



# What does a successful smart city business model look like?

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#### QUALITY OF LIFE

better environment for citizens and businesses



#### **EFFICIENT GOVERNMENT**

data-driven decisions and strategy



#### SOLID INFRASTRUCTURE

high capacity to meet the needs of people and machines







# 2,000+

Public institutions





2011

creation of a crossfunctional structure in charge of technology development and procurements for the whole city

#### BENEFITS

— Economy of scale



- Better planning
- Interoperability







E-readiness





#### Electronic document flow 06

- Faster documents approval and coordination
- Faster decision-making
- Reducing labor costs
- Ensuring safety of stored documents

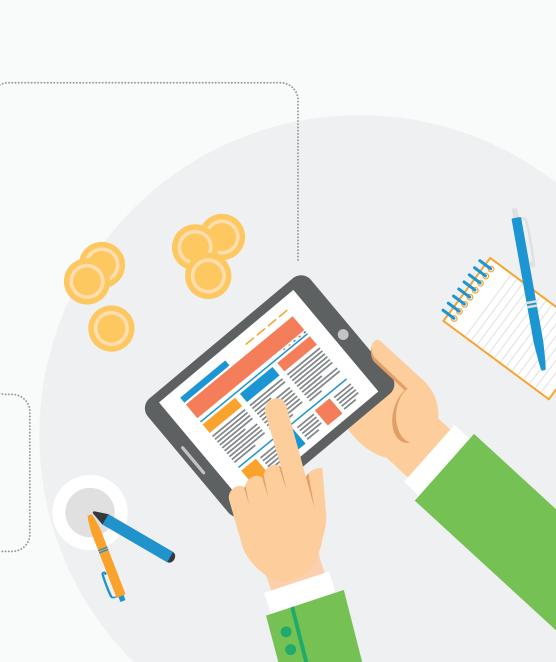
2 ths + ∘



connected institutions



documents per year

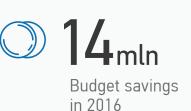




#### 07 Finances. Cloud accounting

Unified accounting system

- One-click reporting
- ---- Real time billing and reporting
- Big data analysis
- Transparent for supervising authorities





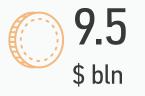
Establishments connected by system



#### 08 **Finances. Government procurements**

Goverment procurement system:

- Equal access of suppliers to cities procurements
- Transparency of cities procurements
- Budget savings driven by auctions
- Anticorruption barriers system



Total sum of procurements made in 2016



Saved through tender procedures

**176 000** Suppliers registered on the procurements portal

**61 000** Tenders conducted in 2016



#### 09 Housing and public utilities. Resources efficiency

Smart metering system in 3,500 buildings of governmental institution

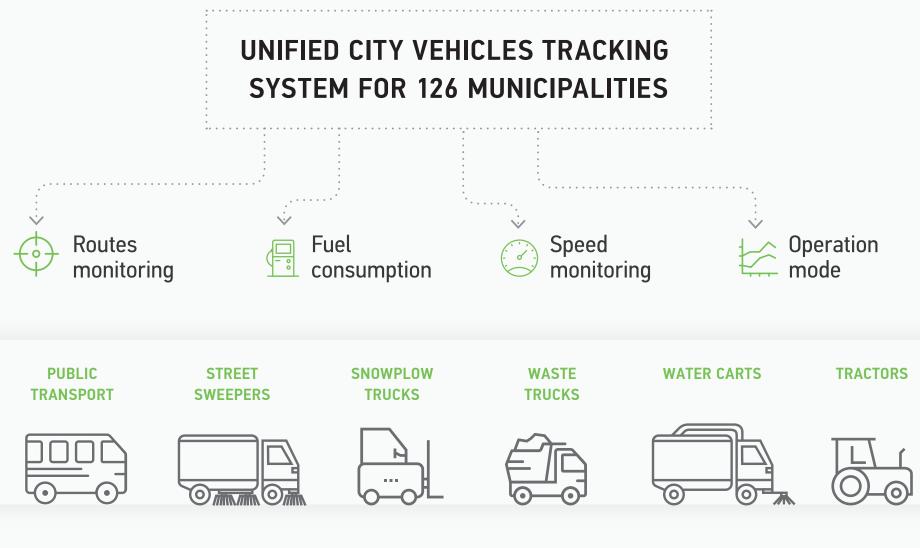
- Real-time resources accounting
- Water pressure
- Grid integrity control

Citywide smart metering and control system for 33,000 residential buildings

- Real time resources accounting
- Water pressure
- Grid integrity control





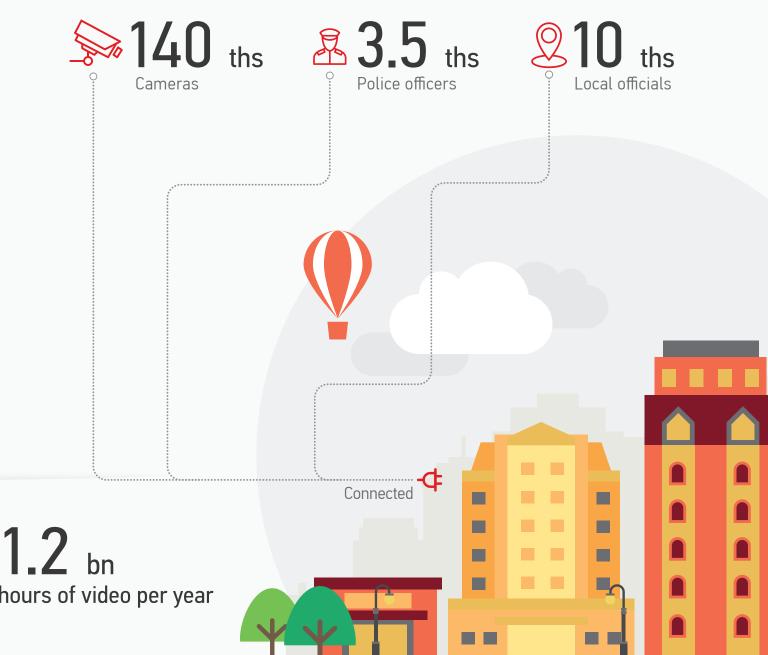


32,000 vehicles Centralized city-wide VSAAS:

- 70 % of police investigations held using CCTV
- 45,000 traffic fines issued automatically every day
- 24/7 control over city services and infrastructure

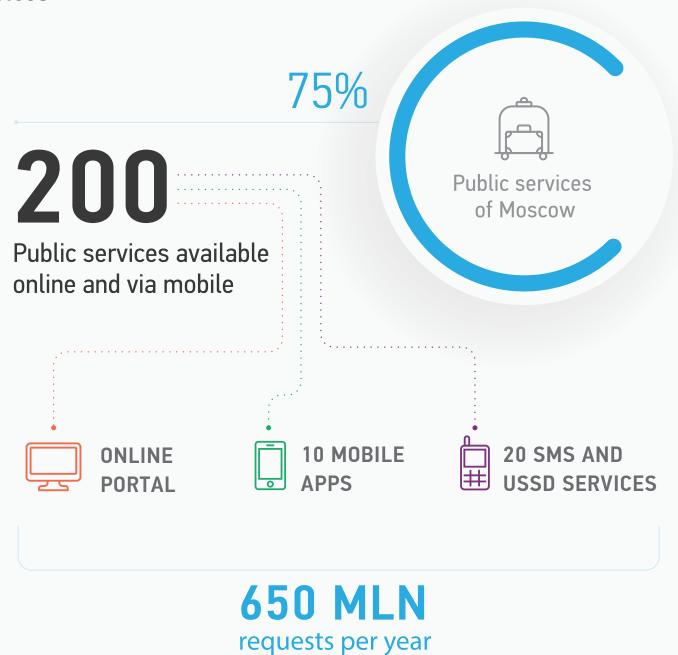
15 petabytes archive

hours of video per year



### **Public services**

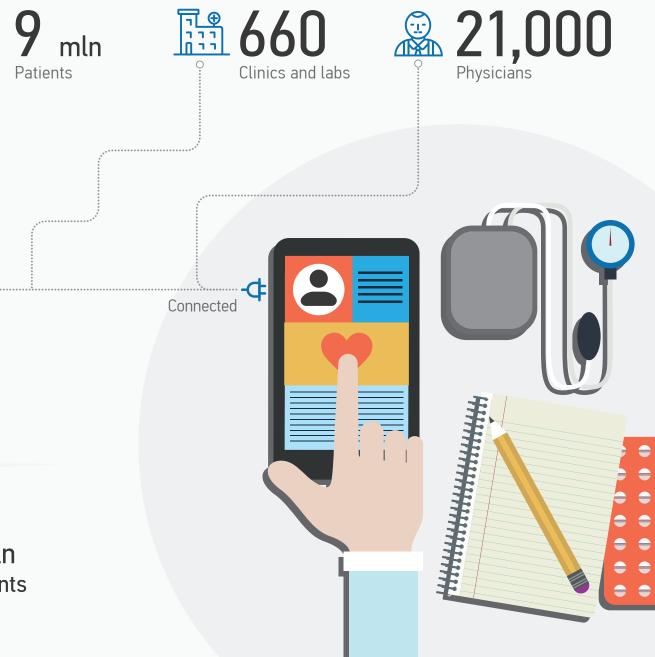






Unified resource management and health monitoring system

- patient flow control
- online appointments
- cloud-based EHRs
- e-prescriptions
- ---- cloud-based accounting

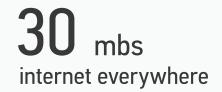


**25** mln e-prescriptins Per year

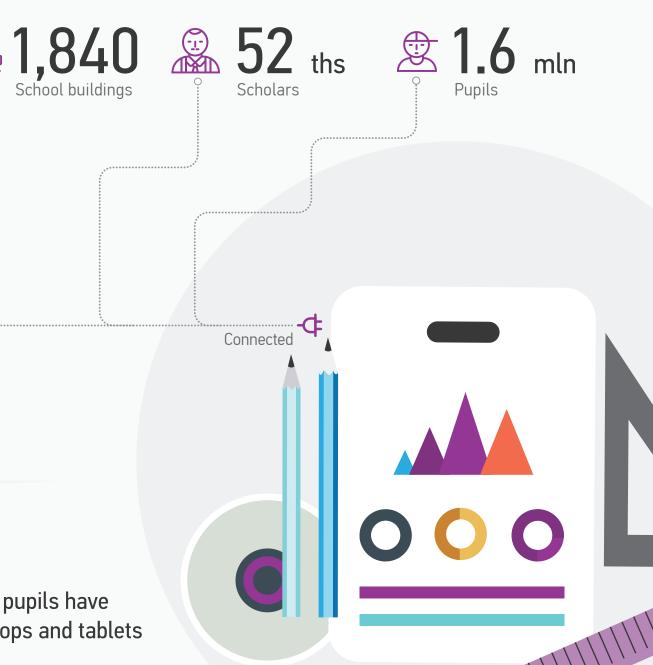
#### **187** mln e-appointments Per year

Digital environment for teachers, parents and pupils:

- online school diaries
- online assignments
- customizable modular presentations for tutorial sessions
- parental notifications and alerts



100 % teachers and pupils have personal laptops and tablets







Accident details • from help line



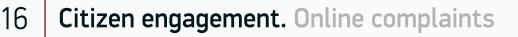
Video from city • CCTV



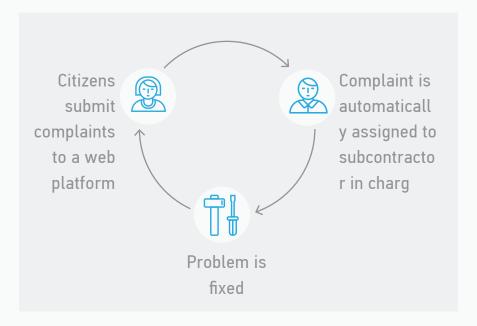
Unified management system and personal tablets for each of 750 crews **≟ 20%** faster arrival







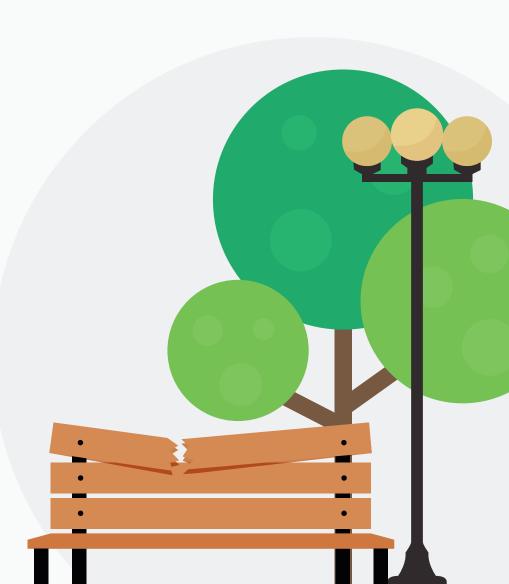
Public control over the quality of city infrastructure



1.6 mln problems fixed







#### Citizen engagement. E-votings 17

City-wide e-voting app:

- Weekly votings regarding city development issues
- Votings can be targeted to specific districts and streets
- All decisions should be implemented by government

Voted against:



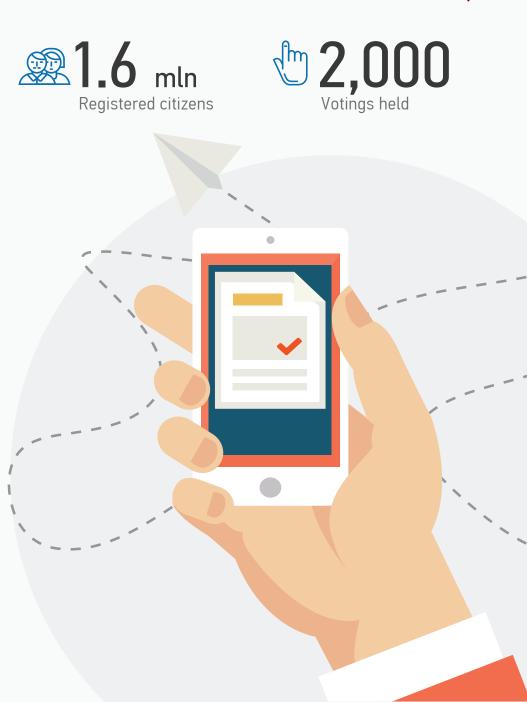
Additional speed limit in city center

Stricter rules for urban works in the nighttime

Voted for:



Limitation of sales of alcohol energy drinks





## Always there for you!











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