



 **News, Visions, Values**

Dr. Vladimír Šulc, CEO, IQRF Tech s.r.o. + MICRORISC s.r.o.

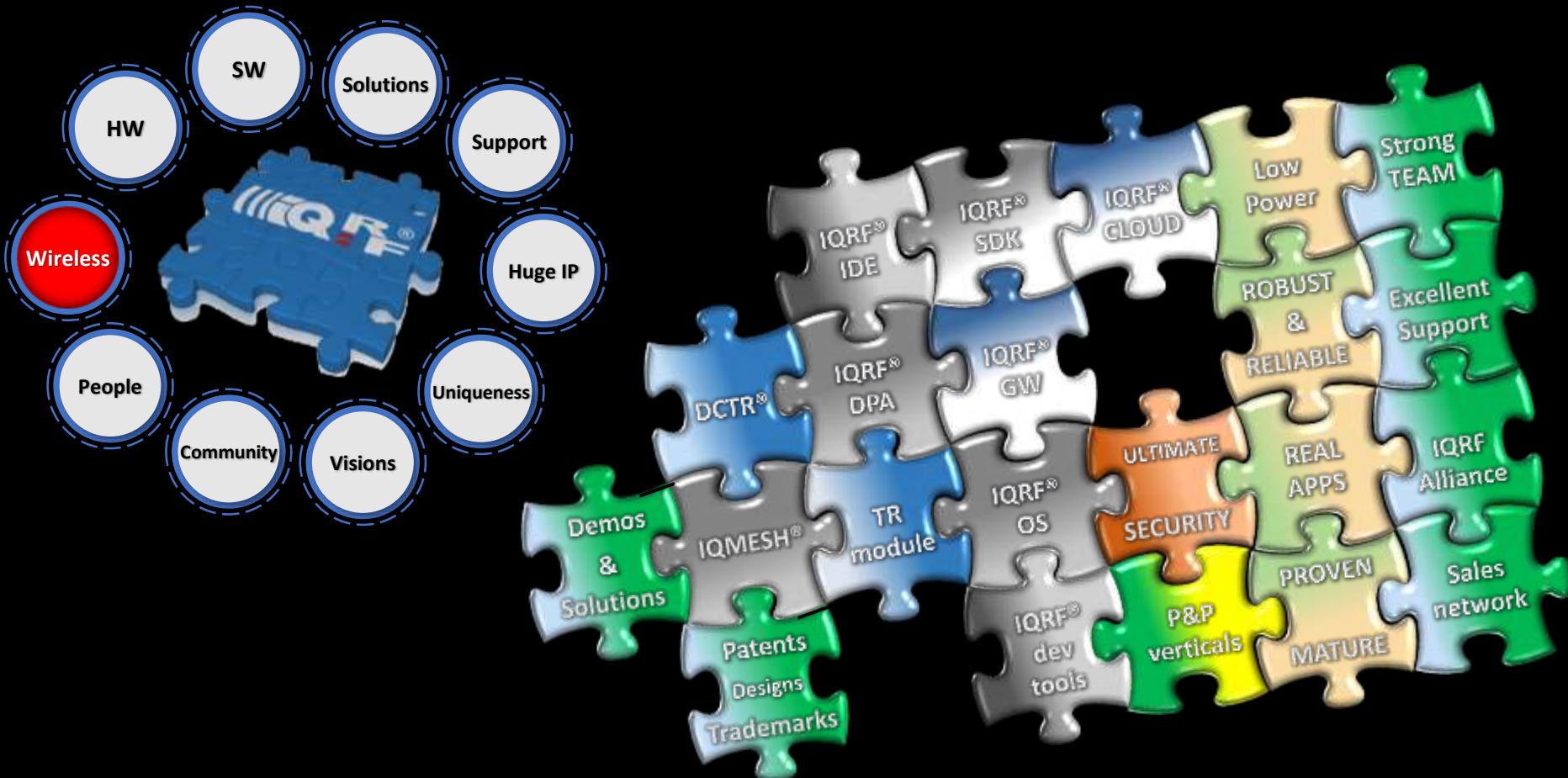


IQRF® is unique wireless technology simply connecting devices to IoT through wireless mesh networks.





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The IQRF® is growing ecosystem and horizontal platform based on a mature wireless mesh technology.

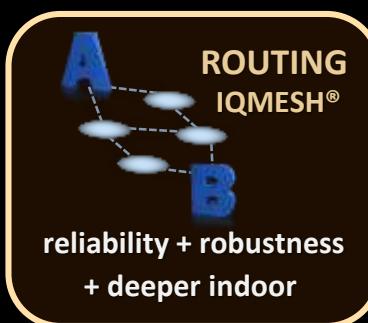
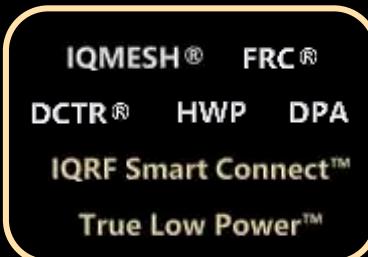


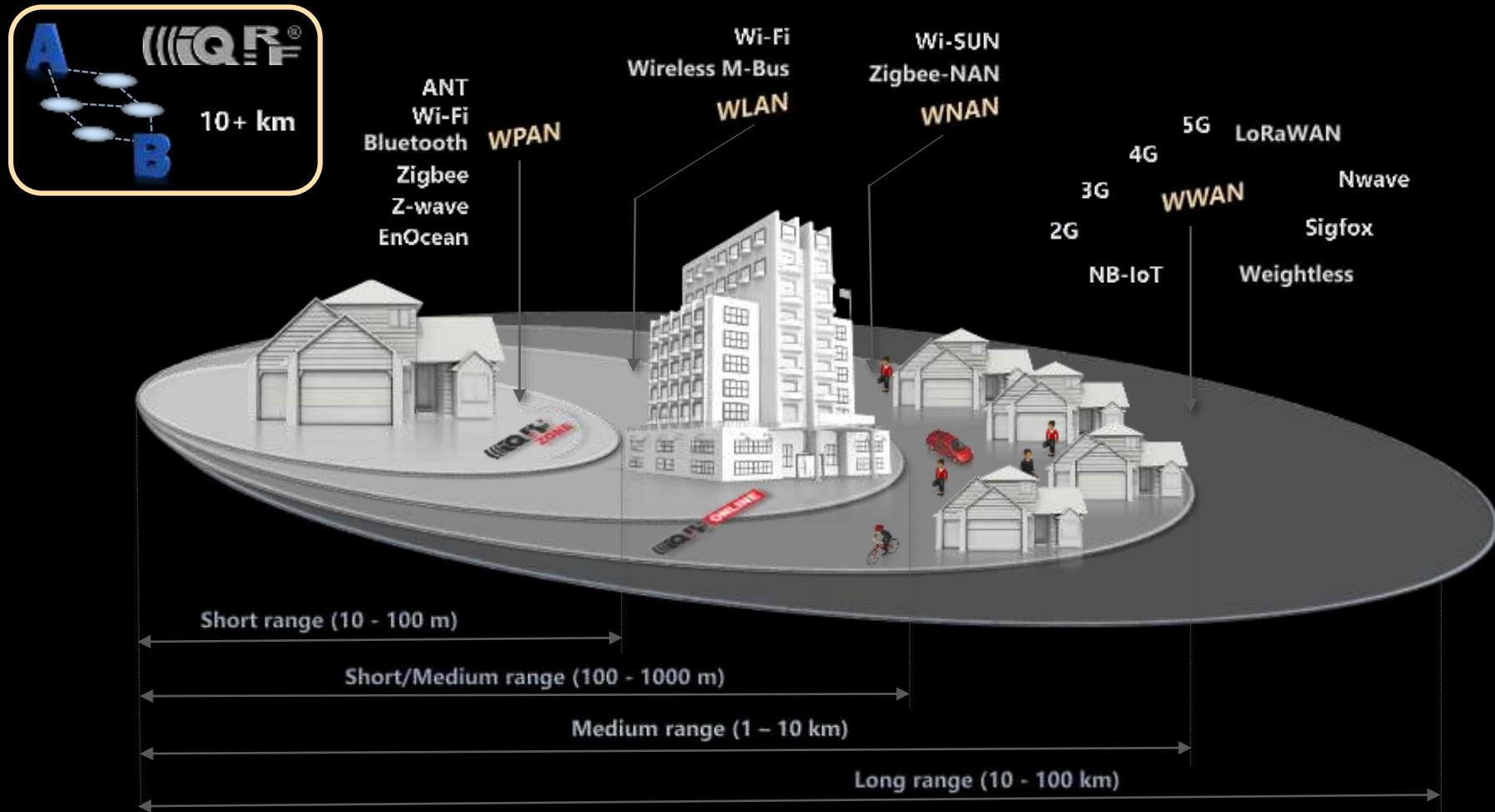
IQRF® is **mature** wireless technology, which **can be easily integrated** into any electronic product by ready-to-use transceiver modules, dramatically shortening time-to-market.

Devices talking by the same language, IQRF® DPA commands, are **fully interoperable**.

IQRF® is **complementary to standards** (cellular, WiFi, Ethernet), deploying existing communication infrastructures, enabling local autonomy in wireless mesh networks.

## SIMPLE, SECURE, INTEROPERABLE

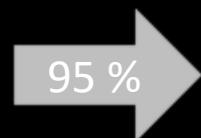








2004 - 2017



Sponsor  
Devices manufacturer

**MICRORISC s.r.o.**

2017 -



IP related to the IQRF®  
IQRF® Core Infrastructure development

**IQRF Tech s.r.o.**

2014 -



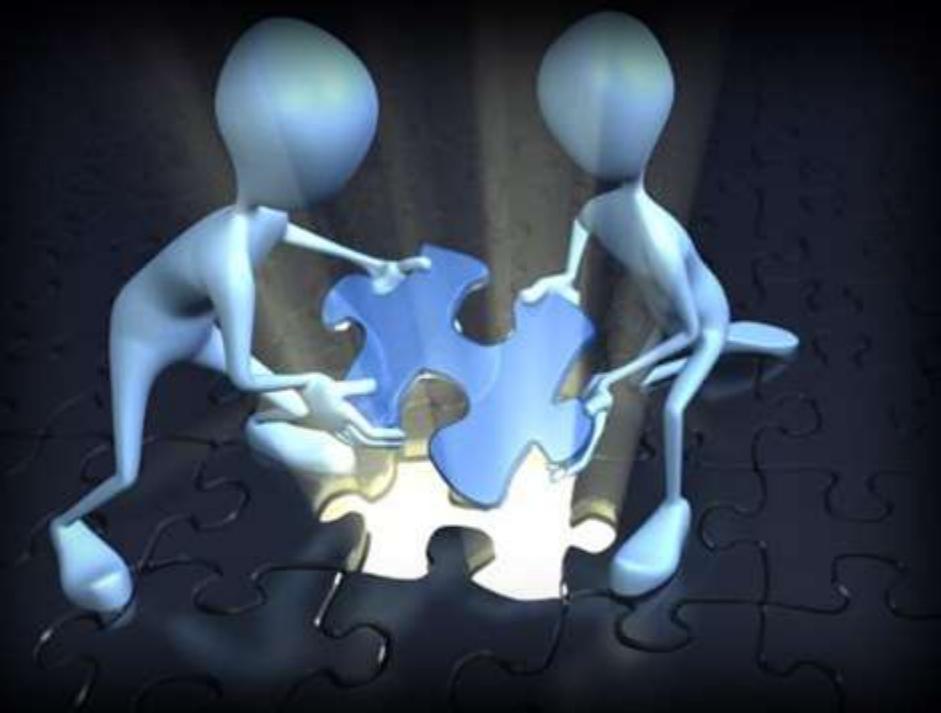
Interoperability  
Community

**IQRF Alliance z.s.**



IQRF News, Visions, Values

What we have prepared for you?



The IQRF® is growing ecosystem and horizontal platform based on a mature wireless mesh technology.



## IQRF Tech s.r.o.



### IQRF® Core Infrastructure



Industrial gateway

IQRF® Daemon + SDK



Dedicated repeater



Commercial gateway



IQRF® IC

IQRF® IDE



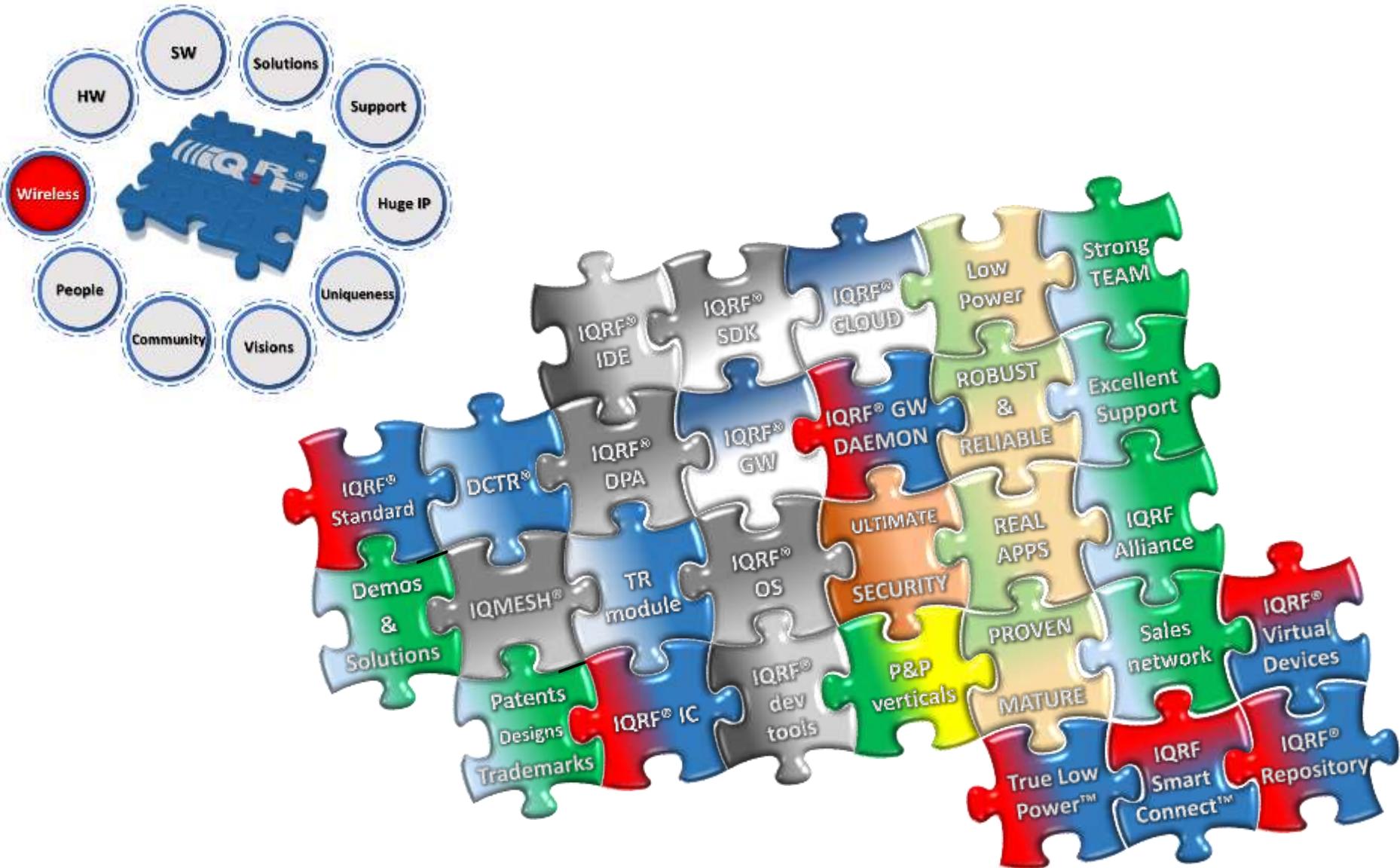
Data Controlled Transceiver

IQRF® HWPs

IQRF® OS



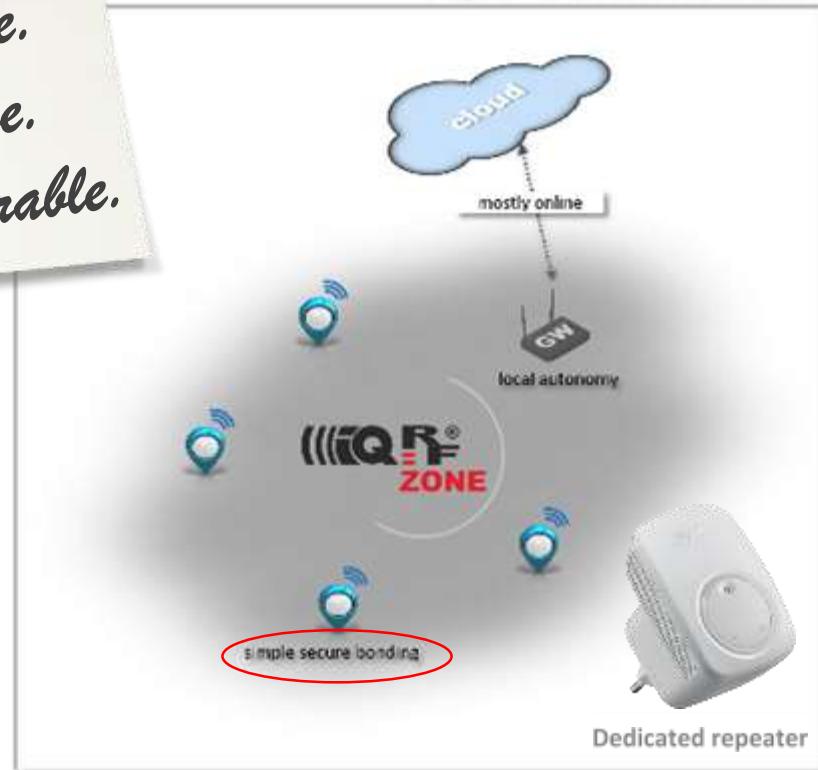
wireless mesh technology for IoT





*Simple.  
Secure.  
Interoperable.*

## IQRF Summit 2017



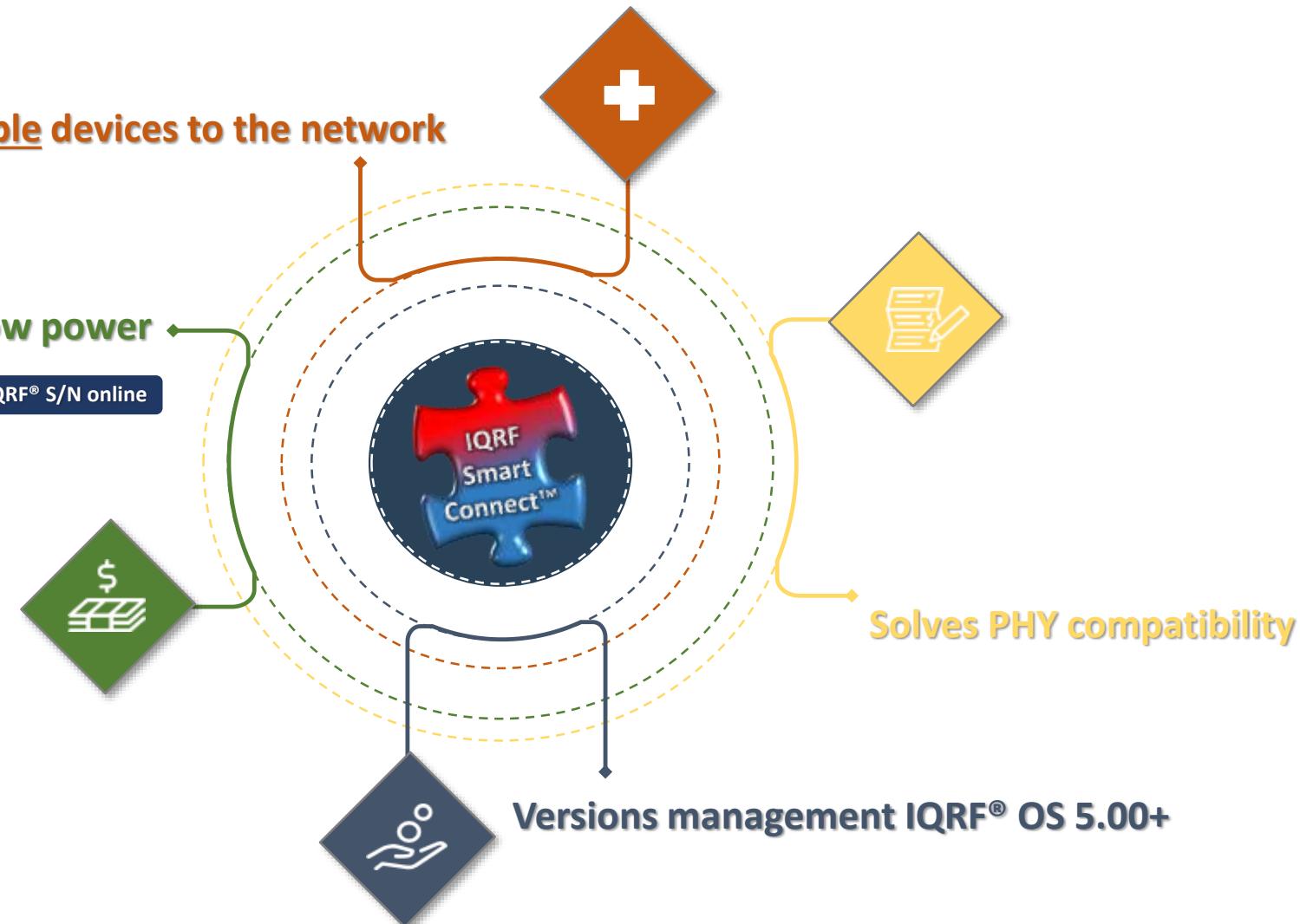


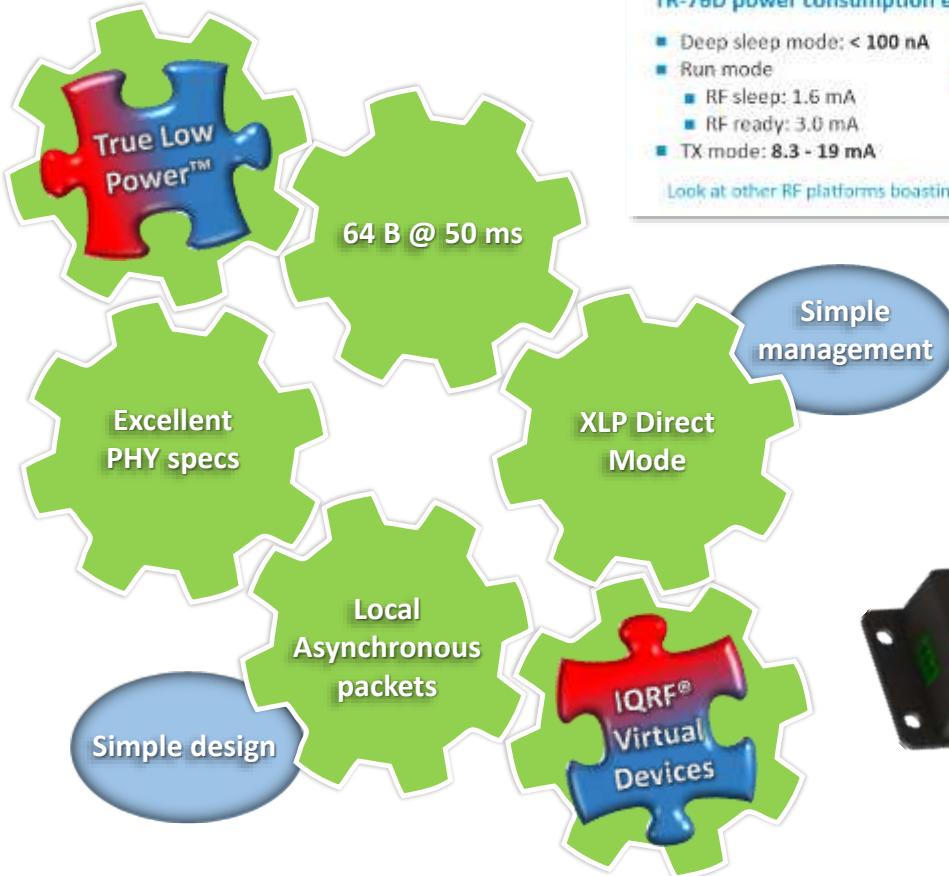
**Adds interoperable devices to the network**

**Simple, Secure, Low power**



IQRF® S/N online





## TR-76D power consumption example

- Deep sleep mode: < 100 nA
- Run mode
  - RF sleep: 1.6 mA
  - RF ready: 3.0 mA
- TX mode: 8.3 - 19 mA
- Sleep mode: < 1 µA
- RX mode
  - STD: 12.3 mA
  - LP: 233 µA
  - XLP: 15 µA

Look at other RF platforms boasting ultra/extralow power.

IQRF lifetime\* for 1 Ah, 3.6 V, ½ AA sized battery:

- 1000 years in Deep sleep
- 7 years continually receiving in XLP \*\*
- 300 MB data received
- 200 MB data transmitted (at highest RF output power)

\* Theoretical values

\*\* Without an incoming RF signal including a noise

## Controllers

- Normally sleeping device, activated by user
- Life expectancy: years
- True life expectancy: >100.000 events**



## Actuators

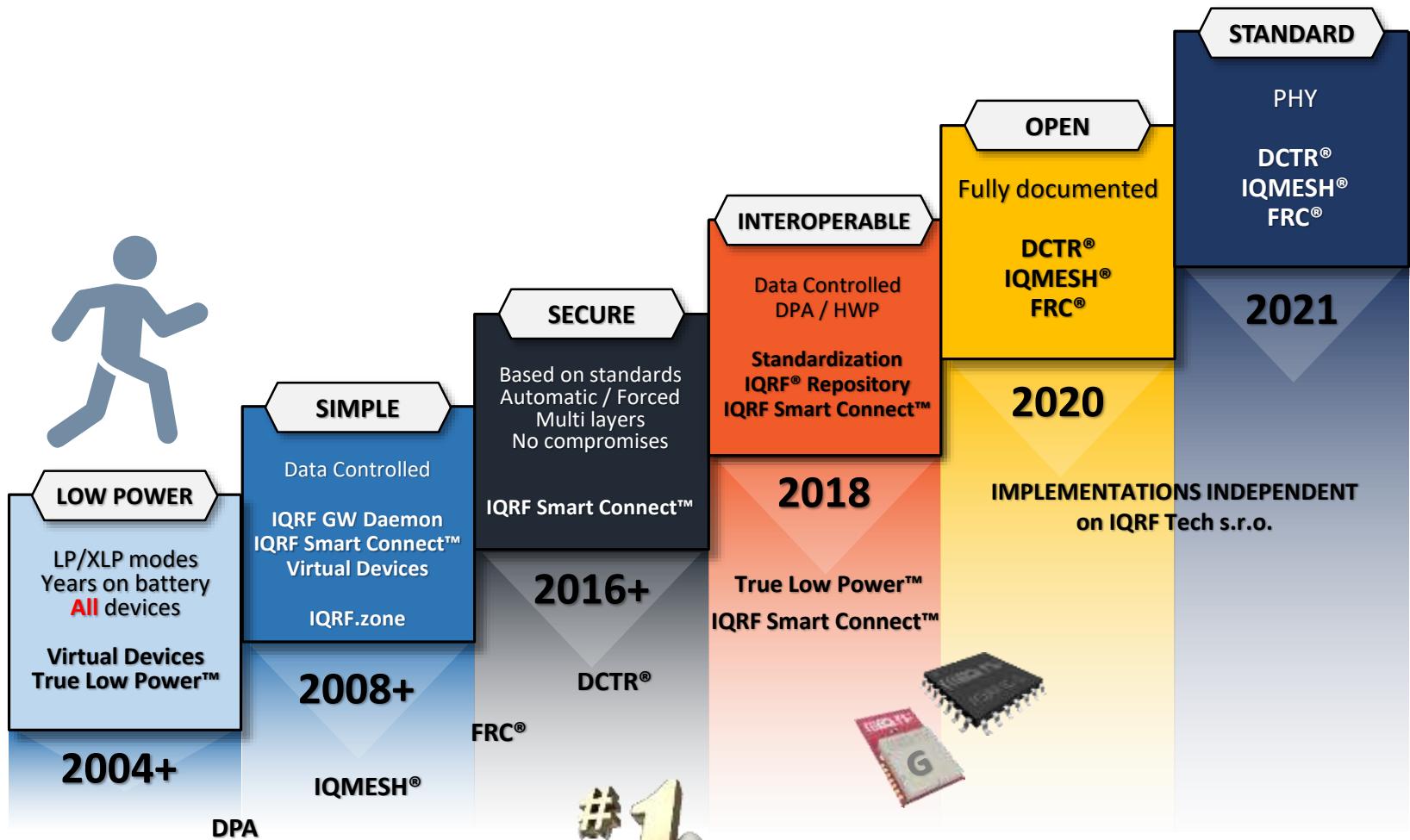
- Battery operated device processing commands
- True life expectancy: years being online**



## Sensors

- Sending data when needed
- Life expectancy: years
- True life expectancy: >100.000 events**





wireless mesh technology for IoT



## IQRF News, Visions, Values



IQRF Summit 2018: real solutions and clear visions