



23rd of February 2021 #CelticPropDay

# How to recover the economy after covid-19 The role of 5G-6G

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#### **Presentation**

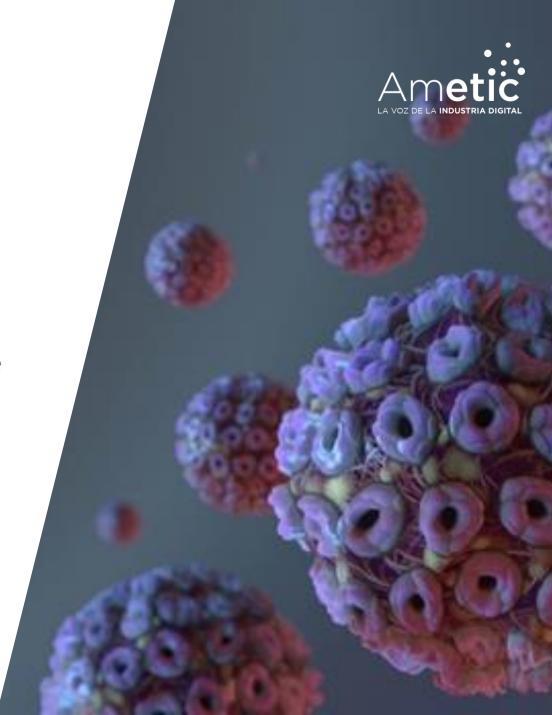
AMETIC is the association that represents the **digital industry in Spain** 

The IT & Content sector generates 532.822 employees 115.154 million € 9,2% GDP 2019

(Source: ONTSI 2019)

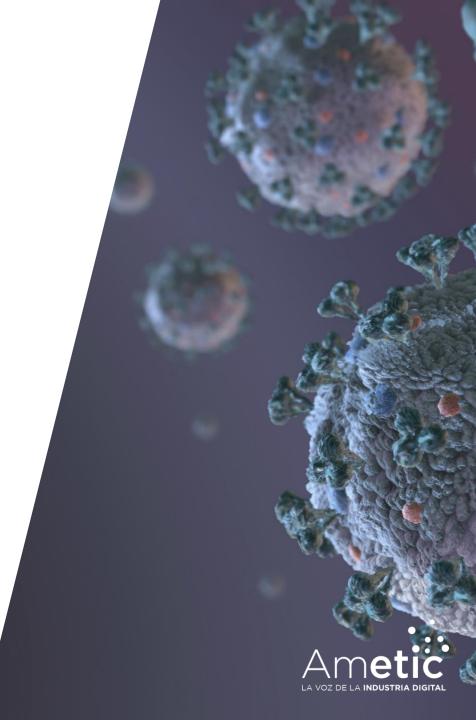
#### The world after Covid-19:

- Will never be the same?
- Shall we take the challenge to really change our world?



## Which will be the trends in our "post Covid-19 world"?

- Economy recovery or social recovery?
- How to fight against inequality, unemployment and lack of future for the new generations?
- What about sustainability?
- It's enough to recover or we need to transform?



#### **Planet Positive Economy**

- New trends examples: BCorp, Impact
   Investing, ESG (Environmental, Social and
   Corporate Governance), BlackRock, etc.
- Purpose as a claim of the new generations



### What about connectivity within this new scenario?

- New Social Trends (urban to rural, working from home, immigration, new geopolitical actors, demographic changes, pandemics, etc.)
- Shall 5G-6G help society to advance in the right direction?
- Which should be the drivers? (Ex. One Web)

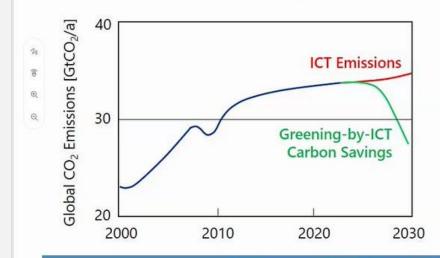


#### What about Energy Consumption?



#### ICT is the key enabler to decarbonize our lifestyle

- Some of the positive Greening-by-ICT effects:
  - Dematerialization less travel, less transport, ...
  - Efficiency gains traffic, energy grids, buildings, ...
- Covid-19 made some of these pretty clear



Global ICT-enabled CO <sub>2</sub> Redu	ıction 2030
Sector	GtCO₂e
Manufacturing	2.7
Energy	1.8
Buildings	2.0
Mobility	3.6
Agriculture	2.0
Total global	12.1
Global ICT Emissions 2030	1.25
Saving Factor	9.7
[GeSI Smarter20 <b>3</b> 0]	2 /

ICT can massively enable decarbonization in other sectors



Source: Sustainable ICT systems for a green world

Keynote, CELTIC-NEXT Day December 2, 2020

Dr. Klaus Grobe

Dir. Global Sustainability,

ADVA Optical Networking

#### Some questions...

- Will be the networks capable to adapt themselves to the new mobility and social living trends?
- Will be the spectrum a "public asset" or just a "concession or a property" for telecom operators?
- Shall telecom low orbit satellite constellations be a good solution for 100% territorial coverage?



#### Some new relevant technologies



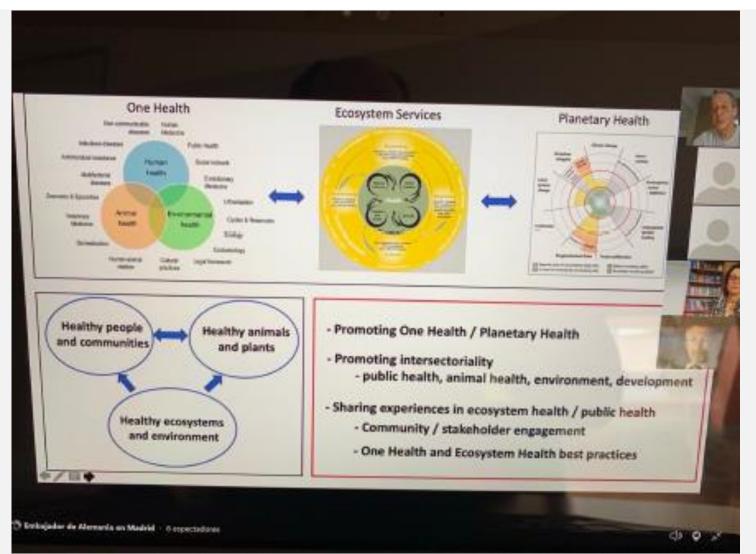
- SDN, AI based networks, AR-VR, Edge Computing,
   LO Satellites, Quantum Communications...
- How will we manage to keep human development at the center?
- Will the foreseen mix between, physical, virtual and biological worlds be a help to human development?





### Will 6G new generation telecommunications be a tool for achieving One Health (Human, Animal & Environmental)?





#### Source: Simone Sommer

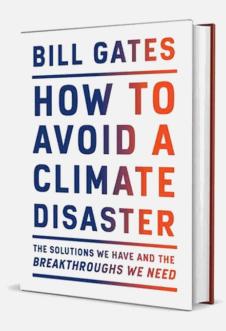
Directora del Instituto de Ecología Evolucionaria y de Conservación Genómica UNIVERSIDAD DE ULM

#### **Serge Morand**

Director de investigación, ecólogo, CNRS y del CIRAD

#### The Bill Gates Warning





"Climate Disaster is the first priority for Mankind.

All the research and Innovation efforts should be directed to avoid it"



**Bill Gates** 



#### **Conclusions**

- Avoid Climate Disaster should be a must in all innovation efforts
- Human beings should be at the center of any innovation goals
- One Health (People and Communities, Animals and Plants and Ecosystems and Environment) should be respected
- 5G and new generation 6G can help economy and social reconstruction and transformation, if these considerations are followed
- Europe has an opportunity to be at the driving seat again



### Now, the floor is yours... good luck!

Thank you very much for your attention!