

Methods2Business
Your partner for Wi-Fi HaLow™ chips



www.methods2business.com



Welcome at Methods2Business

Eindhoven,
The Netherlands



Novi Sad,
Serbia

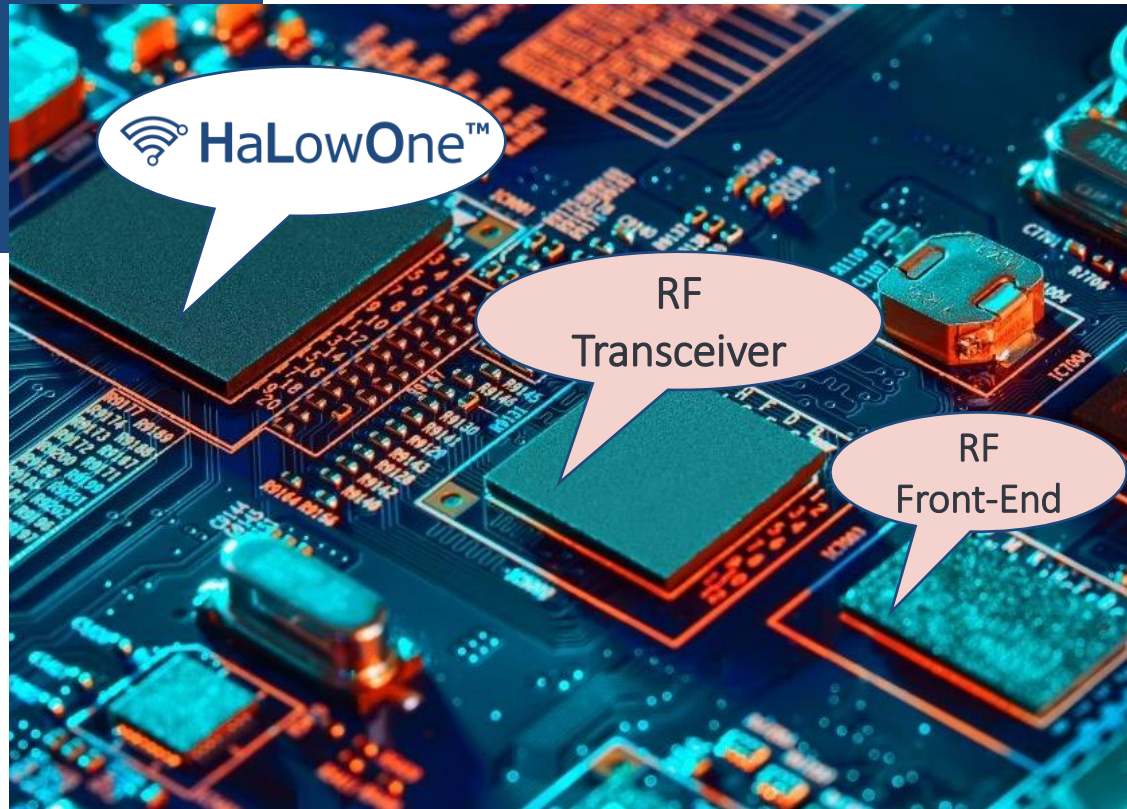


Dutch Innovation Mission Japan
Semiconductors

June 2023

Marleen Boonen, *CEO & Founder*

Long-Range, Low-Power Highly-Secure Wi-Fi for IoT



Methods2Business

World's first provider of
Wi-Fi CERTIFIED® HaLow™ IP

ABOUT US

- Founded in 2010, HQ in Eindhoven, R&D team in Novi Sad
- Fabless semiconductor company on the leading edge of developing next generation Wi-Fi™ IP products for the global chip market.
- Vice Chair task group Wi-Fi CERTIFIED® HaLow™ in Wi-Fi Alliance

OUR KEY ASSETS

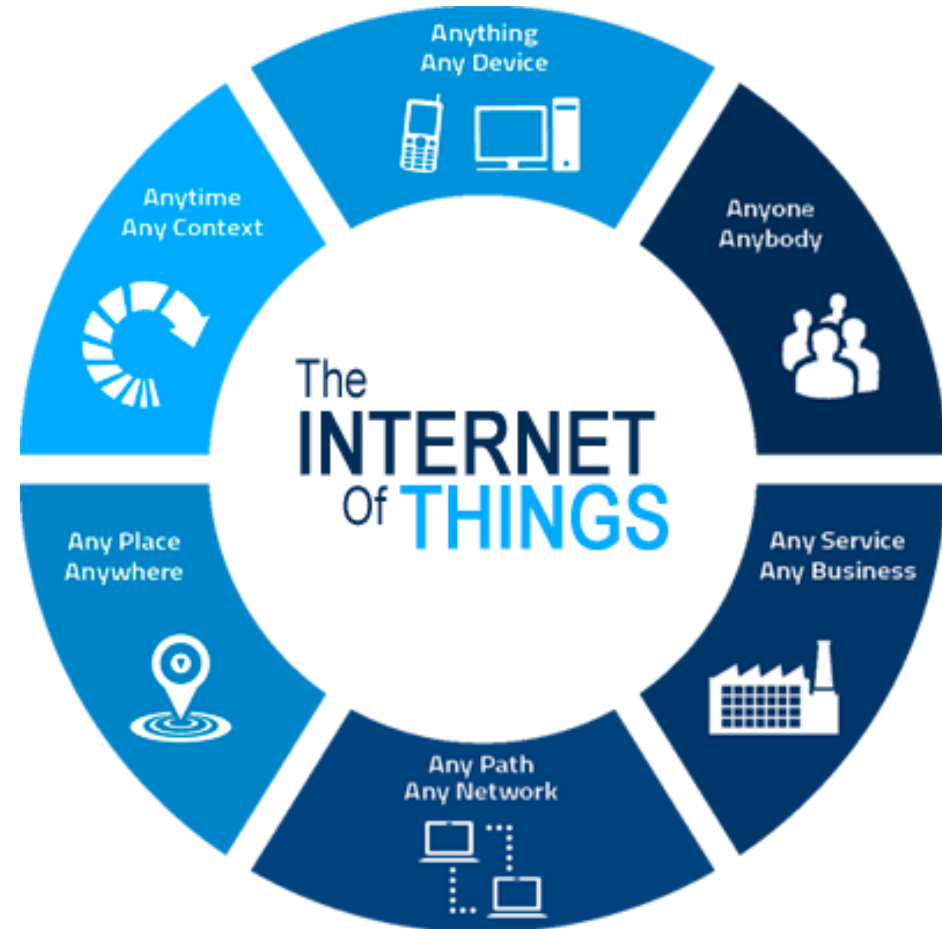
- Silicon-validated Wi-Fi CERTIFIED® HaLow™ Client & Access Point platform



OUR PRODUCTS

- **Licensable HaLowOne™ platform** - current & next generation Wi-Fi HaLow
 - Full MAC, PHY, Security solution with various onboarding mechanisms
 - Fully Integrated and ready to use Hardware / Software system
 - Suitable for various vertical markets
- Wi-Fi CERTIFIED® HaLow™ Testbed devices for Wi-Fi Certification

Why does the world need better Wi-Fi for IoT?



Very demanding IoT Market

- Forecast 2030 - 30 Billion connected devices
- Already fully congested 2,4GHz ISM band
- Highly diverse (Camera's, sensors, actuators, phones ...)
- Competing requirements

Weaknesses of Traditional Wi-Fi

- Too power hungry for multi-year battery operation
- Limited Range (max 50 m)
- Poor Penetration through walls and obstacles
- Limited connectivity (max 50 devices)

Weaknesses Alternative solutions

(LoRa, Sigfox, NB-IOT, ZigBee..)

- Insufficient throughput for TCP/IP support
- Too complex, lack of eco system
- Too slow
- Unsecure

Solution Wi-Fi CERTIFIED® HaLow™

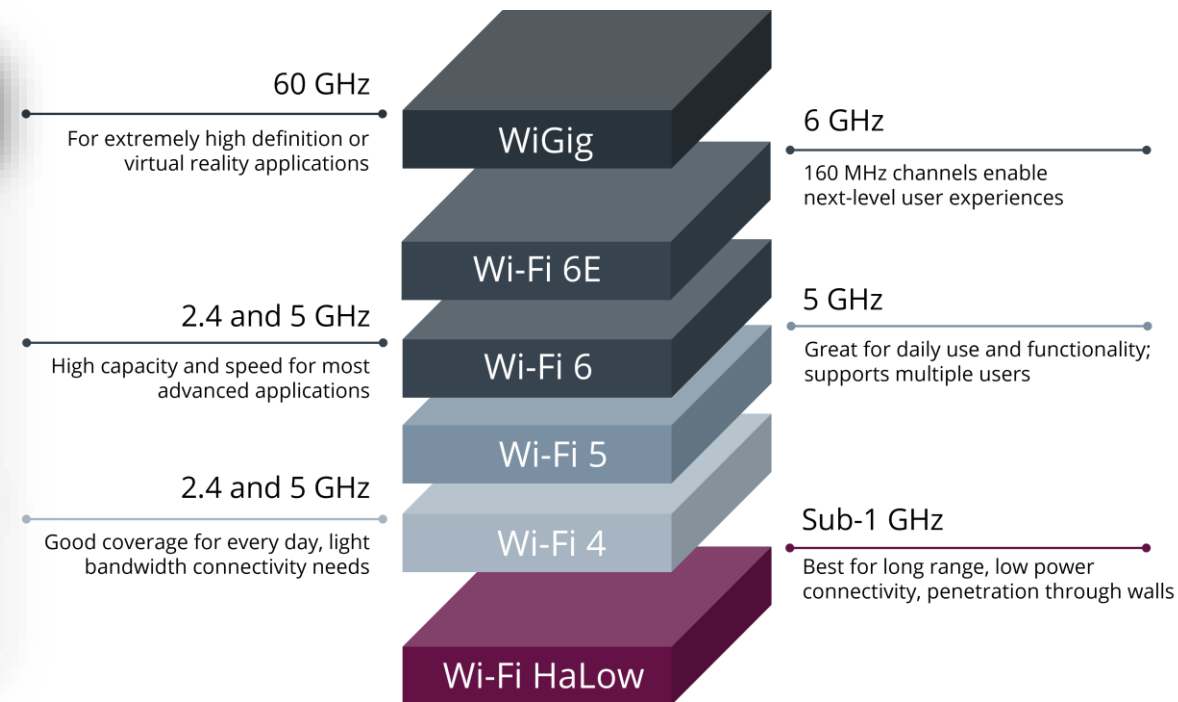
Wi-Fi HaLow™ for IoT

Features

- Sub-1 GHz spectrum operation
- Narrow band OFDM channels
- Several device power saving modes
- Native IP support
- Latest Wi-Fi® security

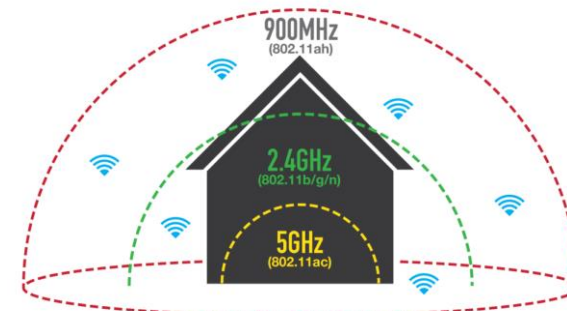
Benefits

- Long range: approximately 1 km
- Penetration through walls and other obstacles
- Supports coin cell battery devices for months or years
- No need for proprietary hubs or gateways



Source: Wi-Fi Alliance®

<p>SUPERIOR RANGE</p> <p>1.5km coverage</p>	<p>ENERGY EFFICIENT</p> <p>Multi-year battery operations</p>	<p>HIGH DATA RATE</p> <p>Up to 86.7 Mbps</p>	<p>WPA3 SECURITY</p> <p>Enterprise-grade</p>	<p>HIGH CAPACITY</p> <p>8000 STA per AP</p>	<p>FLEXIBLE & EASY</p> <p>IP Based</p>
--	---	---	---	--	---



Compelling Use Cases



Smart Home

- Home security & outdoor surveillance
- Smart lighting & energy management

Smart Factory

- M2M communication for predictive maintenance and safe plant operation
- Autonomous transportation of products & equipment

Smart Agriculture City farming



- Wireless collecting sensor data and images of plants and crops for AI breeding analysis
- Autonomous harvesting machines



Smart Health



Remote patient monitoring & tracking

- Body Area Networks (ECG, blood pressure, SpO2)

Our Wi-Fi HaLow product offering

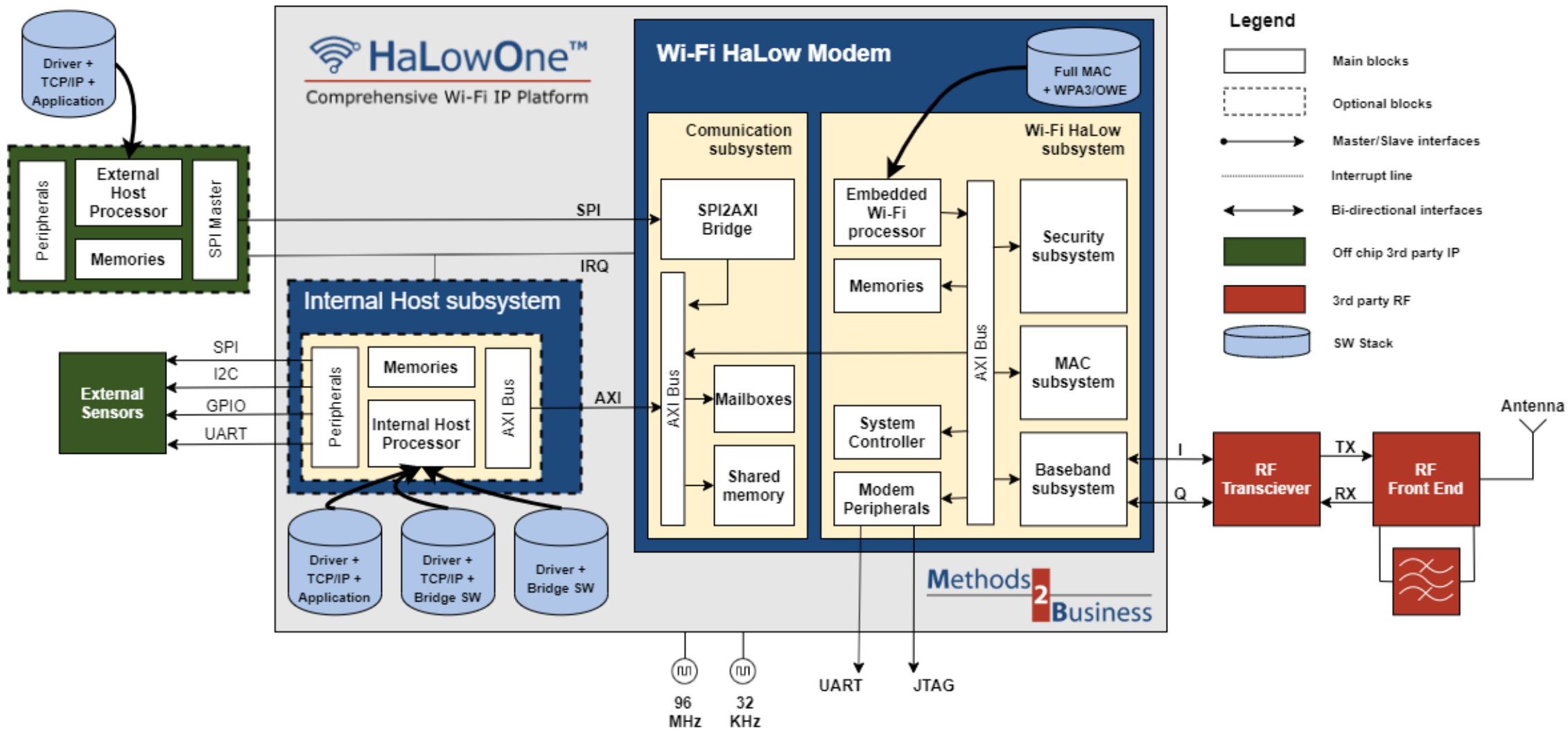


- ❑ Licensable HaLowOne IP platform
- ❑ Scalable, fully integrated and ready to use system
- ❑ Suitable for various vertical markets & process nodes

- ❑ Official Wi-Fi CERTIFIED HaLow™ Test bed Device
- ❑ Distribution via AccelTex (Wi-Fi Alliance)
- ❑ Part of official testbed in WFA Authorized Test Labs



Methods2Business HaLowOne™ platform



Maximizing the benefits of Wi-Fi HaLow in Japan

- Strengthening the effort of the Japanese AHPC 802.11ah promotion council for rolling-out Wi-Fi HaLow in Japan
- Gaining insight in Japanese market and regulatory
- Exploiting Dutch Innovation together with Japanese companies

Engaging in long-term business relationships

- **Partnering with Japanese RF providers** in joint Si-validation of fully integrated HaLowOne™ modem with RF Radio
- **Engaging with Japanese customers (chip makers)** interested in licensing our IP for entering the Wi-Fi HaLow chip market

Realizing sustainable business growth in Japan

- **Standard engagement model** – single chip IP license
- **Long-term engagement model** – multi-year IP subscription



CONTACT DETAILS



marleen@methods2business.com

+31 6 31 939 858

dejan@methods2business.com

+381 63 8717419



www.methods2business.com

THANK YOU