MOBILE AND CONSUMER TRENDS DEVELOPMENT

Ella Bogoslavskaya Head of strategy planning division

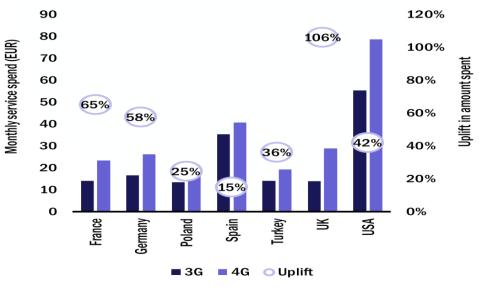


WESTERN EUROPE MARKET SHOWED FOUR YEARS DECLINE. LTE WILL BE ONE OF THE GROWTH DRIVERS

Mobile service revenue growth, Western Europe

3G effect Global financial crises LTE development **Market saturation** 1% 2005 2006 2007 2008 2011 2012 2016 2017E 2010 2004 2009 -3% -1%

4G ARPU is higher than 3G

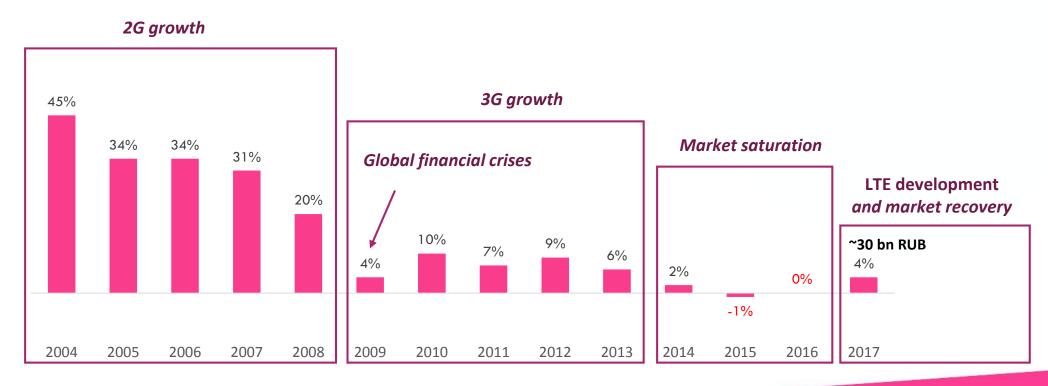


Source: Analysys Mason



RUSSIA TRENDS LAG BEHIND THE EUROPEAN MARKET FOR 2-3 YEARS WITH 2 YEARS DECLINE IN 2014-2015. WILL THE GROWTH CONTINUE IN 2018 AND FURTHER?

Mobile service revenue growth, Russia



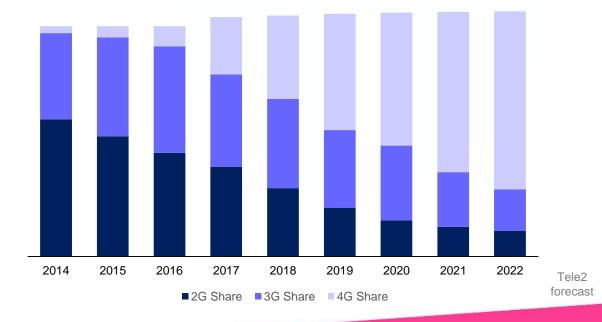


4G SMARTPHONES PENETRATION IN RUSSIA CORRESPONDS TO WORLD TRENDS

Smartphones penetration globally

Млн 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 = 2G = 3G = 4G = 5G

Smartphones penetration in Russia





ACTIVE DATA USERS WITH LTE SMARTPHONES WILL BE THE KEY INDUSTRY DRIVER

2G handset user

3G smartphone active data user

4G smartphone active data user



5



+14% ARPU



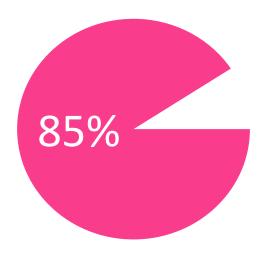


+24% ARPU

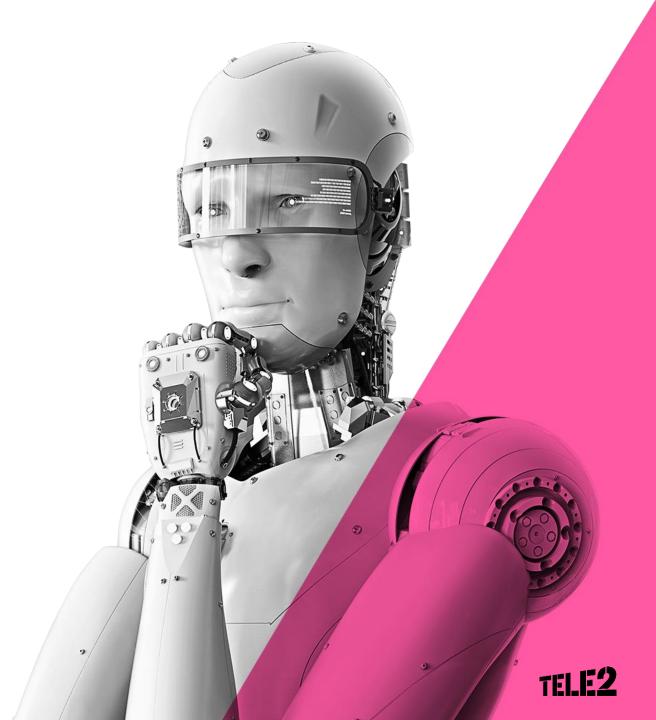


IT'S A DIGITAL - FIRST WORLD

By 2020, customers will manage



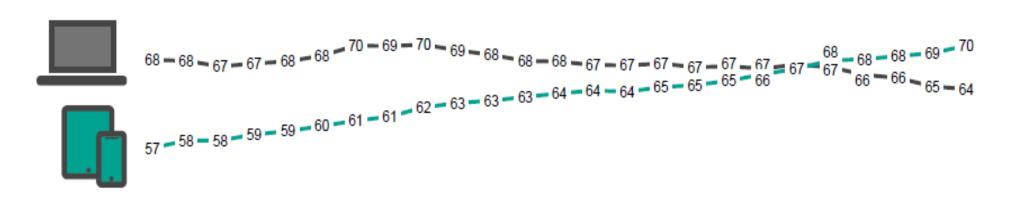
of their relationships with enterprises without interaction with a human



Smartphone is the first screen now

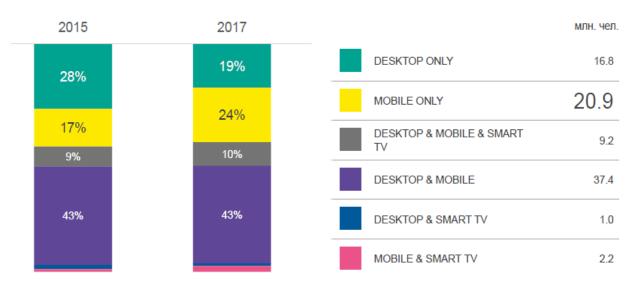
2017 is the year of mobile internet

Russia 0+, time spent in internet



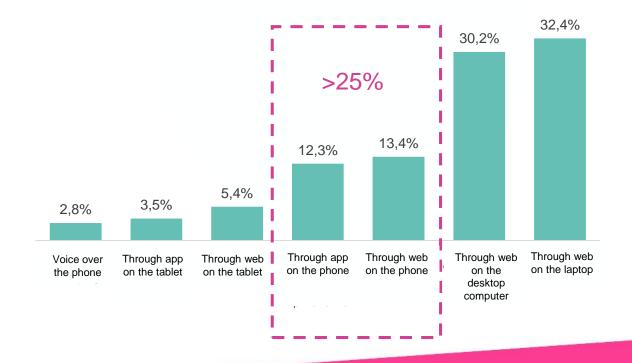
A QUARTER OF INTERNET USERS GO ONLINE AND MAKE PURCHASES WITH A PHONE

New trend – mobile-only users



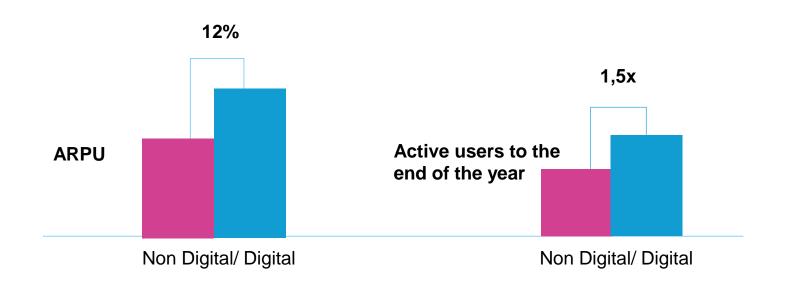
Internet usage with different devices

Online purchases with a phone amounted to 25% already





DIGITAL CUSTOMERS HAVE THE HIGHEST ARPU AND LOWEST CHURN



Those customers who purchased SIM card online make a more conscious choice which leads to a higher ARPU and longer Life Time



Key points

- 1. Active data users with LTE smartphones are the key driver of mobile operators revenue in the near future
- 2. More customers are using digital interfaces for purchases and communications with the operator
- 3. A deep understanding of the client, his needs and preferences is the key to success of business growth