



5G in the city

Eldar Fayzullin

Head of Smart City Lab
Moscow





5G: new products, new services, new quality of life

BETTER

Data Speed

Response Time

Network Capacity



Visual communication
for emergency services



City sensor
networks



Unmanned
transport



Industrial
robotics



Videoanalytics



Telehealthcare



AR/VR



Drones



Edtech



Neurointerfaces



Tactile internet



5G development in Moscow

Moscow Department of IT supports mobile operators in 5G development

First demonstration of technology
during World Cup 2018

4 continuously operating pilot areas launched in 2019:

- | | |
|--------------------------|------------------------------|
| 📍 Skolkovo
Technopark | 📍 Luzhniki Sports
Complex |
| 📍 Tverskaya street | 📍 VDNH Expo |

Pilot areas:

- Developing scenarios of interaction between the 5G and earlier-generation networks
- Studying opportunities and functionality
- Joint demonstrations with tech companies: driverless vehicles, tactile internet, etc.





5G development in Moscow

5G demo center

for testing promising technologies
and city services will be accessible for
both Russian and foreign companies

Goals:

- Facilitating access to 5G technologies for entrepreneurs
- Creating a local center of excellence
- Helping companies to find and retain specialists



Simplifying processes for operators

Simplifying processes for operators



Today:

- Obtaining permitting documents for cell tower installation
- 9 to 12 months

Tomorrow:

- Submitting applications online via mos.ru
- Permits issued 3 times faster



Cell communication esthetics concept

Developing esthetic criteria

for the cell communication equipment
in order to preserve the historical look
of the city

- Requirements for equipment size and installation places
- Disguising antennas
- Concealed cables and aerial lines





smartcity@mos.ru

 <https://twitter.com/smartcitymoscow>

