

McKinsey  
& Company

# The 5G inflection point

Operator perspective

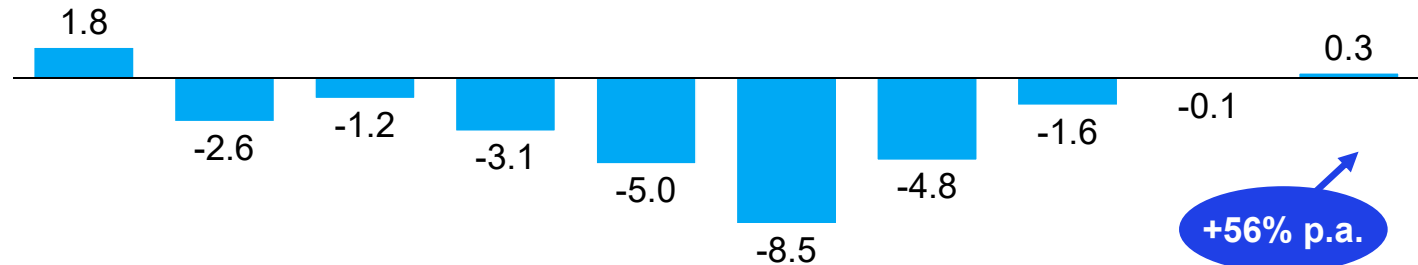
Rolando Balsinde | Port Vila, July 12 2019

CONFIDENTIAL AND PROPRIETARY  
Any use of this material without specific permission of McKinsey & Company is strictly prohibited

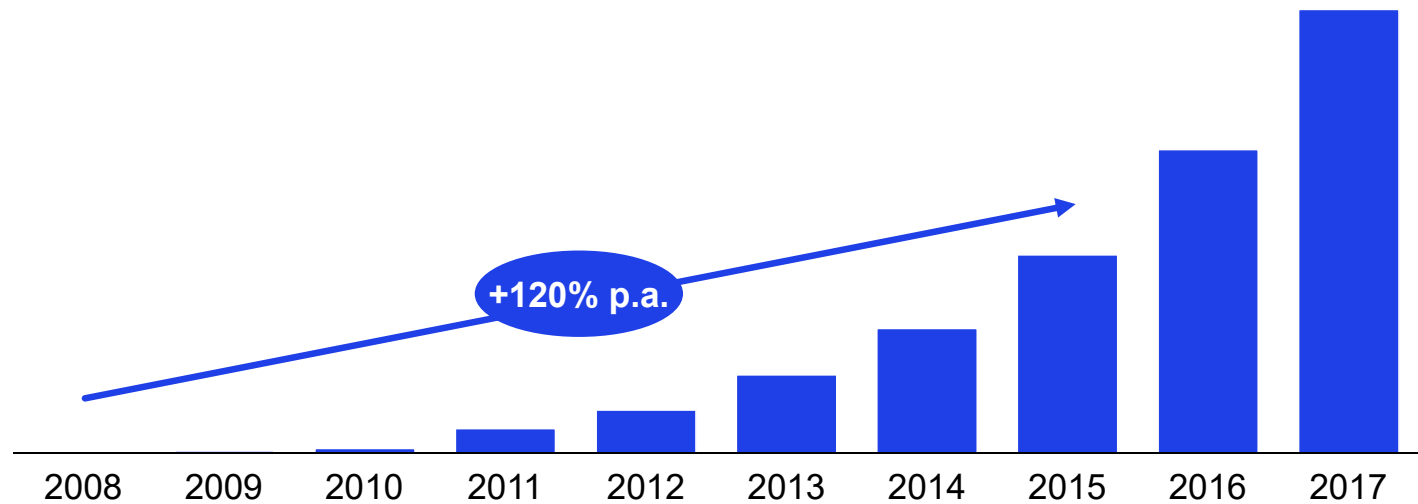


# Business performance has been challenging – falling revenues despite exploding usage





**Mobile revenue growth**  
Percent YoY



**Mobile data**  
EB/year



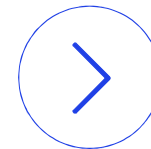
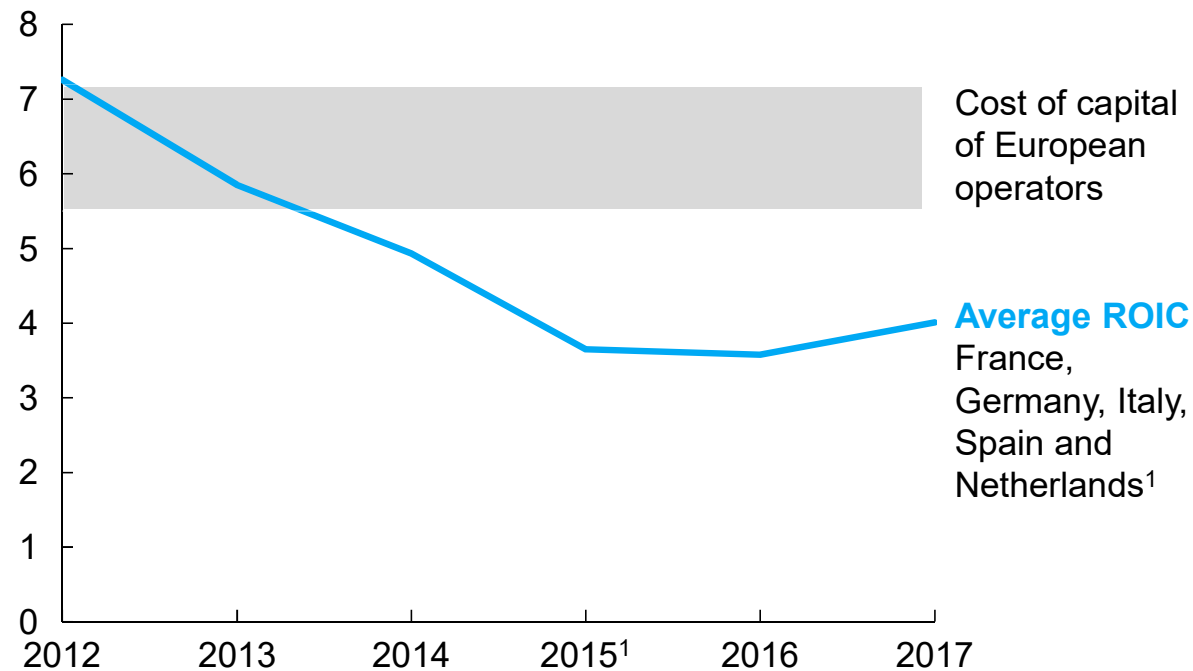
# The inevitable race for 5G has begun and all operators are defining their strategies

	Challenger network	Best network (at scale)
First-movers	<p><b>Disruptors</b> – attacking incumbents, but without a long-term strategy to lead in network</p> 	<p><b>First and best</b> – brand value built on offering the best network <i>first</i> – focused on premium and early adopter customers</p> 
Wait-and-see	<p><b>Fast-followers</b> – challengers content with awaiting proof of concepts, then following</p> 	<p><b>Stable leaders</b> – focused on long-term network leadership – less so on moving first – leaders that launched 4G after market challengers</p> 

# Operators are badly positioned to take on further investments with return of invested capital (ROIC) below cost of capital

## Evolution of European MNOs return on invested capital

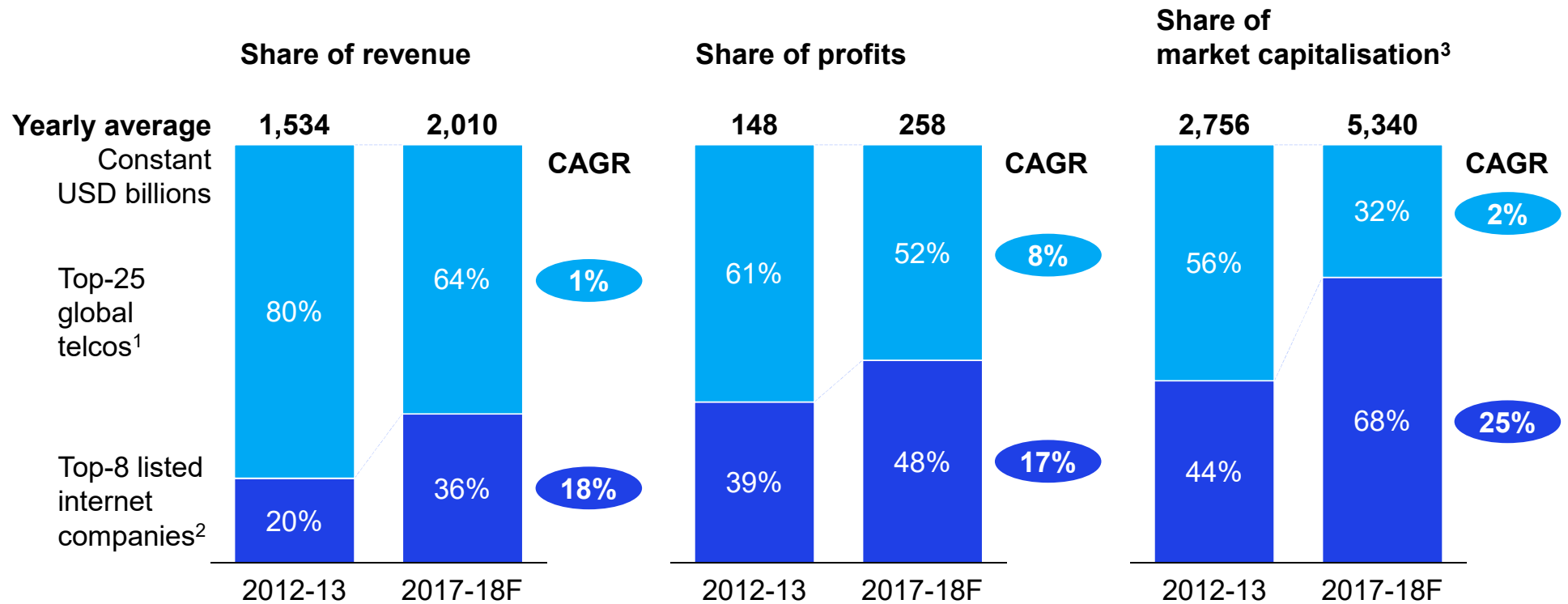
Percent



Without and inversion of trend, further investment in the sector would look increasingly unattractive

<sup>1</sup> Does not include Movistar (Telefonica) figures for Spain in 2015 due to the temporary impact of a plan for voluntary employment suspension

# Over the last five years telcos have lost significant ground to new internet companies

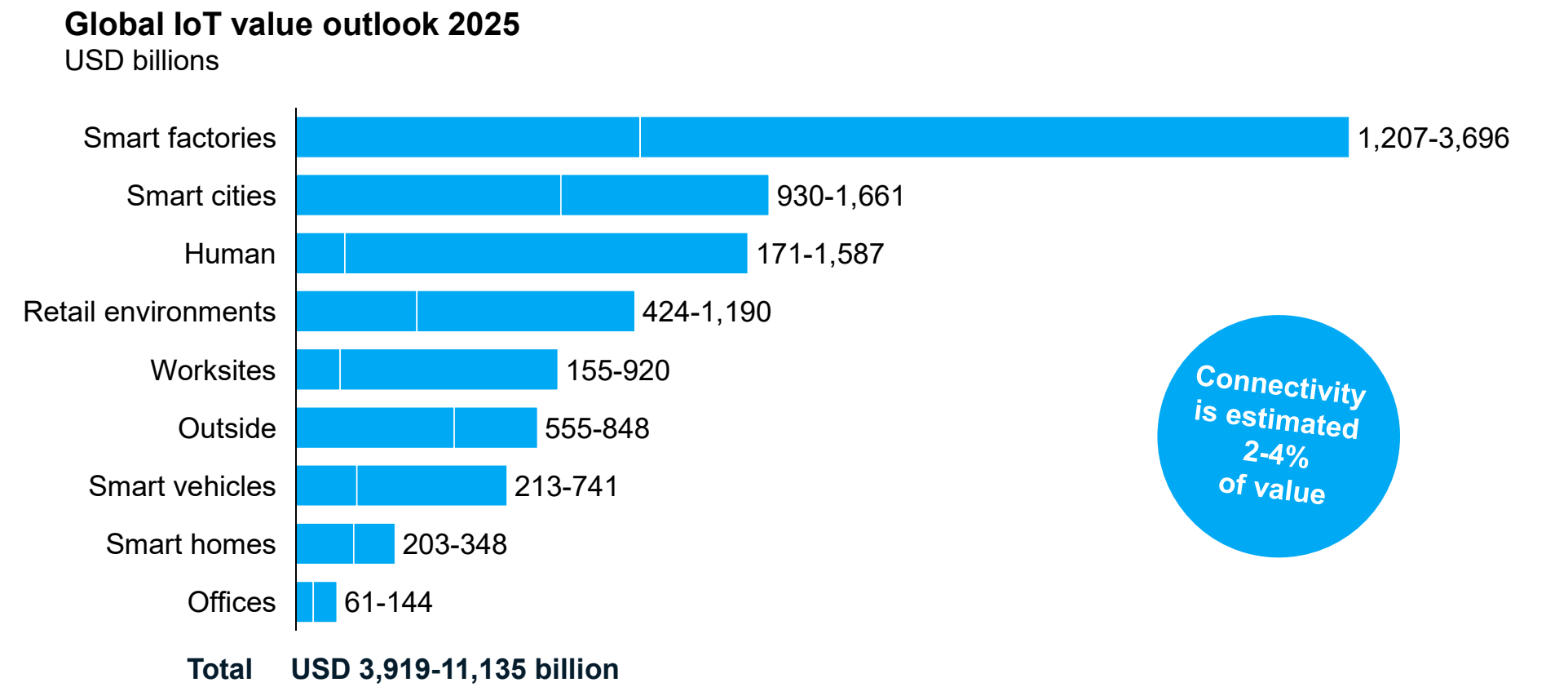


1 Operators includes the top 25 global operators by revenue

2 Internet companies comprise of FANG, BAT and Apple








3 Based on December 2017 and September 2018 average, excluding companies that were not around in 2012

# Going forward value pools will shift “up-stack” with diminishing value of connectivity



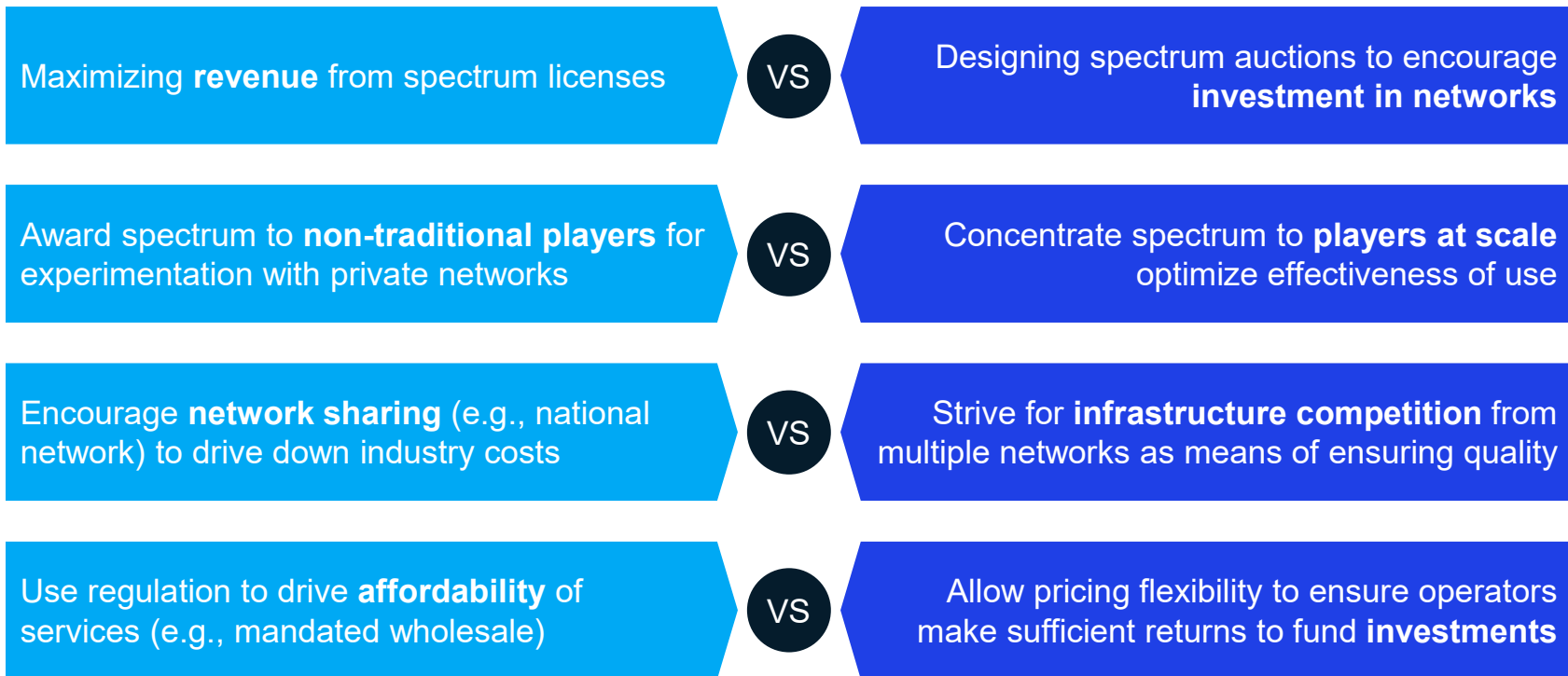
# Regulators need to define an industry strategy and approach



Dimension	Topic	Example
Industry structure	# players	
	# networks	
	Private networks	
Spectrum	Bands	 
	Auction approach	
Customer experience	KPIs	
	Coverage	
Wholesale and partnerships	Wholesale	
	National roaming	
	Network sharing	
	Ecosystems	
	Slicing	

# There are several difficult but important trade-offs inherent in designing 5G regulation

---







## **McKinsey on regulation – contact for further questions**

[Rolando\\_Balsinde@McKinsey.com](mailto:Rolando_Balsinde@McKinsey.com)

[Halldor\\_Sigurdsson@McKinsey.com](mailto:Halldor_Sigurdsson@McKinsey.com)

[Gustav\\_Grundin@McKinsey.com](mailto:Gustav_Grundin@McKinsey.com)

