

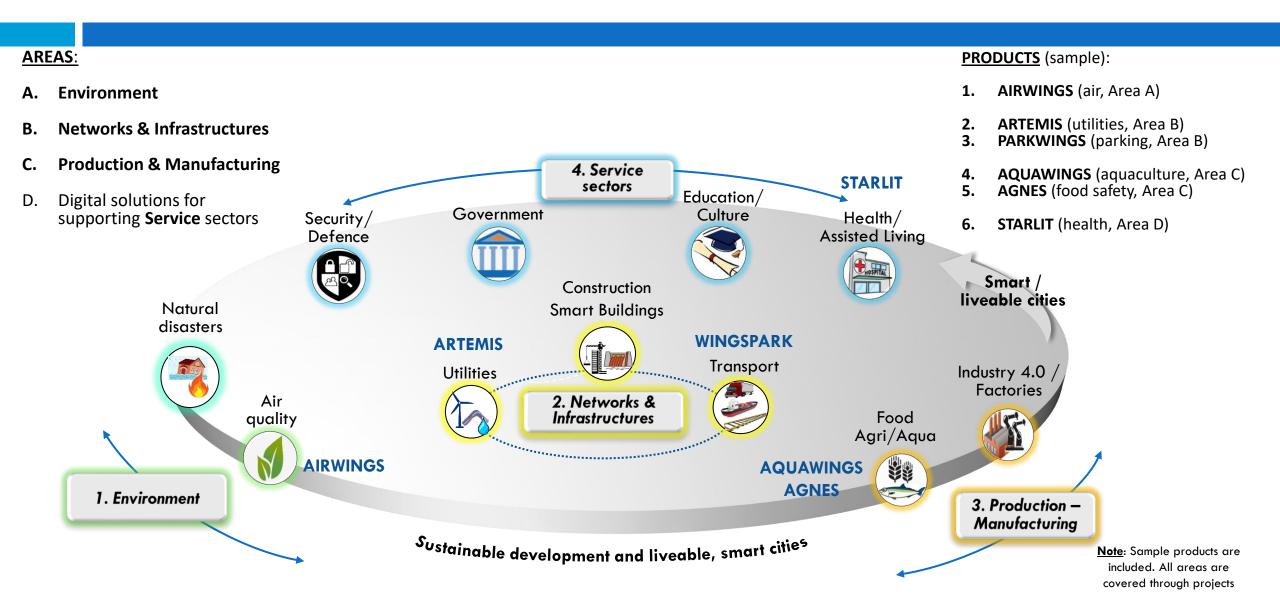
5G and Verticals – Accelerating Digital Transformation

Panagiotis Demestichas

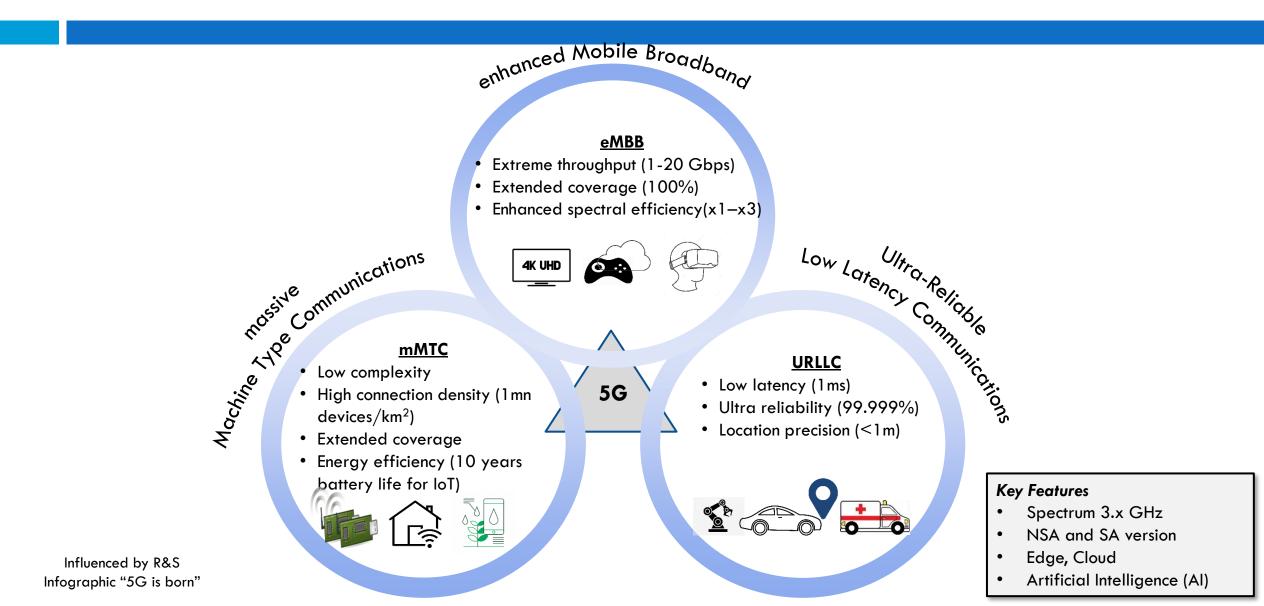
European Digital Forum CONNECT Tech Talk 1<sup>st</sup> of December 2020

> WINGS ICT Solutions P.C. WINGS © 2020

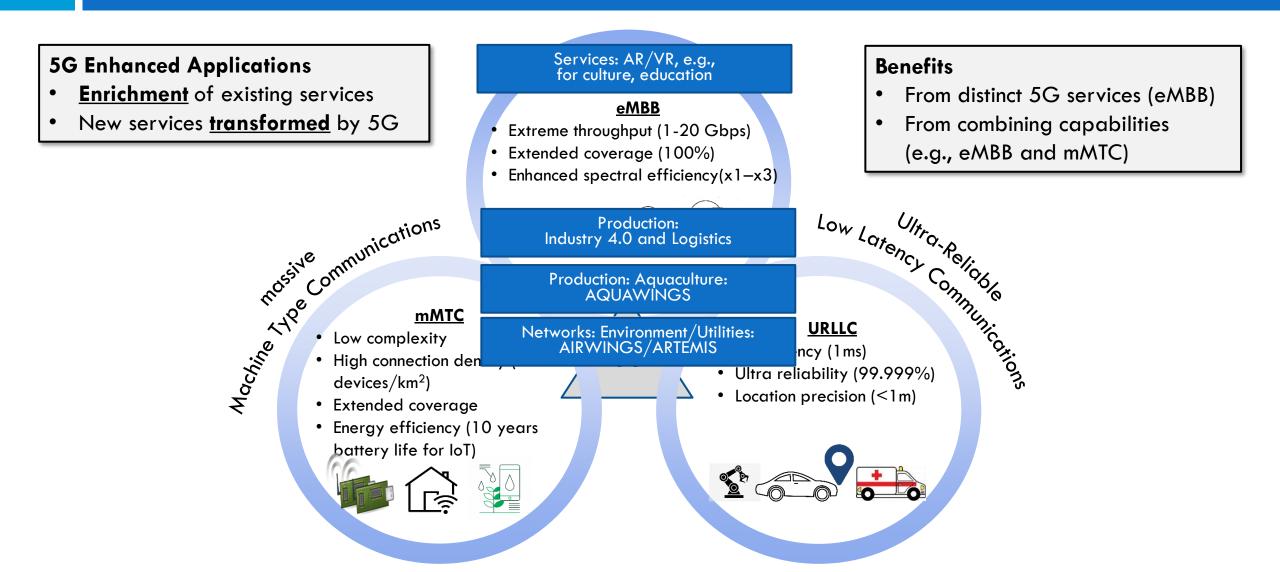
### WINGS market segments and products dashboard



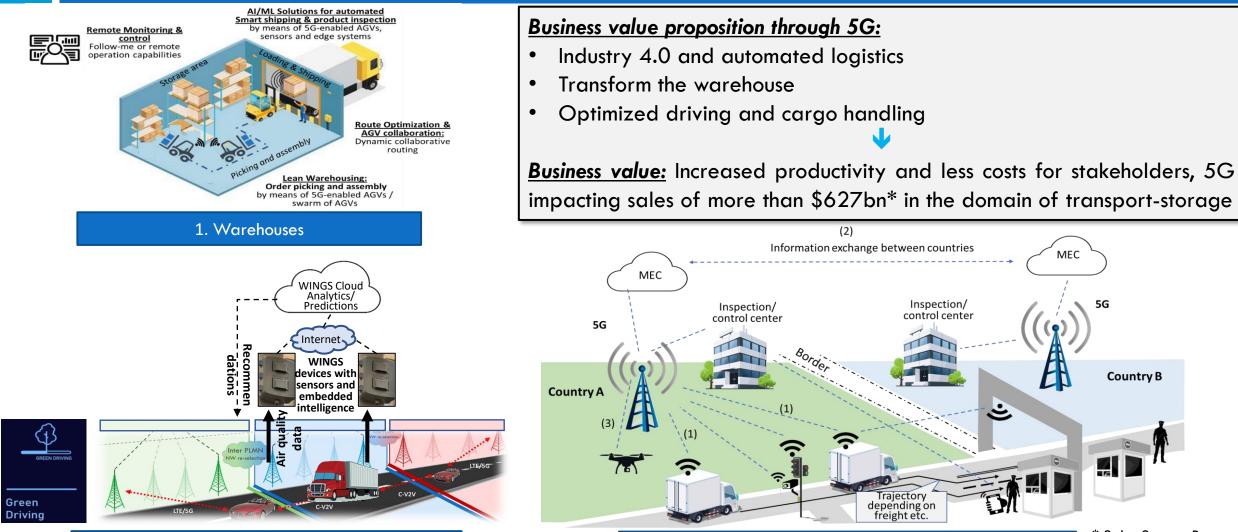
### 5G Services: what we are expecting from 5G



## 5G Services: capability exploitation



## Production & Manufacturing: Industry 4.0 and Logistics

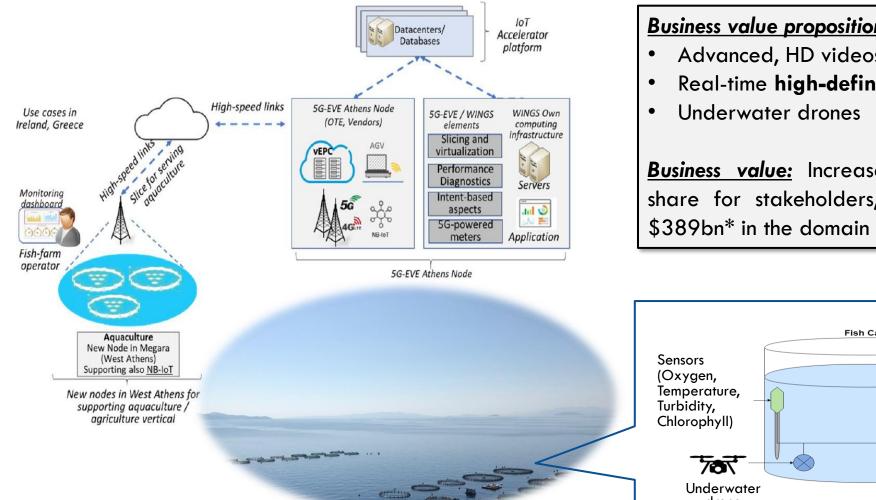


2. Optimized green driving and cargo handling

3. Zero-touch and automated logistics / x-border contexts

\* Sales Source: Raconteur Publishing, 2020

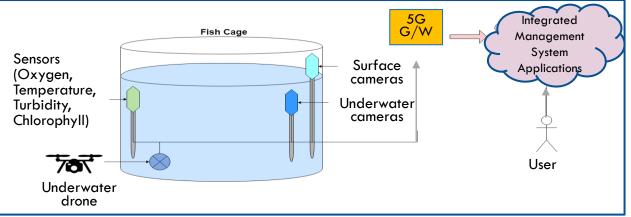
## **Production & Manufacturing:** 5G for Connected Aquaculture: AQUAWINGS



#### Business value proposition through 5G:

- Advanced, HD videos
- Real-time **high-definition** monitoring of production welfare

**Business value:** Increased turnover and potentially market share for stakeholders, 5G impacting sales of more than \$389bn\* in the domain of agriculture, forestry, fishing)



\* Sales Source: Raconteur Publishing, 2020

# Networks & Infrastructure – Environment: Energy & Gas Networks – Air Quality

#### **Utilities (ARTEMIS)**

- Management of critical (gas) infrastructures in rural/underserved areas
  - IoT, dynamic slicing, UAV (drone) control, URLLC
  - GSMA MWC2018 "IoT & 5G Use Cases" Session
- Smart grid electricity management
  - Resolving Outages and Ensuring the Stability of Smart Grids by means of 5G
  - Pilots and lab-scale demonstrations





- End-to-End platforms
- Nexus of devices
- AI powered functions: correlations, insights, predictions
- Decisions: notifications, direct/indirect actions
- In support of the economy, society
  - Pressing needs, also for federations and worldwide footprint: <u>Link\_ATT\_NOAA</u>

## Service Sectors: Enhanced Cultural Experience – Education - Entertainment



#### **Business value proposition through 5G:**

- AR/VR for enhanced cultural experience
- Ultra-HD images and videos

**Business value:** Preservation and promotion of culture heritage, enhanced experience for users, new stakeholders introduced in the value chain (AR/VR app providers)

## Conclusions – Way Forward

- Wireless is a key component for Digital Transformations
  - NB-IoT introduces us to the 5G era
  - **5** 5G NR and versions to follow will accelerate and open up opportunities
  - Blending with IoT, AI, edge/cloud gives
- **5G-PPP** have been instrumental in the development of 5G competences in Europe
  - Phase 1 and 2 projects, Phase 3 projects like 5G-EVE, 5G-Tours, 5G-Heart, 5G-Carmen and 5G-Mobix, and the newer ones to folloe
- Novel features / services
  - Video components, large information streams, reliability
- □ Call for action: Infinite possibilities

### **Contact information**



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