CRISALIDE: searching for smart solutions in urban development beyond the political slogans.
A case of Rostov-on-Don, Southern Russia

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CRISALIDE: City Replicable & Integrated Smart Actions Leading Innovation to Develop Urban Economies

PROGRAM
A joint Russian-European competition of innovative projects under the ERA.NET-RUS PLUS program (project no.42016, application ERA-RUS-4188).

FUNDING
The Foundation for Assistance to Small Innovative Enterprises in Science and Technology, FASIE (Russia)

Executive Agency for Higher Education, Research, Development and Innovation Funding, UEFISCDI (Romania)

The Austrian Research Promotion Agency, FFG (Austria)
CRISALIDE:
City Replicable & Integrated Smart Actions Leading Innovation to Develop Urban Economies

- SOUTHERN URBAN PLANNING CENTRE LTD. (SUPC)
  Rostov-on-Don, Russia

- URBASOFIA
  Bucharest, Romania

- National Institute for Research and Development in Construction, Urbanism and Sustainable Development (NIRD UBANI-NCERC)
  Bucharest, Romania

- CORP – Consulting Research Projects DI Manfred Schrenk KG (CORP)
  Schwechat, Austria

- Eastern Macedonia And Thrace Institute of Technology (EMMATECH)
  Kavala, Greece

- SPIIRAS Hi Tech Research and Development Office Ltd. (SPIIRAS-HTR&DO)
  St. Petersburg, Russia

- Faculty of Management of the Southern Federal University (SFU).
  Rostov-on-Don, Russia

PAIRNERS

- SUPC
- SFU
- URBASOFIA
- NIRD UBANI-NCERC
- EMMATECH
- CORP
- SPIIRAS-HTR&DO
- SFU
SMART CITY for post-socialist countries?
A country in transition

Digitalization

Transformation of planning system
Digitalisation and communication that shrink space

Governance through space and time

9000 km West-East
3800 km North-South
11 time zones
85 regions
21,946 municipalities

High level of centralization
In 2010, the Government of the Russian Federation dated October 20, 2010 No. 1815-p approved the state program of the Russian Federation ‘INFORMATION SOCIETY (2011-2020)’

According to the United Nations E-government survey 2018, Russia is in a group of countries with Very High E-Government Development Index 2018 (Greater than 0.75)
E-services

GOVERNMENT PROCUREMENT
http://zakupki.gov.ru

PUBLIC CADASTRAL MAP
https://pkk5.rosreestr.ru/
New economy?

INFORMATION SOCIETY DEVELOPMENT STRATEGY IN THE RUSSIAN FEDERATION FOR 2017 - 2030, approved by the Decree of the President of the Russian Federation of May 9, 2017


PROGRAM ‘DIGITAL ECONOMY OF THE RUSSIAN FEDERATION’

approved by the Order of the Government of the Russian Federation No. 1632-r dated July 28, 2017

Putin is in love. With the digital economy
29.10.2017


Putin: Digitalization is one of the priorities of the Russian economic policy
26.06.2018

### Planning system evolution

<table>
<thead>
<tr>
<th>Central planning (no regulations)</th>
<th>USSR</th>
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<tbody>
<tr>
<td>No planning period</td>
<td>90’s-2004</td>
</tr>
<tr>
<td>New Urban Planning Code</td>
<td>2004</td>
</tr>
<tr>
<td>Transformation*</td>
<td>2004 →</td>
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</tbody>
</table>

According to survey ‘Statistical analysis of federal legislation’ (2017) by the Center for strategic research the average period of amendments to the Urban Planning Code is less than two months.
Housing construction
Expansive development
Digitalized but not smart

FEDERAL STATE INFORMATION SYSTEM OF SPATIAL PLANNING
Recent state initiatives

New National housing strategy until 2025

Introduction of qualitative characteristics of housing, such as apartments’ composition and ‘comfort urban environment’

Introduction of new approaches to planning preventing continuing urban sprawl (preferences to construction within brownfields in urban cores)
Recent state initiatives

National Project "Formation of a comfortable urban environment"

Grozny, Chechen Republic

Nikolo-Lenivets, Kaluga region

Gornyakskoye village, Udmurtia
Recent state initiatives

National project „Smart City"

The program was written for Putin: Russia will build 50 "smart" cities with Wi-Fi and drones 16.05.2017

Russia will join ASEAN plans to create a network of "smart" cities 14.11.2018


https://ria.ru/world/20181114/1532744559.html
HOUSING STRATEGY

Introduced a **compact city** concept and requirements to **urban environment** quality

COMFORTABLE URBAN ENVIRONMENT PROJECT

Oriented to the development of the **inner city territories** and set requirements to **diverse housing typology, functions and services**

SMART CITY PROJECT

Includes requirements to **urban environment quality, economic efficiency and services**
The Rostov-on-Don case
Criteria: administrative status and population

Population change in Rostov-on-Don in 2009-2018, thousand people
Criteria: diversified economy and scientific potential
Criteria: positive dynamics of the construction industry and limited territorial resources for extensive development
Criteria: internal territorial resources and experience in redevelopment
Criteria: participation in the key federal programs and projects and experience in the development of information systems in urban planning and management
CRISALIDE: bringing together technological, organisational and social innovation

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