

TELECOM REGULATION AND INVESTMENT

Roland Doll

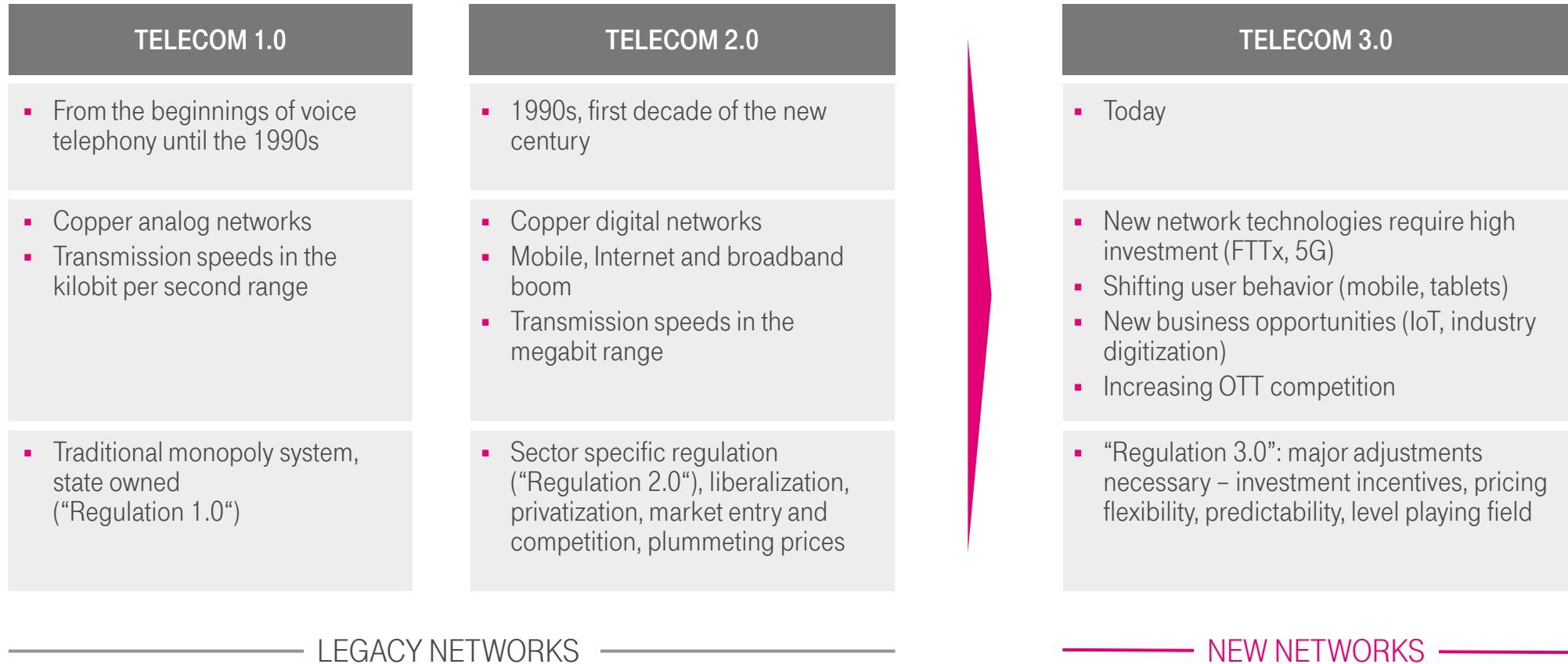
VP European Affairs, Deutsche Telekom

CEPS, 16 November 2016



LIFE IS FOR SHARING.

TELECOM REGULATION IN A CHANGING INDUSTRY ENVIRONMENT



€ 660 billion

Investment need to reach the levels of speed and coverage outlined in the European Commission's Gigabit Society vision

Source: BCG

UNBUNDLING AND COST REGULATION IMPEDING DIFFERENTIATED, SEGMENT-SPECIFIC PRICING

Broadband market segments

High-end segment

- SMEs, „digital natives“, gamer, large households with multiple users
- Technology- and Internet oriented

- Demand for high-speed Internet access
- High willingness to pay

Low-end segment

- Latecomer to digital technologies, „digital immigrants“, single-person households
- Moderate-bandwidth applications
- Budget limitations

- Content with moderate access speeds
- Low willingness to pay

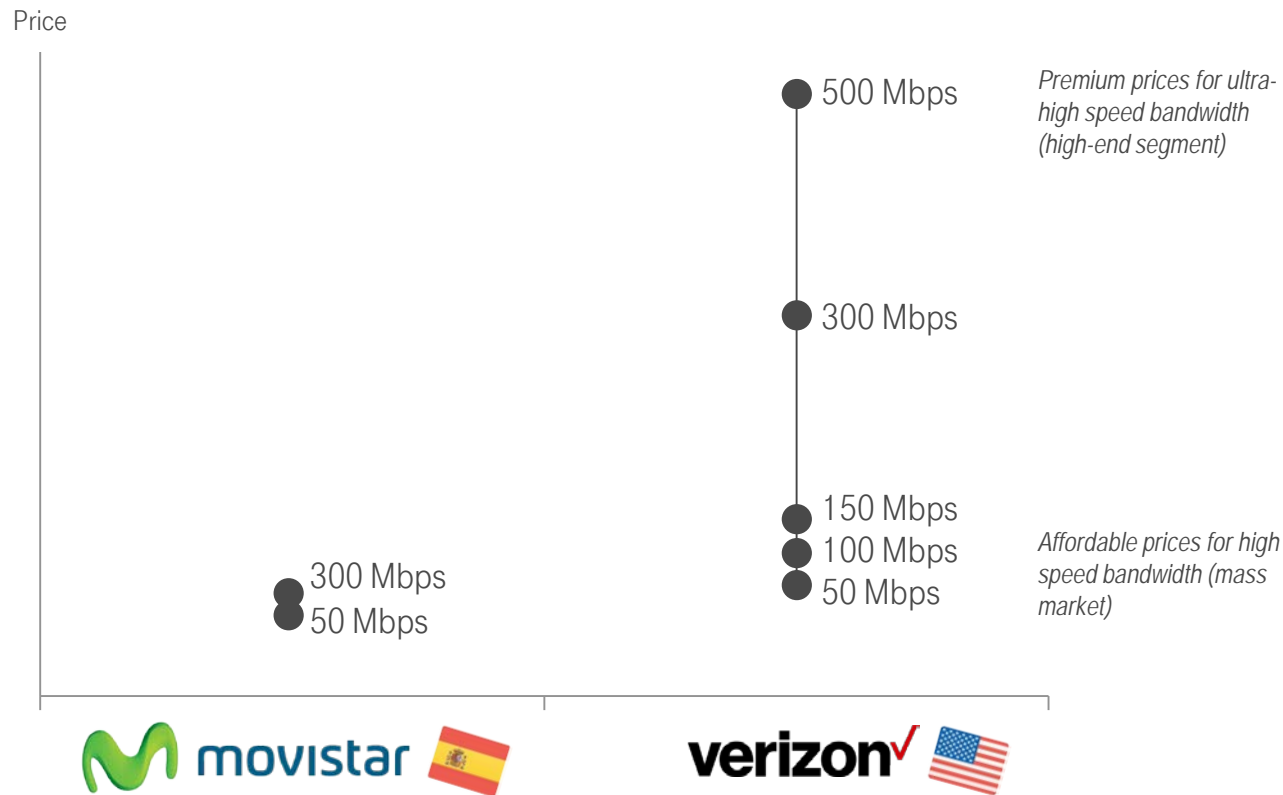
Networks, regulation, pricing and investment

- **Single platform multipurpose production for all market segments** (fibre replacing copper)
- **Unbundling** and **cost regulation** leading to uniform wholesale prices, hindering price differentiation (arbitrage problems)
- **Retail price** level determined by regulated wholesale prices



PRICE DIFFERENTIATION IN PRACTICE: LIGHT-TOUCH REGULATION IN THE U.S. ENABLING DIFFERENTIATED PRICING

Broadband offers EU vs. US: two examples



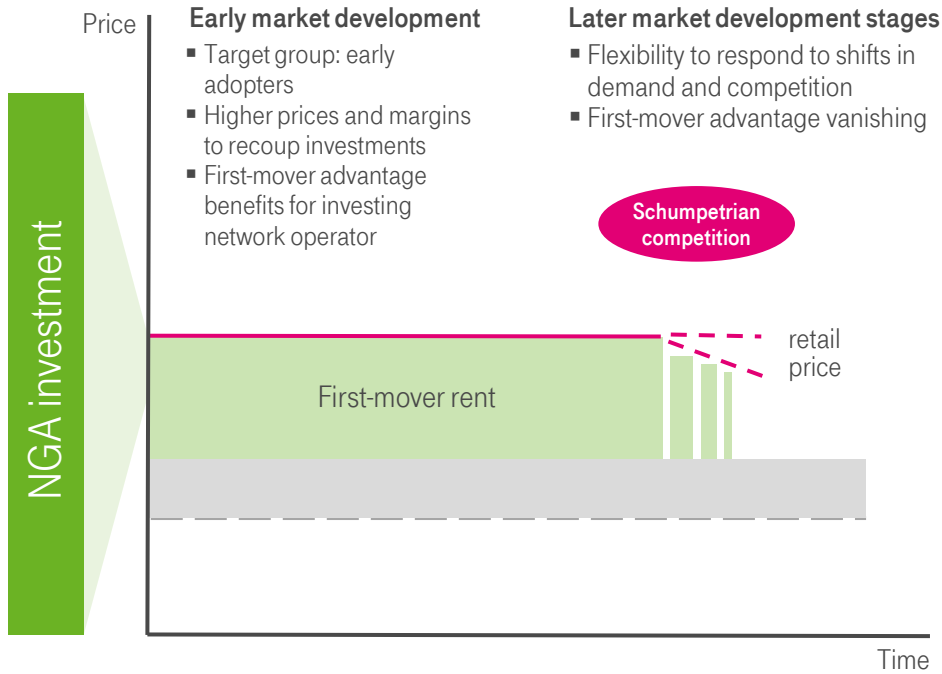
Light-touch regulation

- Enables operators to introduce differentiated, segment-specific pricing for customer segments that are willing to pay for higher speeds
- Ensures that returns on network investments are more attractive

FIRST-MOVER ADVANTAGES CRUCIAL TO FOSTER NETWORK INVESTMENT

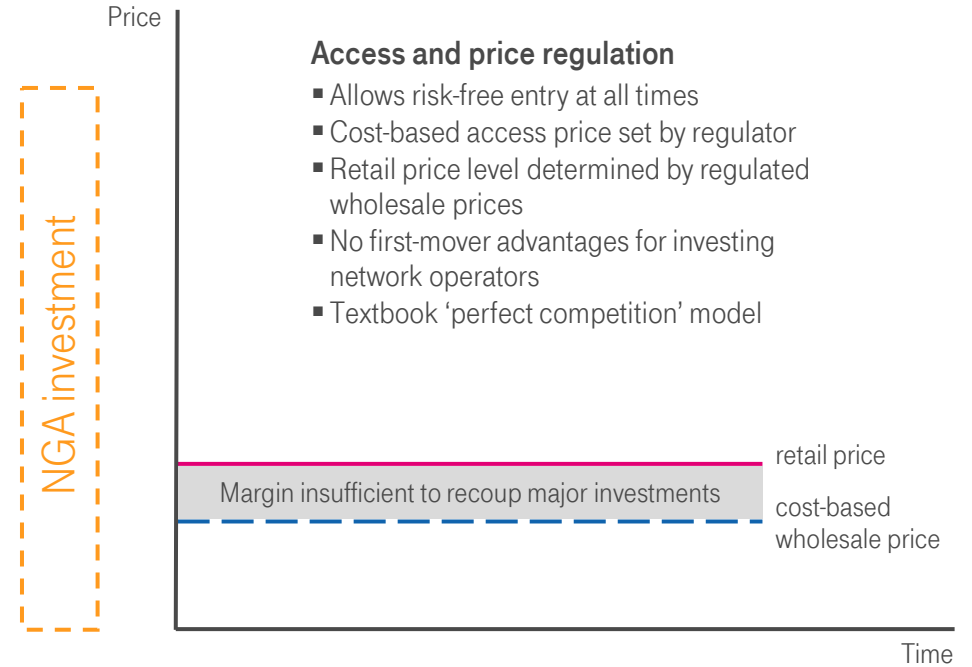
Commercial NGA deployment

STYLIZED



Regulated NGA deployment

STYLIZED



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REGULATION IN EUROPE NOT CONDUCTIVE FOR INVESTMENT IN NEW HIGH-SPEED NETWORKS

Tough access and price regulation

Plummeting prices, declining revenues

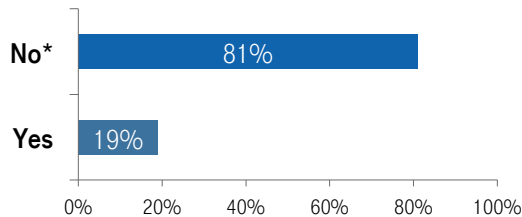
Huge investments requirements

Value capture by OTT players

- No first-mover benefits for investing network operators
- Price differentiation difficult with physical unbundling and cost orientation
- Very long investment payback periods
- Investors highly sceptical

CREDIT SUISSE TELECOM INVESTOR SURVEY, 2016

Does EU telecoms regulation strike the right balance between price competition and network investment incentives?



* too focused on competition (e.g. from resellers)

Fixed and mobile CAPEX in domestic networks (million EUR)

