Smart cities and skills
A view from Russian cities

Marina Lipetskaya,
Center for Strategic research North-West Director

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Smart City in Russia: current situation

- Very first stage of development – vision creation, and local initiatives, but with lack of common targets or initiatives

- But it's very popular: dozens of projects has appeared in several cities, municipals try to design a Smart City

- Most of strategies describes Smart City as a "very good place" (comfortable, modern, lean), but we do not have a solid and complex tech-paradigm-city plan (strategy)

- Compared with Europe, we still have a policy lag, regarding clusters, testbeds, business player ecosystem

Smart City in Russia: some cases

• Existing solutions developed through Smart City projects in Russia mainly deal with physical infrastructure, mobility and utilities technologies, while social and institutional factors are yet to be considered.

• Moscow Smart City Program aimed at large-scale use of information and communication technologies, improving efficiency and transparency of the city administration, developing municipal advertising and mass media in areas: health, education, facilities, safety

• Kazan Smart City - is a groundbreaking urban development project designed to spur investment into high technology, medicine, education, and tourism. Usage of integrated intelligent solutions by Cisco

• Nijniy Tagil Smart and safety City Plan - integration of electronic information signs, light poles and intelligent road markings based on Schwabe holding solutions

We consider Smart city as an open cyber physical system with many new types of digital services, as well as new users - Smart Citizens
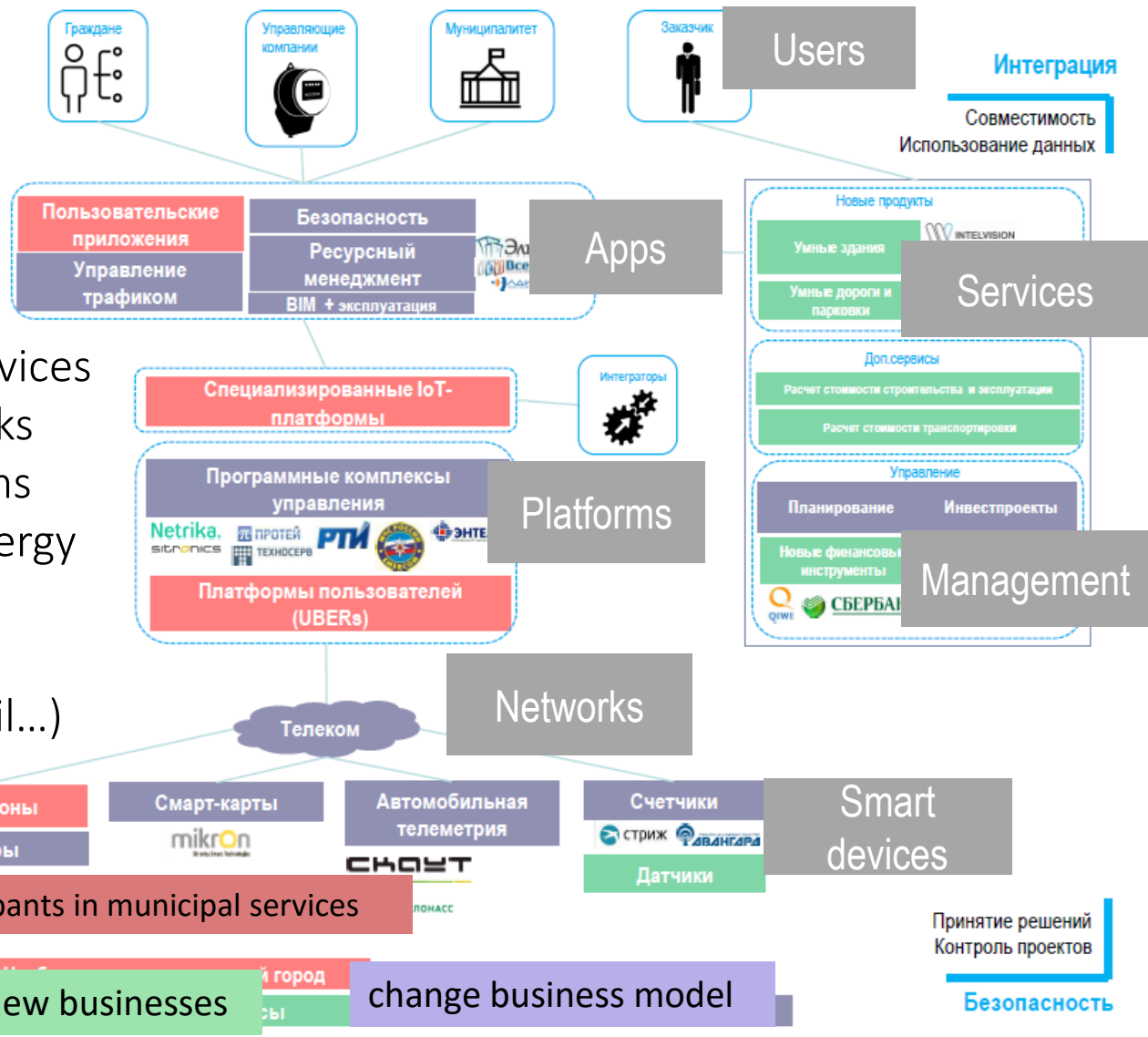
KEY Factors
a. Cheap equipment and devices
b. Fast transmission networks
c. Open data digital platforms
d. Hybrid businesses (IT-Energy etc)
e. Smart consumers
f. "Connected" sectors (retail...)

Users

Apps

Services

Platforms

Management

Networks

Smart devices

New participants in municipal services

new businesses

change business model

Финансирование
Привлечение негосударственных средств

Интеграция
Совместимость
Использование данных

Граждане
Управляющие компании
Муниципалитет
Заказчик

Пользовательские приложения
Управление трафиком
Безопасность
Ресурсный менеджмент
BIM + эксплуатация

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Умные дороги и парковки
INTELVISION

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Планирование
Инвестпроекты
Новые финансовые инструменты
QIWI
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Специализированные IoT-платформы
Интеграторы

Программные комплексы управления
Netrika.
sitronics
ПРОТЕЙ
ТЕХНОСЕРВ
РТИ
ЭНТЕ

Платформы пользователей (UBERs)

Телеком

Правила по сбору и предоставлению данных
Регулирование ресурсных рынков

КАМАЗ
Смартфоны
Камеры

Смарт-карты
mikron

Автомобильная телеметрия
СКАУТ

Счетчики
стриж
АВАНГАРД
Датчики

Нормы и стандарты

Принятие решений
Контроль проектов

Безопасность

Smart City in Russia: the next stage crossroads

- Top-down: large governmental projects in different areas, like program Safety City («Bezopasniy Gorod») - digital platform, which provides protection of critical infrastructure of cities and people's safety – first in monopolies
- Bottom-up: business and communities of practice, that change the landscapes and culture: city platforms, commons, apps… - first in unregulated markets

Existing players

| Science and tech providers |
| Apps providers |
| Platform owners |
| Networks |
| Chips, modules |

KEY questions

- Smart city criteria
- Models of investments, public-private funds
- Data regulation rules
- Technology scaling, testbeds
- Cybersecurity
- Standards
- Citizens access to services
- Business ecosystem

No roles

Intell.properties	Billing	Regulatory
Standard dev-r	Legislative
End users	Service broker
Equipment	Assurance	Content mangt

THANK YOU FOR YOUR ATTENTION

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CSR «North-West» is an independent non-governmental institute, one of the leading Think Tank center of the Russian Federation.

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Marina Lipetskaya

lipetskaya@csr-nw.ru

Russia, 199106, St. Petersburg, Building 2, Litt. A,15
26th Line, Vasilyevsky Island
Tel./ Fax 007 (812) 380 03 20, 007 (812) 380 03 21
E-MAIL: MAIL@CSR-NW.RU,
WWW.CSR-NW.RU