

## IoT WebTalk

## TRANSFORMATIVE IoT BEYOND CONNECTIVITY

The Power of Partnership

Thursday, 7 May 2020 | 10:00 BST | 11:00 CEST | 17:00 CST



### **Transformative IoT WebTalk: Agenda**











Aruna Srinivasan Aruna Srinivasan Jan Rijk Vonk Brendan Ives Yufei Wang Jennifer Huang **Executive Director** VP and Head of Innovation Edge Computing Senior Director IoT Strategy Director Division X **Project Manager** of 5G Industry 5G IoT GSMA KPN Telia Company China Mobile Development Manufacturing Huawei Overview Moderator Keynote: Smart Introduction to Farming, Weed Interview/ Joint Keynote: Optimising manufacturing Beyond ALL - Q&A Flimination with **Discussion with** performance through 5G, Edge Computing Connectivity 5G Autonomous Telia and Machine Vision Robots 5 min 15 min 10 min 15 min 15 min 口国移动 HUAWEI DN elia hina Mobile



#### About the GSMA





### **The IoT Opportunity**

#### UNLOCKING THE POTENTIAL OF THE INTERNET OF THINGS

#### THE MARKET OPPORTUNITY FOR 'BEYOND CONNECTIVITY'

#### IoT connections will reach almost 25 billion by 2025



#### TRANSFORMATION Transform IoT Prime **OPERATOR ROLES** PORT Empower VISION Р DTH Big Data Analytics & Al BREA Connect Vertical Specialisation oT Service Management **IoT Foundation IoT Service Enablement IoT Solutions IDC report for GSMA**

Opportunities in the IoT: Evolving roles for mobile

operators

#### THE PATHWAY FOR OPERATORS IN THE IOT

CAPABILITY





## **Transformative IoT Beyond Connectivity**



**Smart Agriculture:** Driving value in Smart Agriculture with IoT Big Data technology solutions

- Increased production by 100%+
- Reduced labour cost by 50% per kg
- Increased profit by 75% over non-IoT greenhouses
- Realised ROI in the first year





**Smart Traffic**: Traffic lights programmed to respond to real-time data collected by cameras and sensors

- Reduced Traffic congestion
- Reduced CO<sub>2</sub> emission
- Reduced operational costs
- Reduced traffic waiting time by 65%+ in one area





#### Fleet Management:

Connectivity management and vertical integration of telematics solution provider

- Increased fuel efficiency
- Real-time operations visibility
- Precision up to 97% on sand/salt usage
- Better route planning (reduced carbon emission) and response to adverse weather conditions

TELUS



**Smart Cities:** UAV's being used to inspect a 500km natural gas and petroleum pipeline

- Reduced inspection time by 40%
- Reduced human costs by 57%
- Expected generation of RMB30 million income per year for the operator



#### https://www.gsma.com/iot/beyond-connectivity/

IoT Solution

GSMA INTERNET OF THINGS PROGRAMME



# Developing insight and pilots with Big Data and Emerging Technologies

Big Data, Machine Learning and Artificial Intelligence



IoT Edge Computing



Distributed Ledgers, Blockchain for the IoT



https://www.gsma.com/iot/beyond-connectivity-iot-market-opportunities/

## 5G IoT for Manufacturing

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ADVANCING GLOBAL ADOPTION OF 5G IOT IN SMART MANUFACTURING

### **Transforming Manufacturing with 5G IoT**

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## **5G IoT for Manufacturing Forum**

#### **MEMBERS**

Manufacturing Enterprises, Operators, Vendors, and Industry Associations with a focus on 5G IoT in the manufacturing vertical.

- **Bring together** enterprises, operators and ecosystem players to explore how Industrial 5G IoT will benefit the manufacturing vertical globally
- Identify value drivers in the manufacturing vertical that can be shown to benefit from the use of Industrial 5G IoT
- Identify the manufacturing vertical's issues and challenges and encourage the sharing of best practices in the Forum that show how Industrial 5G IoT can be utilised to benefit the manufacturing industry
- Encourage implementation of Industrial 5G in the manufacturing vertical by documenting Use Cases and the real benefits and ROI of the use of Industrial 5G, IoT and AI solutions
- Create an environment that facilitates collaboration and participation in highlighting best practice, case studies and applications to identify lessons learned in order to expedite faster adoption



**5G** 

#### IoT WebTalk

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## 5GIOT FOR MANUFACTURING

Transforming Industry with Mobile

Tuesday, 12 May 2020 | 09:00 EDT | 14:00 BST | 15:00 CEST

Join this interactive online session and hear from industry experts about:

- How manufacturing companies are partnering with mobile operators to deploy 5G IoT solutions
- The impact of 5G IoT on new manufacturing use cases
- How 5G IoT can link together the entire manufacturing value chain

Register: https://www.gsma.com/iot/events/webtalk2020-5g-iot-manufacturing/



### **Transformative IoT WebTalk: Question & Answer**















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