

## THE TELECOMMUNICATIONS SECTOR EVOLUTION AT 31<sup>st</sup> MARCH 2012

### 1- Highlights at 31<sup>st</sup> March 2012

Evolution of Tariffs (ARPM<sup>1</sup>), average usage<sup>2</sup> of fixed and mobile telephony and the average monthly Internet bill per customer<sup>3</sup>

#### Mobile :

- The downward trend in mobile prices as measured by average revenue per minute (ARPM "Average Revenue Per Minute") continues. Indeed, the ARPM has dropped from 0.83 DHFoT/min at the end of March 2011 to 0.65 DHFoT/min at the end of March 2012 making a 22% drop.
- The average outgoing use per mobile customer has risen between March 2011 and March 2012 from 50 to 64 minutes/customer/month making a growth in the use of 28%.

#### Fixe :

- The downward trend in fixed prices as measured by average revenue per minute also continues. Indeed, the ARPM has dropped from 0.97 DHFoT/min at the end of March 2011 to 0.86 DHFoT/min at the end of March 2012 making a decrease of 11%.
- The average outgoing usage per fixed customer decreased by 7% between March 31, 2011 and March 31, 2012 from 128 minutes per month to 115 minutes per month.

#### Internet :

- The downward trend in prices measured by the average monthly bill for Internet customer is confirmed. Indeed, it has dropped from 83 DHFoT/month/customer at the end of March 2011 to 55 DHFoT/month/customer in March 31, 2012 making a decline of 34%.
- For 3G Internet, this bill has dropped from 62 DHFoT/month/customer at the end of March 2011 to 38 DHFoT/month/customer in March 31,

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<sup>1</sup>ARPM: Average revenue per minute of communication is obtained by dividing the turnover free of Tax of the outgoing voice communications by the outgoing traffic in minutes.

<sup>2</sup>The average use is calculated by dividing outgoing traffic in minutes by average subscriber per month in the reporting period.

<sup>3</sup>The average monthly bill per customer is calculated by dividing turnover free of Tax by average Internet subscribers and the period in months.

2012 marking a 40% drop. As for ADSL, it decreased from 132 DH FoT/month/customer at the end of March 2011 to 127 DH FoT/month/customer in March 31, 2012 making a 4% decline.

## MOBILE TELEPHONY

- The number of mobile subscribers reached 36 238 612 at the end of March 2012 and continues its upward trend by recording an annual increase of 8.58% and decreases by 0.86% over the first quarter of 2012. The penetration rate of mobile telephony reached 112.59% at the end of March 2012 against 113.57% at end of December 2011.
- The number of mobile postpaid subscribers recorded a quarterly growth rate of 6.27% at the end of March 2012 against a decrease of 1.18% in the number of prepaid subscribers. The annual growth rate of postpaid subscribers is about 24.45% against 7.92% for prepaid subscribers.
- Outgoing mobile traffic has decreased quarterly by 0.53% and increased annually by 36.39%.
- SMS traffic has decreased quarterly by 23% and increased annually by 35.34%.

## FIXED TELEPHONY

- The overall fixed line subscribers reached 3 534 567 at the end of March 2012 by making a slight decrease of 0.88% from December 2011 and of 2.98% from March 2011. The penetration rate of fixed telephony is 10.98% at the end of the first quarter of 2012.
- The outgoing fixed traffic during the first quarter recorded a decrease of 7.55% from December 2011 and of 12.38% from March 2011.

## INTERNET

- At the end of March 2012, the Internet accounts reached 3 400 899 and recorded a quarterly growth rate of 6.88% and annually of 56.51%. The penetration rate of Internet is 10,57% at the end of the first quarter of 2012
- The 3G Internet subscribers (83.28% of the Internet accounts) had a quarterly growth rate of 9.33% and annually of 71.08%.
- The ADSL subscribers with at least 2 Mbits/s speed represent around 99% of the accounts at the end of March 2012.
- The 3G Internet accounts combining voice with Data reached 1 265 771 and recorded a quarterly growth rate of 16% and annually of 211.03%.
- The 3G Internet "Data only" reached 1 566 384 and recorded a quarterly growth rate of 4.48% and annually of 25.46%.

## 2- Quarterly analysis of the market evolution

### Mobile telephony market<sup>4</sup>

At the end of the first quarter of 2012, the number of mobile subscribers reached 36 238 612, with a slight quarterly decrease of 0.86%. From March 2011, this number increases by 8.58%.

The penetration rate reached 112.59% at the end of March 2012 against 113.57% in December 2011.

### MOBILE ACCOUNTS

<b>MOBILE TELEPHONY (in thousands)</b>	<b>Mar-11</b>	<b>Dec-11</b>	<b>Mar-12</b>
<b>Mobile accounts</b>	33 375	36 554	36 239
<b>Quarterly growth<sup>5</sup></b>	<b>1 393</b>	<b>404</b>	<b>- 315</b>
<b>Quarterly Growth (%)<sup>6</sup></b>	<b>4.36%</b>	<b>1.12%</b>	<b>- 0.86%</b>
<b>Penetration rate<sup>7</sup></b>	<b>104.78%</b>	<b>113.57%</b>	<b>112.59%</b>

Through the analysis of the evolution of the number of mobile subscribers for the first quarter of 2012, we notice that the number of subscribers of IAM reached 17194 (in thousands) against 17 126 (in thousands) at the end of December 2011. While the number of mobile subscribers of Medi Telecom reached 11 235 (in thousands) (12 035 thousands subscribers in December 2011) and for Wana Corporate this number reached 7 810 (in thousands) against 7 393 (in thousands) subscribers in December 2011, carrying out a quarterly growth of 0.4% for IAM and of 5.64% for Wana Corporate and a quarterly decrease of 6.65% for Medi Telecom.

In terms of market share, the incumbent operator holds 47.45% of the mobile subscribers market followed by Medi Telecom with 31% and Wana corporate with 21.55%.

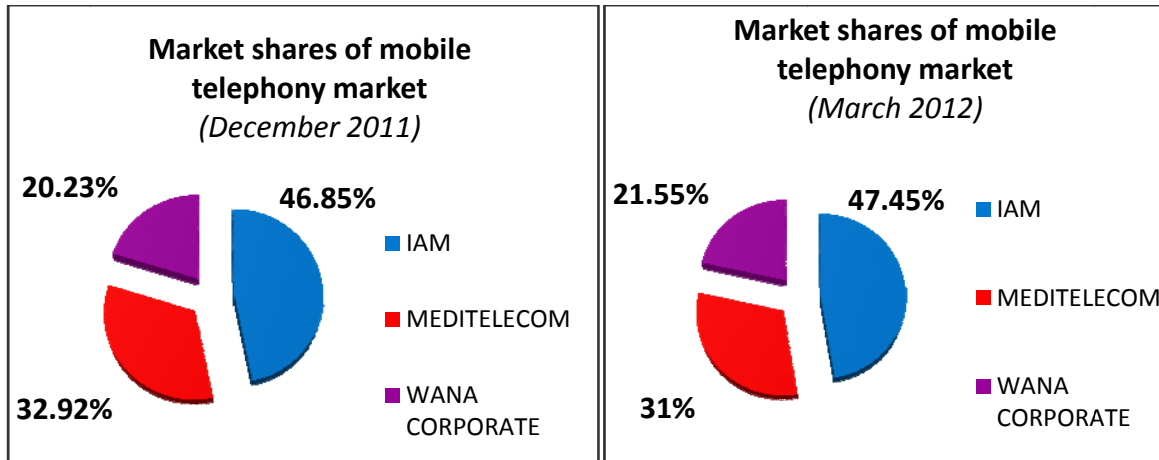
<sup>4</sup>This figure includes mobile subscribers to mobile telephony using the 2G and 3G networks.

<sup>5</sup>The growth at the quarter N equals to the difference between the market size of N and N-1.

<sup>6</sup>% of growth at the quarter N equals to the difference between the market size of N and N-1 divided by the market size of N-1.

<sup>7</sup> The penetration rate for mobile telephony is calculated on base of the population projections published by the Statistics Department/HCP and the General census of population 2004. Starting from March of the year N, the reference population for calculating this rate results from Statistics Department/HCP projections of the year N-1.

**Market Shares at 31<sup>st</sup> December 2011** **Market Shares at 31<sup>st</sup> March 2012**



With regard to the distribution of mobile customers by type of subscription, we notice that there is no change in the structure of the market compared to the previous quarter and that prepaid always prevails with a share of 95.43% (95.74% at the end of December 2011) against 4.57% for post-paid.

The mobile post-paid closed the quarter with a rise by recording a quarterly growth of 6.27% and the mobile prepaid decreases by 1.18% compared to December 2011. Over a year, the post-paid increases by 24.45% and the prepaid by 7.92%.

**Post-paid accounts evolution**

<b>POST-PAID MARKET (in thousands)</b>	<b>Mar-11</b>	<b>Dec-11</b>	<b>Mar-12</b>
<b>Post-paid accounts</b>	1 329	1 557	1 655
<b>Quarterly growth</b>	<b>100</b>	<b>71</b>	<b>98</b>
<b>Quarterly growth (%)</b>	<b>8.16%</b>	<b>4.76%</b>	<b>6.27%</b>
<b>Penetration rate</b>	<b>4.17%</b>	<b>4.84%</b>	<b>5.14%</b>

**Prepaid accounts evolution**

<b>PREPAID MARKET (in thousands)</b>	<b>Mar-11</b>	<b>Dec-11</b>	<b>Mar-12</b>
<b>Prepaid accounts</b>	32 046	34 997	34 584
<b>Quarterly growth</b>	<b>1 293</b>	<b>333</b>	<b>- 413</b>
<b>Quarterly growth (%)</b>	<b>4.20%</b>	<b>0.96%</b>	<b>- 1.18%</b>
<b>Penetration rate</b>	<b>100.61%</b>	<b>108.73%</b>	<b>107.45%</b>

## Outgoing Mobile Voice Traffic<sup>8</sup>

At the end of the first quarter of 2012, outgoing Mobile traffic achieved 6 456.49 million minutes which correspond to a slight decrease of 0.53% compared to the last quarter of 2011. Over a year, this traffic increases by 36.39%.

Outgoing Mobile Voice Traffic (in millions min)	1 <sup>st</sup> Quarter 11	4 <sup>th</sup> Quarter 11	1 <sup>st</sup> Quarter 12
Outgoing Mobile Traffic	4 733.94	6 491.05	6 456.49
Quarterly growth	<b>433.19</b>	<b>215.9</b>	<b>- 34.56</b>
Quarterly growth (%)	<b>10.07%</b>	<b>3.44%</b>	<b>- 0.53%</b>

## Outgoing SMS Traffic<sup>9</sup>

The number of SMS sent in the first quarter of 2012 is about 1 232.13 million units making a quarterly drop of 23%. Over a year, this traffic increases by 35.34%.

Mobile Outgoing SMS Traffic (in millions)	1 <sup>st</sup> Quarter 11	4 <sup>th</sup> Quarter 11	1 <sup>st</sup> Quarter 12
Outgoing SMS Traffic	910.37	1 599.86	1 232,13
Quarterly growth	<b>- 190.60</b>	<b>106.16</b>	<b>- 367.73</b>
Quarterly growth	<b>- 17.31%</b>	<b>7.11%</b>	<b>- 22.99%</b>

<sup>8</sup>The outgoing voice traffic is the sum of minutes used by customers of the three operators of mobile telephony in a quarter.

<sup>9</sup>The outgoing SMS traffic is the sum of SMS sent by customers of the three operators of mobile telephony in a quarter.

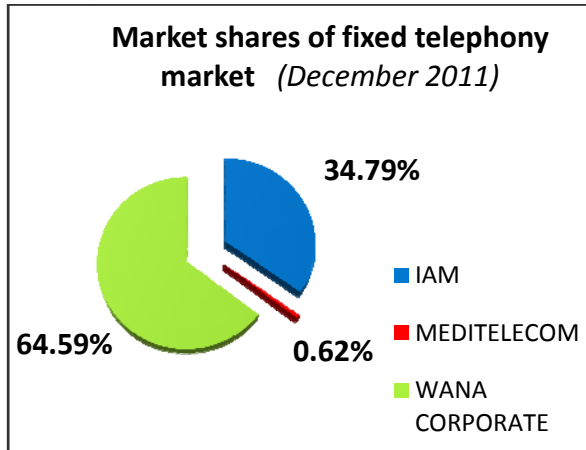
## Fixed Telephony Market

At March 31<sup>st</sup> 2012, the number of subscribers recorded a slight decrease of 0.88% compared to the previous quarter. The total number of subscribers reached 3.534 56710 (against 3 566 076 at the end of December 2011) of which 2 255 463 subscribers used the fixed telephony with restricted mobility.

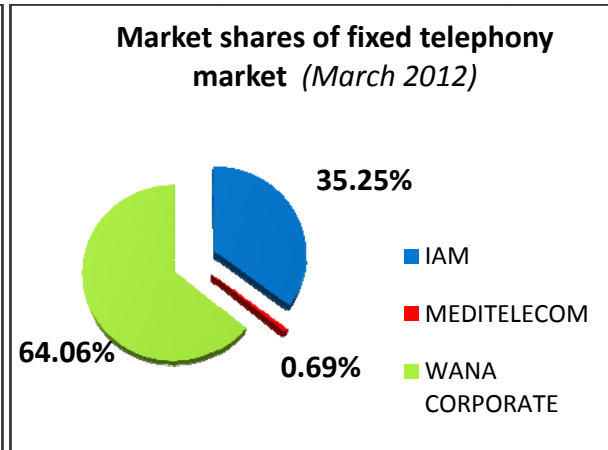
Consequently, the penetration rate of fixed telephony is 10.98% at the end of March 2012 against 11.08% in December 2011.

In terms of market share, WanaCorporate holds 64.06% of the fixed telephony subscriber followed by IAM with 35.25% and Medi Telecom with 0,69%.

**Market Shares at 31<sup>st</sup>December 2011**



**Market Shares at 31<sup>st</sup>March 2012**



## FIXE ACCOUNTS

FIXED TELEPHONY	Mar-11	Dec-11	Mar-12
Fixed accounts	3 643 106	3 566 076	3 534 567
Restricted mobility	2 377 618	2 294 781	2 255 463
Quarterly growth	- 106 258	42 369	- 31 509
Quarterly growth %	- 2.83%	1.2%	- 0.88%
Penetration rate	11 ;44%	11.08%	10.98%

<sup>10</sup>This figure includes residential and professional subscribers and payphones using fixed telephony network.

## Residential subscribers

<b>FIXED TELEPHONY</b>	<b>Mar-11</b>	<b>Dec-11</b>	<b>Mar-12</b>
<b>Residential accounts</b>	3 097 732	3 054 626	3 032 186
<b>Quarterly growth</b>	<b>- 103 018</b>	<b>53 817</b>	<b>- 22 440</b>
<b>Quarterly growth %</b>	<b>- 3.22%</b>	<b>1.79%</b>	<b>- 0.73%</b>

## Professional subscribers

<b>FIXED TELEPHONY</b>	<b>Mar-11</b>	<b>Dec-11</b>	<b>Mar-12</b>
<b>Professional accounts</b>	406 344	416 364	421 446
<b>Quarterly growth</b>	<b>3 316</b>	<b>3 454</b>	<b>5 082</b>
<b>Quarterly growth %</b>	<b>0.82%</b>	<b>0.84%</b>	<b>1.22%</b>

## Outgoing Fixed Voice Traffic<sup>11</sup>

During the first quarter of 2012, subscribers of fixed telephony and those of fixed telephony with restricted mobility have made 1 221.41 million minutes which corresponds to a decrease of 7.55% over a quarter and of 12.38% over a year.

<b>Outgoing Fixed Voice Traffic (in million min)</b>	<b>1<sup>st</sup> Quarter 11</b>	<b>4<sup>th</sup> Quarter 11</b>	<b>1<sup>st</sup> Quarter 12</b>
<b>Outgoing Voice Traffic</b>	1 394	1 321,18	1 221,41
<b>Quarterly growth</b>	<b>- 105.25</b>	<b>1.44</b>	<b>- 99.77</b>
<b>Quarterly growth %</b>	<b>- 7.02%</b>	<b>0.11%</b>	<b>- 7.55%</b>

## Public Payphones Market

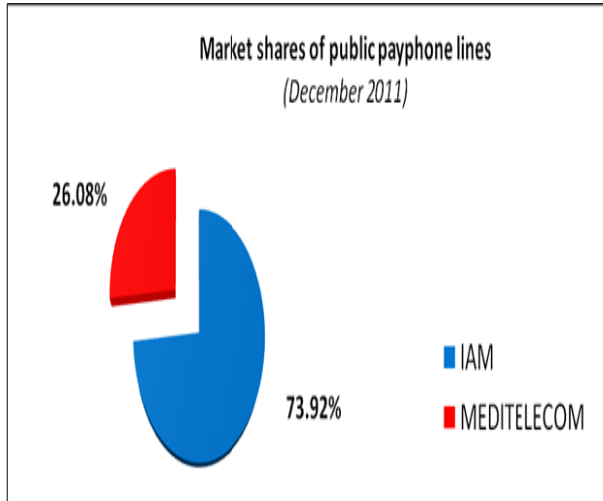
<sup>11</sup>The outgoing voice traffic is the sum of minutes used by the three operator's customers of mobile telephony and restricted mobility in a quarter.



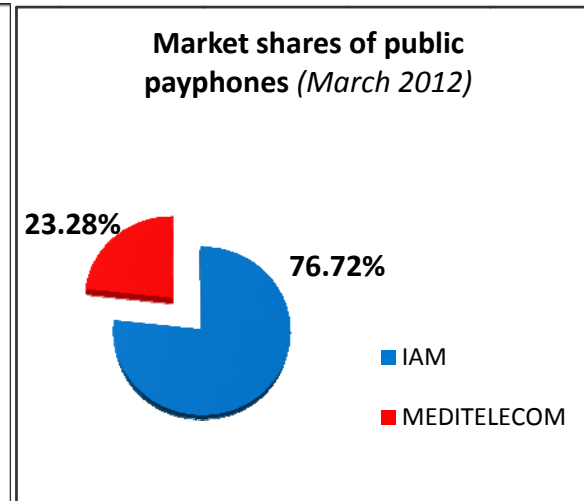
At March 31<sup>st</sup> 2012, the number of lines in public payphones recorded a quarterly drop of 18% compared to December 2011 and of 39.75% compared to March 2011. The total number of lines in public payphones<sup>12</sup> reached 105 498 (against 128 636 at the end of December 2011).

Public payphones	Mar-11	Dec-11	Mar-12
Number of lines	175 090	128 636	105 498
Quarterly growth	- 6 490	- 15 176	-23 138
Quarterly growth %	- 3.57%	- 10.55%	-17.99%

Market Shares at 31<sup>st</sup> December 2011



Market Shares at 31<sup>st</sup> March 2012



<sup>12</sup>The public payphones includes fixed and GSM phone shops, coin and card public telephones.

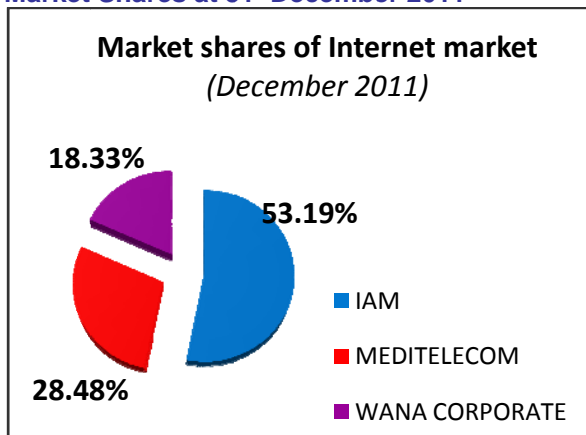
## Internet Market

At 31<sup>st</sup>March 2012, the total Internet subscribers<sup>13</sup> reached 3 400 899 carrying out an increase of 6.88% over the first quarter of 2012 and of 56.51% compared to March 2011.

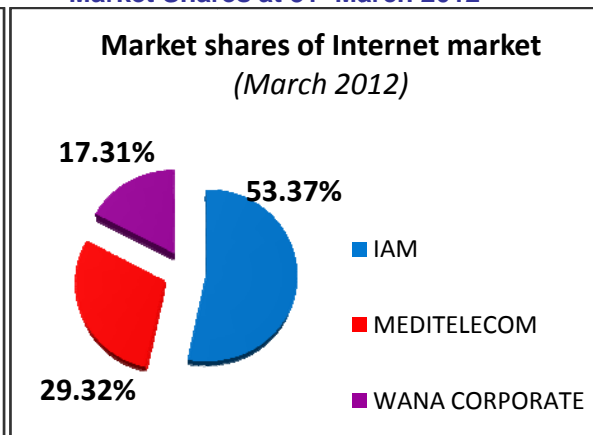
The penetration rate of Internet is 10.57% at the end of March 2012 against 9.89% in December 2011.

In terms of market share, IAM holds 53.37% of the Internet subscribers market followed by Medi Telecom with 29.32% and Wana Corporate with 17,31%.

### Market Shares at 31<sup>st</sup>December 2011



### Market Shares at 31<sup>st</sup>March 2012



## Internet accounts

INTERNET MARKET	Mar-11	Dec-11	Mar-12
Internet accounts	2 172 903	3 182 116	3 400 899
Quarterly growth	305 940	300 143	218 783
Quarterly growth %	16.39%	10.41%	6.88%

The number of the narrowband subscribers reached 819 in March 2012 which corresponds to a decrease of 5.21% over this quarter.

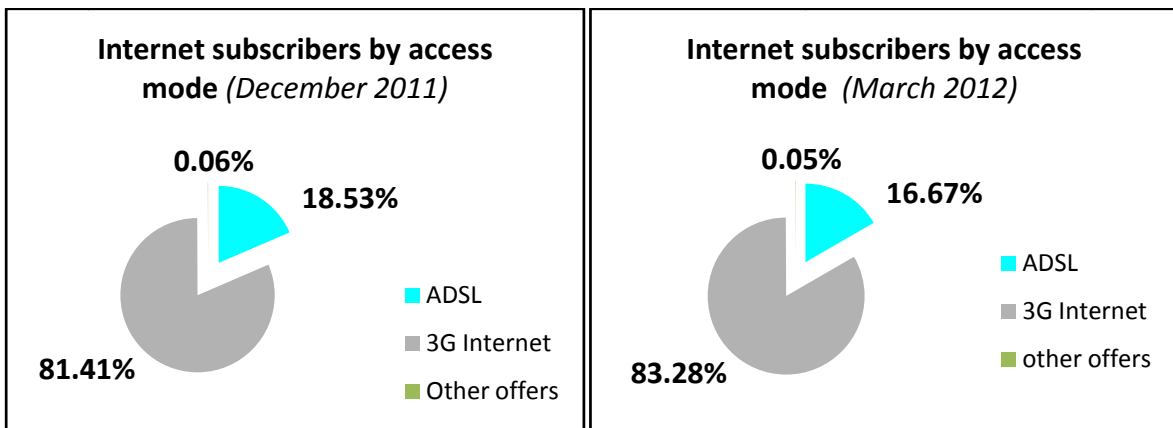
The number of ADSL subscribers' decreases by 3.87% over the first quarter of 2012. The annual evolution of the ADSL accounts is about + 9.97%. The Internet ADSL accounts is estimated at 566 879 at the end of the first quarter of 2012.

<sup>13</sup>Since the first quarter of 2011 and according to the new decision No. 06/11 of 25 January 2011 laying down detailed accounting of the 3G Internet subscribers and given the expansion of this service for Internet data access combined with the 3G mobile phone service as well as the significant development of the mobile phone market that supports this new generation technology (Smart Phones), the Internet observatory is modified. The park 3G Internet is now presented in two distinct parts, one relating to the park "Data only" and another for the park "Voice + Data". These two offers will be considered together in calculating the global Internet park while 3G offers combined "Voice + Data" were not recorded so far in the park 3G in previous publications.

The estimated number of Internet access via Leased Lines (LL) stagnates (+0.58%) over the first quarter of 2012 and increases by 7.39% over a year. This number reached 1 046 subscribers in March 2012.

The distribution of subscribers by access mode is as follows, with a predominance of the 3G internet access, representing 83.28% of the global Internet market and broadband ADSL Internet access with 16.67%.

**Internet subscribers by access mode at 31<sup>st</sup> December 2011**      **Internet subscribers by access mode at 31<sup>st</sup> March 2012**

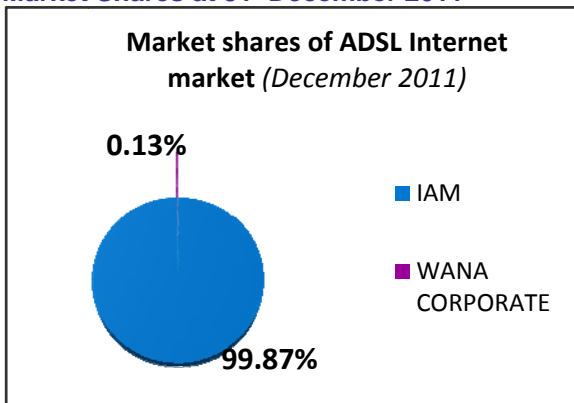


### ADSL market evolution

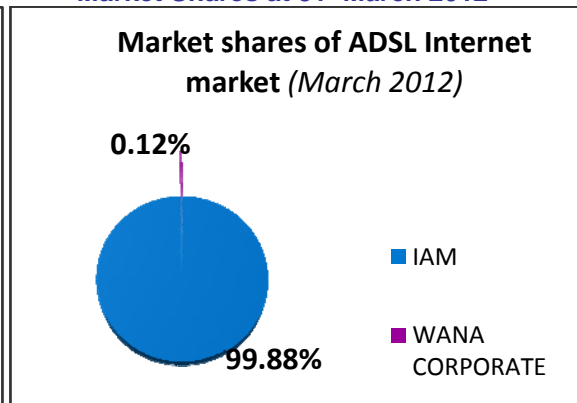
INTERNET ADSL	Mar-11	Dec-11	Mar-12
Internet ADSL accounts	515 464	589 678	566 879
Quarterly growth	17 824	39 170	- 22 799
Quarterly growth %	3.58%	7.12%	- 3.87%

In terms of market share, IAM holds 99.88% of the ADSL Internet accounts.

**Market Shares at 31<sup>st</sup> December 2011**



**Market Shares at 31<sup>st</sup> March 2012**



The ADSL Internet access accounts is made essentially of 2 Mbit/s which represents the largest share with 49.78% of the ADSL Internet market at the end of March 2012 followed by 8 Mbits/s (24.22%) and 4 Mbits/s (24%).

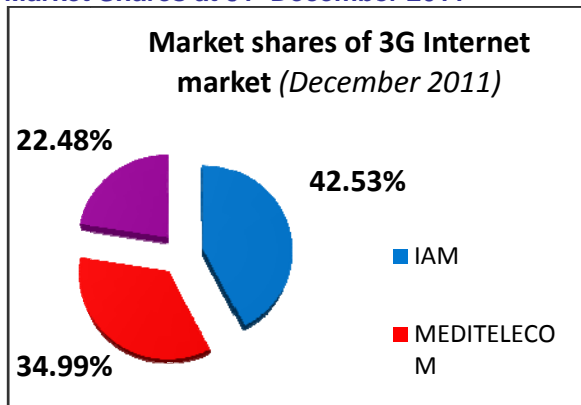
### 3G Internet Market evolution

At the end of March 2012, the number of 3G Internet subscribers reached 2 832.155 recording an increase of 9.33% over the first quarter of 2012 and 71.08% since March 2011.

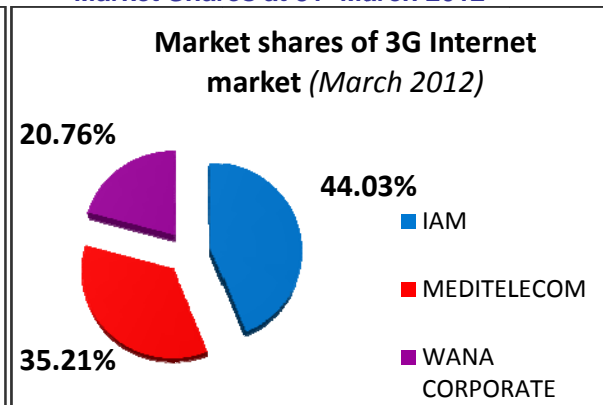
3G INTERNET	Mar-11	Dec-11	Mar-12
3G accounts	1 655 499	2 590 534	2 832 155
Quarterly growth	289 027	260 973	241 621
Quarterly growth %	21.15%	11.20%	9.33%

In terms of market share, IAM holds 44.03% of the 3G Internet accounts followed by Medi Telecom with 35.21% and Wana Corporate with 20.76%.

#### Market Shares at 31<sup>st</sup> December 2011



#### Market Shares at 31<sup>st</sup> March 2012



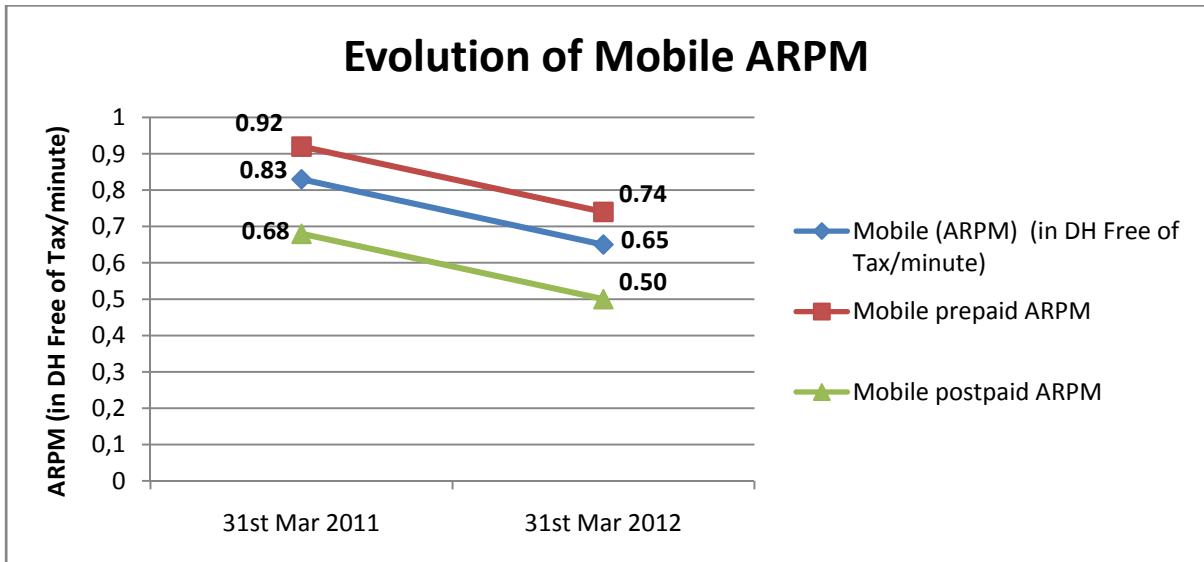
The 3G Internet "Data Only" accounts reached 1 566 384 subscribers at the end of March 2012 carrying a growth rate of 4.48% over the previous quarter. The 3G Internet "Voice + Data" accounts have reached 1 265 771 subscribers at the end of March 2012 by achieving a growth rate of 16% compared to the end of December 2011.

3- Analysis of the trend in prices (ARPM) at the end of the third quarter of 2011 and the average Fixed and Mobile outgoing use per customer and the average Internet monthly bill per customer

MOBILE MARKET

Mobile ARPMEvolution

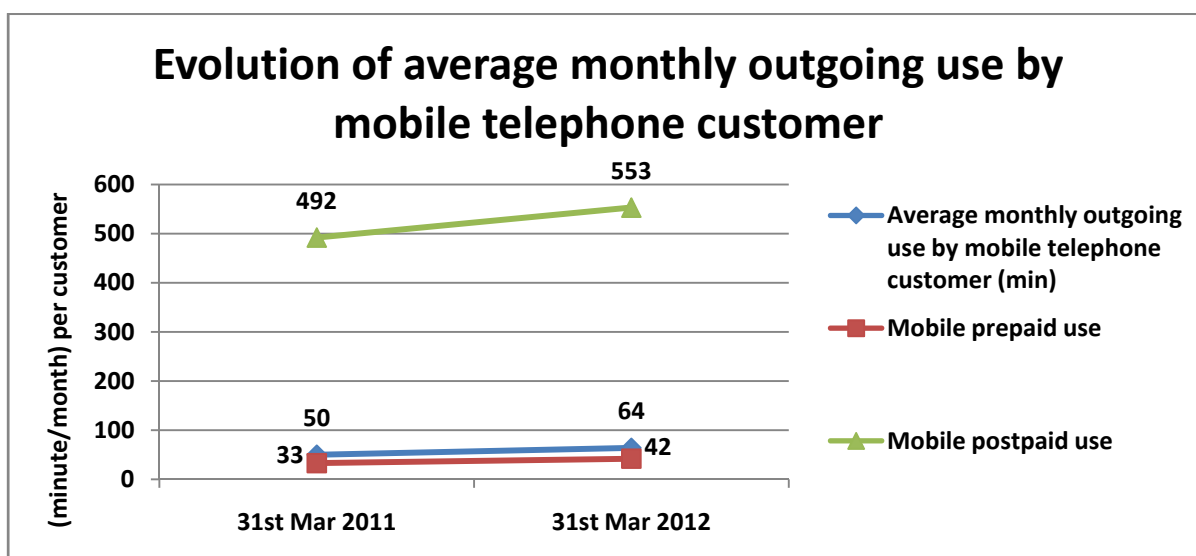
	31 <sup>st</sup> Mar 2011	31 <sup>st</sup> Mar 2012	Evolution
Average revenue per minute (ARPM) of mobile telephone call (in DH Free of Tax /minute)	0.83	0.65	- 22%
➤ Mobile prepaidARPM	0.92	0.74	- 20%
➤ Mobile postpaid ARPM	0.68	0.50	- 26%



The downward trend in mobile prices as measured by average revenue per minute (ARPM "Average Revenue Per Minute") continues. Indeed, the ARPM has dropped from 0.83DHFoT/min at the end of March 2011 to 0.65DHFoT/min at the end of March 2011 making a 22% drop.

### Evolution of average monthly outgoing use by mobile telephone customer<sup>14</sup>

	31 <sup>st</sup> Mar 2011	31 <sup>st</sup> Mar 2012	Evolution
<b>Average monthly outgoing use by mobile telephone customer (in minute/month/customer)</b>	<b>50</b>	<b>64</b>	<b>28%</b>
➤ <i>Mobile prepaid use</i>	<b>33</b>	<b>42</b>	<b>27%</b>
➤ <i>Mobile postpaid use</i>	<b>492</b>	<b>553</b>	<b>12%</b>



The average outgoing use per mobile customer has risen between March 2011 and March 2012 from 50 to 64 minutes/customer/month making a growth in the use of 28%.

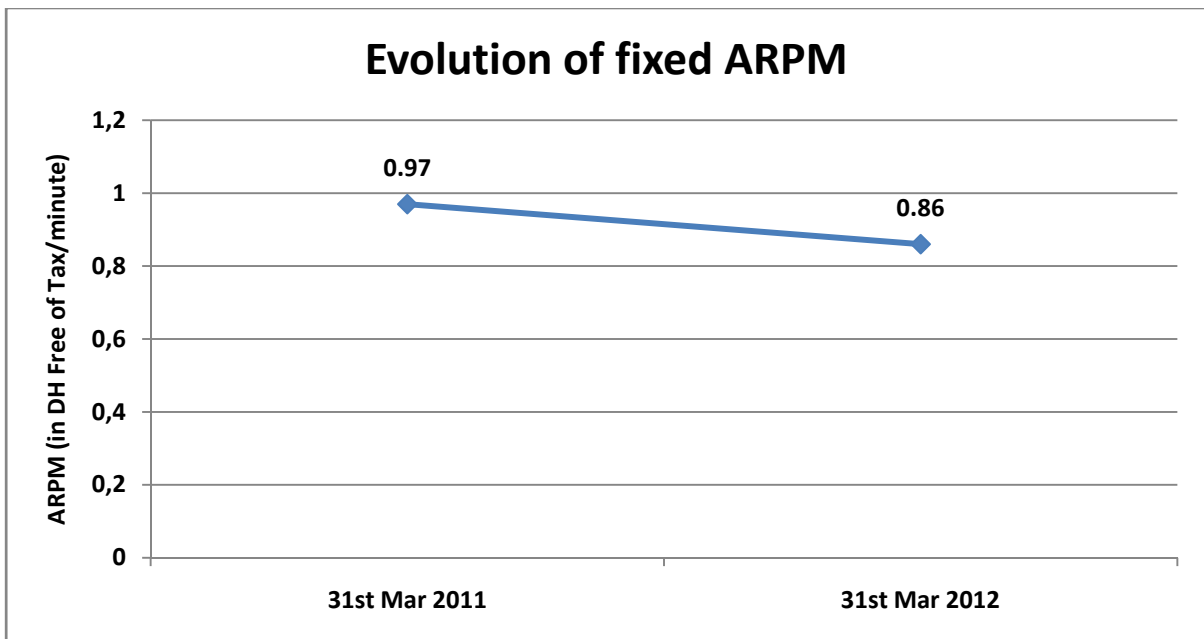
For prepaid usage, it has increased by 27% moving from 33 minutes/month to 42 minutes per month while the postpaid use has increased by 12% from 492 minutes/month to 553 minutes per month.

<sup>14</sup>The average monthly outgoing use by mobile telephone customer is obtained by dividing the outgoing mobile telephone voice traffic in minutes by the average number of subscribers to mobile telephony and the period in months.

## FIXED MARKET

### FixedARPM Evolution

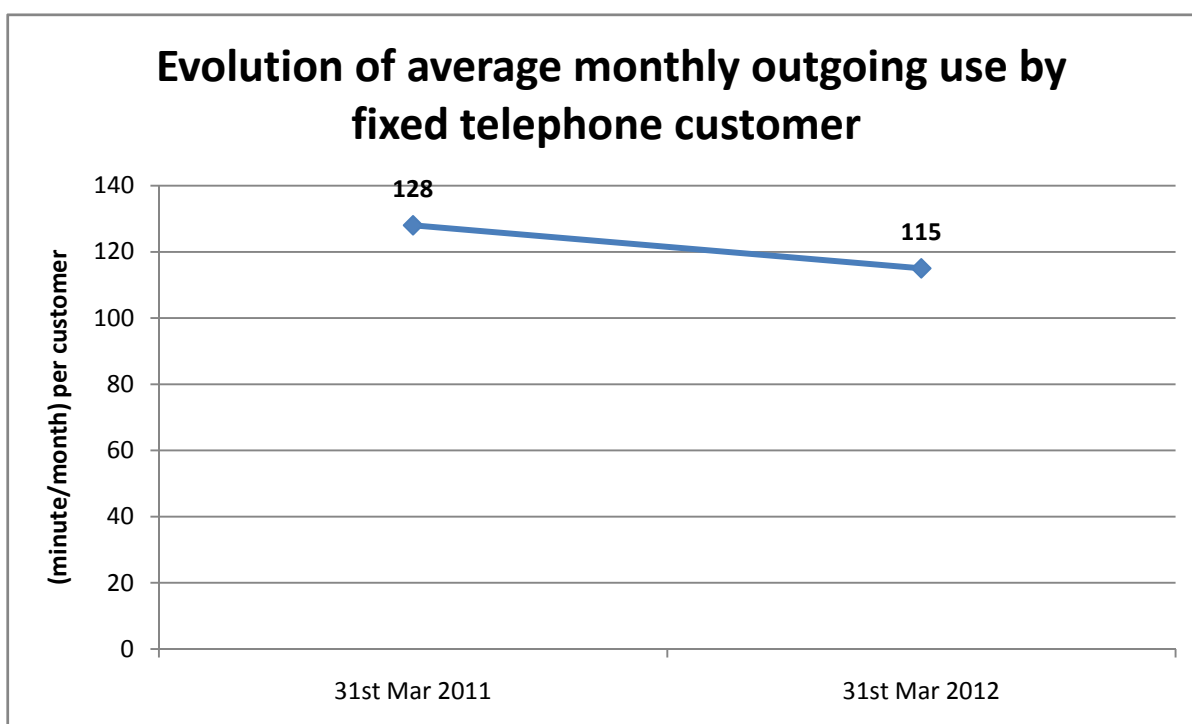
	31 <sup>st</sup> Mar 2011	31 <sup>st</sup> Mar 2012	Evolution
Average revenue per minute (ARPM) of fixed telephone call in DH Free of Tax /minute	0.97	0.86	- 11%



The downward trend in fixed prices as measured by average revenue per minute also continues. Indeed, the ARPM has dropped from 0.97 DHFoT/min at the end of March 2011 to 0.86 DHHT/min at the end of March 2012 making a decrease of 11%.

### Evolution of average monthly outgoing use by fixed telephone customer<sup>15</sup>

	31 <sup>st</sup> Mar 2011	31 <sup>st</sup> Mar 2012	Evolution
Average monthly outgoing use by fixed telephone customer (in minute/month/customer)	128	115	- 10%



The average outgoing usage per fixed customer decreased by 7% between March 31, 2011 and March 31, 2012 from 128 minutes per month to 115 minutes per month.

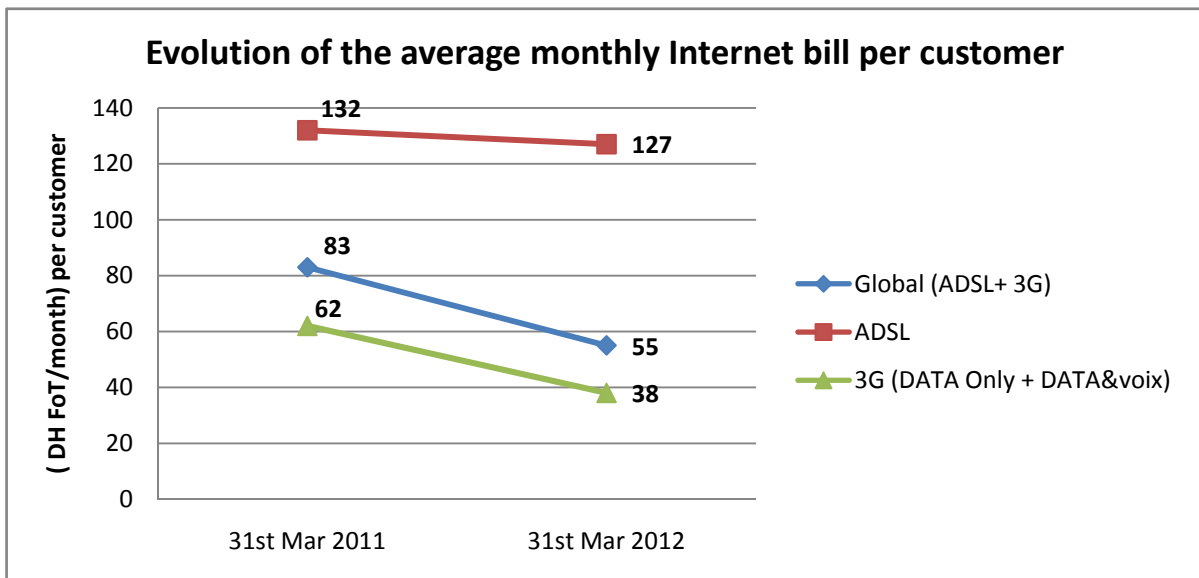
<sup>15</sup>The average monthly outgoing use by fixed telephone customer is obtained by dividing the outgoing fixed telephone voice traffic in minutes by the average number of subscribers to fixed telephony and the period in months.



## INTERNET MARKET

### Evolution of the Internet average monthly bill per customer<sup>16</sup>

	31 <sup>st</sup> Mar 2011	31 <sup>st</sup> Mar 2012	Evolution
<b>Internet average monthly bill per customer (in DH Free of Tax/month/customer)</b>	<b>83</b>	<b>55</b>	<b>-34%</b>
➤ <b>ADSL</b>	<b>132</b>	<b>127</b>	<b>- 4%</b>
➤ <b>3G Access</b>	<b>62</b>	<b>38</b>	<b>-39%</b>



The downward trend in prices measured by the average monthly bill for Internet customer is confirmed. Indeed, it has dropped from 83 DHFoT/month/customer at the end of March 2011 to 55 DHFoT/month/customer in March 31, 2012 making a decline of 34%.

For 3G Internet, this bill has dropped from 62 DHFoT/month/customer at the end of March 2011 to 38 DHFoT/month/customer in March 31, 2012 marking a 40% drop. As for ADSL, it decreased from 132 DHFoT/month/customer at the end of March 2011 to 127 DHFoT/month/customer in March 31, 2012 making a 4% decline.

<sup>16</sup>The average monthly bill per customer is calculated by dividing turnover free of tax by average Internet subscribers and the period in months.