5G @DTAG

Presentation by Daniel Brower, 04.11.2020
VP Technology Business Operations/Development

LIFE IS FOR SHARING.

5G technology status

DTAG was the frontrunner in NGMN 5G Whitepaper

5G Demos & trials paved the way towards a new evolution

5G NSA Architecture in place & under roll out

TDG is rolling out NR solutions and offers commercial services

CU/DU split architecture & first steps towards disagregated networks in place

Foundation built for successful roll-out in Germany

2.100 MHz considered as ideal band (deployed already for 3G)

Transmitting at same TTI **both LTE and 5G NR**

Enhancing 5G NR coverage + **improving LTE user performance** by aggregating more spectrum

Limited investment needed due to modernized RAN network

First Multivendor FDD solution **globally**

Dynamic spectrum sharing

From initial idea to roll-out boosting 5G coverage

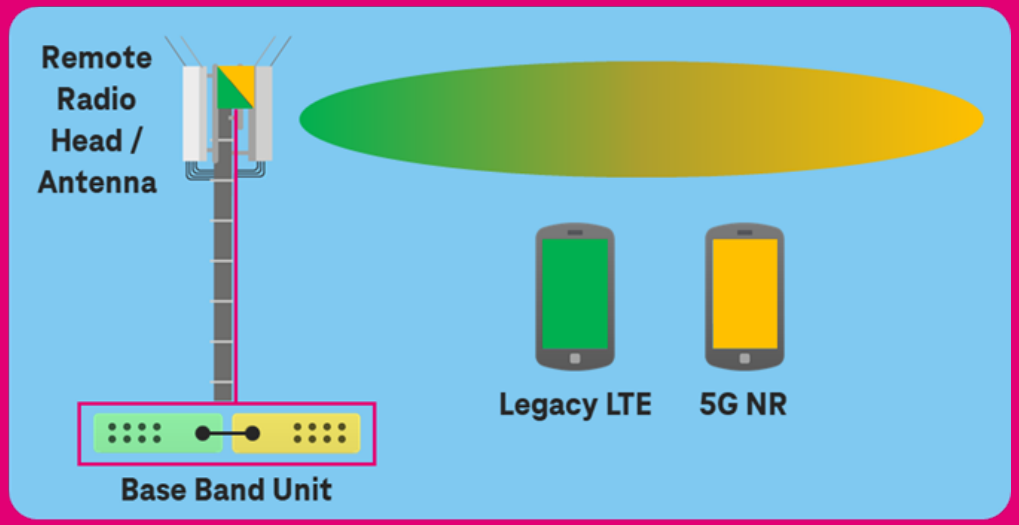
1st discussions on future spectrum use, incl. spectrum program board

Concept developed | Initial proposal for LTE / 5G NR in 2.100MHz for LTE / 5G NR | Vendor push

PoC & lab demo
Continued push of supplier roadmaps
Vendor push

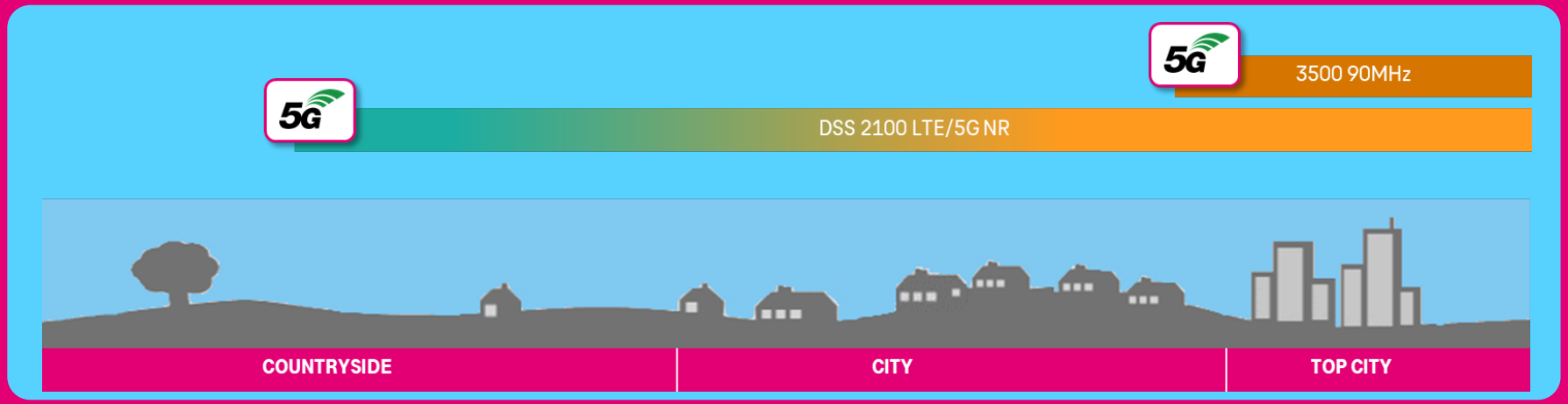
5G Roll-out in GER Q2/20, Population coverage >50% in 07/20, additional introductions planned in AT, PL, GR, HU, HR

… and ensuring 5G Leadership



LTE & 5G NR

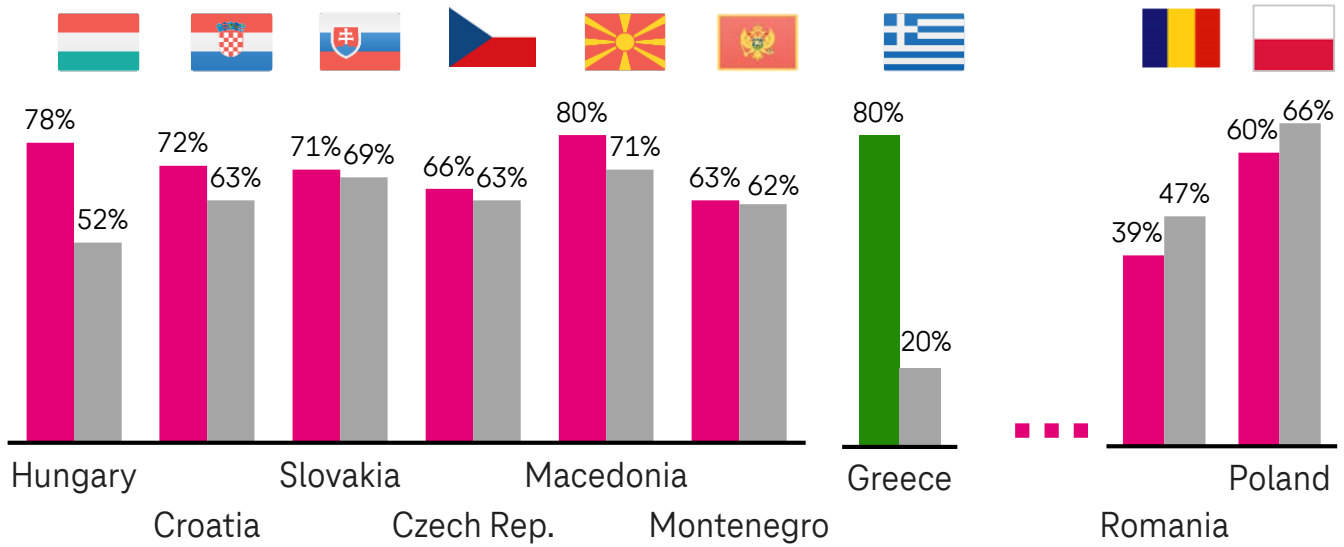
EXTENDED 5G COVERAGE



Our network leadership

Our biggest asset - In most of our markets we are perceived as the *strongest mobile network provider*

Offers excellent coverage of its mobile network (Q1 2020) *



*NatCo brand tracking: Top 2 boxes on scale 1-5; GR different measurement – Residential network KPIs

But it’s critical to maintain this leadership …

Giving free way to our competitors would jeopardize our network leadership keeping the *innovator status*

4G strenghtened our network over the years –

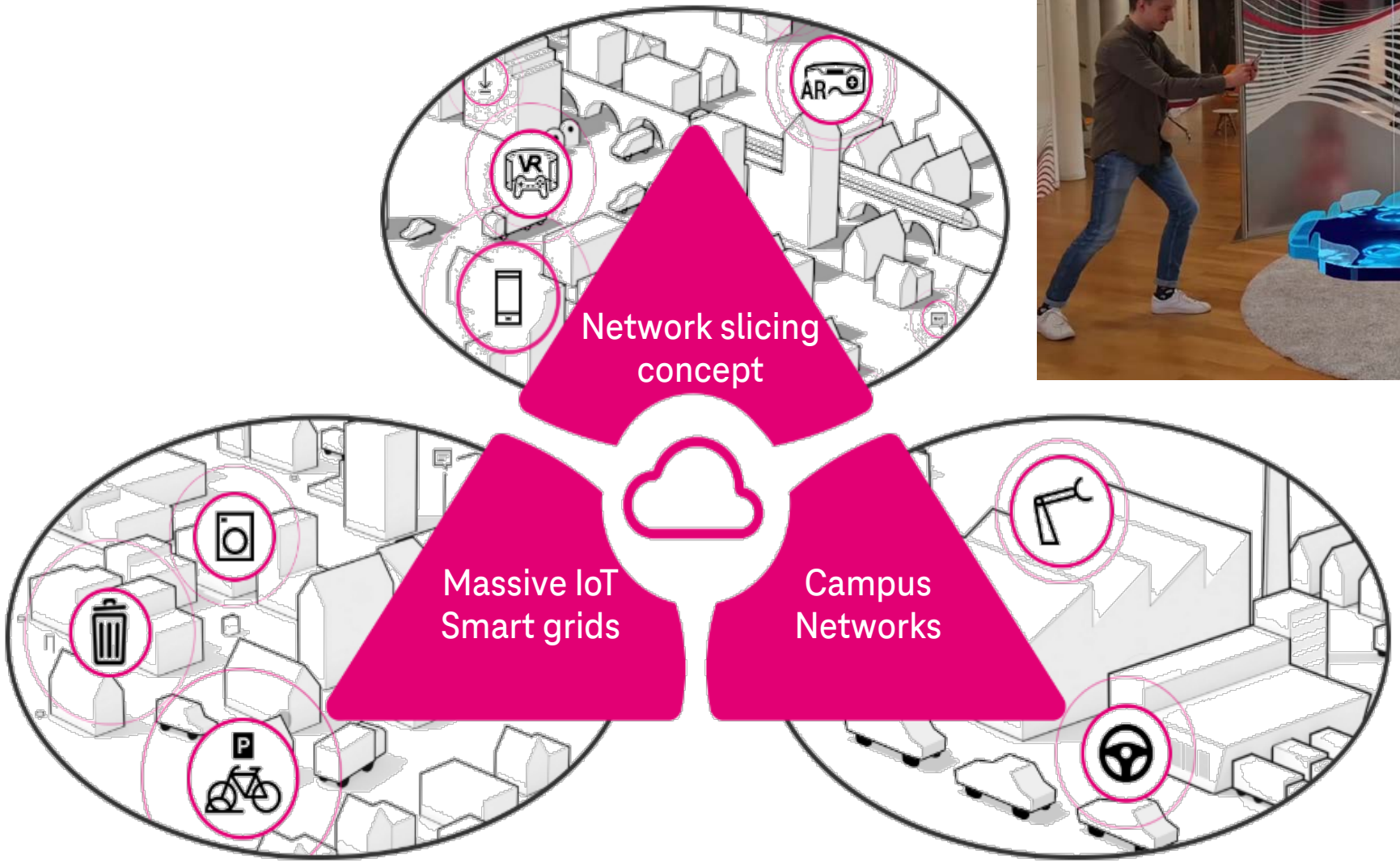
5G needs to be adopted as a further network enhancer

5G is all about perception even in countries where 5G has been launched - *high awareness*, but *low understanding* of the benefits

	… % of mobile users have heard about 5G & know it‘s a telco technology	< ..% would actually find a personal advantage on it – no/little experience
	74 %*	18 %*
	83 %*	25 %*

* UK & US survey, Gobal Web Index February 2020; Werbemonitor Deutschland

5G use cases

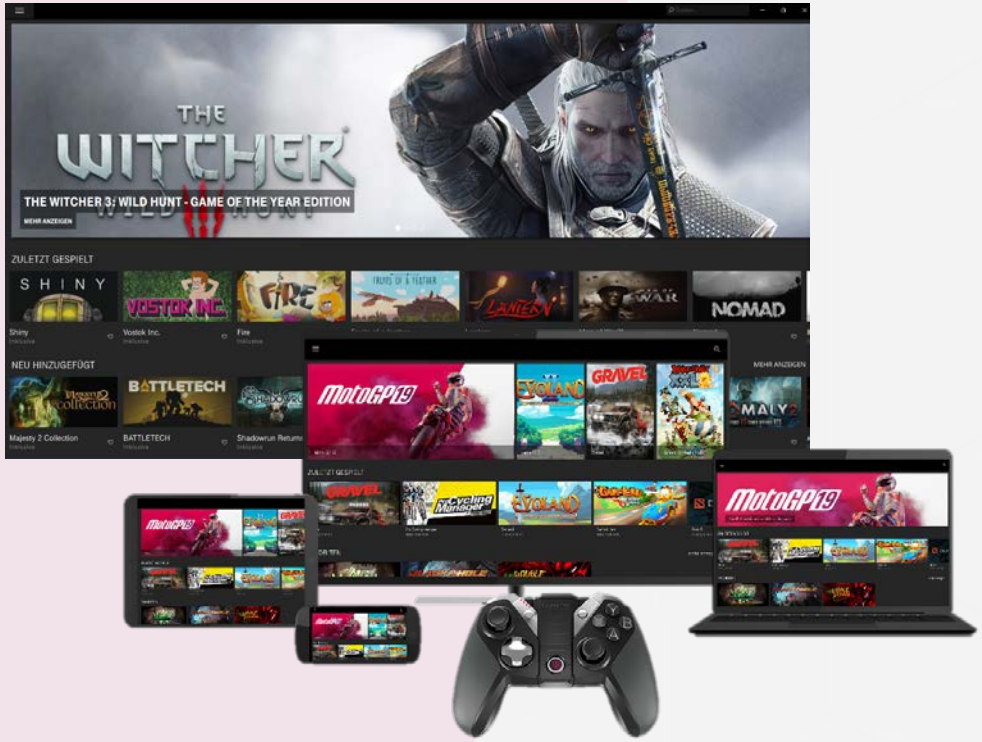

AR
VR
P
Network slicing concept
Massive IoT Smart grids
Campus Networks

flowzone

CLOUD GAMING

MAGENTA CLOUD GAMING PLATFORM...

LAUNCH ED



*Current Beta illustrations

*

5G CAMPUS

SEVERAL COOPERATION ALREADY ANNOUNCED, INCLUDING 4 INDUSTRY CUSTOMERS. MORE TO COME...

	Campus Network M	Campus Network L	Private Only
	ZF	BorgWarner, BMW, OSRAM, VŠB Technická univerzita Ostrava	
		available autumn 2020 Center Connected Industry - Testbed in Aachen TU Graz, Fakultet elektrotehnike i računarstva	
5G NR SA		*from 2021*	*Customer trials available autumn 2020*

What comes next?

E2E SLICING

QOS ON 5G E2E

5G INDOOR ENHANCEMENT

5G SA INTRODUCTION

5G CONNECTIVITY FOR ALL

5G CAMPUS SOLUTIONS

Open for questions

Contact
daniel.brower@telekom.de