

# SPECTRUM

THE FUNDAMENTAL ELEMENT OF MOBILE

WRC-19 | 5 November

## RCC Lunchtime Seminar



# SPECTRUM

THE FUNDAMENTAL ELEMENT OF MOBILE



Industry Perspective

**Geraldo Neto**



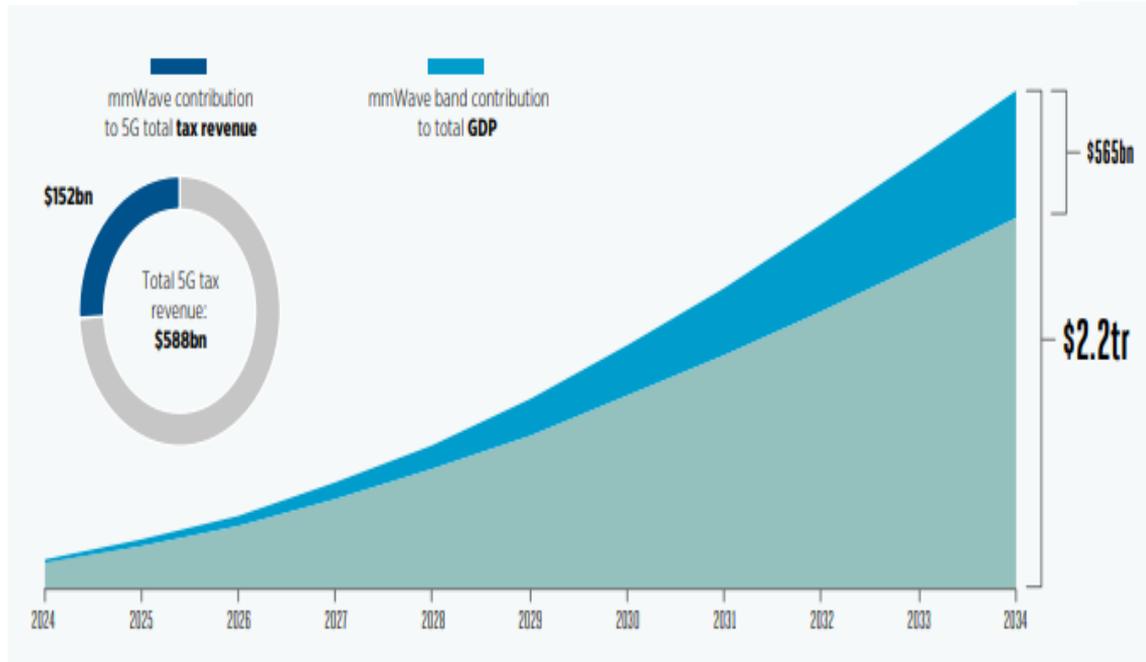


# WRC lunchtime with RCC

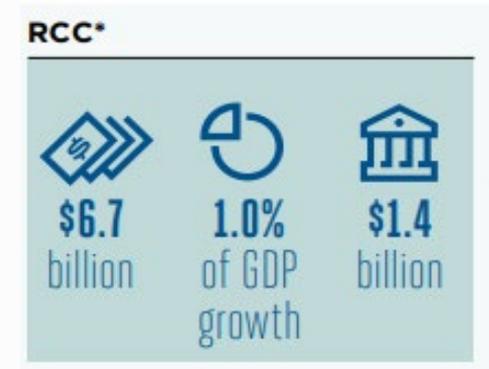
November 2019

# 5G is expected to contribute \$2.2 trillion to global GDP

ESTIMATED IMPACT ATTRIBUTABLE TO MMWAVE SPECTRUM ON GDP AND TAX REVENUE



Source: TMG.



# Regional spotlight report explores the impact of mmWave 5G on four regions



In each of the four regions, the report explores **two key cases studies** where mmWaves can be used to enable new or improved tools or processes to improve economic growth or quality of life.

## SUB-SAHARAN AFRICA



- Case Study #1: Smart transportation logistics hubs
- Case Study #2: Extractive industries

## REGIONAL COMMONWEALTH IN THE FIELD OF COMMUNICATIONS (RCC)



- Case Study #1: Automation across industry
- Case Study #2: Healthcare

## SOUTH AND SOUTH EAST ASIA AND THE PACIFIC ISLANDS



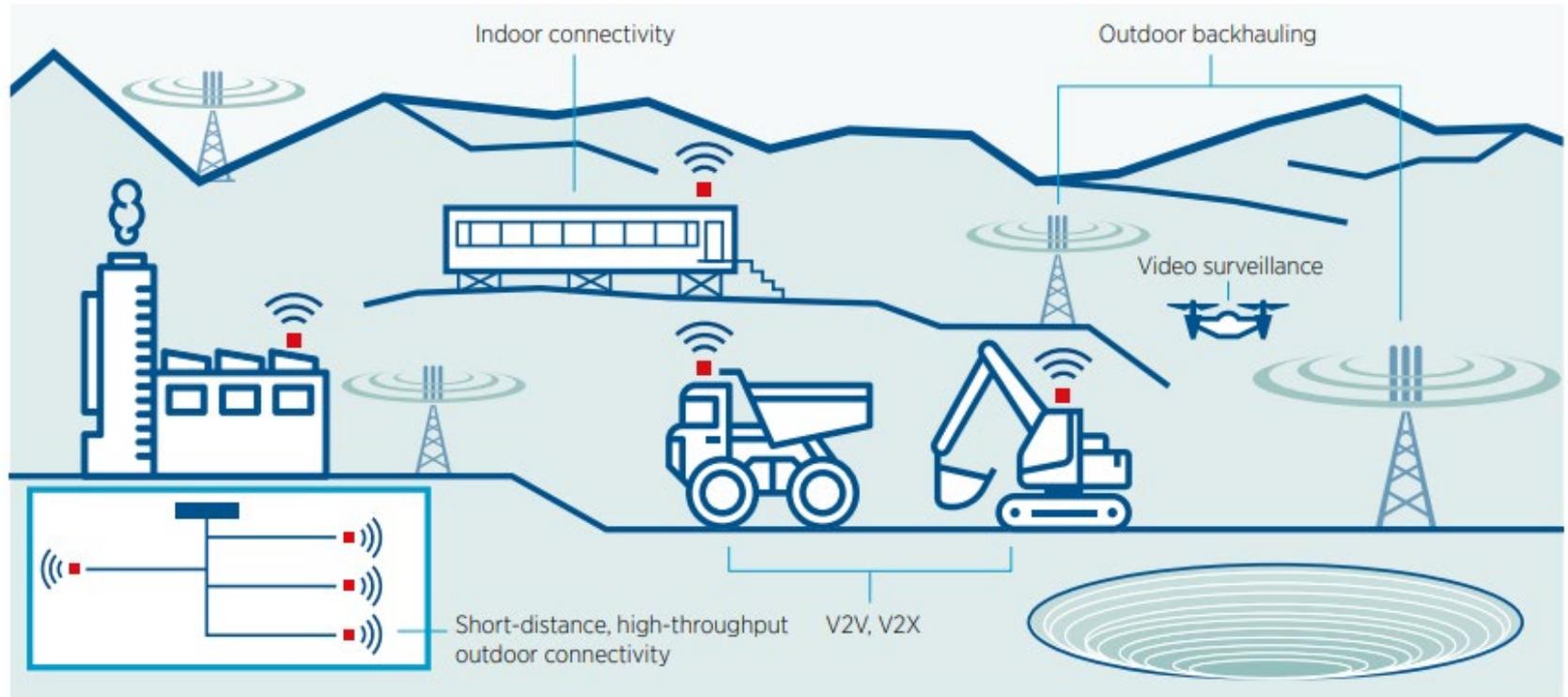
- Case Study #1: Connectivity
- Case Study #2: Disaster Communications

## LATIN AMERICA AND THE CARIBBEAN (LAC)



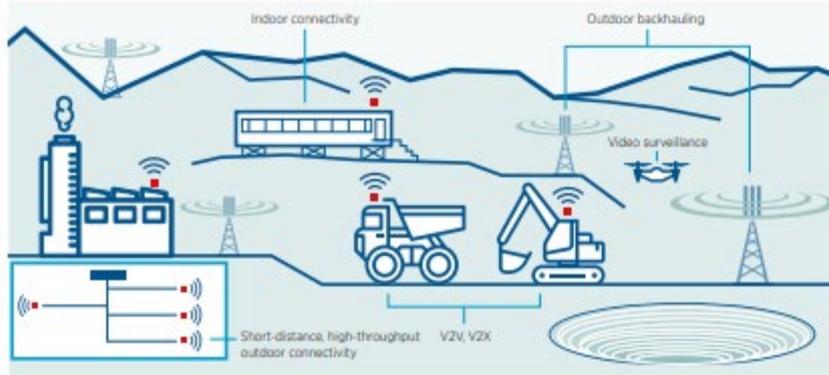
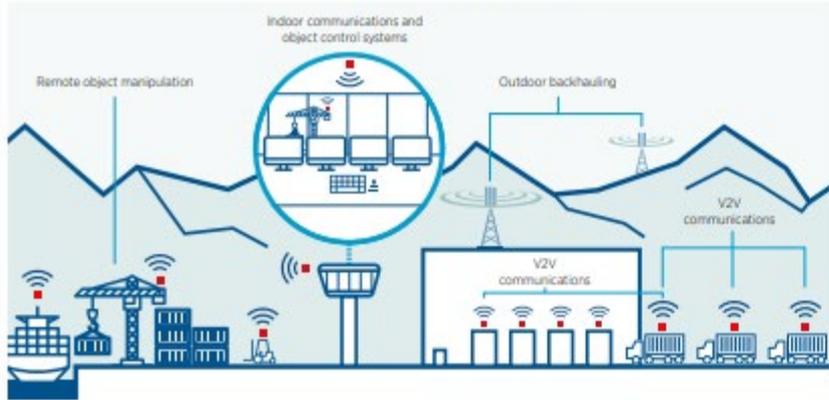
- Case Study #1: Education
- Case Study #2: Transportation

# Case Study: Extractive Industries



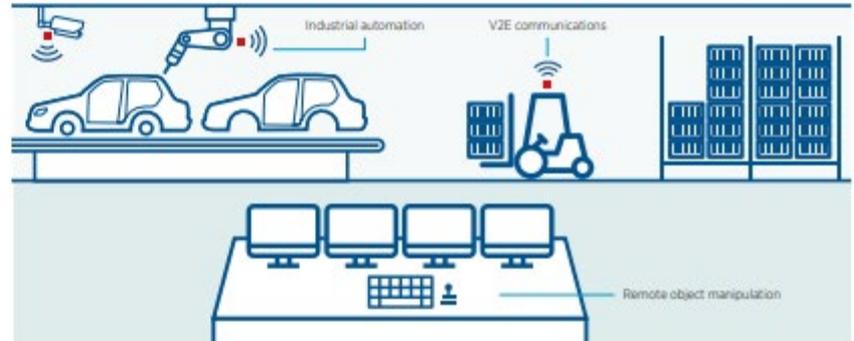
# Case Study : Automation across industry

## EXTRACTIVE INDUSTRIES



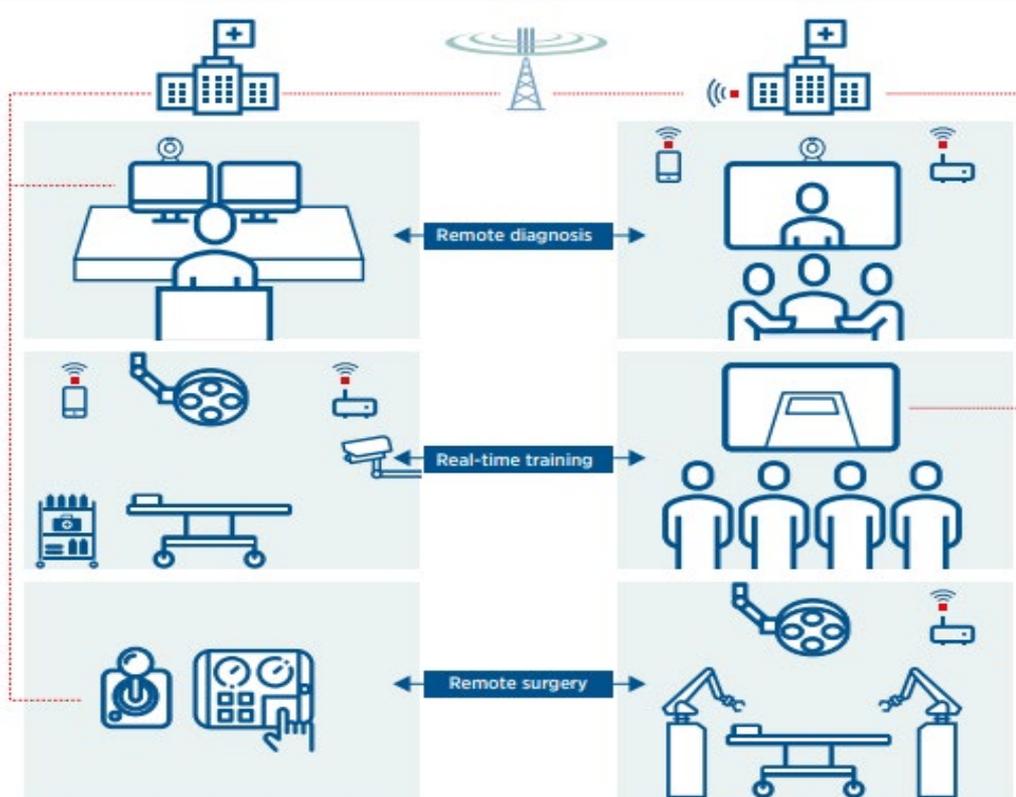
## LOGISTICS

## TRANSPORT



## MANUFACTURING

# Case Study : Healthcare



- **Remote diagnosis:** qualified staff not on-location can diagnosis in real-time with 5G-enabled devices
- **Real-time training:** Ad-hoc and ongoing training from remote specialists using mmWave 5G networks, tactile AR/VR learning applications, and next-generation video conferencing
- **Remote surgery:** remote object manipulation allows remote surgery using mmWave 5G's low latency and high-speed data rates



**Geraldo Neto**

[geraldo@tmgtelecom.com](mailto:geraldo@tmgtelecom.com)