

# Next generation Wi-Fi IP for smart IoT

**Deep-Tech Start-Up Panel**

Marleen Boonen, *CEO & Founder*

Methods **2** Business



The Impact of the  
Semiconductor Industry

# WELCOME AT METHODS2BUSINESS



## About US

- Founded in 2010, HQ in Eindhoven, R&D team in Novi Sad
- Fabless Semiconductor company developing next generation Wi-Fi IP products for global chip market
- Inspiring team, passion for innovation & first-time-right IP

## Key Assets

- IP supplier for World's first Wi-Fi CERTIFIED® HaLow™ chips
- Long-Range, Low-Power and Secure Wi-Fi IP for smart IoT


## Our offering

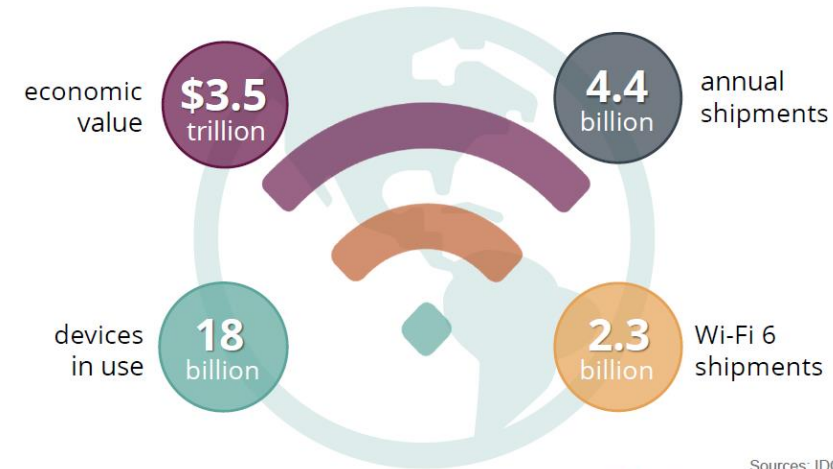
- Scalable Wi-Fi CERTIFIED HaLow™ IP portfolio for Client & Access Point chips (Full MAC, PHY, Security IP, HW & SW)
- Wi-Fi CERTIFIED® HaLow™ Testbed devices for Certification

# WI-FI BY NUMBERS

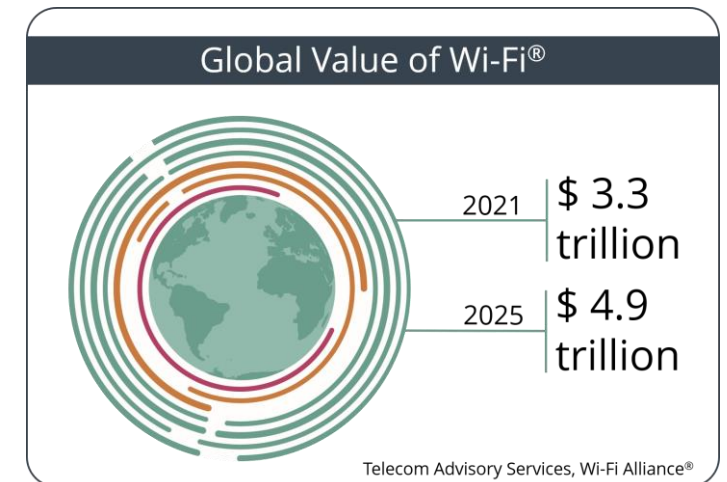
Wi-Fi® by the numbers in 2022

Global Value of Wi-Fi®							
2021		2025					
<b>\$3.3 trillion</b>		<b>\$4.9 trillion</b>					
AUSTRALIA		BRAZIL		COLOMBIA		EUROPEAN UNION	
2021	2025	2021	2025	2021	2025	2021	2025
\$35 billion	\$42 billion	\$105 billion	\$124 billion	\$19 billion	\$41 billion	\$458 billion	\$637 billion
FRANCE		GERMANY		JAPAN		MEXICO	
2021	2025	2021	2025	2021	2025	2021	2025
\$63 billion	\$104 billion	\$135 billion	\$173 billion	\$251 billion	\$325 billion	\$57 billion	\$118 billion
NEW ZEALAND		POLAND		SINGAPORE		SOUTH KOREA	
2021	2025	2021	2025	2021	2025	2021	2025
\$7 billion	\$10 billion	\$16 billion	\$22 billion	\$11 billion	\$12 billion	\$89 billion	\$140 billion
SPAIN		UNITED KINGDOM		UNITED STATES			
2021	2025	2021	2025	2021	2025		
\$40 billion	\$54 billion	\$99 billion	\$109 billion	\$995 billion	\$1.6 trillion		

  
[www.valueofwifi.com](http://www.valueofwifi.com)

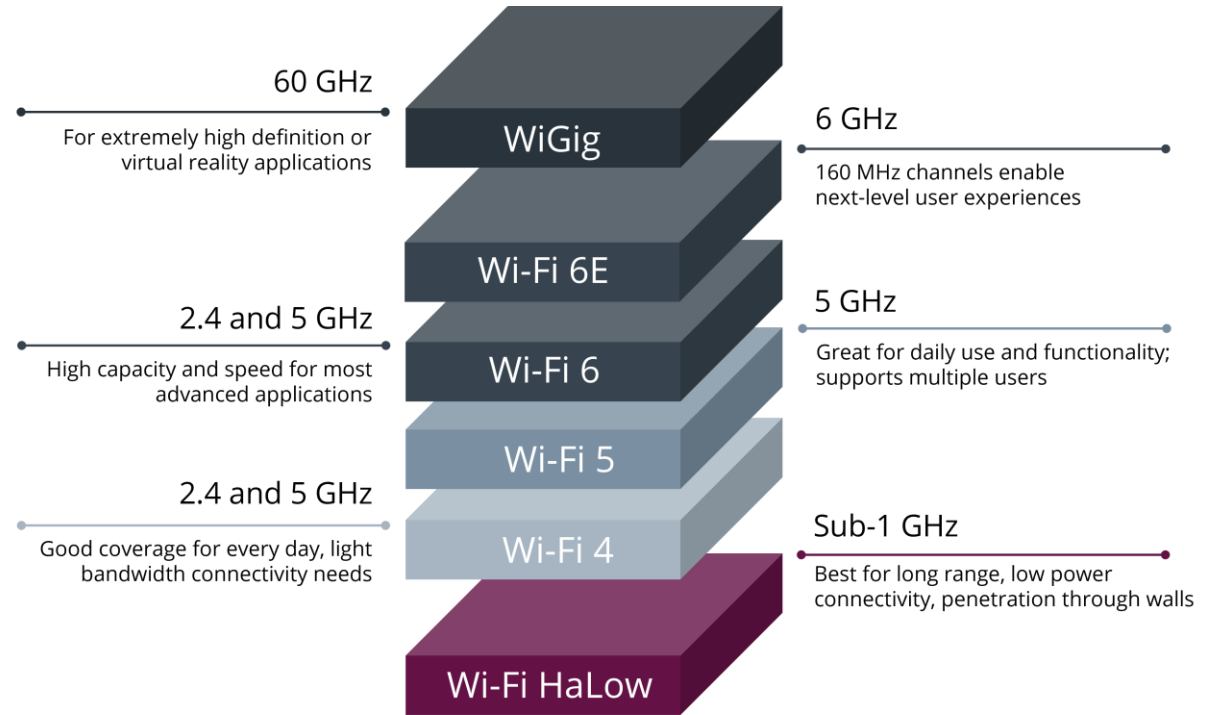
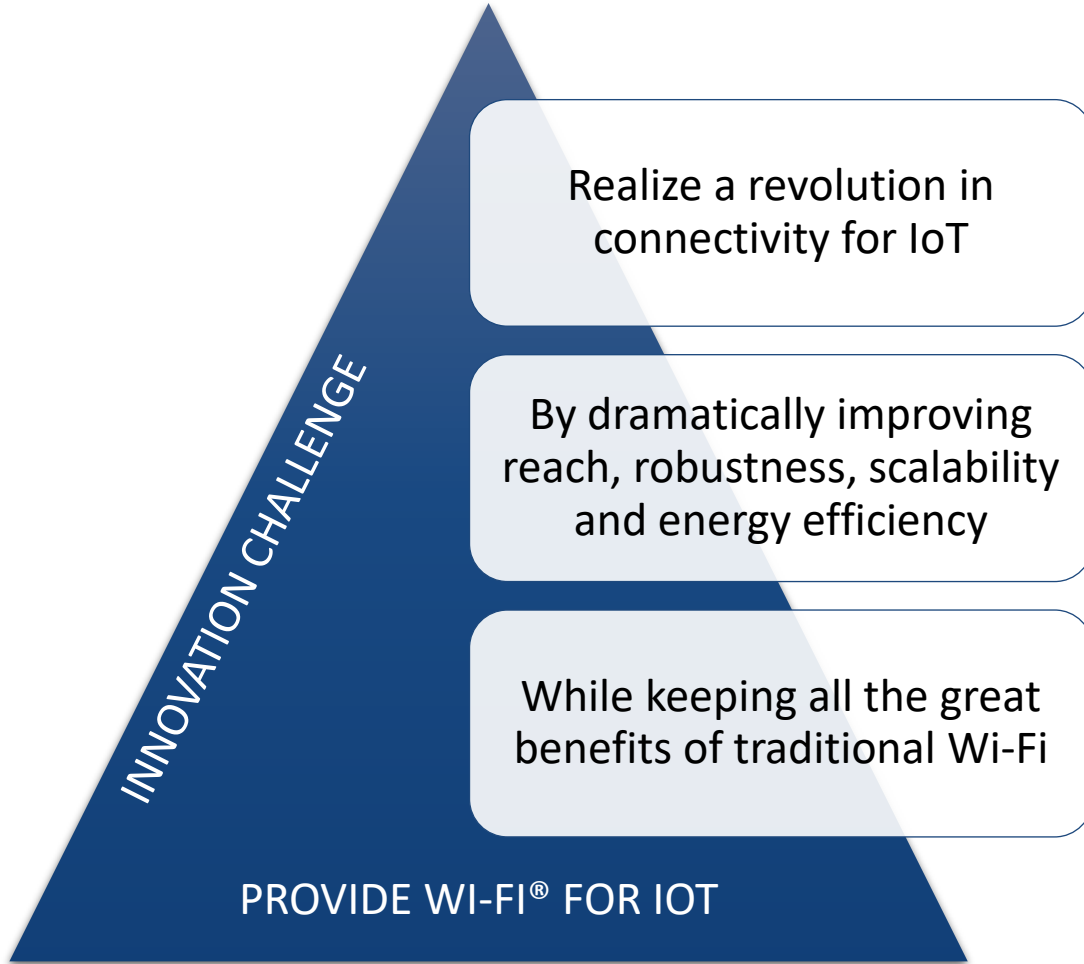


Sources: IDC, Telecom 2021 Study, Advisory Services, Wi-Fi Alliance



Connecting Everyone and Everything, Everywhere

# WHY WI-FI HALOW?



Source: Wi-Fi Alliance®

**By going down in frequency,  
Wi-Fi HaLow brings  
Long-Range, Low-Power, Robust and Highly Secure  
Wi-Fi into Wi-Fi Landscape**

MY VISION ON  
EUROPEAN  
SEMICONDUCTOR  
INDUSTRY

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Advanced and Mature Technology  
nodes in European Foundries

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Innovation in both IP and Technology

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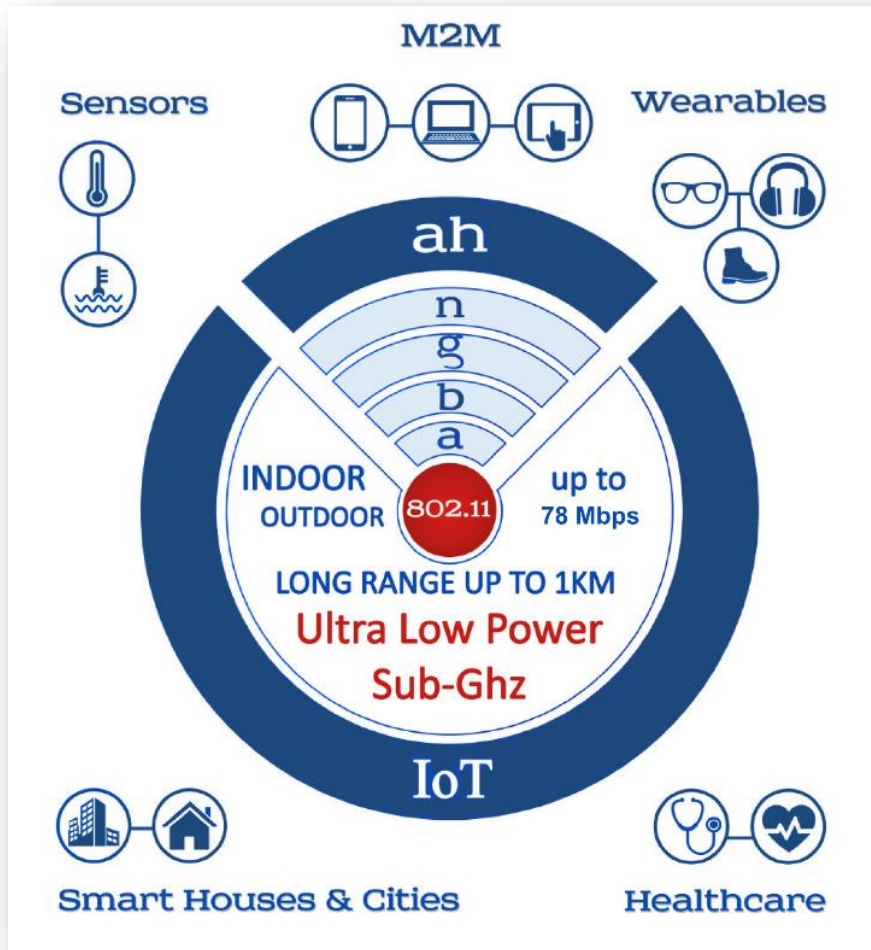
Stronger and more Engineering Talent

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Easier access to Capital for Startups

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# WI-FI HALOW FEATURES & BENEFITS



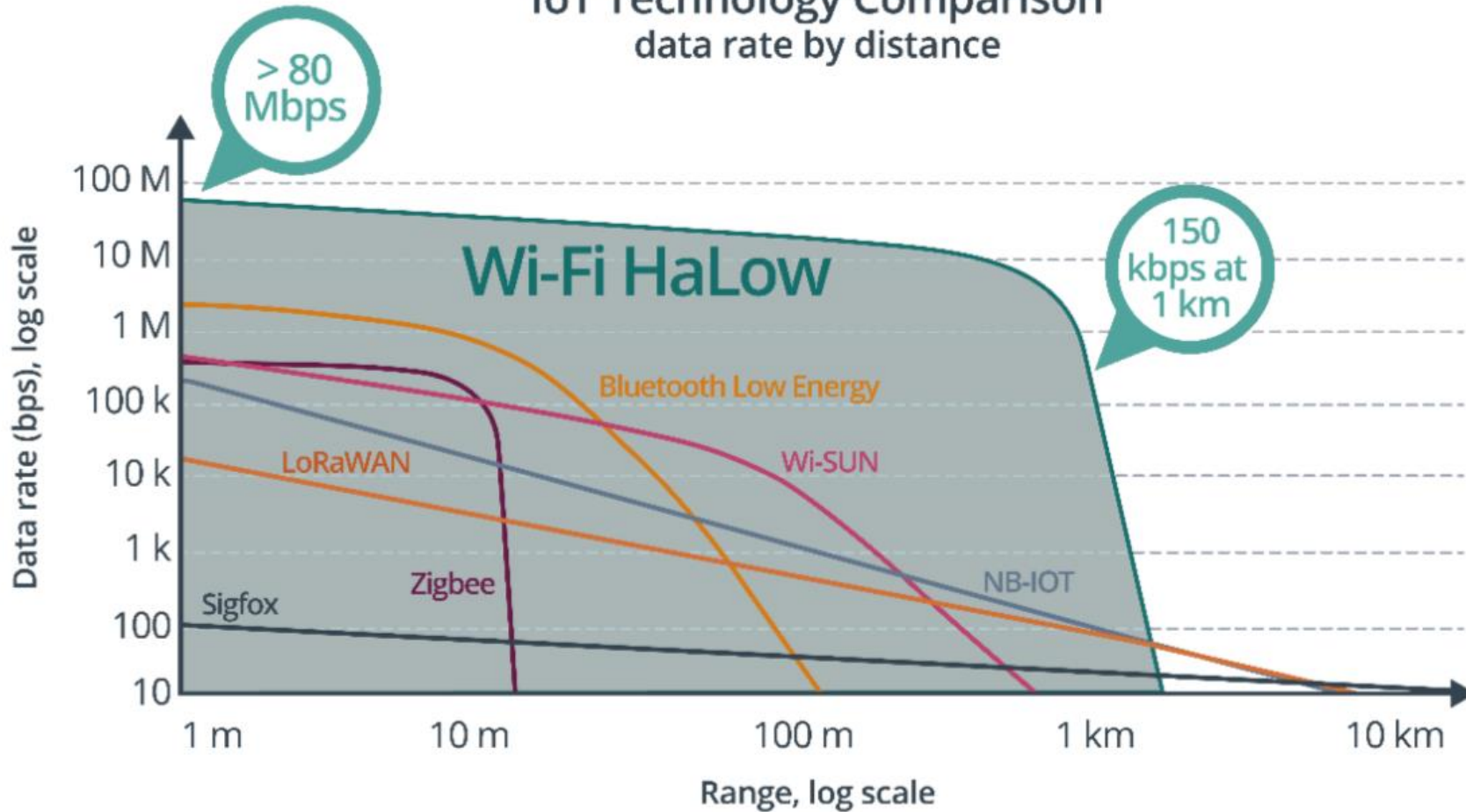
## Wi-Fi HaLow™ for IoT

Features	Benefits
Sub-1 GHz spectrum operation	Long range: approximately 1 km
Narrow band OFDM channels	Penetration through walls and other obstacles
Several device power saving modes	Supports coin cell battery devices for months or years
Native IP support	No need for proprietary hubs or gateways
Latest Wi-Fi® security	

Source: Wi-Fi Alliance  
Wi-Fi HaLow Whitepaper

# COMPETITIVE ANALYSIS

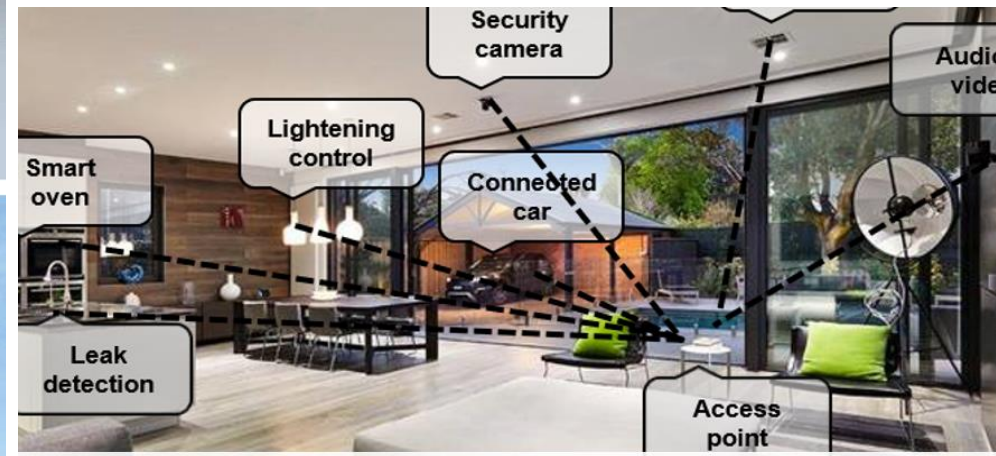
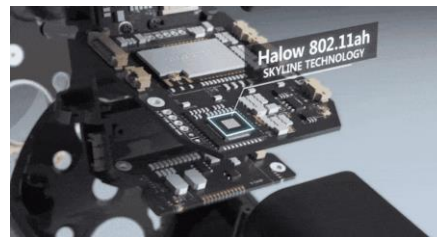
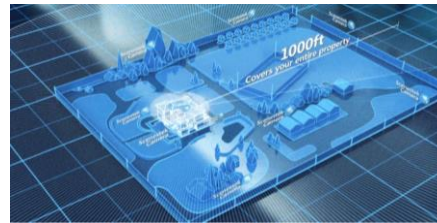
IoT Technology Comparison  
data rate by distance



- 100x** The coverage of Traditional Wi-Fi and Bluetooth
- 300x** The throughput of LoRaWAN
- 400%** More Energy Efficient than LPWAN (Sigfox, NB-IOT, LoRa, Wi-Sun)



## SMART HOME & SECURITY



Wi-Fi HaLow™ Intelligent Home Environment



RELIABLE &  
COST-  
EFFECTIVE  
HEALTHCARE



### Remote patient monitoring & tracking in hospitals

- Monitor Body Area Networks (ECG, blood pressure, SpO2)
- Better Healthcare for Less costs
- Faster medical intervention in case of emergencies
- Faster recovery (earlier walking around)
- Less contamination and less accidents (no cables)

### Remote elderly monitoring & tracking at home

- Indoor and outdoor (garden) monitoring and tracking
- Immediate alarming of emergency teams when needed
- More effective, better elderly care by aging at home

### Innovations in medical treatments inside the body

- Better streaming of instrumentation data from implants (Less absorption of signals by body)
- More reliable follow-up of healing process of fractures after orthopedic surgeries

### INDUSTRIAL AUTOMATION AND SMART AGRI & HORTICULTURE



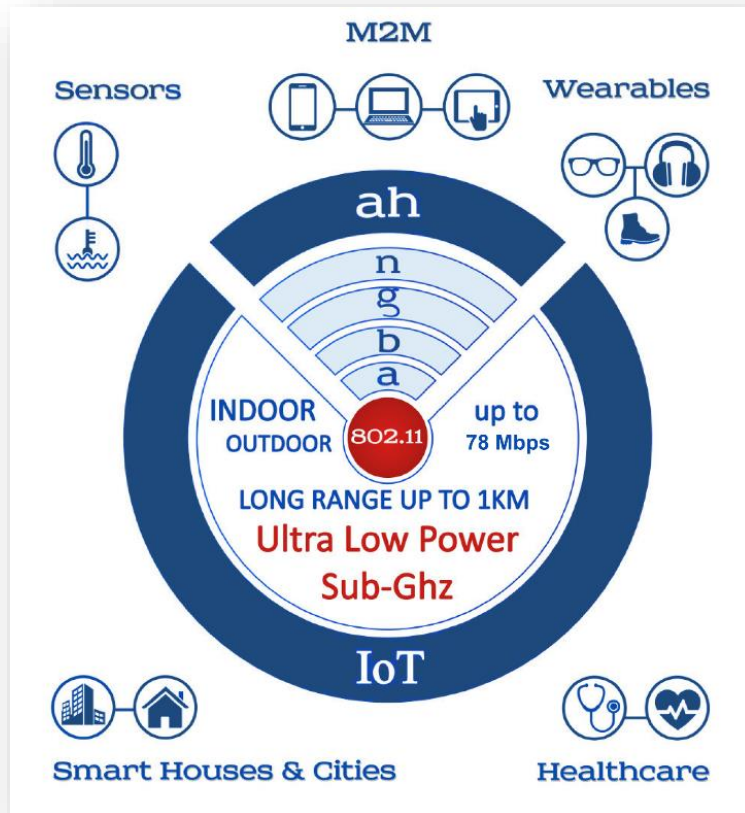
#### Industrial Wireless Sensor Networks

- M2M communication for predictive maintenance and safe plant operation
- Autonomous transportation of products & equipment
- Tracking & Tracing of goods
- Smart robots with local imaging

#### Agri- & Horticulture, city farming

- Wireless collecting sensor data and images of plants and crops for AI breeding analysis
- Communication & control of autonomous harvesting machines
- Remote Control of led lights in city-farming

# CONTACT DETAILS



# THANK YOU



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