

# We Bring FREEDOM to Wireless Networks

- We free networks from the cost, complexity and vendor dependency of legacy approaches
- "Click-to-deploy" millions of networks in every home, building, office, factory, smart city, island, village or hamlet
- Provide indoor coverage to the 80% of places where Private LTE and 5G will primarily be used
- Founded in 2005 and headquartered in Italy
- 15 years of leadership in software-based and cloudified networks
- World's first production deployment of a fully virtualised core network for a mobile operator in 2010 – HUTCHISON 3G

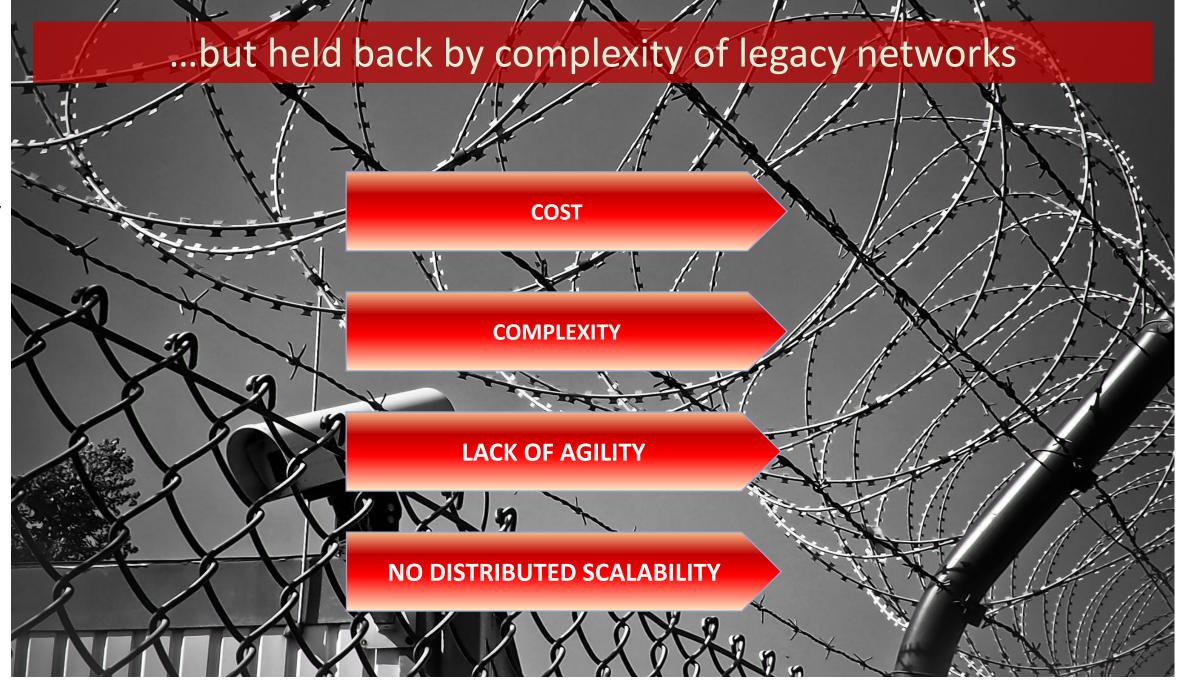
THE SOFTWARE IS THE NETWORK

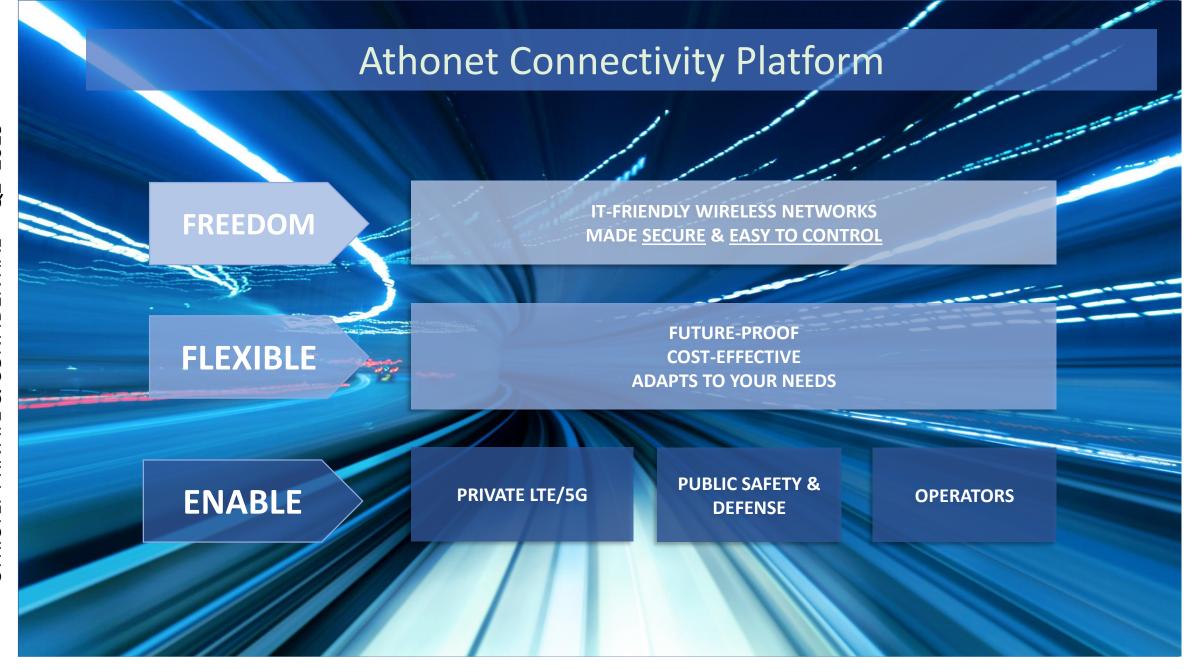
# Digitalization is driving a paradigm shift ...

INDUSTRIAL INTERNET
INTERNET OF THINGS
CONNECTED HEALTH & EDUCATION
GOVERNMENT & PUBLIC SAFETY
OTHER DEMANDING VERTICALS

VIRTUAL & ENHANCED REALITY
CONNECTED & AUTONOMOUS CARS
SMART CITIES & SMART GRIDS
BRIDGING THE DIGITAL DIVIDE
NARROWBAND - IOT

Needs millions of localised LTE and 5G networks instead of a handful of monolithic national ones





## Athonet unleashes the new paradigm

#### Over 100 connectivity platform deployments world-wide



World's First LTE Commercial Smartgrid / One of the world's largest IoT deployments for Enel (2011)



World's First LTE commercial deployment for public safety – Italian Earthquake (2012)



Early LTE rural networks in USA (2014) and early CBRS trials (2017)



First underground mining LTE network in Americas at Americas' deepest mine (2018)



BT Pre-5G Demos, Vodafone 5G Mobility Lab, Italy 5G Trials (2017-18)





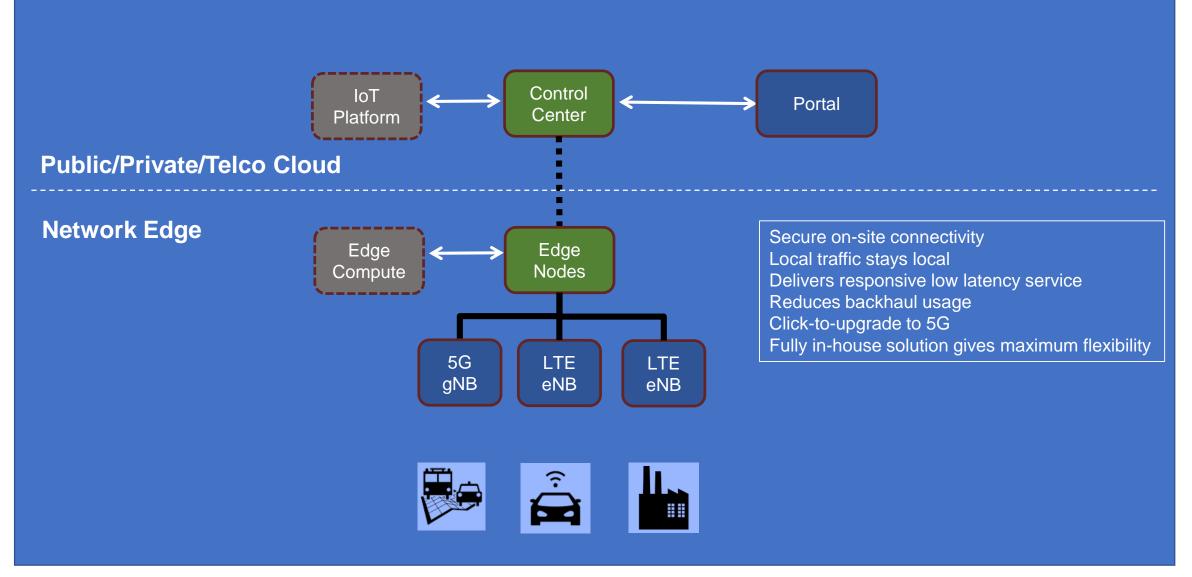
World's first commercial LTE MVNO for public safety – Government of Finland 2015







## The Athonet Connectivity Platform Solution



## IOT AppConnect – Deliver "Control", Not "Bits"

#### **Legacy Approach**



X.509 MQTT

TLS/SSL

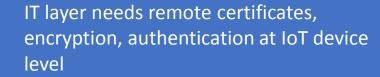
IT Layer

LTE Layer

X.509 TLS/SSL **MQPTT** 

SIM CARD

IT layer runs over LTE layer and duplicates functionality – no integration between IT and LTE domains - LTE just delivers "bits"



Raises cost and complexity as often cannot be supported by simple devices – need additional platform spending

Complex to manage, rotate and revoke certificates for millions of remote devices

#### **Athonet - IoT AppConnect**



X.509 TLS/SSL MQTT



SIM CARD



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Superior LTE protocols manage device level security and authentication

EPC provides simple centralised certificate management for millions of devices

Move from "dumb pipe" to "smart connectivity"

EPC communicates directly with IoT platform and manages connectivity to the IT domain – unites IT and LTE layers – LTE delivers "CONTROL"

# Pathway to 5G

15 years of 5G-orientated architecture

10 years of cloudification experience

15 years of fully in-house developed software stack

**5G** is NOT a change in our approach – just a software update

FIRST 5G STAND-ALONE NEW CORE ON PUBLIC CLOUD
Presented at MWC 2019



# THE NEXT GENERATION SOLUTION Millions of distributed networks connected by the cloud

Athonet's IoT AppConnect manages secure SIM-based connectivity between devices and AWS IoT platform

> Edge Node ATHONET

Webscaling on public/private cloud ATHONET Global IoT **Platforms** BubbleCloud Public or Private Cloud Only signalling to the cloud Local Edge Compute & Applications Low latency, high reliability ATHONET Edge Node ATHONET Edge Node ATHONET Edge Node ATHONET Local traffic stays local **Local Visibility and Control Edge Node** 

## Industry Recognition – MWC 2019

#### Record 4 GLOMO Awards for single product

- CTO'S CHOICE Outstanding Mobile Technology
- Best Innovation for Enterprise
- Best Mobile Technology Breakthrough
- Best Network Software Breakthrough

"[Athonet] BubbleCloud just won a record four GLOMO awards, that's particularly impressive because it was only nominated in three categories. The fourth was a special CTO's Choice award. That's as many as [names of legacy vendors removed] combined" - Dave Burnstein in Edge Reporter







Secure LTE & 5G as simple as WiFi!
Watch the demo video here:
https://static.athonet.cloud/saas/CBRS.mp4

# Please see the demonstration here!!

