, in particular, Mauritania, Lebanon and Syria. For business services, the Arab average is heavily skewed by a number of countries, including Comoros and Djibouti.

Residential	USD PPP/month inc VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	39	65
>= 10 Mb/s / 30 GB	39	133
>= 25 Mb/s / 60 GB	42	119
>= 100 Mb/s / 120 GB	46	203
>= 1000 Mb/s / 300 GB	89	409

Business	USD PPP/month excl VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	41	117
>= 10 Mb/s / 30 GB	42	374
>= 25 Mb/s / 60 GB	45	398
>= 100 Mb/s / 120 GB	54	470
>= 1000 Mb/s / 300 GB	95	967

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED BROADBAND (UP TO 3 ISPS) (2)

- Additional ISPs are considered within this analysis – with up to 3 ISPs per country, where pricing is available. This is in line with the OECD methodology, which considers up to the 3 main providers in each country. The addition of these extra providers changes the results somewhat.
- Below is a comparison of the Arab and OECD averages for each of the baskets considered. The average Arab residential cost is still considerably higher than the OECD average, up to 5 times higher for the highest speed basket. For business services, the average is up to 9.5 times higher.
 - The consideration of additional providers reduces the Arab average cost, but also reduces the OECD average cost.

Residential	USD PPP/month inc VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	32	56
>= 10 Mb/s / 30 GB	32	86
>= 25 Mb/s / 60 GB	34	102
>= 100 Mb/s / 120 GB	39	193
>= 1000 Mb/s / 300 GB	60	279

Business	USD PPP/month excl VAT	
	OECD average	Arab average
>= 0.25 Mb/s / 15 GB	33	90
>= 10 Mb/s / 30 GB	33	310
>= 25 Mb/s / 60 GB	36	266
>= 100 Mb/s / 120 GB	41	314
>= 1000 Mb/s / 300 GB	109	678

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED BROADBAND (3)

- The time series analysis considers results for incumbent only, as there is not historic data available for additional ISPs.
- The table below summarizes how the overall Arab average changed from 2021-2022. The picture is one mainly of increases across the lower speed residential baskets – up to 16% and decreases for speeds of 25 Mb/s and above, with greater decreases for higher speeds – up to 30%.
- The average cost across all business baskets fell, with the greatest reductions being seen at the highest speeds of service – up to 55%.

Change in overall average 2021-2022	Residential			Business		
	Low	Medium	High	Low	Medium	High
>= 0.25 Mb/s / 15 GB	↑	↑	↑	↓	↓	↓
>= 10 Mb/s / 30 GB	↑	↑	↑	↓	↓	↓
>= 25 Mb/s / 60 GB	↓	↓	↓	↓	↓	↓
>= 100 Mb/s / 120 GB	↓	↓	↓	↓	↓	↓
>= 1000 Mb/s / 300 GB	↓	↓	↓	↓	↓	↓

	Change in average 2021-2022 (Res: Inc VAT, Bus, Excl VAT)	
	Residential	Business
>= 0.25 Mb/s / 15 GB	11%	-13%
>= 10 Mb/s / 30 GB	16%	-5%
>= 25 Mb/s / 60 GB	-10%	-26%
>= 100 Mb/s / 120 GB	-12%	-5%
>= 1000 Mb/s / 300 GB	-30%	-55%

- Speeds have continued to rise since 2021. 96% of all services recorded now have a minimum advertised download speed of 2 Mb/s or above, 64% of services are at least 30 Mb/s, and over 40% of plans are at least 100 Mb/s
- The average speed for the Arab countries for the current update is almost 186 Mb/s, up from 183 Mb/s in 2021. This average includes services for the additional ISPs now included in the analysis.
- There have been changes for most providers in the current update. An increasing trend is the introduction of fixed-wireless services, which often are significantly cheaper than fixed wireline services. These services typically come with a pre-set download allowance, although these are usually very generous and sufficient for average household use

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED BROADBAND (4)

Residential Fixed Broadband	Incumbent only			Up to 3 ISPs		
	Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average	Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average
>= 0.25 Mb/s / 5 GB: Low use	65	39	66%	56	32	77%
>= 0.25 Mb/s / 15 GB: Medium use	65	39	66%	56	32	76%
>= 0.25 Mb/s / 45 GB: High use	69	39	76%	60	32	87%
>= 10 Mb/s / 10 GB: Low use	133	39	241%	86	32	166%
>= 10 Mb/s / 30 GB: Medium use	133	39	240%	86	32	168%
>= 10 Mb/s / 90 GB: High use	134	40	237%	89	32	174%
>= 25 Mb/s / 20 GB: Low use	119	41	192%	100	34	198%
>= 25 Mb/s / 60 GB: Medium use	119	42	185%	102	34	199%
>= 25 Mb/s / 180 GB: High use	131	42	211%	117	34	243%
>= 100 Mb/s / 40 GB: Low use	201	46	340%	187	39	383%
>= 100 Mb/s / 120 GB: Medium use	203	46	343%	193	39	399%
>= 100 Mb/s / 360 GB: High use	206	46	348%	196	39	399%
>= 1000 Mb/s / 100 GB: High use	409	89	360%	279	60	363%
>= 1000 Mb/s / 300 GB: High use	409	89	360%	279	60	363%
>= 1000 Mb/s / 900 GB: High use	409	89	359%	298	61	391%

Residential prices include VAT

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: FIXED BROADBAND (5)

Business Fixed Broadband	Incumbent only			Up to 3 ISPs		
	Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average	Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average
>= 0.25 Mb/s / 5 GB: Low use	117	41	183%	90	33	174%
>= 0.25 Mb/s / 15 GB: Medium use	117	41	182%	90	33	173%
>= 0.25 Mb/s / 45 GB: High use	144	42	246%	116	33	255%
>= 10 Mb/s / 10 GB: Low use	374	41	802%	310	33	845%
>= 10 Mb/s / 30 GB: Medium use	374	42	801%	310	33	845%
>= 10 Mb/s / 90 GB: High use	374	42	799%	310	33	843%
>= 25 Mb/s / 20 GB: Low use	397	45	785%	264	36	636%
>= 25 Mb/s / 60 GB: Medium use	398	45	780%	266	36	638%
>= 25 Mb/s / 180 GB: High use	411	45	811%	280	36	677%
>= 100 Mb/s / 40 GB: Low use	470	54	773%	309	41	653%
>= 100 Mb/s / 120 GB: Medium use	470	54	773%	314	41	665%
>= 100 Mb/s / 360 GB: High use	470	54	772%	315	41	660%
>= 1000 Mb/s / 100 GB: High use	967	95	917%	678	109	521%
>= 1000 Mb/s / 300 GB: High use	967	95	917%	678	109	521%
>= 1000 Mb/s / 900 GB: High use	967	95	913%	678	109	519%

Business prices exclude VAT

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: MOBILE BROADBAND (1)

- Mobile broadband services are available across all the Arab countries. The tables below shows the comparison of the Arab country average to the OECD country average. Note, the business calculations exclude VAT.

	Arab:OECD average	
	Residential	Business
0.5 GB	39%	105%
1 GB	36%	117%
2 GB	43%	110%
5 GB	43%	70%
10 GB	51%	64%
20 GB	63%	51%
50 GB	36%	6%
0.5 GB short validity	33%	105%
1 GB short validity	34%	115%

- The average for the residential service baskets in the Arab countries compared to the OECD average ranges from 33%-64% more expensive, depending on the basket, although for the lower usage baskets in particular, in real terms the variance is relatively small. For business services, the range is 6% (more expensive) for the 50GB basket, to 117% for the 1 GB basket.
- There have been price and service changes for several Arab providers since 2021, with revisions of portfolios and changes to data allowances. Note, however, that several providers did not make changes that had any impact on the basket cost. The table below shows the overall shift in the Arab average for each basket and speed category, for both residential and business services, along with the change in the average percentage, with the general cost trend being downwards across all residential and business baskets. The reduction in the cost of mobile data across the Arab countries, is one seen in global markets. The ‘reduction’ is often driven by an increase in allowances rather than a reduction in rentals, thus allowing mobile operators to better maintain revenues across existing subscribers

2021-2022	Change in overall average			
	Residential	Business	Residential	Business
0.5 GB	↓	↓	-14%	-28%
1 GB	↓	↓	-17%	-28%
2 GB	↓	↓	-21%	-28%
5 GB	↓	↓	-22%	-26%
10 GB	↓	↓	-23%	-23%
20 GB	↓	↓	-23%	-22%
50 GB	↓	↓	-33%	-21%
0.5 GB short validity	↓	↓	-13%	-28%
1 GB short validity	↓	↓	-15%	-28%

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: MOBILE BROADBAND (2)

Residential Mobile Broadband	Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average	Business Mobile Broadband	Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average
0.5 GB	15	11	39%	0.5 GB	24	12	105%
1 GB	16	12	36%	1 GB	26	12	117%
2 GB	19	13	43%	2 GB	27	13	110%
5 GB	25	17	43%	5 GB	29	17	70%
10 GB	31	20	51%	10 GB	36	22	64%
20 GB	45	28	63%	20 GB	43	28	51%
50 GB	69	50	36%	50 GB	59	56	6%
0.5 GB short validity	14	10	33%	0.5 GB short validity	24	12	105%
1 GB short validity	15	11	34%	1 GB short validity	26	12	115%

Residential prices include VAT, business prices exclude VAT

SUMMARY OF MAIN FINDINGS FROM THE BENCHMARKING STUDY: LEASED LINES

- Leased line prices were not reported in 2019 but were re-introduced in 2020. As a result, the time series runs for an extra year, from 2017-2022. Prices have been generally stable over time with either no or only occasional changes to prices by operators. From 2021 to 2022, Libya introduced prices, which impacted the 2022 average. Other than that, there were no changes to leased line pricing
- The average price changes for each basket between 2020/2021 and 2021/2022 are shown in the table below

	2020-2021	2021-2022
64 kb/s	0.0%	-5.8%
256 kb/s	0.0%	-8.8%
2 Mb/s	0.0%	19.5%
34 Mb/s	0.0%	0.0%
155 Mb/s	0.0%	-8.4%

		Arab average 2022 USD PPP	OECD average 2022 USD PPP	Arab average compared to OECD average
Leased Lines	64 Kb/s	539	N/A	
	256 kb/s	1214	N/A	
	2 Mb/s	3205	1981	 62%
	34 Mb/s	14430	9897	 46%
	155 Mb/s	49558	N/A	

Appendix

EXCHANGE RATES AND VAT

Exchange rates used:		Dec-22	VAT %	World Bank CPL 2021	
Related to:	US\$	US\$ PPP			
Algeria	0.00719	0.0236280	19.0 %	Algeria	0.3043
Bahrain	2.63565	5.3835043	10.0 %	Bahrain	0.4896
Comoros	0.00211	0.0047442	10.0 %	Comoros	0.4448
Djibouti	0.00563	0.0096459	10.0 %	Djibouti	0.5837
Egypt	0.04066	0.1396771	14.0 %	Egypt	0.2911
Iraq	0.00068	0.0014020	0.0 %	Iraq	0.4850
Jordan	1.41044	3.4829117	16.0 %	Jordan	0.4050
Kuwait	3.24179	6.4835800	0.0 %	Kuwait	0.5000
Lebanon	0.00066	0.0022749	11.0 %	Lebanon	0.2901
Libya	0.20294	0.7703256	0.0 %	Libya	0.2634
Mauritania	0.0026	0.0069990	16.0 %	Mauritania	0.3715
Morocco	0.09229	0.2152710	20.0 %	Morocco	0.4287
Oman	2.58984	5.0014161	5.0 %	Oman	0.5178
Palestine	0.2902	0.6521348	16.0 %	Palestine	0.4450
Qatar	0.27163	0.4146000	0.0 %	Qatar	0.6552
Saudi Arabia	0.2663	0.5594668	15.0 %	Saudi Arabia	0.4760
Somalia	0.00172	0.0048055	10.0 %	Somalia	0.3579
Sudan	0.0221	0.1196287	35.0 %	Sudan	0.1849
Syria	0.00195	0.0031707	0.0 %	Syria	0.615
Tunisia	0.30678	0.9061713	19.0 %	Tunisia	0.3385
UAE	0.27221	0.4705750	5.0 %	UAE	0.5785
Yemen	0.00399	0.0091514	5.0 %	Yemen	0.4360

World Bank CPL 2021 for OECD countries	
Australia	1.074
Austria	0.912
Belgium	0.878
Canada	0.999
Chile	0.567
Colombia	0.363
Costa Rica	0.535
Czech Rep.	0.596
Denmark	1.049
Estonia	0.647
Finland	0.981
France	0.858
Germany	0.877
Greece	0.648
Hungary	0.511
Iceland	1.186
Ireland	0.931
Israel	1.176
Italy	0.774
Japan	0.915
Korea	0.741
Latvia	0.599
Lithuania	0.549
Luxembourg	1.007
Mexico	0.495
Netherlands	0.911
New Zealand	1.051
Norway	1.126
Poland	0.476
Portugal	0.676
Slovak Rep.	0.639
Slovenia	0.669
Spain	0.739
Sweden	1.015
Switzerland	1.209
Türkiye	0.314
UK	0.953
USA	1.000

Exchange rates taken from the Oanda web service on the 1 December 2022

PPPs are based on World Bank CPL data in 2021 (latest available).

World Bank rates also used for OECD countries to provide more consistent comparison to Arab country results. Rates used shown.

- PPPs are used to incorporate not only the financial differences between exchange rates, but also the differences in the state of the economies as seen through the purchasing power of the citizens in each country.
 - PPPs are based on an assessment of the price levels for a corresponding basket of goods and services in each country. i.e., how much the same basket costs in different countries.
 - PPPs are normally stated based on the US\$ or some other reference currency, e.g., Euro. This study uses the US\$ PPPs calculated by the World Bank.
- In order to update these values, the Comparative Price Level (CPL) is used. CPL is the relationship between the PPP and the reference market exchange rate at the time the PPP was calculated.
 - CPL is used together with updated, i.e., current, exchange rates to produce an “updated” PPP value.
 - $CPL = \text{Rate}_{\text{PPP}} / \text{Rate}_{\text{Reference}}$
 - $\text{PPP}_{\text{Current}} = \text{Rate}_{\text{Market}} * CPL$
- The advantage of using PPPs is that the results reflect the price differences as seen by the end users in each country based on their income and other costs.

- This benchmarking study relies on the PPP (Purchasing Power Parity) and CPL (Comparative Price Level) values produced by the OECD and the World Bank*. PPPs are used in international studies to provide a more even comparison between countries, adjusting the exchange rates to the purchasing power of the consumer in each country. CPL is used to calculate PPP values from current market exchange rates, in order to obtain the most up to date combination of PPP and market exchange rates.
- PPPs are usually expressed in US\$, referring to the US market. PPPs are produced comparing the cost of a basket of goods and services across countries
 - The World Bank defines PPP as: " ... the number of units of a country's currency required to buy the same amount of goods and services in the domestic market as a U.S. dollar would buy in the United States."
- The CPL is the ratio between PPP and Market Exchange Rate (XR) for a given country, as seen from a reference country (usually the USA).

$$\text{CPL} = \text{PPP}_{\text{US\$}} / \text{XR}_{\text{US\$}}$$

CPL<1 means goods are more expensive, CPL>1 means goods are cheaper, referring to the USA.

- The basket of goods and services is extensive, however, the PPP result will of course depend on the content of this basket. The OECD and the World Bank are working together to improve on the methodology to calculate the PPP.
- The World Bank implemented a new methodology for calculating the PPPs in 2011, improving the PPP results to show a more accurate ration between countries. The results of the implementation of this new methodology was seen in the previously published 2014
 - As the previous World Bank methodology was different to that used by the OECD, and the new World Bank methodology is now more aligned with the OECD methodology. The changes seen from the old to the new World Bank PPP values are smaller in OECD countries than in other countries of the world.

* The World Bank uses the term "Price Level Ratio" for the CPL.

Please note: Inverse values of PPP and CPL are also used, depending on application.

ACRONYMS USED IN THE CONTEXT OF THIS REPORT



- OECD: Organisation of Economic Co-operation and Development
- OECD countries: Australia, Austria, Belgium, Canada, Chile, Colombia, Costa Rica, Czech Rep., Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Rep., Slovenia, Spain, Sweden, Switzerland, Turkey, UK, USA
- AREGNET: Arab Regulators Network.
- AREGNET member countries: Algeria, Bahrain, Comoros, Djibouti, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Mauritania, Morocco, Oman, Palestine, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, UAE, Yemen
- VAT: Value Added Tax, a consumption tax system used in most European countries and some Arab countries.
- PPP: Purchasing Power Parity, exchange rates adjusted for the purchasing power of consumers in each country. Used in international comparisons to adjust for market differences.
- CPL: Comparative Price level. The relative factor between market exchange rates and PPP. Used to calculate the PPPs from current market exchange rates.
- Service: A telecommunications service
- Basket: A theoretical usage profile describing the usage volumes across different types of calls and/or different kinds of usage. The basket includes all important elements of the service, including fixed cost elements.
- Tariff: The description of all the end user prices related to a service
- Tariff element: The part of a tariff describing the price(s) for a single type of call or service component.
- Basket calculation: The process where the Basket is applied to the individual tariff in order to calculate the cost of the individual tariff elements and the overall cost.
- Basket result: The cost of using the service as described in the Basket.
- Re-balancing: The process through which the prices are changed so that individual Tariff elements will cover their own cost, and not subsidise other Tariff elements.

End of report