

GRUPPO TELECOM ITALIA

**NGN&WiFi - Bologna, 26/9/2011**

# Next Generation Network: The Telecom Italia Approach

Gianfranco Ciccarella - TI NGAN & Partnership



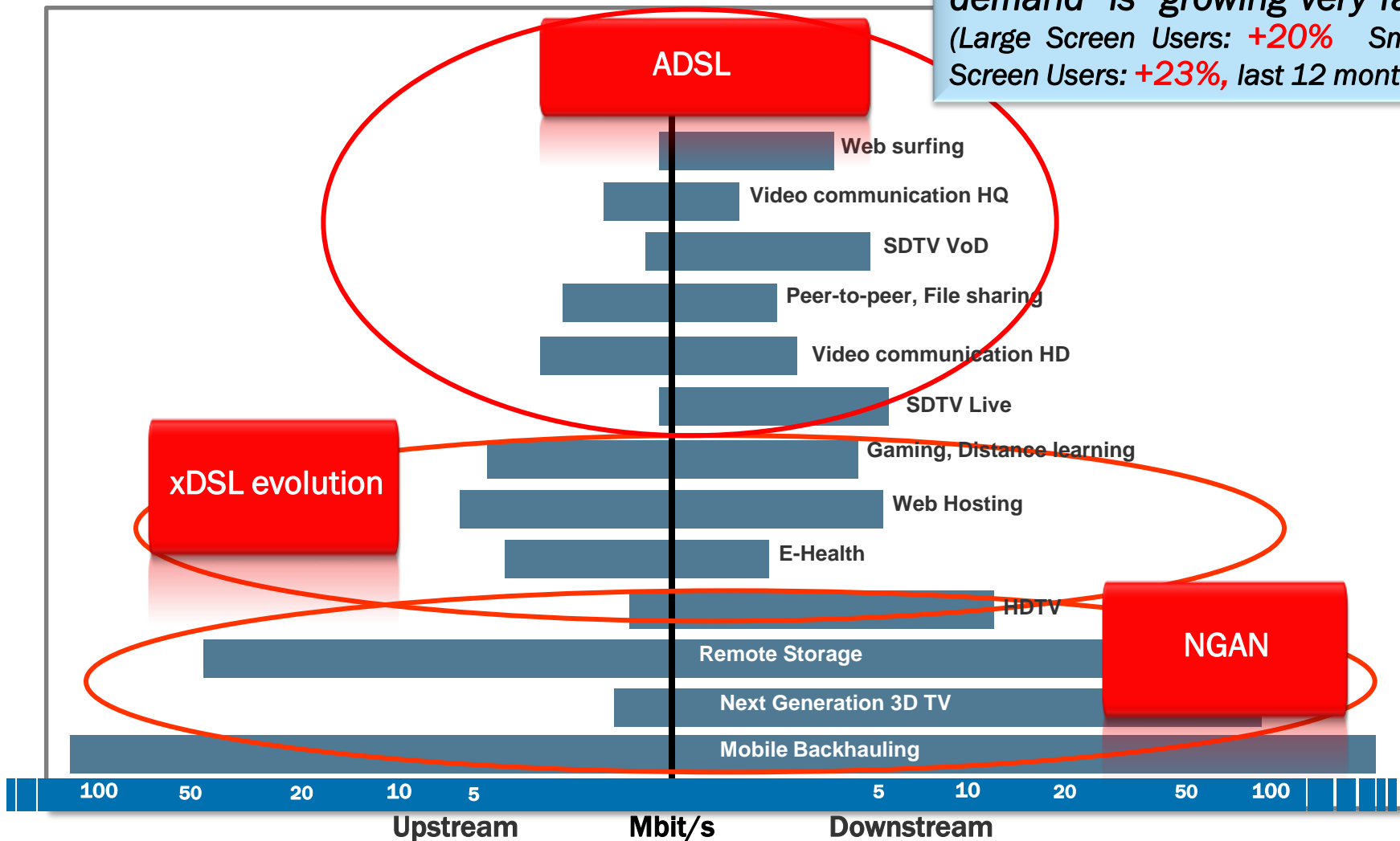


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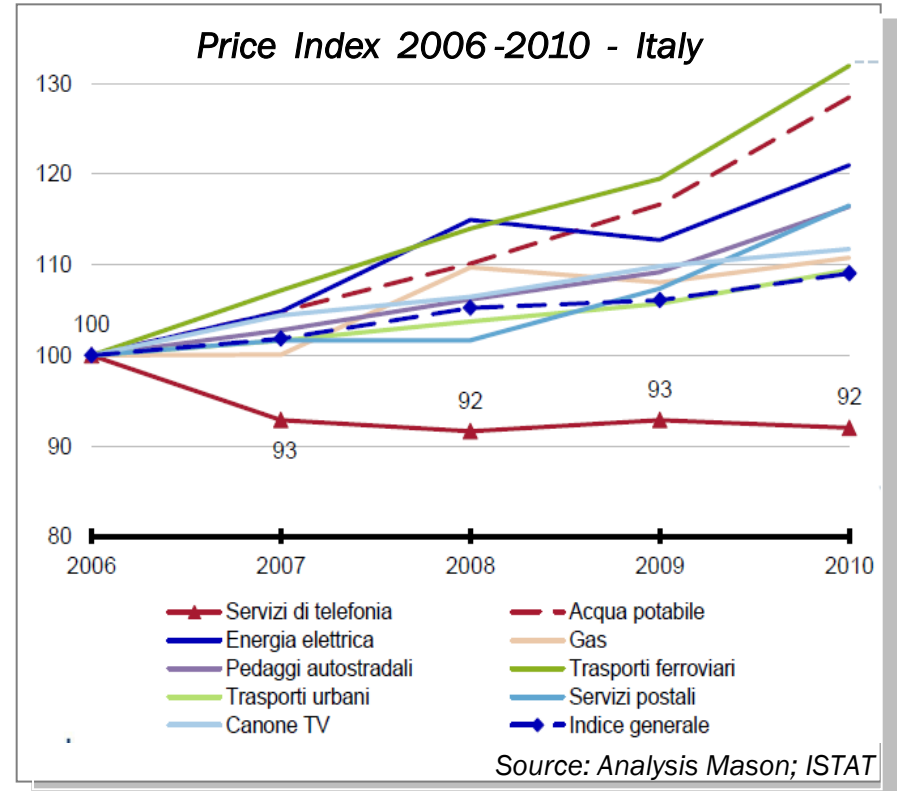
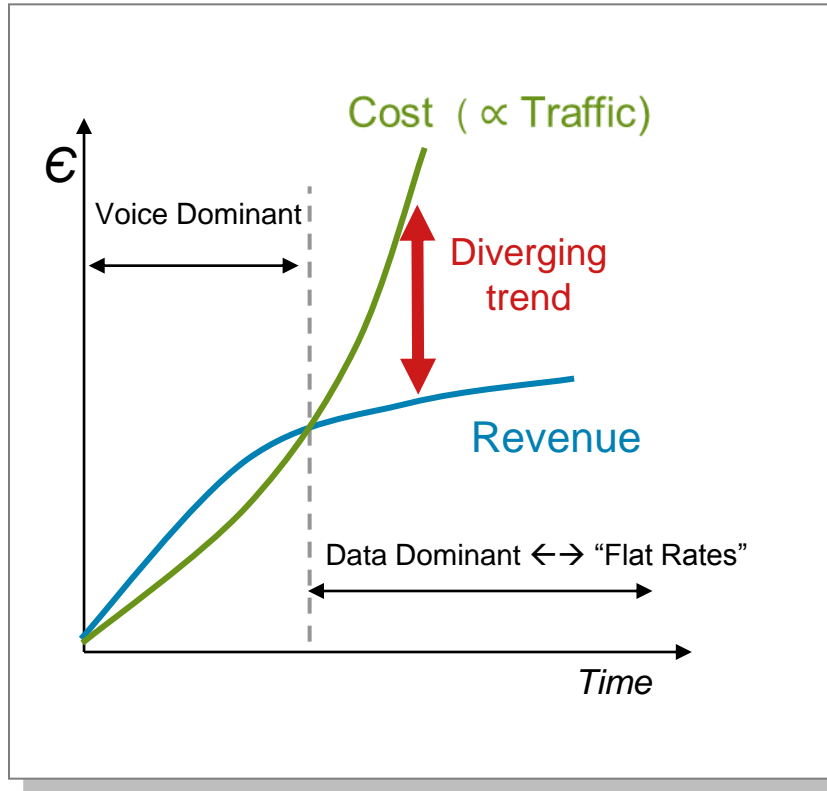
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# Service Requirements

**Mobile Broadband** services demand is growing very fast  
(Large Screen Users: +20% Small Screen Users: +23%, last 12 months)



# Sustainability



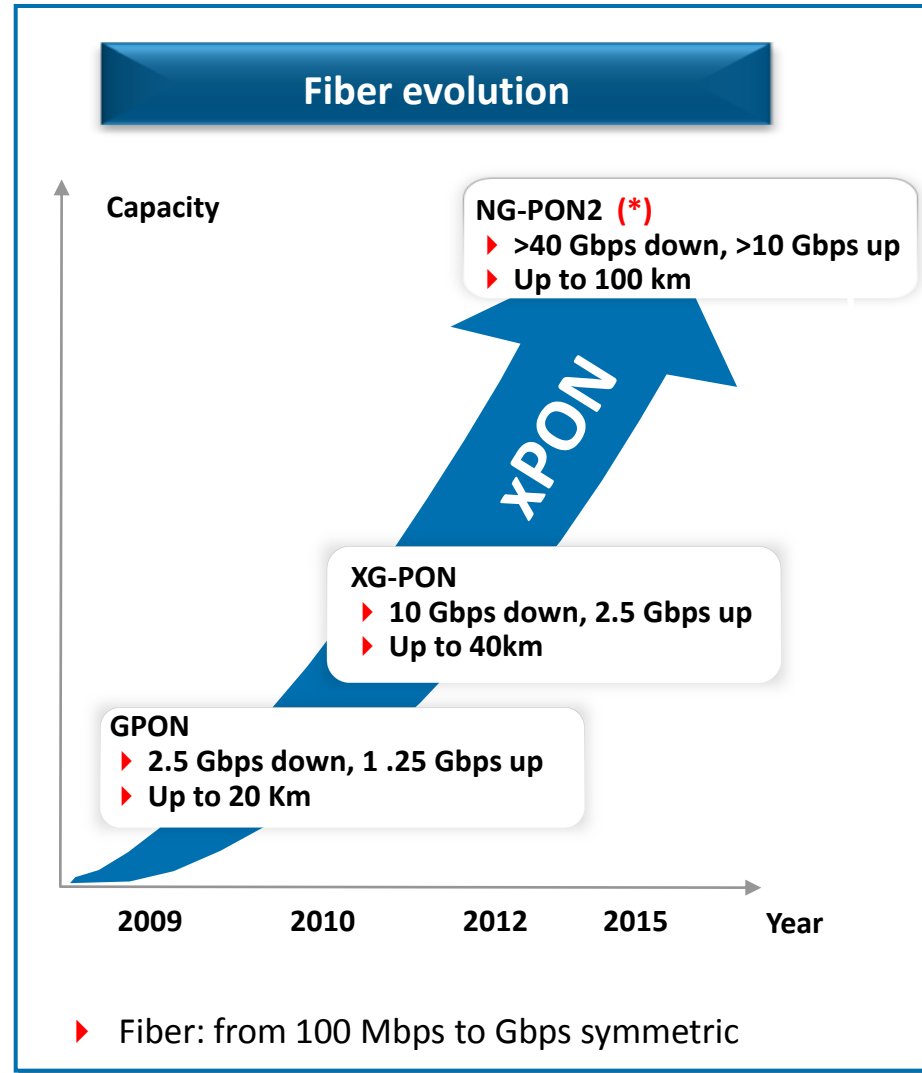
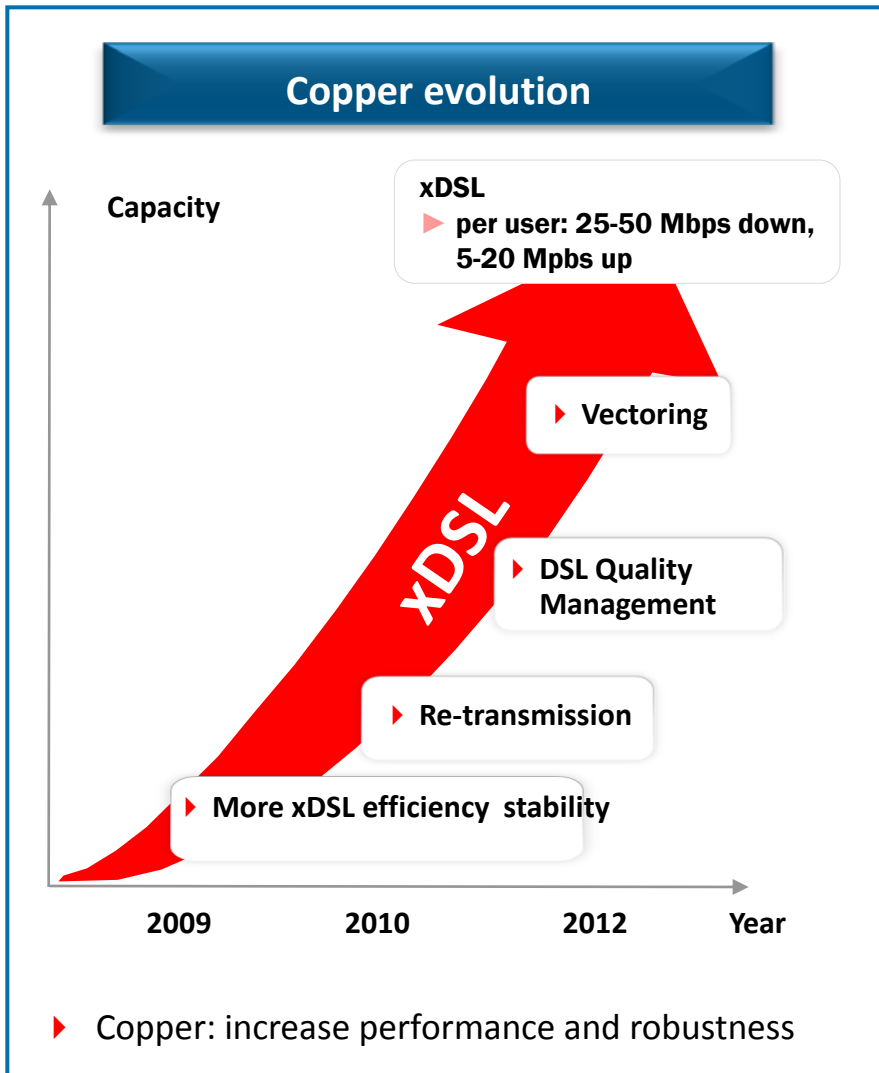
New Business Models will be required to solve the Costs/Revenues Gap and to allow sustainable UBB development



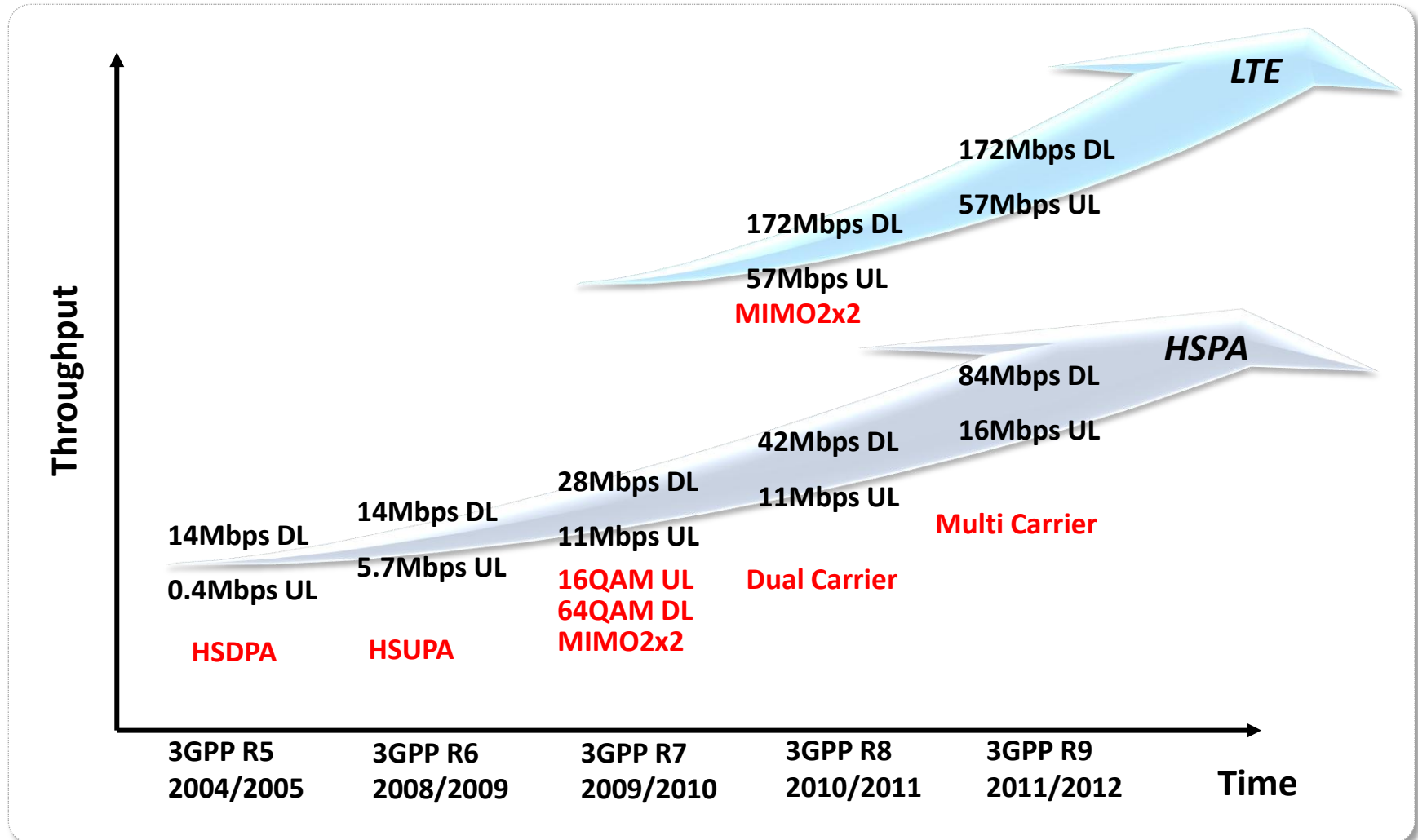
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# Copper and fiber options

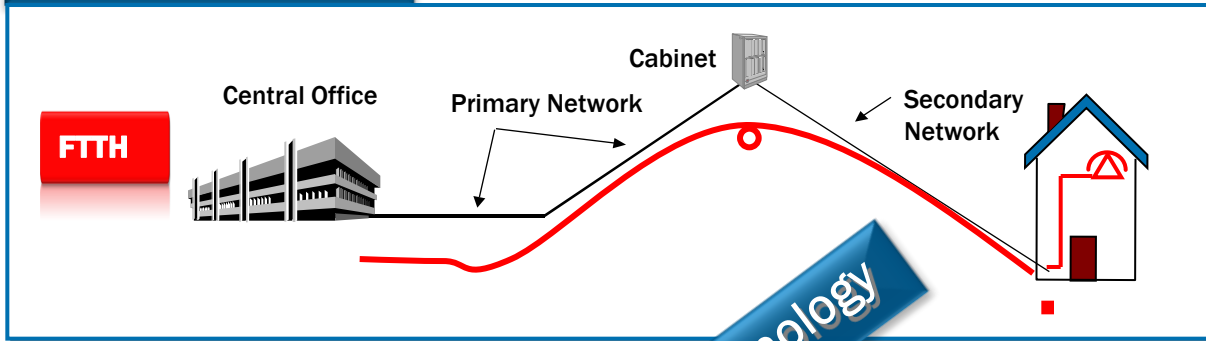


# Wireless Technology evolution

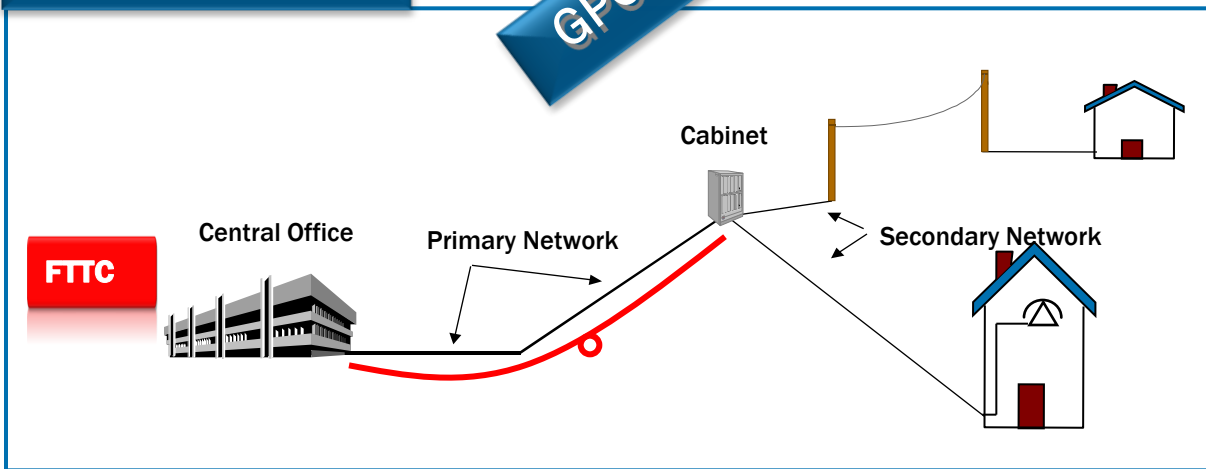


# Reference architecture and technology

## VERY DENSE AREAS



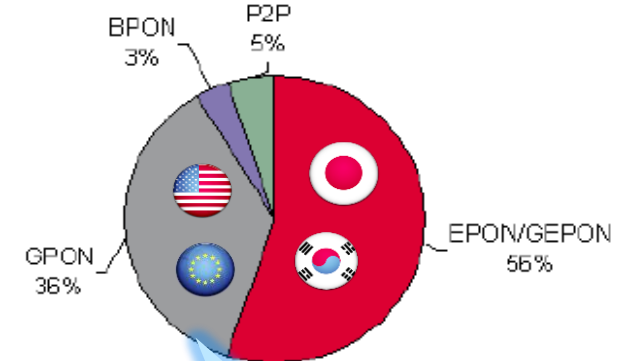
## LESS DENSE AREAS



**GPON technology**

**P2MP → 95%**

4Q09–3Q10: \$3.3m market



**GPON OLT:**

↑ 254% Δ Year

**GPON ONT/ONU:**

↑ 70% Δ Year

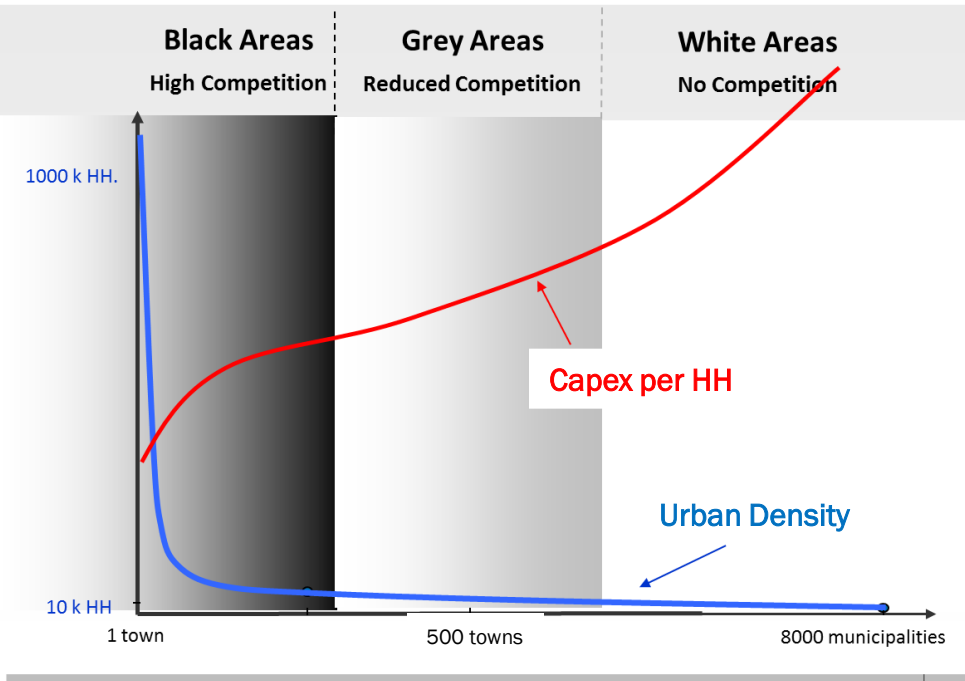


# The Fiber dilemma

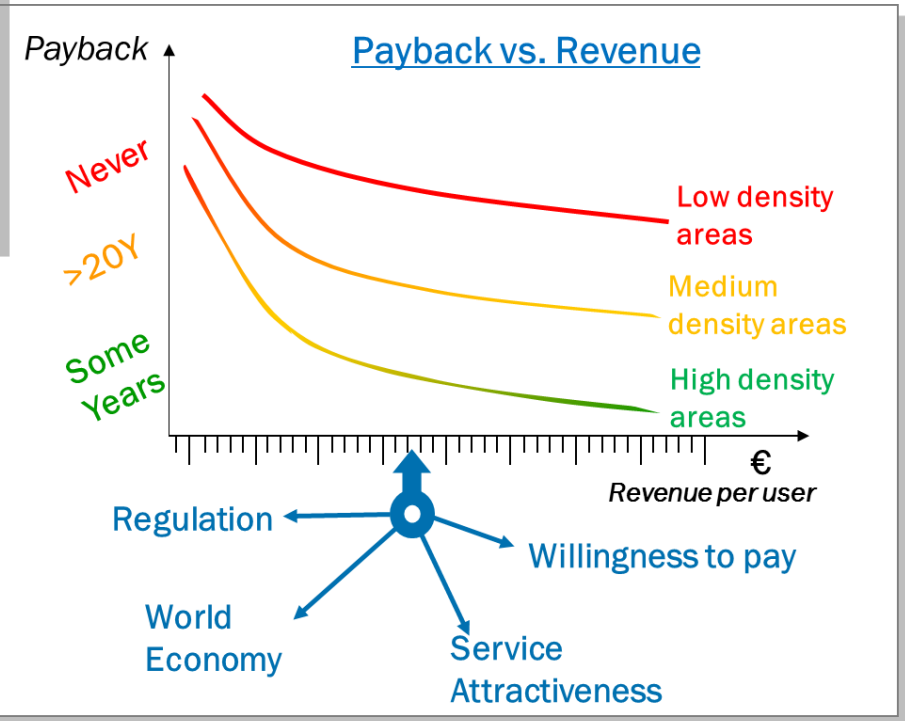
*Fiber access network is the evolutionary path, but...*



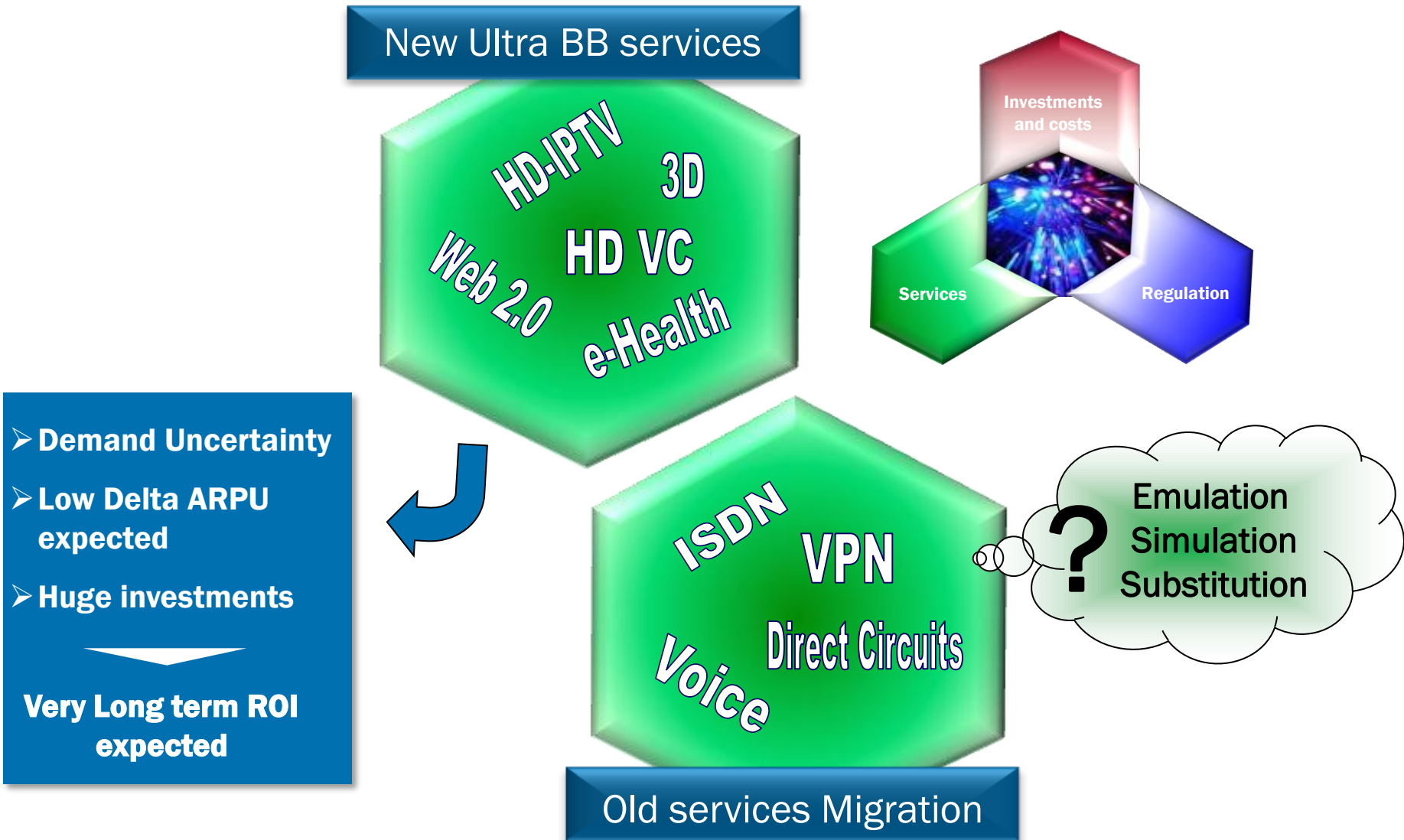
# Geographic differentiation



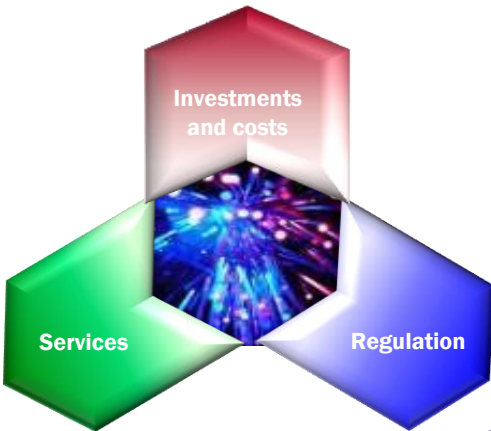
*The NGAN Sustainability is highly dependent on geographic parameters*



# Services



# Regulation



Infrastructure competition and co-investment

Symmetrical obligation for access to passive infrastructure

Geographical differentiation of obligation and pricing

*Clear regulatory rules are required*

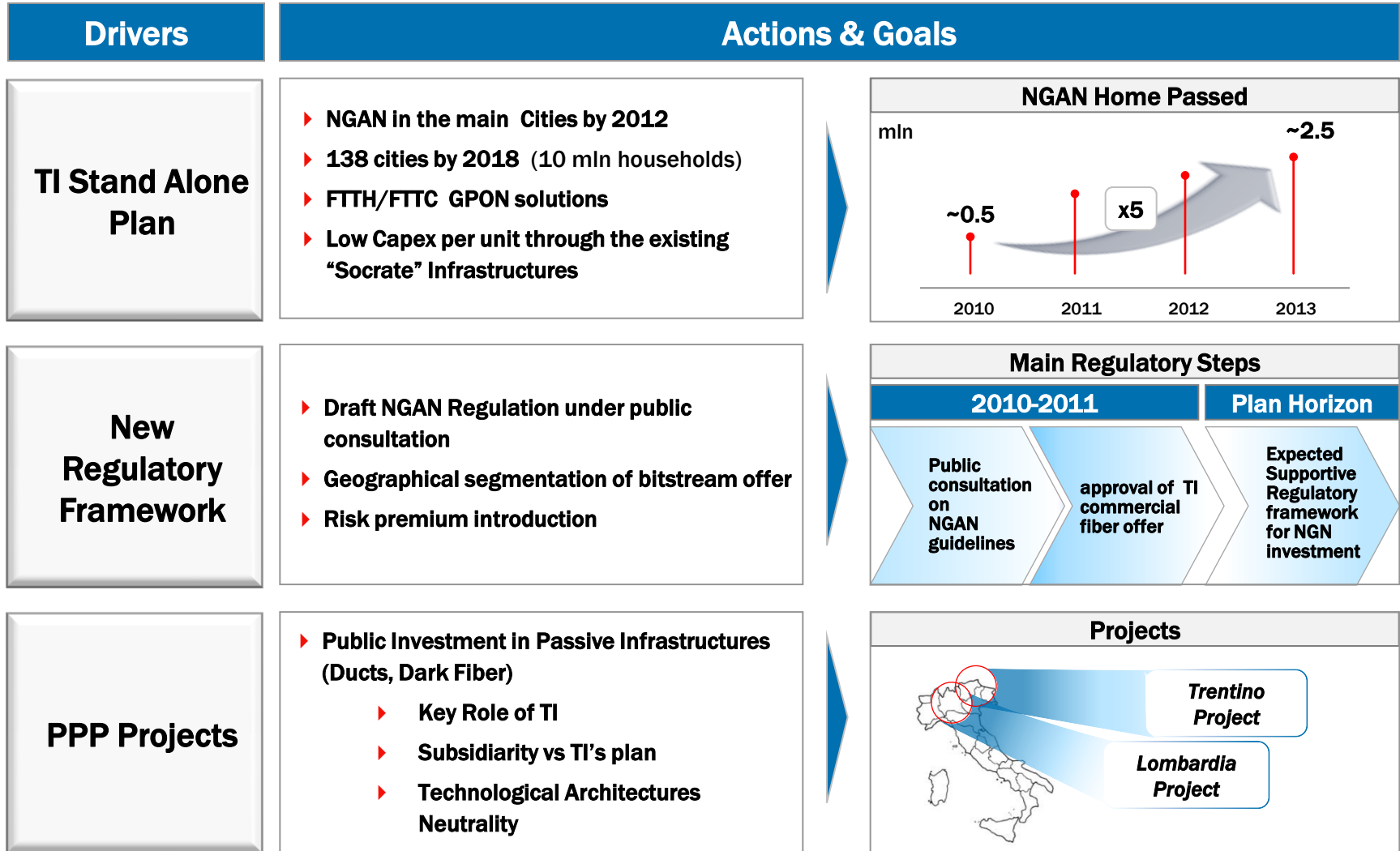
Telecom Italia Positioning on regulatory aspect is consistent with EC Recommendation on NGAN



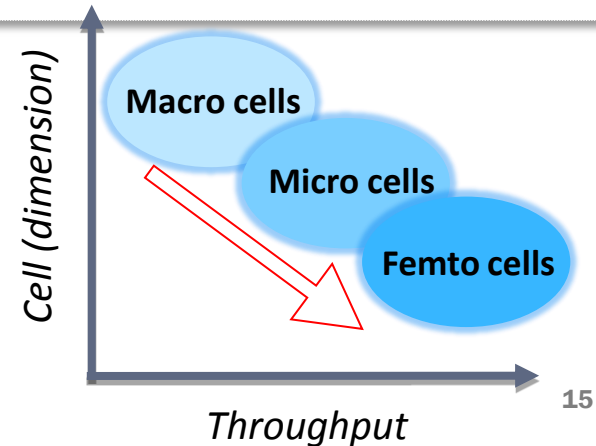
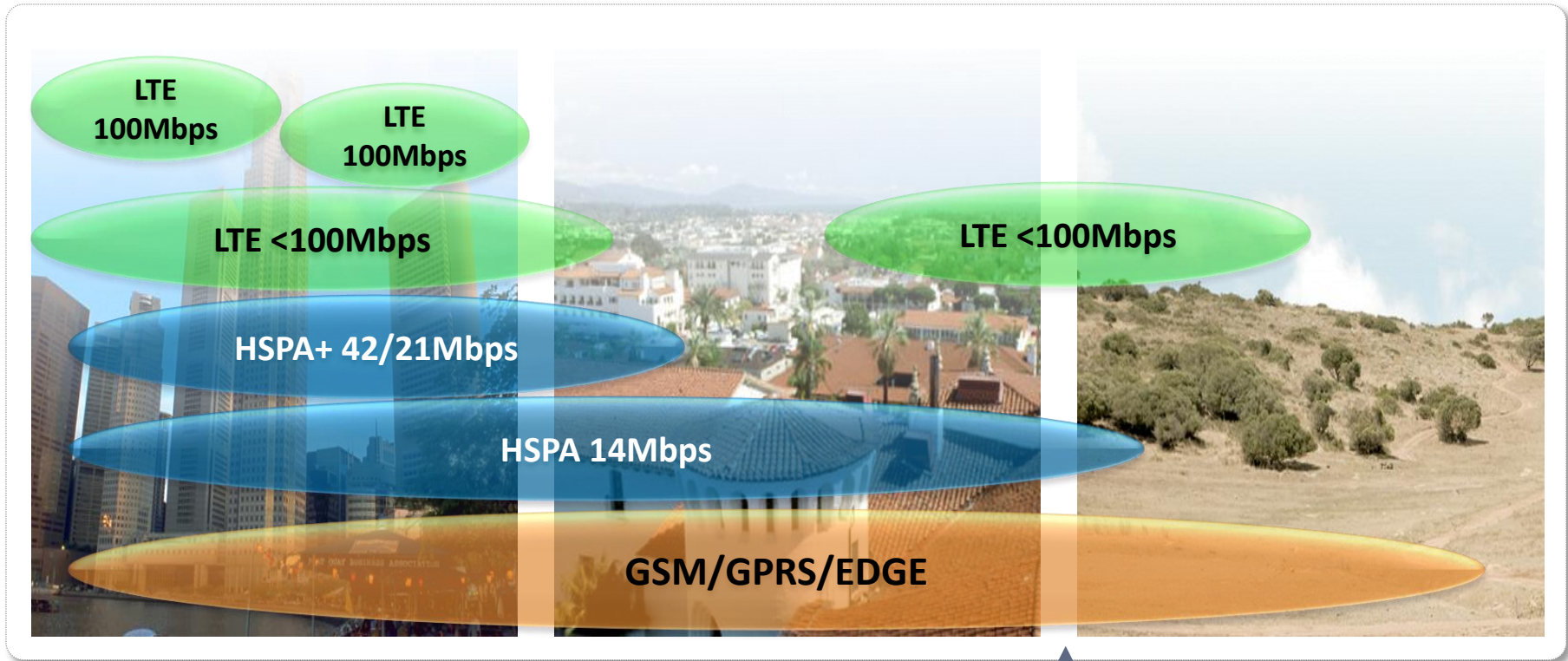
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# Telecom Italia NGAN deployment



# New Mobile technologies introduction: seamless net.



**Thank you  
for the attention**