



PRESENT:

“The Smart City’s Backbone – Blueprint for a 5G platform core network”

5G TECHRITORY 2018  
SEPTEMBER 27-29  
RIGA



# INTRODUCTION



Younes Allaki  
Founder & CTO



- Founded in 2018
- Headquarter in Cologne
- IoT Connectivity Disrupted

powered by 



Holger Winkelmann  
Managing Director

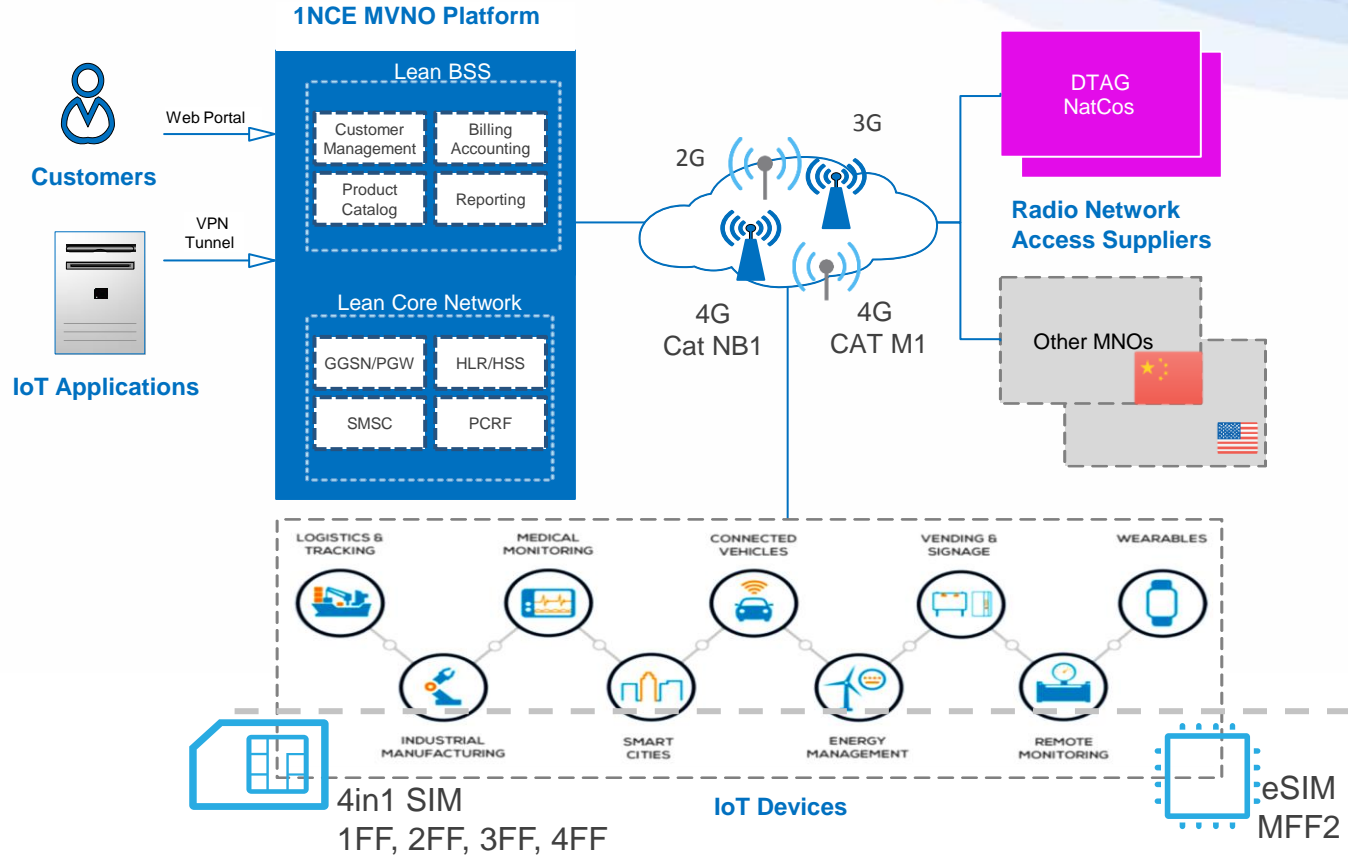


- Founded in 2004
- Headquarter in Magdeburg
- Software Defined Networking

The background features a city skyline across a body of water under a sunset sky. A network of white lines connects various circular icons: a cloud, a Wi-Fi symbol, a house, a bicycle, a bus, and a square. The central text is contained within a light blue, semi-transparent rectangular box.

**WHAT 5G AND  
SMART CITY  
MEANS TO US AND  
WHY WE CARE?**

# OUR FIRST STEP TOWARDS 5G – 1NCE CLOUD ENABLED IOT CONNECTIVITY PLATFORM



# BUILDING AN IOT NETWORK PLATFORM IN 7 MONTHS – WHAT WE'VE LEARNED

## Simplicity is key

Standardization of connectivity building block to fit different customer needs.



## Open interfaces

Essential for delivering fast and reliable services and connecting into different ecosystems.

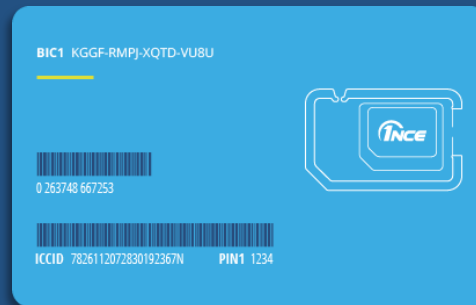


## Fail fast, fail cheap

Agile methods, lean organization, flexible platforms.



# THANK YOU!



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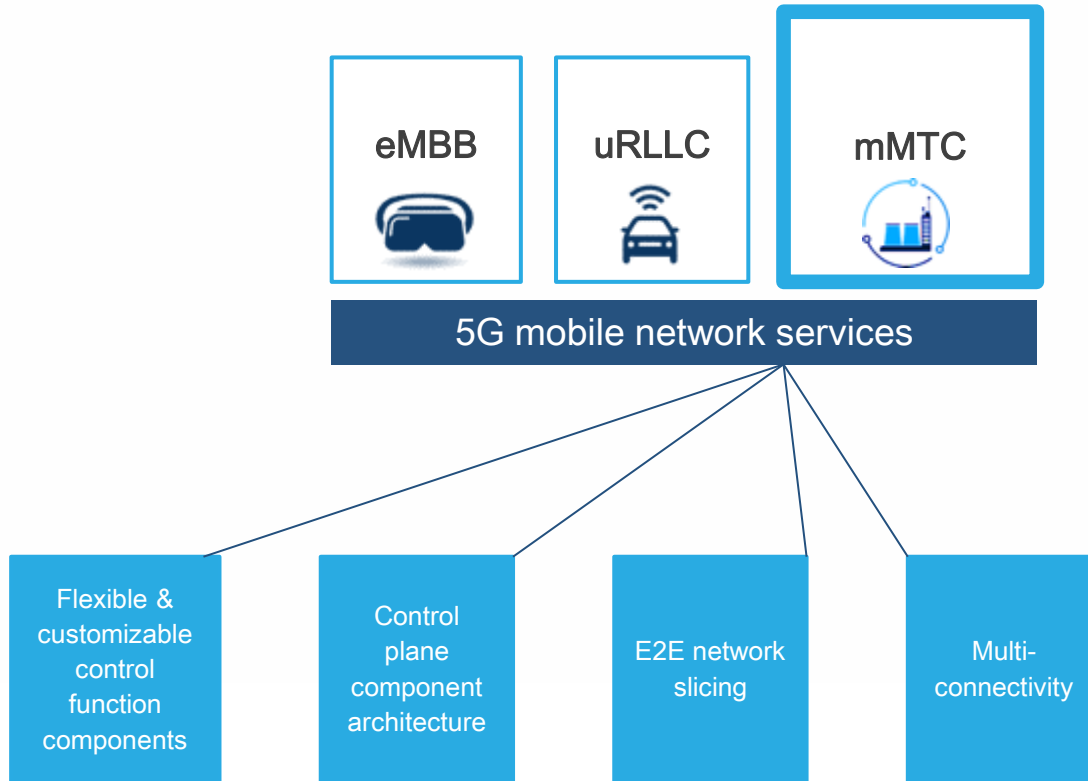
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# A SMART CITIES BACKBONE – 5G NETWORK BLUEPRINT



- Smart city network services require much higher bandwidths & connection density
- Existing architectures are insufficiently flexible
- 1NCE networks possess self-serving agile operation capabilities
- Supports co-existent accesses of multiple standard (2G, 3G, 4G, Nb-IoT, LTE-M)
- Shorter period of service deployment
- Network slicing services can be automatically generated, maintained, or terminated



# TECHNICAL STRENGTHS: LEAN PRODUCTION – OUR CAPABILITY TO ENABLE A FULL MVNO & MVNE

Lean Business solutions systems	Lean Network Core
<ul style="list-style-type: none"><li>• Optimized set of features</li><li>• Support for M2M Customer Products</li><li>• Self Service</li><li>• Short implementation time</li><li>• High performance</li></ul>	<ul style="list-style-type: none"><li>• Full virtualized</li><li>• Single system with multiple Core Network elements</li><li>• Flexible, faster deployments</li><li>• Multiple access models (e.g. IPVPN, APN, Private IPs)</li></ul>
<ul style="list-style-type: none"><li>• High degree of automation</li><li>• Multi-tenancy support</li><li>• Elastic scalability</li><li>• Geo-redundancy and fault tolerance</li></ul>	<ul style="list-style-type: none"><li>• Cloud-hosted</li><li>• Secure</li><li>• Everything configurable via APIs</li><li>• Adoption of Open Source</li></ul>