

## **Telconomics** 2018 progress report

22 May 2018

# Arcep publishes its annual market scorecard: key figures for 2017

 Operator revenue
 Operator investment

 €36.2 billion (retail market)
 €36.2 billion (retail market)

 Stable
 €9.6 billion + 0.7Md€ /

Number of broadband and superfast broadband access lines

Number of SIM cards



+ 0.7 M



arcep

## **Pro-investment policy**

Regulation to improve fixed and mobile connectivity

# Connectivity: a strategic challenge for France's digital transformation

Improving connectivity is vital to laying the groundwork for the digital society' development:

- Ensure access to and supply of online content for everyone
- Guarantee quality of service to keep pace with changing user habits



#### Make France a connected nation: one of the goals set out in the strategic review

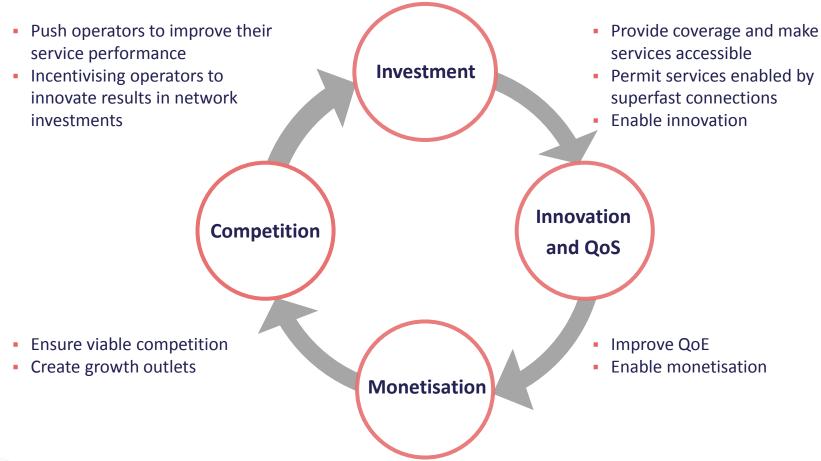


Determine infrastructure rollout targets for the next three years

Progress reports: connectivity advancing in France but still room for improvement

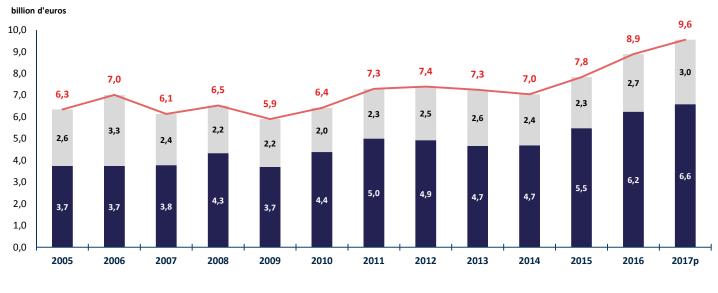
## Improving connectivity through pro-investment regulation

# Competition is not an end unto itself: it Is part of a broader scheme to promote network investments



## Operators continue to step up investments...

### Increased investment in both fixed and mobile businesses



Estimation des investissements fixes Esti

Estimation des investissements mobiles

Investissements hors achats de fréquences

Increase spurred by superfast local loops

Superfast total (Bn€)	3.4	+ 0.7	
- of which fixed	1.8	+ 0.3	
- of which 4G	1.6	+ 0.4	



## ... which is reflected in infrastructure rollouts...



### Expansion of FTTH network coverage

**3-year target:** 7 to 8 million new FttH access lines deployed by private or public sector players

Progress status: 4.25 million access lines deployed since Q1 2016



### Achieve infrastructure-based competition

**3-year target:** two co-investors on 80% of FttH access lines deployed **Progress status:** more than 85% of access lines deployed financed by at least two commercial operators at the end of 2017

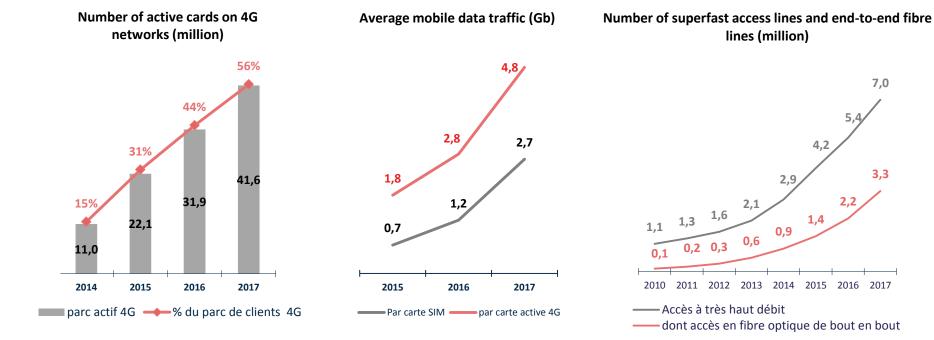


#### Upgrade existing cell sites to 4G

**3-year target:** 25,000 sites upgraded from 2G/3G to 4G **Progress status:** 20,000 sites upgraded since Q1 2016

## ... and undergirding changing user habits

### Increase in 4G and superfast FttH subscriber numbers



## 4G networks used by +62% of the population



- x4 for all customers
- x2.5 for 4G users

FttH the chief purveyor of fixed superfast access line growth

# Actions carried out this year

Several projects with a structuring effect on the sector

## Structuring actions to accelerate fixed superfast rollouts

### Several courses of action to lead operators to invest quickly and efficiently



## Accelerate subscribers' transition to superfast access through market analysis

- Facilitate access (e.g.: streamlining the Orange civil engineering offer)
- Facilitate connections and alternative operators' ability to market access products (taking Orange commitments into account)

### Accompany national operators' arrival on PIN

- Introduce guidelines to prevent pricing issues
- Supervise new kinds of access products that enable the advent of national operators (e.g. framework agreement that Free the Bouygues Telecom signed with several PIN operators)

#### **Ensure efficient investments**

- Public consultation on the draft recommendation on achieving consistent FttH rollouts
- Opinion delivered to the Senate on the conditions for modernising electronic communications infrastructures and achieving regional digital coverage



# A pro-investment framework for alternative operators in the business market

Create the conditions for the development of a competitive wholesale market, to enable a host of retail market business operators to innovate

### Enterprise penetration rate in need of improvement

- 44% of SMEs (50 to 500 employees) connected
- 15% of SoHos (fewer than 49 employees)
- Source: Novascope study, mid-2017

#### Market analysis: obligations imposed on Orange

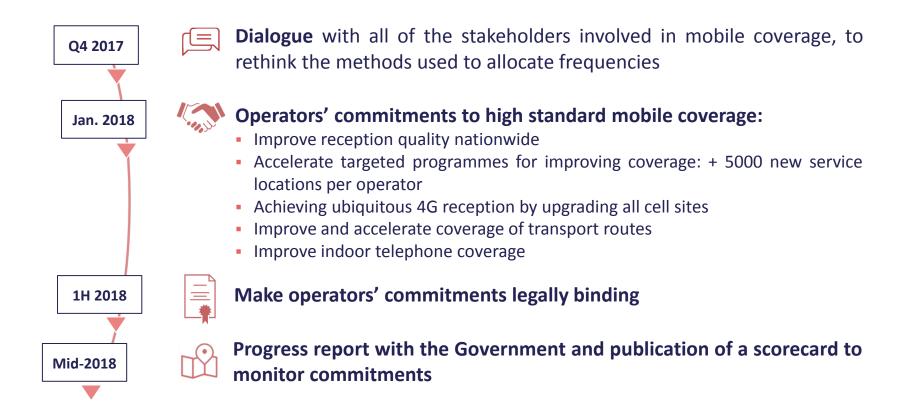
- Offer passive access products on the FttH network tailored to operators targeting the business market
- Provide an improved QoS option on the operated FttH lines





# An historic agreement to bolster operators' investments in mobile networks...

The New Deal: a paradigm shift from the Government, recognising the telecoms sector is crucial to outfitting the country with networks



## ... in keeping with Arcep guidelines on network sharing

Strengthen pooled investments to accelerate digital coverage in the country's most sparsely populated areas

Apply guidelines on network sharing between mobile operators



## Shared investment obligations under the New Deal to achieve efficient investments

- Active sharing for at least 2,000 service locations per operator, of the 5,000 listed in the new targeted coverage scheme
- Passive sharing for the remainder
- For each new site deployed, obligation to inform other operators, with a view to
  potentially hosting them at that site

## Actions to pave the way for investing in 5G networks in France

Several projects devoted to anticipating a wide variety of users' connectivity needs on future 5G networks



### Identify the issues surrounding an innovative technology

Report on 5G issues and challenges, following a dialogue with stakeholders, to explore the disruptions created and potential courses of regulatory action



### Prepare to free up and allocate frequencies

- Study on the methods for rearranging the 3.4 3.8 GHz band
- Public consultation on the system for introducing 5G on the 26 GHz band
- Preparation of the frequency allocation procedure
- Coordination with public sector entities to create a positive regulatory environment for rollouts

**Objective: allocate 5G frequencies to enable commercial launches by 2020** 



### Lead the ecosystem and stimulate the development of new applications

Simplify technical trials through the creation of a "5G pilot" window that is available to all stakeholders (notably vertical sectors) to:

- Test the technology
- Test use cases and mobilise players interested in these frequencies
- Obtain initial feedback and prepare for frequency allocations
   Objective: active trials by 2019



### 5G work programme to be announced in the coming weeks

## Use the power of data to engage the sector in a virtuous, proinvestment cycle



Better informed users to better steer the market: provide customised information through consumer platforms and open data



**Letting the user experience help craft regulation:** complete traditional forms of intervention with a less intrusive approach, through the notion of the State-as-a-platform



Join forces with the crowd: and work with crowdsourcing specialists to obtain better sources of information from users





# Data to stimulate mobile operators' investments, in support of regional connectivity

Monreseaumobile.fr: heavy dose of transparency to redirect the basis of competition by focusing on network performance





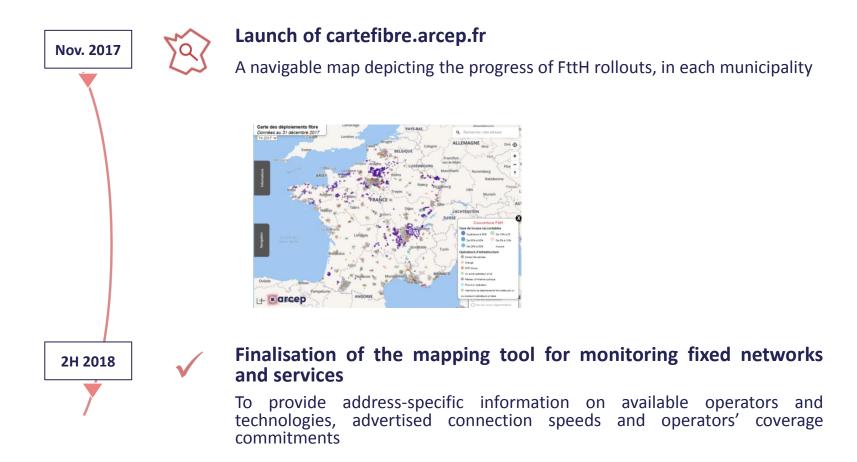
Publication of operators' enhanced coverage maps that now include different levels of coverage in Metropolitan France Publication of data on French overseas markets

Coverage maps enhanced to include QoS indicators for **data services** (notably 4G)



## Data to stimulate investments in fixed services

New tools to encourage superfast network rollouts



## A platform to better connect Arcep to realities in the field



**Give users the ability to report malfunctions and provide them with the information they need, on a case-by-case basis** 



**Enable Arcep to become a more effective regulator:** 

- Monitor network issues in real time
- Identify recurring malfunctions and surges in user reports





## Alliance with multiple testing specialists to create a wellinformed community

Collaboration with third-parties to have access to a greater wealth of data

## **Develop a crowdsourcing approach**

#### With the sector's specialists:

- Reach a consensus on data collection methods
- Demand high standards of quality, transparency and representativeness
- Arcep's reuse of these players' data

With all of the **relevant information aggregators:** from the fields of consumer protection, transport, property, tourism, etc.



## **Example: agreement between Qosi and Arcep**

Reuse of monreseaumobile.fr data in Qosbee





Use of all of the data obtained through Qosi crowdsourcing **applications and field surveys** 



## Europe maintains its pro-investment stance



### BEREC's ongoing work on connectivity

- Adoption in December 2017 of a joint report with RSPG on the challenges of bringing coverage to "challenging" locations
- Draft of a common position on measuring mobile coverage, planned for 2018
- 5G as a strategic priority for BEREC in the medium-term
- Draft of a report on pricing terms and conditions governing access to civil engineering infrastructures



Final discussions are underway on incorporating the goal of developing connectivity and investment into the revised framework



## France's connectivity lag is not yet behind us

France in European rankings in 2017



## Worse on connectivity (DESI)

Main weaknesses: 4G and superfast coverage ratesMain strengths:broadbandcoverageandprices



(27<sup>th</sup> in 2016)

## Unchanged on fixed superfast rollouts (DESI)

> 30 Mbps: 27<sup>th</sup> place. Difference from 15<sup>th</sup> place: 9.7 million households
 > 100 Mbps: 25<sup>th</sup> place



### Improved on 4G coverage

**21<sup>st</sup> place** (23<sup>rd</sup>in 2016) **Operators' average coverage rates:** 21<sup>st</sup> place. Difference from 15<sup>th</sup> place: coverage of an additional 1.5 million people (DESI)

**20<sup>th</sup> place Tot** (24<sup>th</sup> in 2016) of a

Total rate of population coverage: 20<sup>th</sup> position. Difference from 10<sup>th</sup> place: coverage of an additional 420,000 people (Digital scoreboard)
Above the average rate for a European country the first time.



# Thank you for listening

