||**|[€]]** Summit 2019

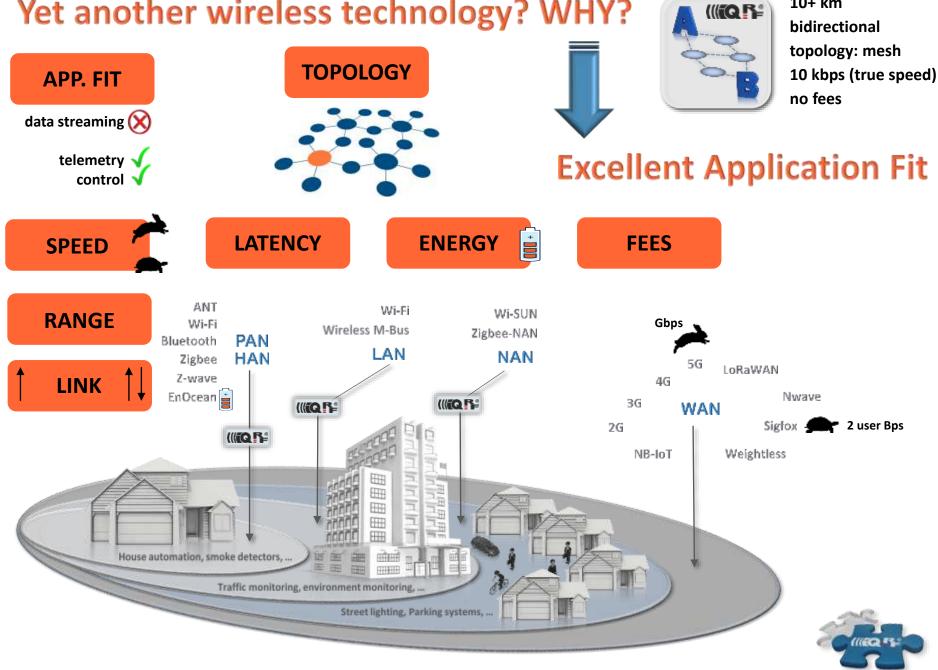
Towards IQRF® open standard | since 2004

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

Wireless Technologies

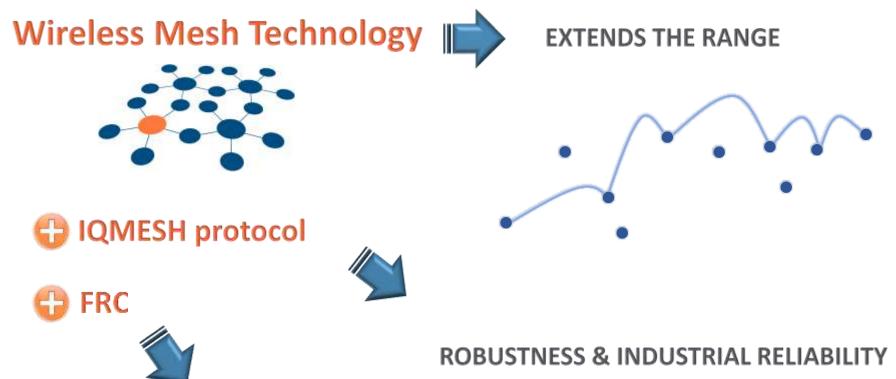
11160 13:

Yet another wireless technology? WHY?



Smarter wireless since 2004

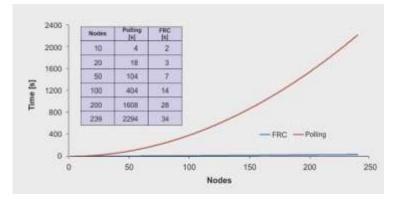
10+ km



240 hops, deterministic & predictable

LATENCY DECREASE

time dependency linearized, data aggregation





Open Standard. Why?



"Hard" interoperability makes IQRF based products more attractive.

We believe in a community power and in open technologies.

Choosing any chip, any radio, any cloud.



Targeting and Application fit

Industry 4.0

customized apps

rapid development proven systems reliability

Smart Buildings

lighting automation information safety & security

interoperability low power reliability no connectivity fees

Smart City

parking street lighting traffic monitoring information systems

reliability low power low maintenance costs

Telemetry

Cellulars LoRaWAN NB-IoT

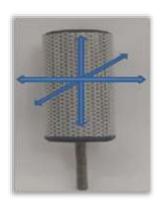
aggregation penetration

sensors AMR











Open Standard. What should we do?

Core standard specification

Internal documentation should go public

IQRF PHY: frequencies, timing, speed, modulation

IQMESH protocol: addressing, routing, timing

DPA protocol

DPA commands

Security: based on standards and realizable on any small microcontroller

Network joining mechanisms

Interoperability: functionality should be defined based on device categories



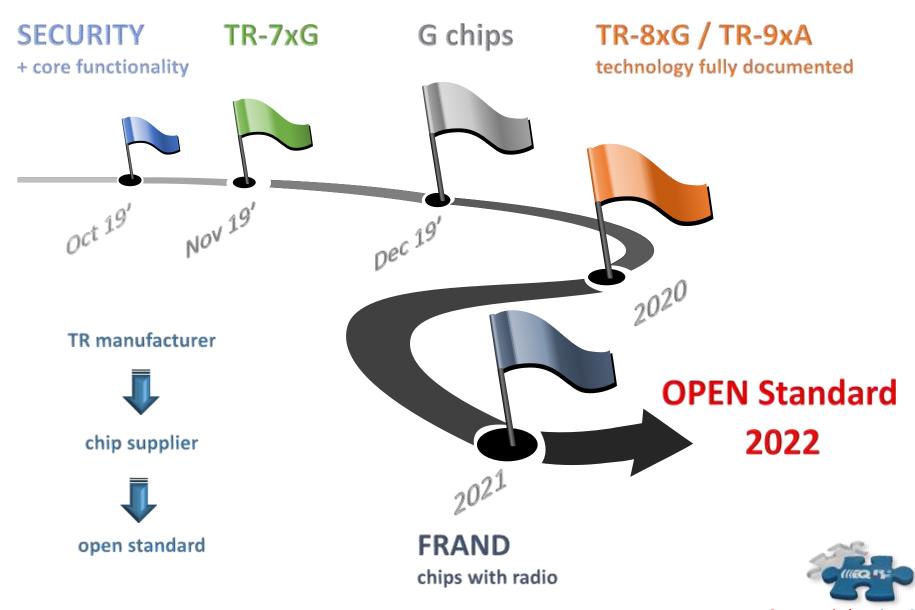
Bit more details related to the transition

IQMESH protocol: measurements, fixing, documentation Security: simplification, avoiding undocumented layers Interoperability: backward interoperability without up/down grade Virtual devices: better LP functionality, simpler deployment TR-7xD/7xG interoperability G1 chips G2 chips TR-xxA interoperability prove

G3 chips with radio



Roadmap to the Open Standard



Smarter wireless since 2004

Towards IQRF[®] open standard



IQRF[®] simply connects devices to IoT through wireless mesh networks.