## 2018 « Economics of Telecoms » Report – Update of key economic metrics



FÉDÉRATION FRANÇAISE DES TÉLÉCOMS

Fédération Française des Télécoms



## Agenda

- I Evolution of the global digital ecosystem
- 2 French digital ecosystem: dynamics and European benchmark

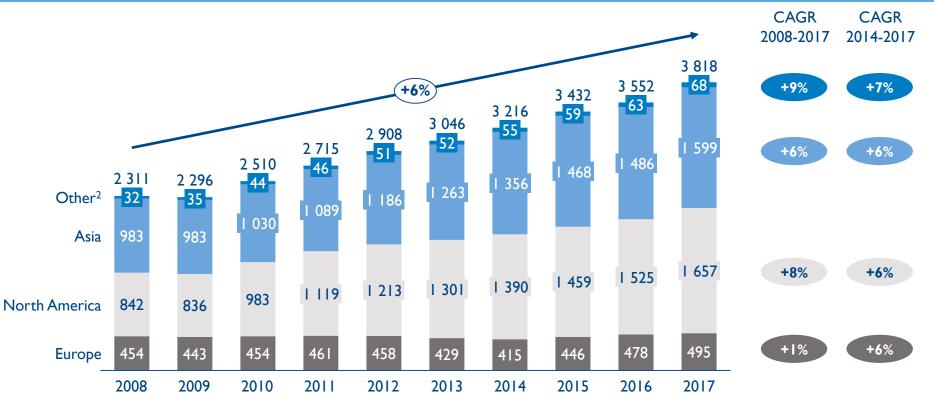




### All regions have been growing at a similar pace since 2014

#### Revenues of the digital ecosystem

World, 2008-2017, billions of euros<sup>1</sup>

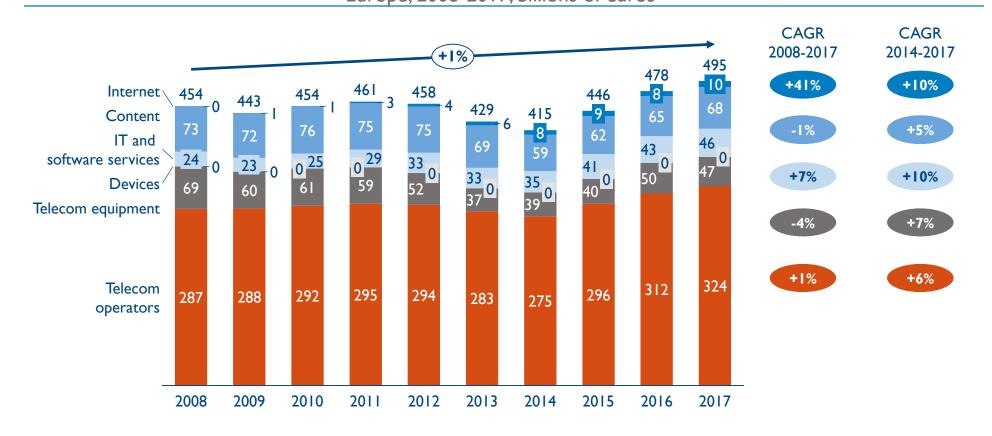






# After a low point in 2014, the European digital ecosystem returned to growth, mainly driven by telecom operators

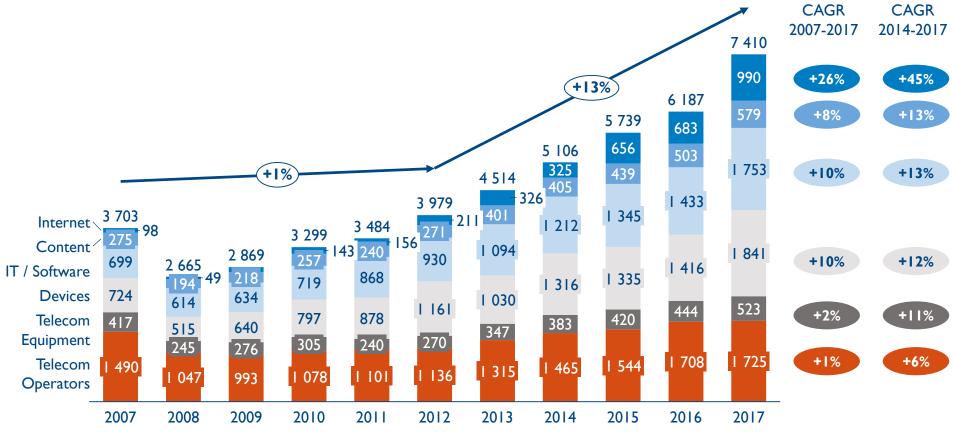
Revenues of the European digital ecosystem<sup>1</sup> Europe, 2008-2017, billions of euros<sup>2</sup>





The ecosystem has caught up with its pre-crisis market capitalization level long ago, with growth driven by the Internet and Software segment

> Market capitalization by sector World, 2007-2017, billions of euros<sup>1</sup>



Source: Thomson Reuters, Arthur D. Little Note : 1) Constant exchange rate 2017, IUSD = 0,887EUR



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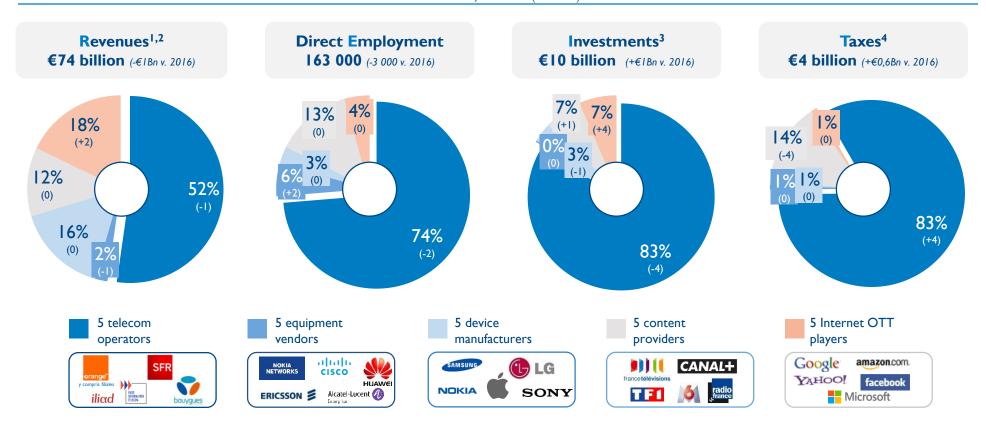
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### Telecom operators are essential to the French digital ecosystem

#### Relative size of players in the digital ecosystem 2016-2017 France, 2017 (v. 2016)



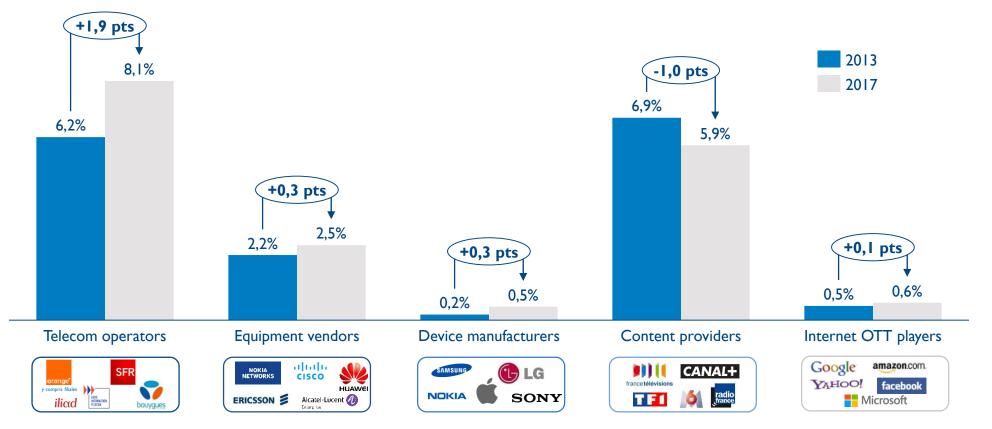
Source : Diane, annual reports, Arthur D. Little

Note : 1) Revenues declared in France or from literature search, 2) Data adjusted to take into account the estimated actual turnover of international players in France, 3) Nokia's mobile division investments are integrated into Microsoft following the acquisition of the mobile division in 2014, 4) Corporation tax, taxes and similar disbursements



Telecom operators have faced a sharp increase in their tax rates, as opposed to equipment vendors and internet players

Taxes<sup>1</sup> to Revenues<sup>2,3</sup> ratio per type of players France, 2013 v. 2017, %



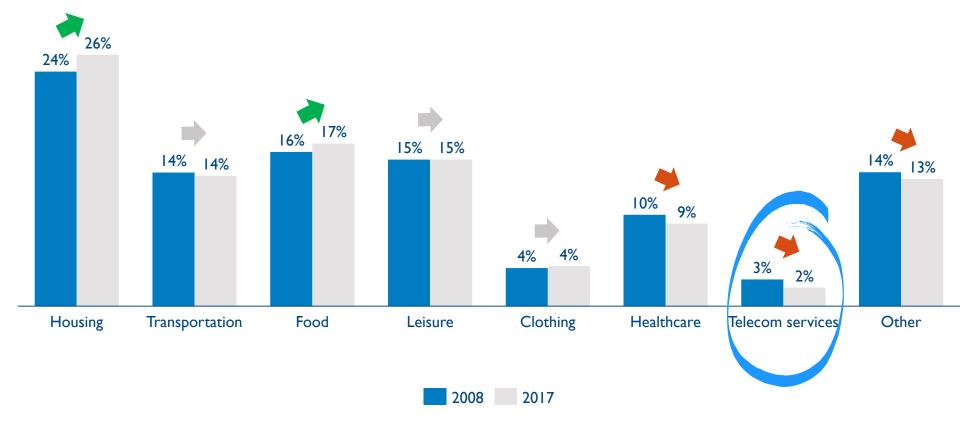
Source : Diane, annual reports, Arthur D. Little

Note : 1) Corporation tax, taxes and similar disbursements, 2)Revenues declared in France or from literature search, 3) Data adjusted to take into account the estimated actual turnover of international players in France



The share of telecom services in French households' spending is low and has decreased over the last years, contrary to other expense items

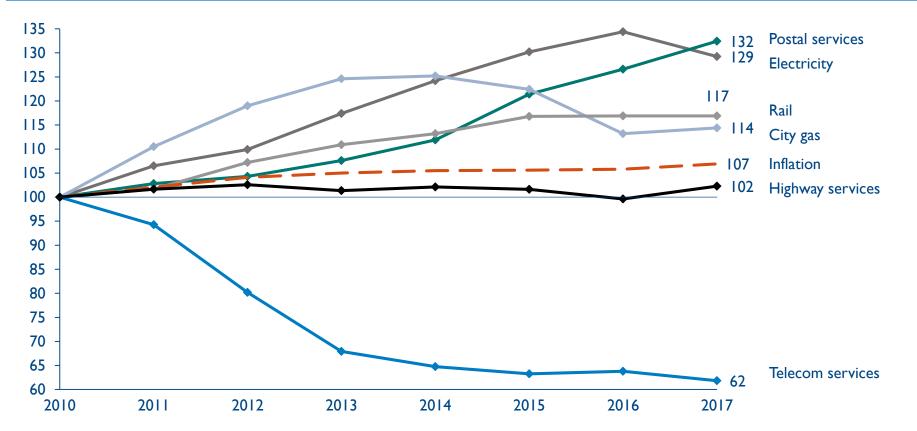
Share of telecom services expenses in French households' total spending France, 2008-2017, % of total spending





## Contrary to other key regulated sectors, telecom services have witnessed a sharp fall in prices over 2010–2017

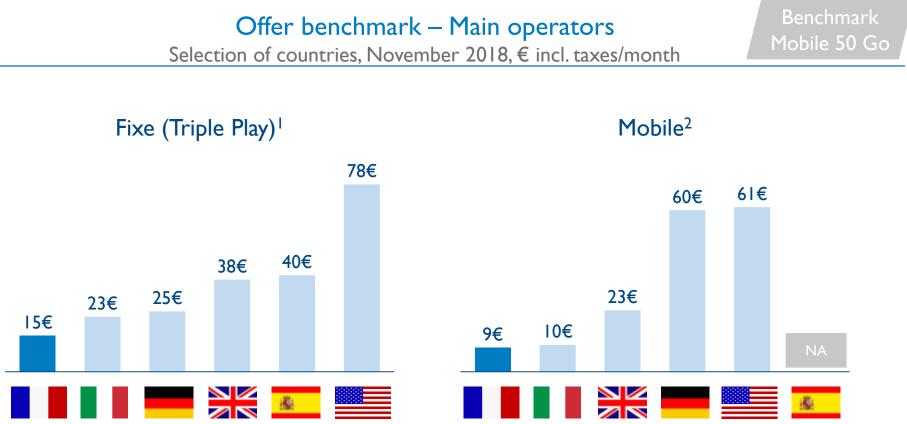
Consumer price index evolution on selected products France, 2010–2017, Base 100 in 2010







## Prices of telecom services in France remain the lowest among large Western countries



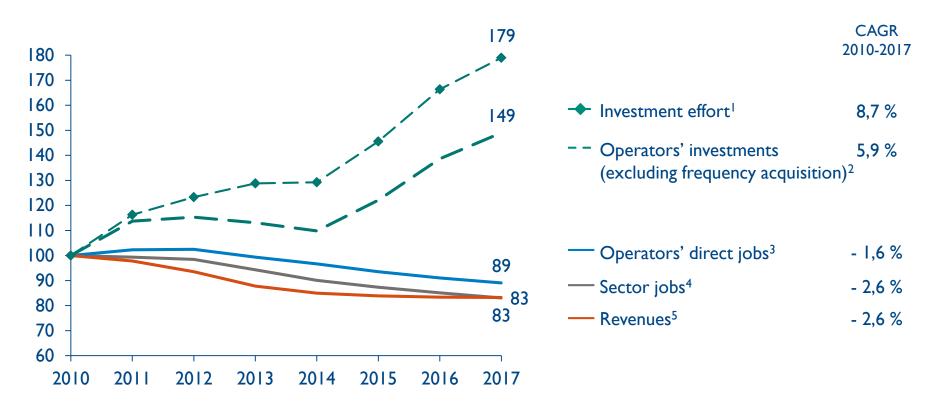
Source: Operators, Arthur D. Little

Note: 1) Triple play offers only; unlimited calls to landline at least; unlimited broadband internet through xDSL or fibre; television included, excluding additional packs; operators with market share > 10%, 2) Unlimited calls (whenever possible or else >500 minutes), unlimited SMS/MMS, at least 5 GB Internet; packages without devices, packages without commitment; operators with market share > 10%



# Operators increased their investments despite lower turnover, but could not maintain employment levels

Employment, revenues and investments of French telecom operators France, 2010–2017, base 100 in 2010



Source: ARCEP, DARES, Insee, Arthur D. Little

Note: 1) Investment efforts: operators' investments (excluding frequency acquisition)/revenues of operators 2) Provisional ARCEP figures for 2017

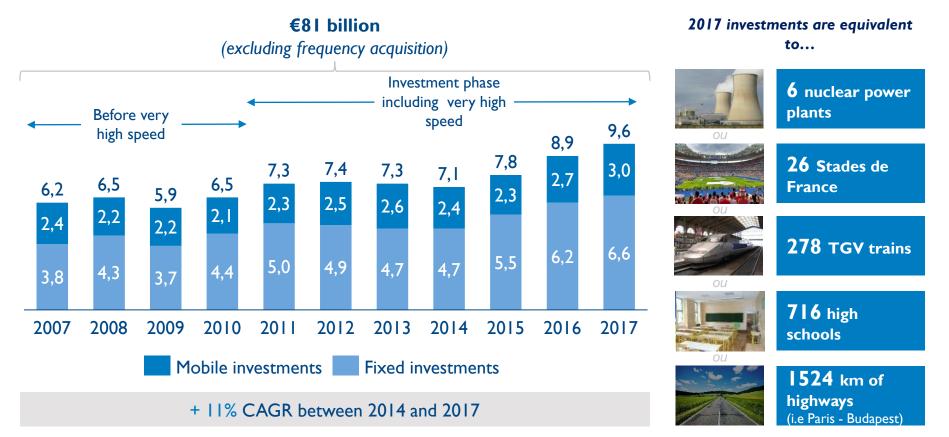
3) ARCEP figures 4) ARCEP figures including part of indirect jobs 5) Provisional ARCEP figures for 2017 corresponding to revenues collected from final client



# Telecom operators' investments have peaked in 2016 and 2017 – $\in 81$ billion were invested over the period

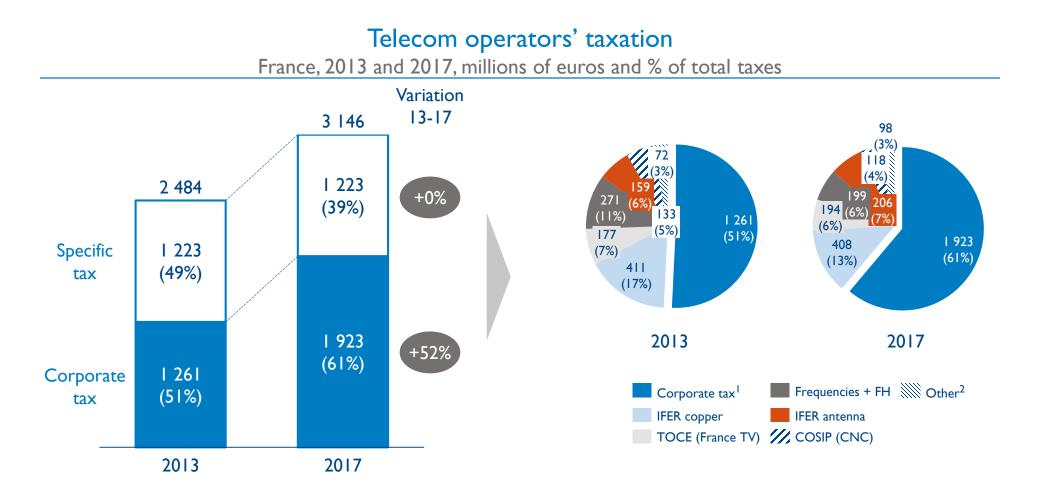
#### Investments of network operators<sup>1</sup>

France, 2007–2017, billions of euros





### Investments keep growing in spite of a heavy specific taxation







## Increased investments and taxes lead to lower cash flow despite productivity efforts

Economic performance of major French telecom operators<sup>1</sup>



Source: Companies, literature search, ARCEP, Arthur D. Little

Note : 1) Top 5 French telecom operators including Orange, SFR, Bouygues Telecom, Free and El Telecom 2) Estimated operational FCF (EBITDA – CAPEX) 3) ARCEP figures representing sector investments, excluding frequency acquisition 4) Taxes = Corporate + Specific Taxes

x% % of revenues

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