



tributech
TURNING DATA INTO FACTS

Magenta[®]
Business

#IMM2022 BRIEFING

IOT³ – SMART, SECURE
AND SUSTAINABLE



Our vision

We are the link between the real and the digital world.

Our values

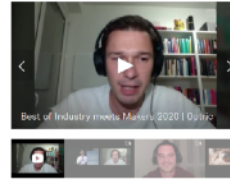
We commit
We partner
We innovate
We perform

Our mission

We make life easier, safer and greener.

Part of your life. Part of tomorrow.

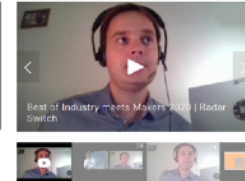
Previous years at IMM



Die „OPTIC“ von Thomas Stöckelbauer und Christian Ruckes ist eine **Smart-Sensorteile** für hochleistungsige Maschinen, die durch die Identifizierung akustischer Signale über ein Sensorfeld an Kopfteil bei der Copfwerkennung hilft.



Beim Projekt von MFX ([Autonoma](#)) geht es um die **Erhöhung des Vertrauensgrades systemintelligenter Sensordaten** in Hilfe moderner Radar-Sensoren. Letztendlich die Prozessdaten aufgrund einer schlechten Verbindung 4G/LTE gehalten werden.



Der „Radar Switch“ von [Balazs Szabo \(BadeWorkshop\)](#) ist ein **Innovativer Wandochsaler**, der auf Bewegung reagiert und durch einen Lichteffekt bei der Orientierung in der Dunkelheit hilft.



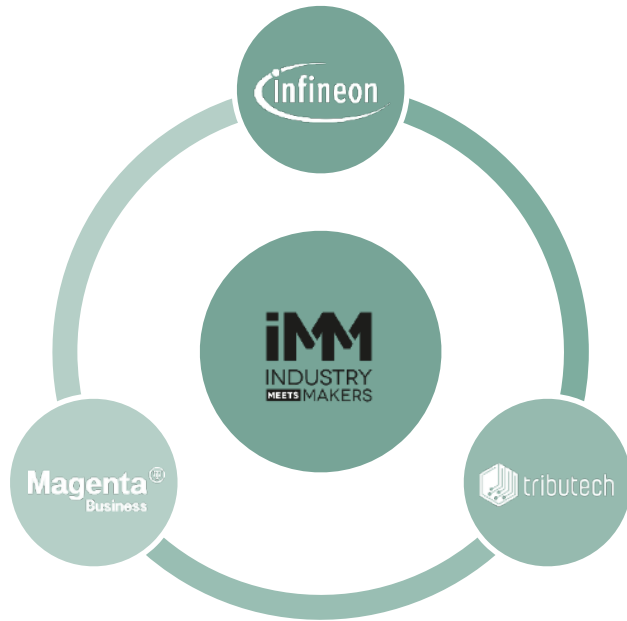
Der „InnoMake Schuh“ von [Moritz Rötter \(Top Innovation\)](#) ist smart und unterstützt selbstbeeinträchtigte Menschen durch akustische Signale und Vibration bei der Hinderniserkennung.

INFINEON: [#DISRUPTCOVID](#) - CO2 SENSOR INTEGRATION INTO THE [AUTONOMA](#) PLATFORM



David Gumpinger, Florian Haslhofer and Florian Bauernfeind ([Autonoma](#)).

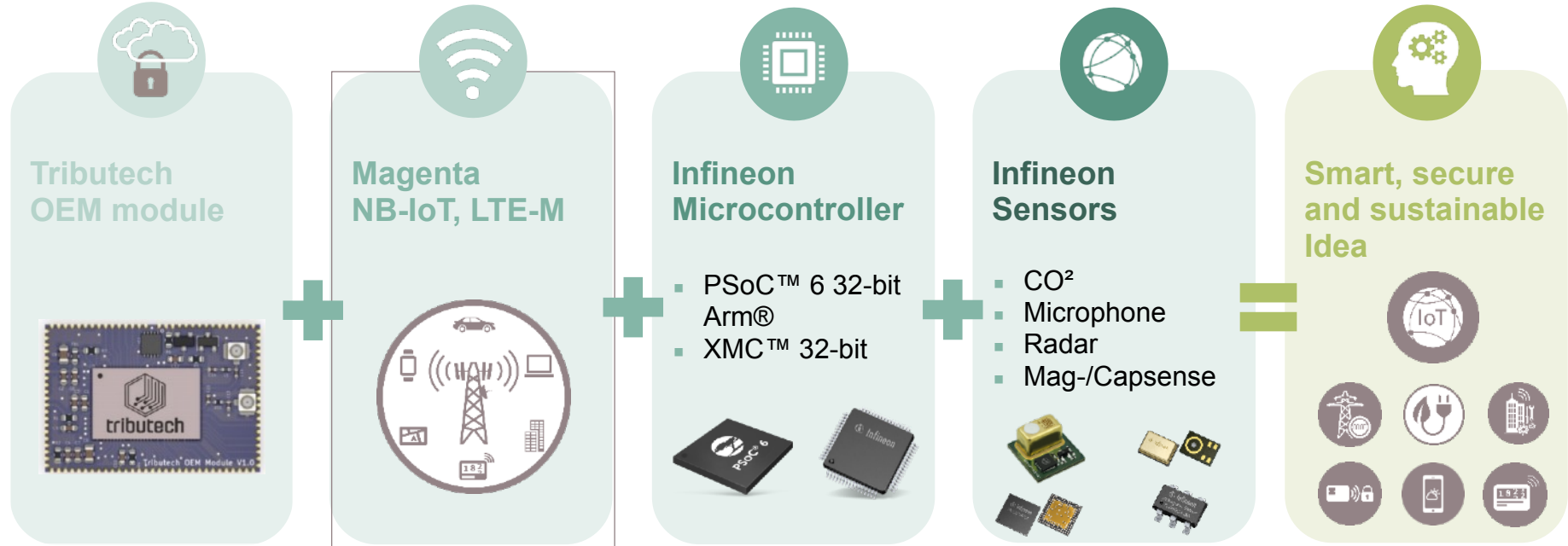
IoT³ The Challenge



IoT to the power of three

- Virtually every device connected to internet
- IoT devices on the rise
- Sensing mechanisms to analyze machines, vehicles, infrastructure and personal devices
- Build trustworthy data service ecosystem
- Help create a sustainable ecological future

IoT³ The Mission



IOT³ - Smart, Secure, Sustainable

Infineon application processors and sensor solutions

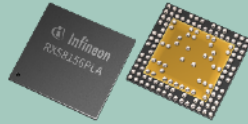
PSoC™ 6 32-bit
Arm®



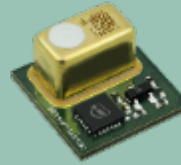
32-bit XMC™



Radar Sensor



CO² Sensor



Microphones



Magsense
Capsense



Brought spectrum of technology solutions to choose from

Support by our experts



Technology Platform for Secure, Smart and Connected Products

April 2022 | Patrick Lamplmair



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INDUSTRY
MEETS MAKERS

Tributech OEM Module for IoT Devices

The heart of next-gen devices

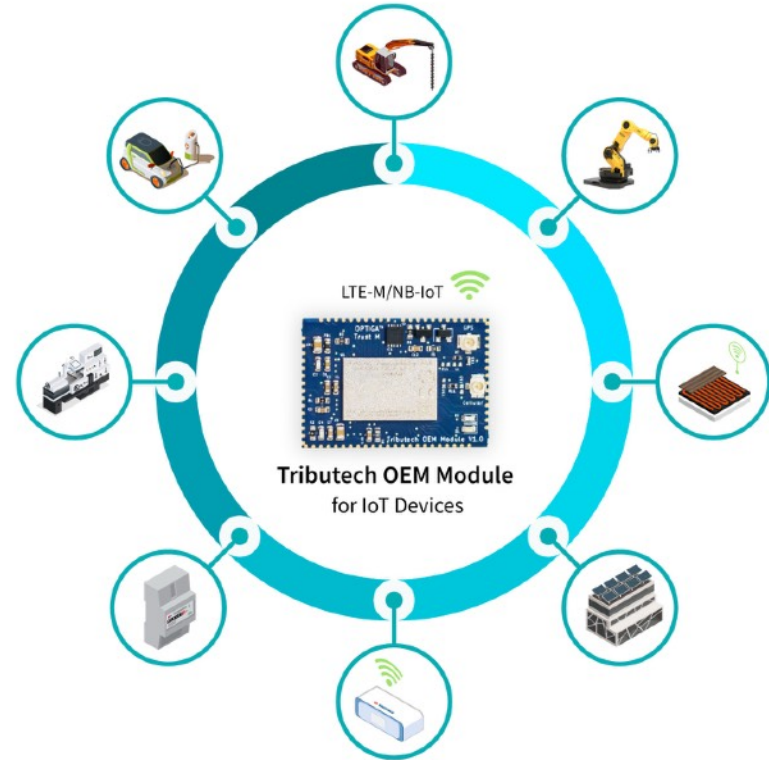


Tributech OEM Module

- ✓ LTE-M and NB-IoT Connectivity
- ✓ Hardware Security & GPS Sensor
- ✓ Over-the-air updates and configurations
- ✓ Interface for telemetry, configuration and updates

Tributech IoT and Data Platform

- ✓ Security & Provisioning
- ✓ Device Management
- ✓ Data Management
- ✓ Digital Twins
- ✓ And many more ...



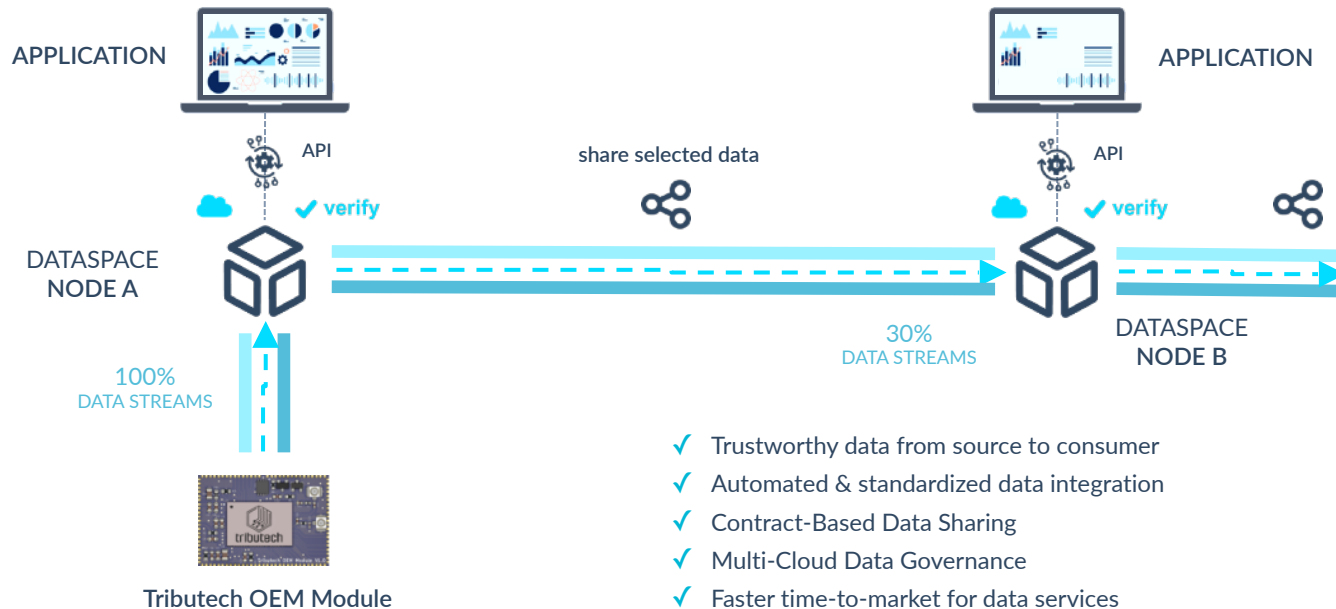
Tributech OEM Module for NextGen IoT Solutions

The modular data ecosystem building kit - scalable & fit for your future data economy



PRODUCT OPERATOR & DATA PROVIDER

DATA CONSUMER & SERVICE PROVIDER



- ✓ Trustworthy data from source to consumer
- ✓ Automated & standardized data integration
- ✓ Contract-Based Data Sharing
- ✓ Multi-Cloud Data Governance
- ✓ Faster time-to-market for data services



DATA SHARING

Full governance for sovereign & selective data sharing



SECURE CONNECTIVITY

Secure provisioning and connectivity between OT and IT



SECURITY & TRUST

Verifiable trustworthy data from sensor to consumer

The right network technology for application

| Lena Wostal | 27.04.2022 |

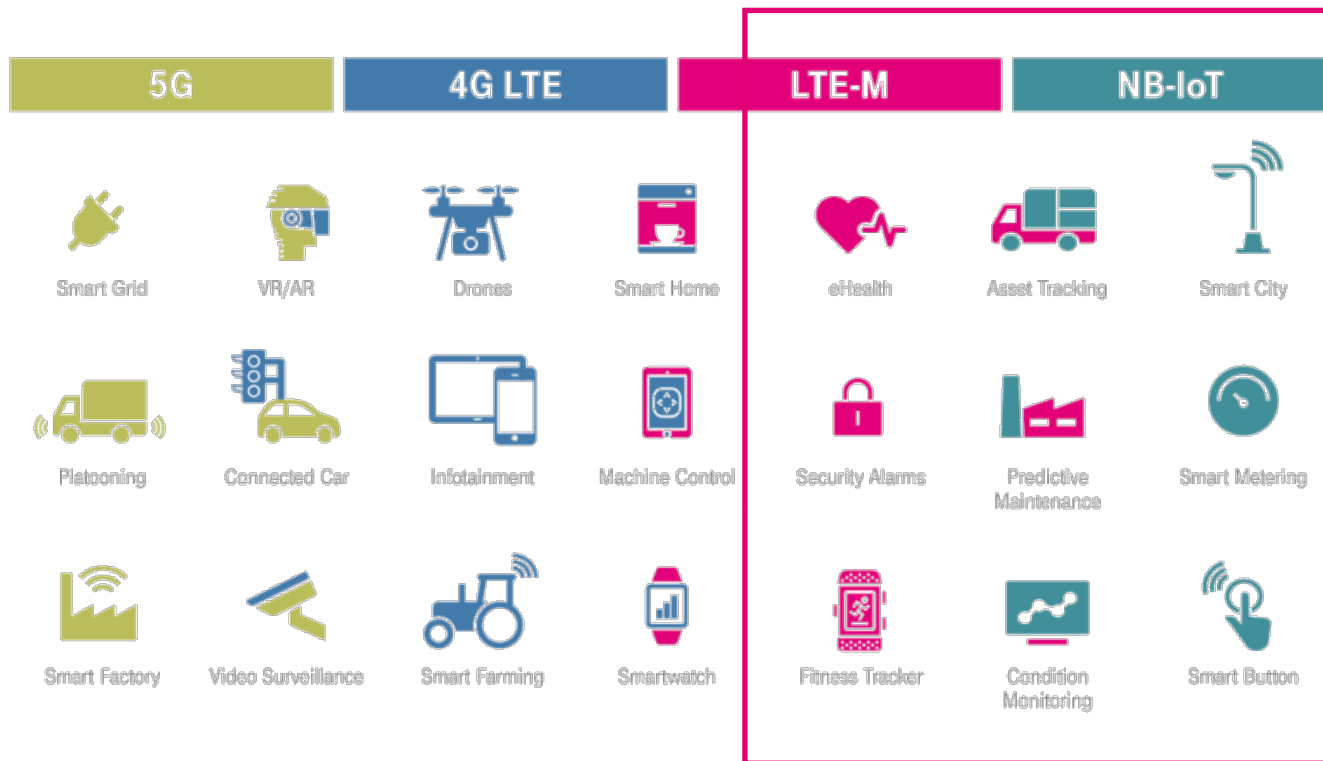


Network







The right network technology for every application

	NB-IoT	LTE-M	4G	5G
Low latency	● ○ ○ ○	● ● ○ ○	● ● ● ○	● ● ● ●
Building penetration	● ● ● ●	● ● ● ○	● ● ○ ○	● ○ ○ ○
Data rate	● ○ ○ ○	● ● ○ ○	● ● ● ○	● ● ● ●
Battery life	● ● ● ●	● ● ● ○	● ● ○ ○	● ○ ○ ○

Use Cases



Application Ideas

<p>Air-quality monitoring for smart buildings and infrastructure</p> 	<p>Energy monitoring/smart metering</p> 	<p>Environmental parameter tracking</p> 
<p>Smart counting</p> 	<p>Liquid level sensing</p> 	<p>Smart access – unlocking machines for PayPerUse</p> 

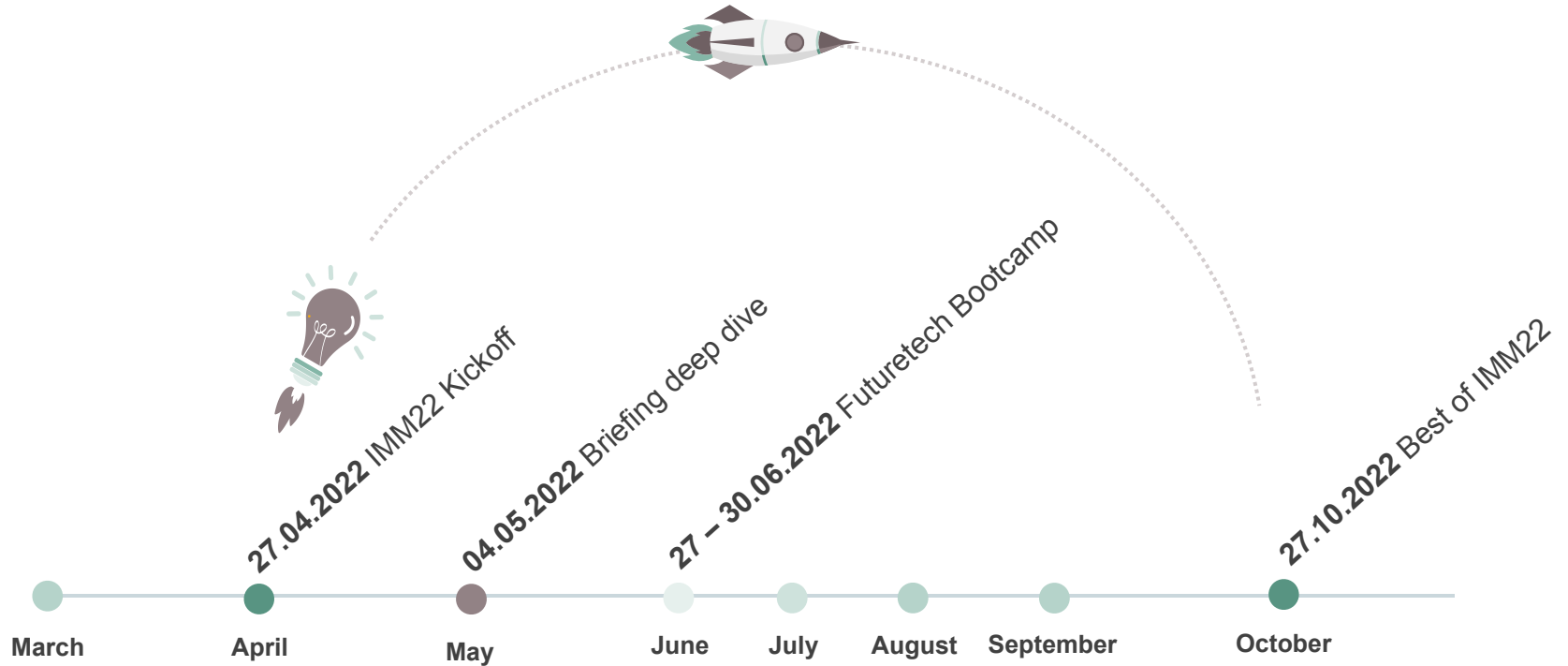
Up to 10 Projects will be selected
Grading of applications and first come first serve

Hardware support and expert know-how
Development kits, connectivity and platform access

Expected outcome
Functional prototype or at least solid foundational work

Innovative Projects
Will have grounds for partnership

Timeline



Application

Send applications to

industrymeetsmakers@infineon.com

