Government of St. Petersburg
Committee on IT and Communications

«Smart Saint-Petersburg»

on its way to brighten the future

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City overview

Saint-Petersburg is Russia's second-largest city after Moscow. The Historic Centre of Saint Petersburg and Related Groups of Monuments constitute the UNESCO World Heritage Site. Saint-Petersburg is home to the Hermitage, one of the largest art museums in the world. A great number of foreign Consulates, international corporations, banks and businesses have their offices in Saint-Petersburg.

5,2 mil
Population

1439 km²
City area

18 district
Internal division

8
Railway stations and bus depots

1
Sea port

Up to 86 м
Average depth

20
Chemically dangerous objects

Major international cultural, economic and sports events

FIFA WORLD CUP RUSSIA 2018

Smart Saint-Petersburg

Smart St-Petersburg concept integrates ICT and various physical devices connected to the network (IoT) to optimize the efficiency of city operations and services and connect them to citizens. ICT is used to enhance quality, performance and interactivity of urban services, to reduce costs and resource consumption and to increase contact between citizens and government.

Smart economy

Smart energy

Smart environment

Smart mobility

Smart people

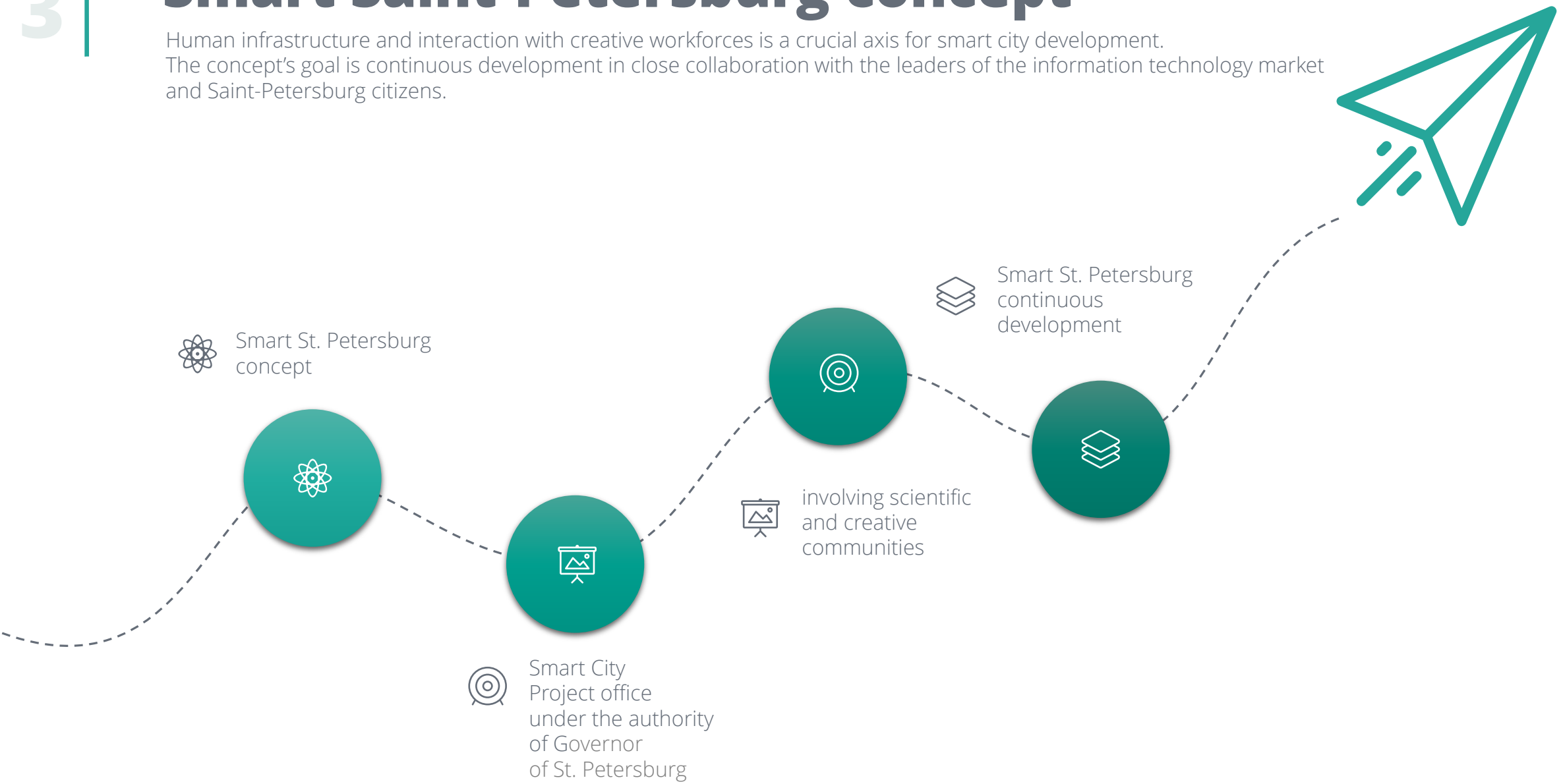
Smart governance

Smart living

> Smart St. Petersburg technology frameworks allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving. Therefore, Smart St. Petersburg is more prepared to respond to challenges than cities with a simple “transactional” relationship with its citizens.

Smart Saint-Petersburg concept

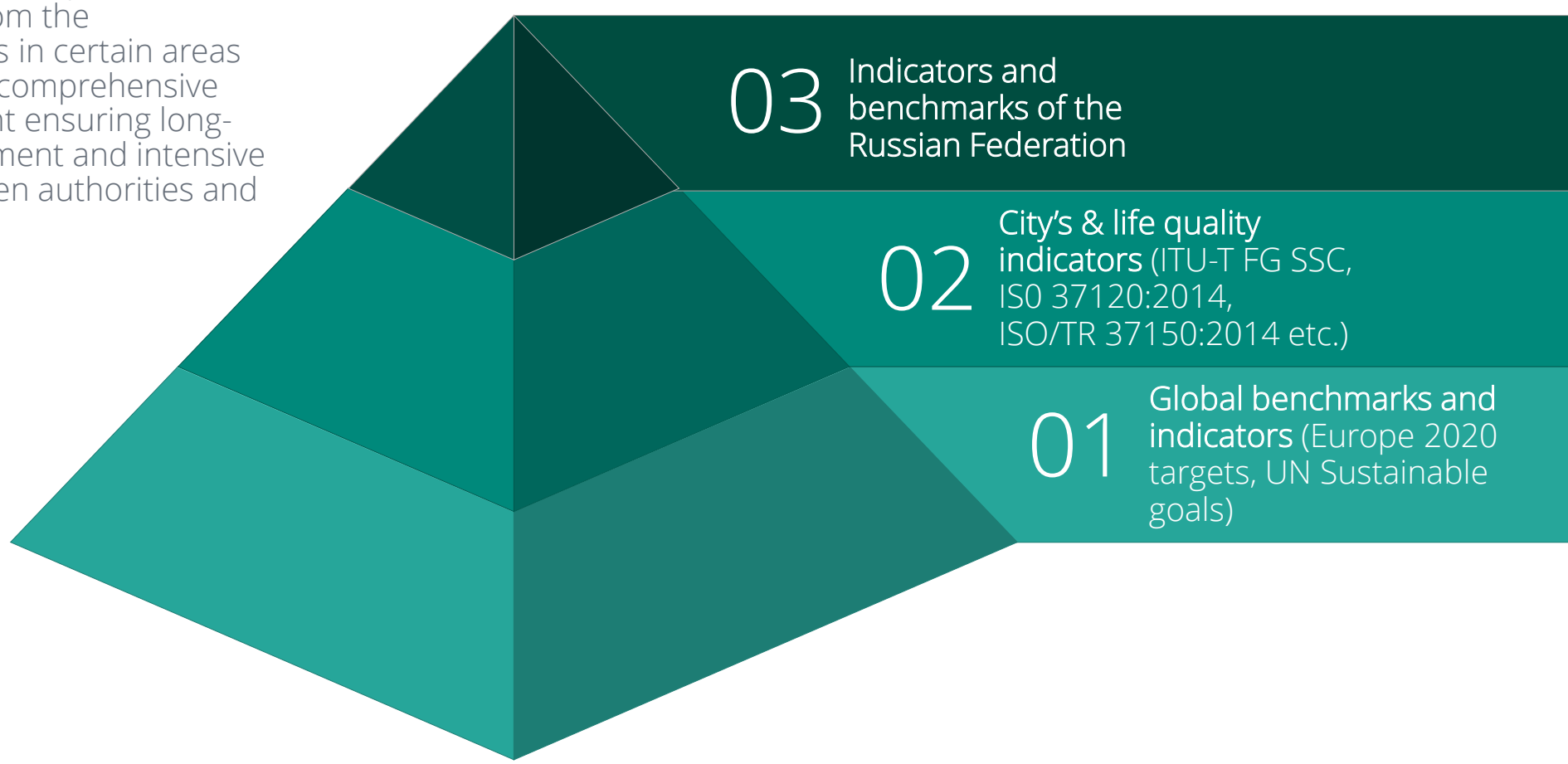
Human infrastructure and interaction with creative workforces is a crucial axis for smart city development.
The concept's goal is continuous development in close collaboration with the leaders of the information technology market and Saint-Petersburg citizens.



Smart Saint-Petersburg basis

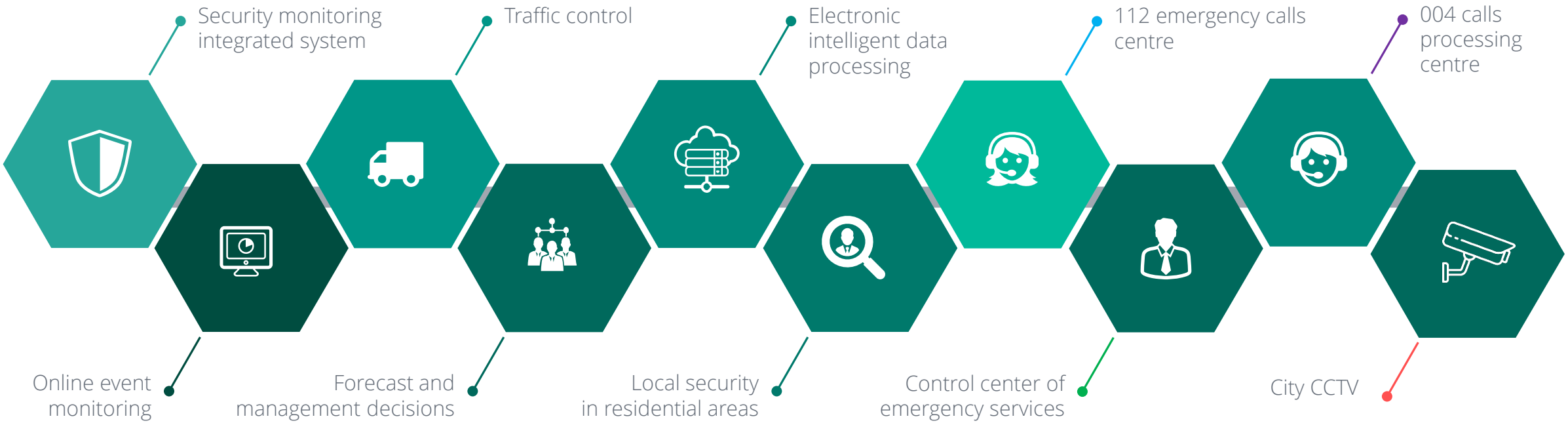
Strategy of Smart City integrates the synergetic effect of using both international standards and Russian regulatory documents

Based on a wide range of regulatory documents, the strategy allows to move from the introduction of smart solutions in certain areas of the city's development to a comprehensive policy of the city's development ensuring long-term sustainability of development and intensive information interaction between authorities and citizens.



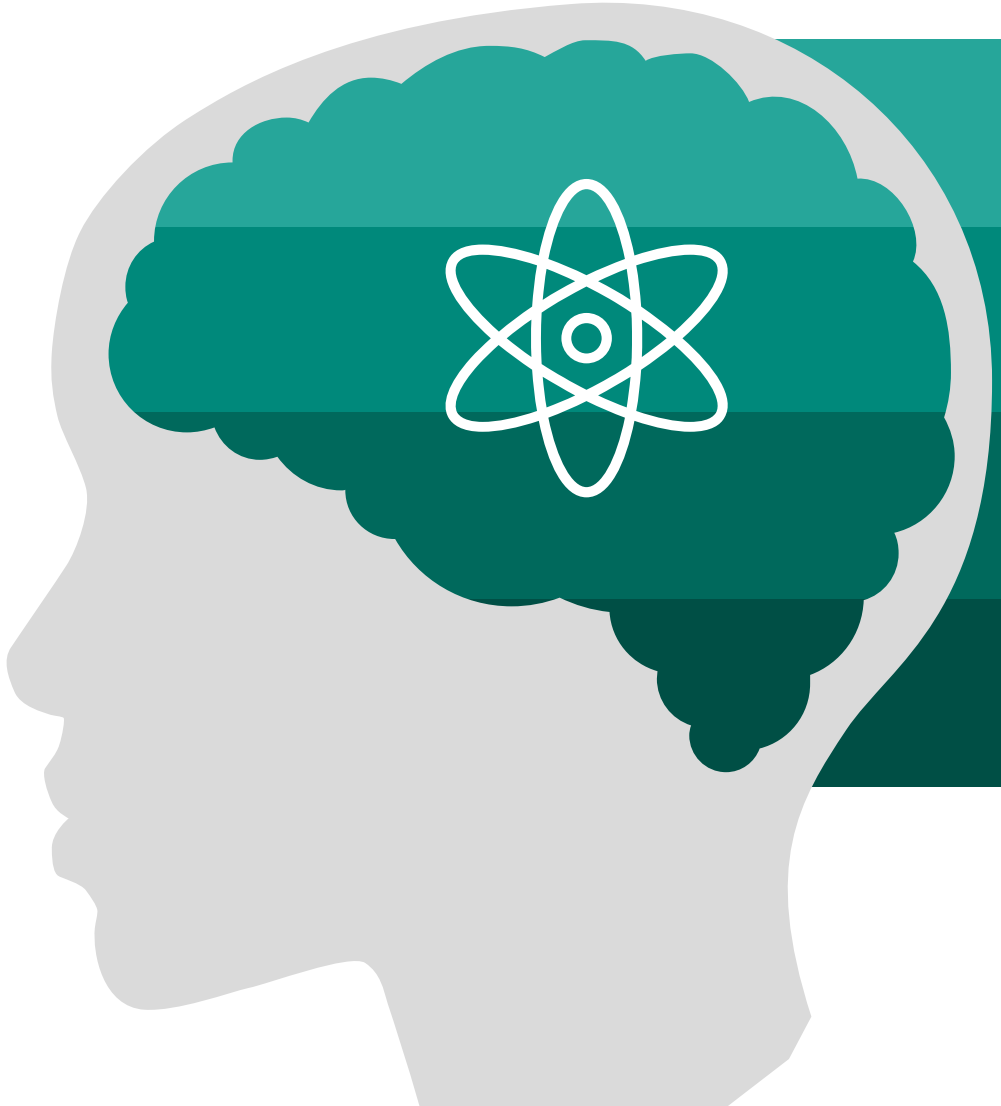
Smart Saint-Petersburg security layer

In the concept of a smart city, a separate place is given to ensuring the security of citizens and the integration of hardware and software to create a safe environment for the life of citizens



Smart Saint-Petersburg: Education

Smart Saint-Petersburg provides IT management of education, providing public services and functions in electronic form. Parents are able to see the child's marks and their achievements, in-school timing, nutrition. E-services, for example, application form for school or kindergarden, are highly popular. Teachers and managers can keep records of students in a single system and can manage class journals in electronic form, etc.



01 **Wide coverage**
More than 300000 users making over 1,5 mln requests per year

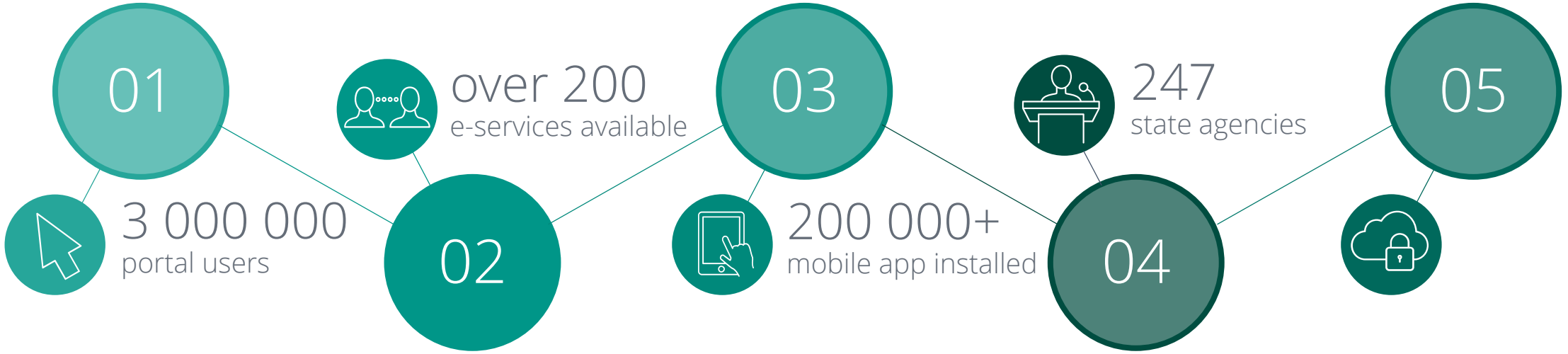
02 **Simplicity**
Over 130000 registrations for kindergardens and 80000 applications for primary school every year

03 **Security**
Secured IT infrastructure and parents' informing about child's in-school time

04 **Profit**
School e-cards allow to control child's nutrition and ban non-healthy meals

Smart Saint-Petersburg: E-services

The main part of everyday needs in public services is met remotely through the portal of public and municipal services of Saint-Petersburg



Portal of public services of St. Petersburg **gu.spb.ru** and mobile applications "Public services in St. Petersburg" for Android and iOS

More than 200 e-services available via mobile or wired network from any location

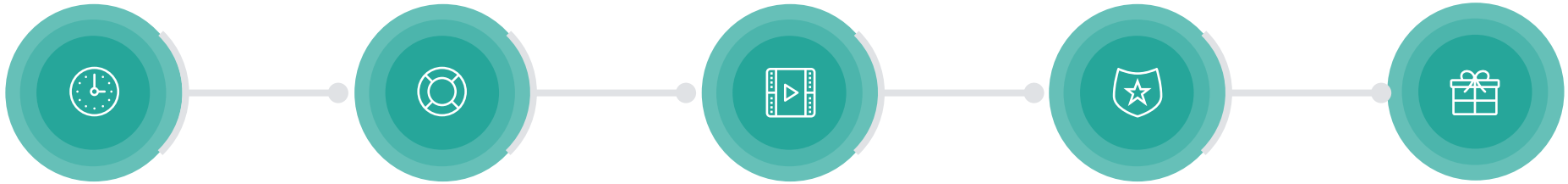
Mobile application allows to receive public services as well as to track and pay fines

Interdepartmental document workflow unites almost all the authorities of St. Petersburg

E-services are located in the regional distributed data center and reliably protected by hardware and software

Smart Saint-Petersburg: E-accomplishment

On-line monitoring for street cleaners: making environment healthy, doing job more accurately



Worktime monitoring: do street cleaners complete their checklist daily?

Personal tracking using mobile network through originally developed devices using SIM-cards

Collecting statistics for reallocating street cleaners to other areas

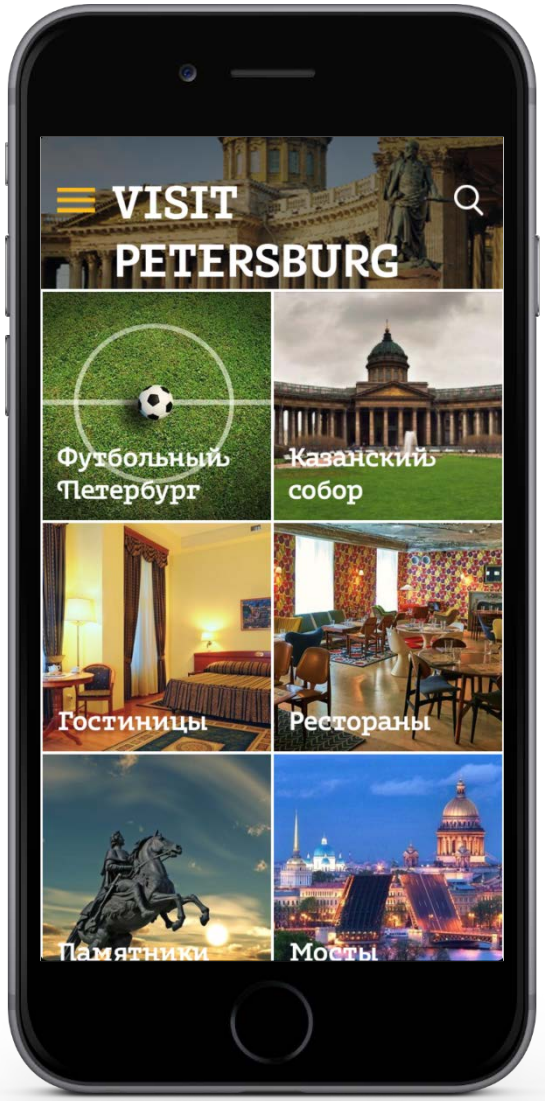
Tracking data is protected and cannot be used for fraud or illegal actions

Promotion depends on merit: new motivation schemes for low-level staff

> E-tracking of works to improve territories allows to keep clean not only our historical center, but all the districts of St. Petersburg, making it more attractive for tourists, etc etc.

Smart Saint-Petersburg: E-tourism

Touristic capital of Russia can be found out in so many different ways and the most convenient one is the electronic one .



Visit Petersburg: the most suitable way to get to know Petersburg better

Goals: promotion of St. Petersburg in both domestic and international markets, including business tourism, information support of tourism in St. Petersburg, congress and exhibition opportunities of St. Petersburg, etc

01

System is designed to create a comfortable and safe environment for tourists in St. Petersburg.

02

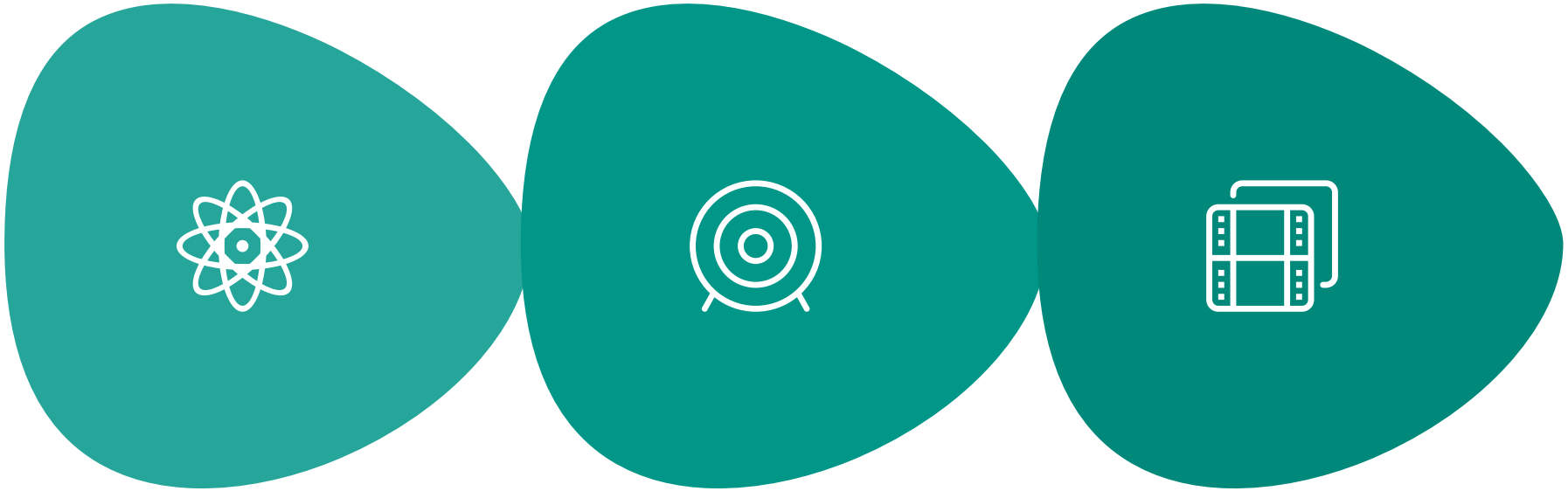
In the mobile application for residents and visitors of the city - all the information about the most significant sights, events (exhibitions, promotions, etc), city tours, audio guide.

03

In the augmented reality mode you can find out what is located behind the walls of the houses and how far the nearest sight is located.

Smart Saint-Petersburg: E-apartment house entrance

Urban planning methods that have formed the Russian cities made local areas one of the most important units of management and monitoring



Goal 1

Expansion of the urban monitoring system

Prevention and suppression of offenses

Remote control and management of urban infrastructure

Goal 2

Control of the territory cleaning and the removal of garbage

Assessment of the quality and timeliness of the provision of housing services

Identifying cases of vandalism

Modernization of the district infrastructure

Development of channels to interact with citizens

Goal 3

Receiving extra services (video call, apartment house entrance live video etc)

Increasing security of residence

Identification of damage to personal property

Personal account for managing the service

The possibility of interaction with authorities on the quality of provision of housing and communal services

Smart Saint-Petersburg: International cooperation

Non-commercial Partnership European-Russian InnoPartnership (ERIP) was founded in December 2007 with support of the City of St. Petersburg and the City of Lappeenranta (Finland)

01 Founded on 3 main elements “Innovations – Education – Best practices” implemented through the cooperation between Universities, business sector representatives and executive public authorities

02 Meeting point of European-Russian cooperation in innovation sphere

03 Partners’ base integrating reliable and elaborated contacts through joint international projects implementation

04 Powerful tool to provide high-quality services focusing on innovations interacting

What’s important

European-Russian InnoPartnership founded by ICT companies, higher educational institutions and public authorities of St. Petersburg, providing unique ability to make synergistic effect from interaction in all available fields.

Smart Saint-Petersburg: International cooperation

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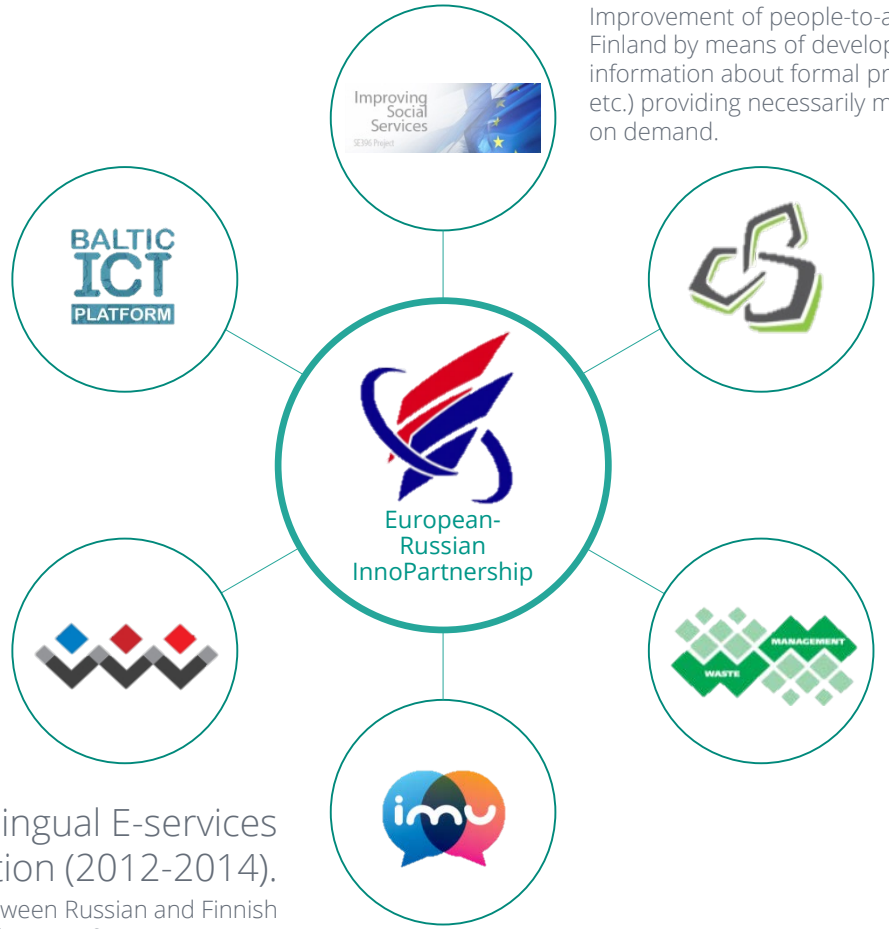
Improving Social Services (2012-2013).

Improvement of people-to-authorities cooperation for Finnish citizens in Russia and Russians in Finland by means of development of new Web-based platform which contains exhaustive information about formal procedures of opposite country (customs, visa obtainment, traffic laws, etc.) providing necessarily minimum of information presented in clear and understandable manner on demand.

Baltic ICT Platform (2012-2014).

Creation of a network of demonstration centers (DEMOCentres) where advanced e-innovations for business sector are presented, including public e-services provided in Estonia, Latvia, Russia.

Launch of the modern innovative platform – St.Petersburg Democenter – enhanced the efficiency of e-services delivery in the public sector, as well as provided a base to form public and social services for foreign citizens and organizations.



Innovation and Business Cooperation (2011-2014)

Enhancement of the cooperation between the cross-border Finnish and Russian regions in the field of business and innovation cooperation by utilizing the existing experience of previous years and introduce the new tools and services based on the modern approaches in EU-Russia cooperation.

Cross-Border E-archive (2012-2014).

Development of a universal and fully-accessible web-portal Cross-Border E-archive (www.earchive-estlatrus.eu) that provides access to archival Estonian, Latvian and Russian collections unifying more than 500 000 digitalized documents, including students` files, church books, historical maps and personal files. Organization of 2 international conferences on e-cooperation in the archival field, round-tables aimed at unification of the Russian and European metadata standards; edition of professional publications; carrying-out of trainings on the most advanced e-catalogization systems.

Waste Management (2012-2014).

Development and maintenance of a modern sustainable ecological system for waste management and recycling technologies of industrial and domestic waste by analyzing the best practices of the existing waste management systems in Russia and Finland and improving their efficiency through creation of the Waste Exchange e-portal as an effective information and practical tool for the target groups.

Integrated Multilingual E-services for Business Communication (2012-2014).

Improvement of the level of e-services in business communication between Russian and Finnish SMEs, trading networks, business travelers and other travel groups; facilitation of communication and improvement of customer services' quality in day-to-day and especially in emergency situations; facilitation of business matchmaking processes and youth mobility across the border.

Smart Saint-Petersburg: International cooperation

Speeding up Copernicus Innovation for the BSR Environment and Security (BalticSatApps) 2017 — 2020

Collaboration

The proposed multinational consortium unites 11 Project partners including the University of Turku (Finland) acting as a Lead Partner and 7 associated organizations from the Russian Federation, Norway, Sweden, Poland, Belgium and Finland.

Knowledge

St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences will provide expert support from the Russian side.

Aim

The Project aims at speeding up the innovation potential in the Earth Observation sphere by strengthening research capacity, innovation infrastructure development and support of the Copernicus Programme users.

Thank you!!!

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