BURGAS:
Building a smart, green and inclusive city.

Goals, Resources, Challenges on the road to a smart, resilient city

Vision for Smart Transformation of Burgas
Values on the Path to Transformation

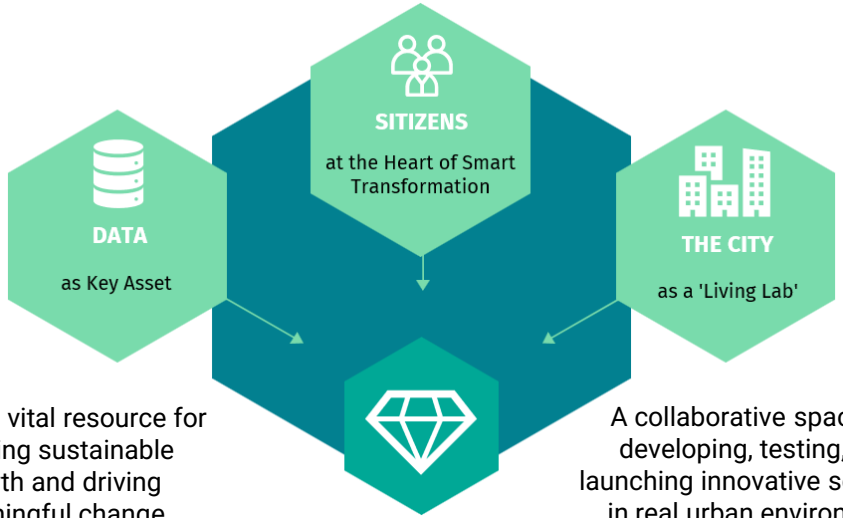
Vision:
Bringing the Future to the Present

By 2030, Burgas aims to build a sustainable innovation ecosystem based on research and technological transfer, with a strong social capital of human resources and partnerships for smart development in key sectors of the economy and public life.

Municipal policies create an intensive, supportive environment for innovation, enhancing opportunities for success and improving the quality of life for all residents.

Values:
A People-Centered Smart Transformation

Residents and businesses are the driving force and primary beneficiaries of the city's smart transformation



Data is a vital resource for ensuring sustainable growth and driving meaningful change

A collaborative space for developing, testing, and launching innovative solutions in real urban environment

БУРГАС: Версия 5.0

Burgas Municipality Smart Transformation Strategy

Creative Solutions and Collaboration

Transformation requires the involvement of all stakeholders – administration, businesses, academia, and citizens

Prioritizing City Development

Focusing on key areas that will drive sustainable growth in Burgas

Role of Technology

IoT, artificial intelligence, and big data are the backbone of smart growth

Flexible Development Approaches

Adopting new methods of collaboration and knowledge sharing is essential for success

Investing in the Future

Public and private investments build an innovation ecosystem that drives economic and social growth

Smart Burgas Integrated Urban Platform

smartburgas.eu

SCAN ME

Real-Time Data for Urban Awareness

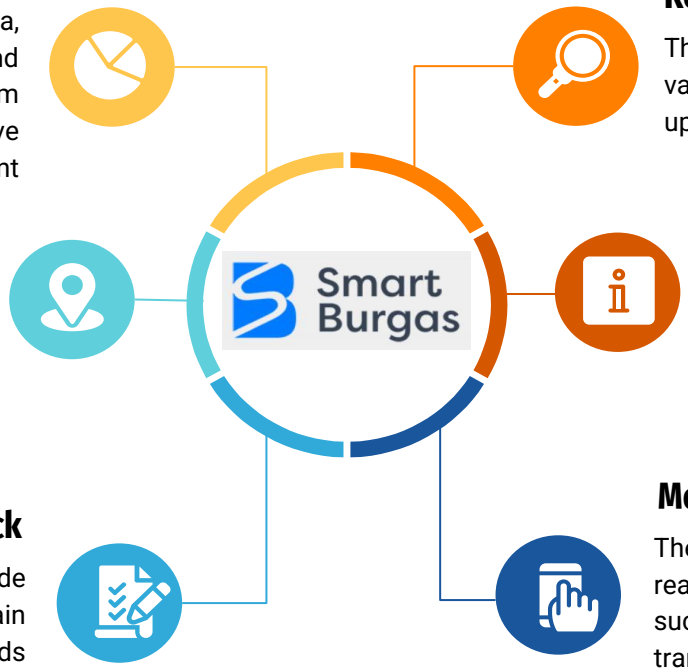
Smart Burgas provides real-time data, informing citizens about urban changes and making their daily life easier. The platform promotes transparency and encourages active participation in city management

Interactive Maps

The platform displays real-time data using interactive maps, making it easier for users to make informed decisions

Citizen Feedback

Residents can report issues and provide feedback directly, helping the city remain responsive to their needs



Real-Time Monitoring

The platform offers real-time monitoring of various city services and infrastructure for up-to-date insights

Data Integration

Smart Burgas integrates data from multiple sources for a comprehensive view of city management

Mobile Application

The mobile application offers convenient, real-time access to important information such as parking availability and public transport schedules, enhancing city navigation

PIRO 2021-2027: Burgas Development Plan

plan.smartburgas.eu

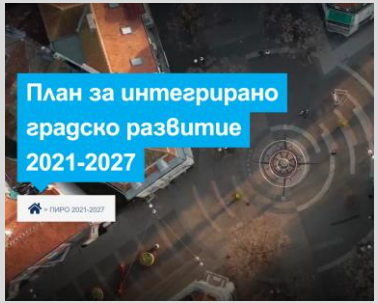
SCAN ME

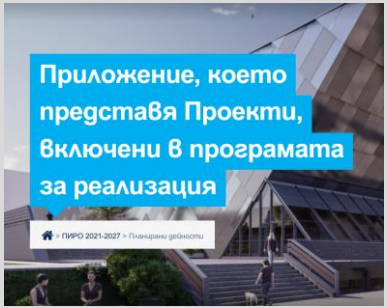
Access to Strategic Documents

The platform allows users to download key documents such as development plans, reports, and urban management strategies, outlining Burgas's vision for sustainable and innovative growth

Open Data for Citizens

The website provides public access to data on current and future projects, promoting transparency and encouraging citizen engagement in the urban development process



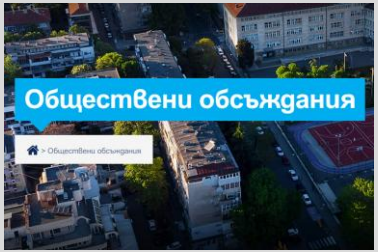


Interactive Maps

Users can explore projects and investments through interactive maps, displaying the location and status of various city initiatives. These maps simplify the visualization of urban planning and make it easier for citizens to understand ongoing developments in the city

Transparency

The platform promotes citizen engagement and transparency by sharing detailed information about planned investments and projects. This allows citizens to stay informed and actively participate in city management

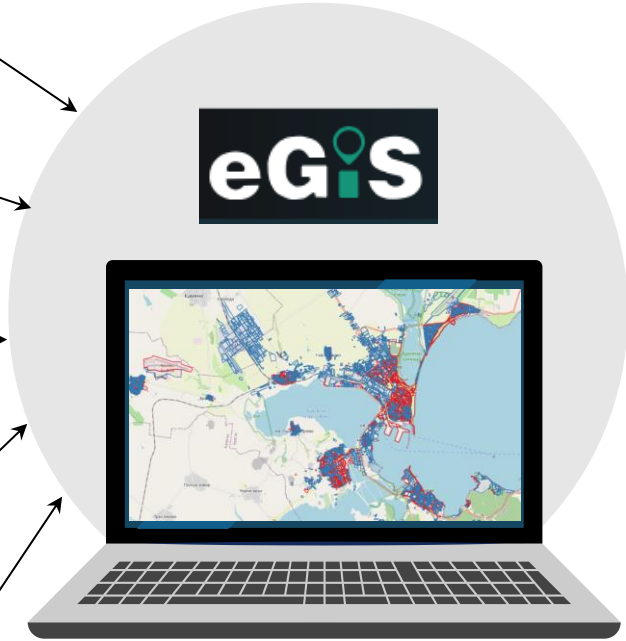


eGIS Burgas

egis.smartburgas.eu

SCAN ME

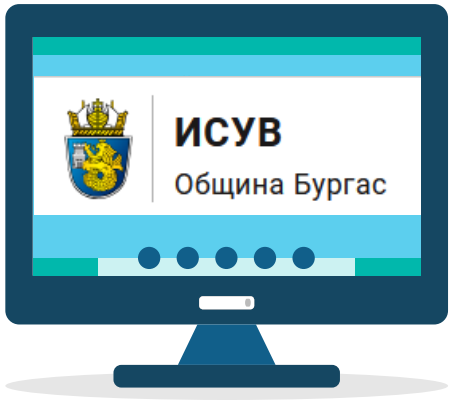
eGIS Burgas allows users to visualize geographic data on interactive maps, tailored to meet different needs	**Interactive Mapping Tools**
The platform provides open access to geospatial data related to infrastructure, land use, and urban planning, supporting informed decision-making	**Public Access to Data**
eGIS facilitates the exchange of geographic data between various municipal departments, improving coordination and operational efficiency	**Cross-Department Data Sharing**
The platform offers a powerful search tool, enabling users to find specific locations or map objects using keywords or defined parameters	**Advanced Search Features**
Users can download and analyze data for planning, promoting transparency and community engagement	**Open Data for Analysis**



Integrated Risk Management System

isuv.smartburgas.eu

SCAN ME



Early Warning Alerts

The system sends early warnings about potential risks based on data analysis, helping to prevent incidents

Risk Monitoring

The platform provides real-time data on various types of risks, including floods, fires, and other hazards

Public Access to Risk Data

Citizens can access up-to-date information about risks and incidents happening in the city

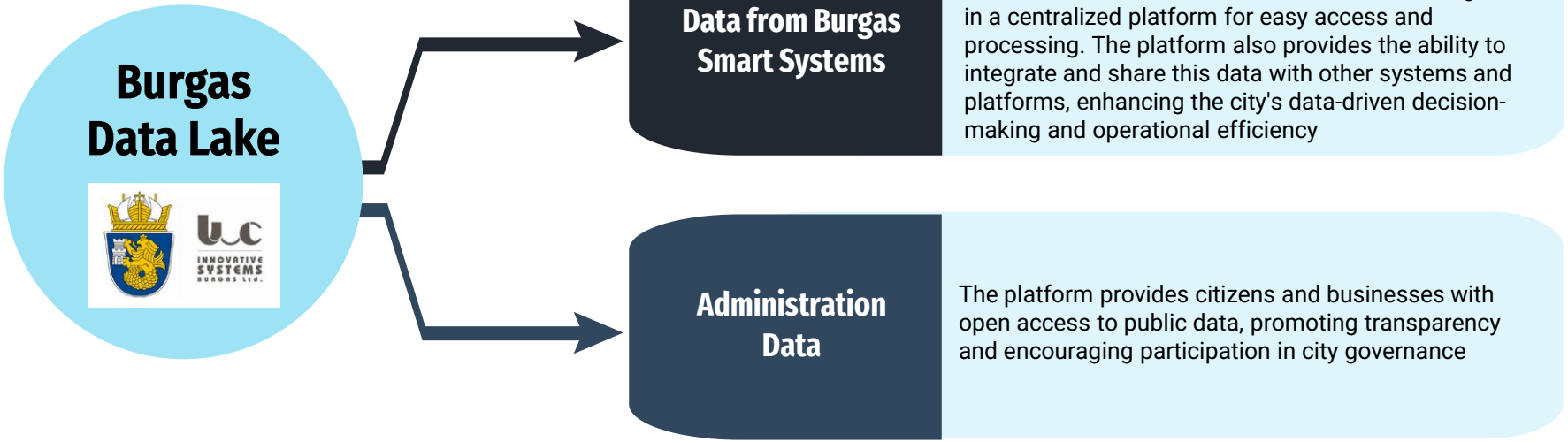
Data Visualization

The platform visualizes risk data through interactive graphs, making it easy to understand and analyze

Open Data Access Bank of Burgas Municipality

burgasdatalake.smartburgas.eu

SCAN ME



Burgas Municipality Green System

greensystem.smartburgas.eu

SCAN ME

Geospatial Data for Green Spaces

The platform provides information on the location and status of green areas, visualized through interactive maps for easy access

Open Access for Citizens

Residents can access up-to-date information about green spaces and report maintenance issues or concerns

Public Amenities

The platform offers data on parks, playgrounds, sports facilities, and other public green spaces throughout the city

Sustainable Development Data Analysis

The platform supports urban planning by providing data that helps ensure the sustainable management and growth of green spaces

Burgas Municipality Official Website

www.burgas.bg

SCAN ME

Administrative E-Services

The site offers online submission of documents and applications, streamlining interactions with local authorities

Public Registers

Citizens can access building permits, property records, and other key data needed for city management

Access to Open Data

The website offers public access to data sets on transportation, environment, infrastructure, and more

Transparency and Accountability

The platform publishes reports and budget data for public review, enhancing transparency

Accessibility for People with Disabilities

The website is designed to be accessible for individuals with disabilities, offering features such as large font sizes, high-contrast colors, and compatibility with assistive technologies. A dedicated section on the site provides information about the administrative services offered by Burgas Municipality to support people with disabilities.

Burgas Municipality Social Media Channels

Facebook

The official “Burgas Municipality” page has over 43,000 followers, sharing news and encouraging engagement

Viber Chatbot SMARTY

Provides access to e-services, payments, event tickets, parking info, and news. Users can also report issues and offer feedback directly via the chatbot

Viber channel

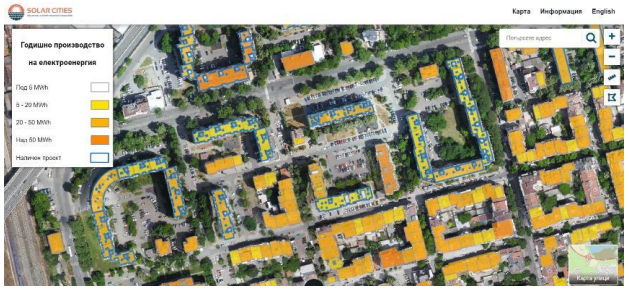
With nearly 12,000 members, it shares real-time updates and important announcements

Instagram

Highlights city projects, events, and initiatives

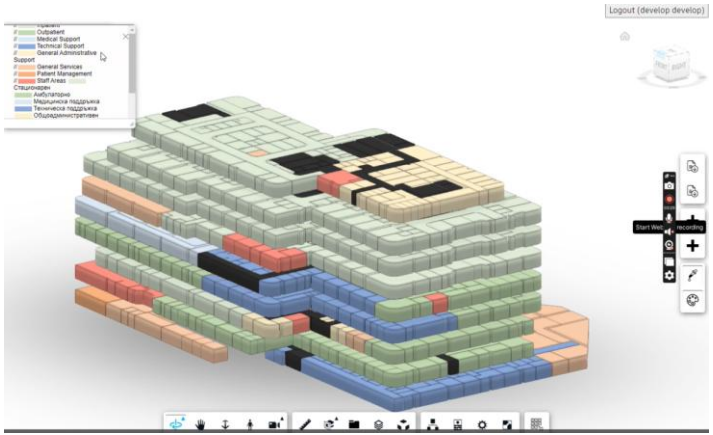
Use case 1
Renewables (PV) potential and performance analysis

- Gathering data on the energy potential at the city level;
- Identify and locate the PV systems installed in the city;
- Monitor current PV energy production performance and model the city's PV adoption curve through time;
- Evaluate PV energy production potential;
- Evaluate different scenarios and arrangements (including vertical) and how to achieve the goals of the city for 2030.



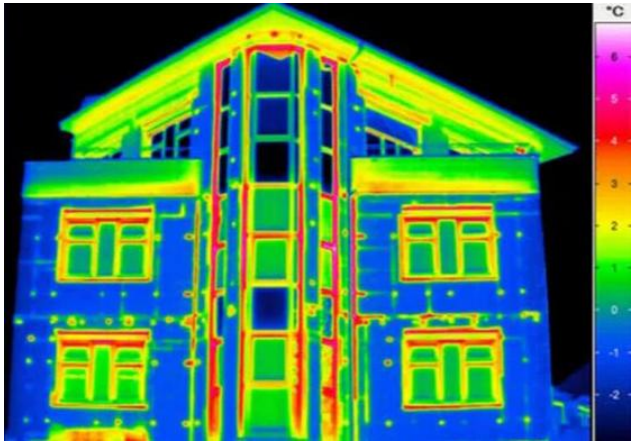
Use case 2 - Buildings Energy Performance Analysis and Evaluation

- Gathering data on energy consumption and production at building level, using pilot IoT and smart meters technologies in the kindergarten Sarafovo pilot building;
- Buildings performance indicators in real time and in predictive mode;
- Using Some AI-based tools to provide guidance on better energy-efficient solutions and inform about consumption and production patterns.



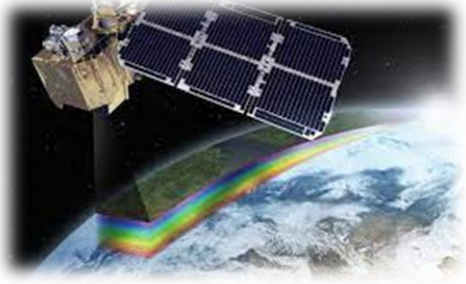
Use case 3 - Budget Planning for Energy Usage and Buildings Renovation

- Gathering data on building Energy Usage by aerial radiometric thermal mapping and thermal inspection;
- Identify both hot and cold spots which can indicate heat loss, air ingress or water ingress into the building shell.



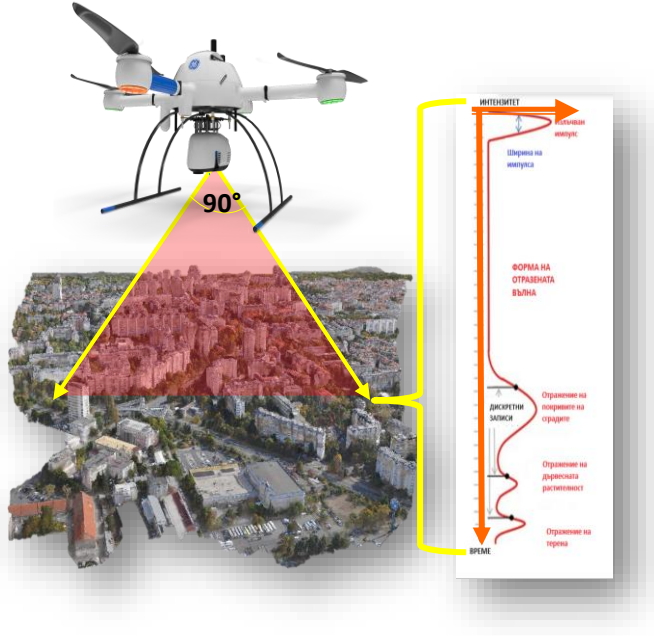
TECHNOLOGIES WE USE:
An Integrated and Complementary Approach

Remote methods (Earth Observation): satellite data

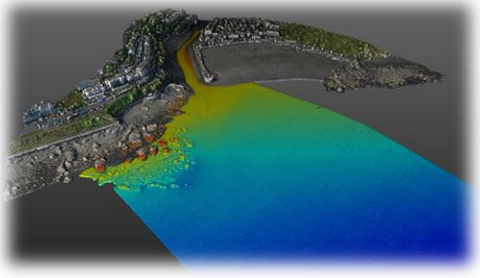


Unmanned aerial systems (UAS): digital photogrammetry (Structure from Motion – SfM)

Laser altimetry (LIDAR): airborne and ground-based



Complex spatial models



Geographic Information Systems (GIS)

Information Platforms and Websites of Burgas Municipality

Integrated Urban Platform SmartBurgas

smartburgas.eu

Smart Burgas

Burgas Municipality Green System

greensystem.smartburgas.eu

ЗЕЛЕНА СИСТЕМА
Община Бургас

Burgas Development Plan PIRO 2021-2027

plan.smartburgas.eu

Община Бургас в развитие

eGIS Information System

egis.smartburgas.eu

eGIS

Open Data Access Bank of Burgas Municipality

burgasdatalake.smartburgas.eu

INNOVATIVE SYSTEMS BURGAS LTD.

Integrated Risk Management System

isuv.smartburgas.eu

ИСУВ
Община Бургас

Information Platforms and Websites of Burgas Municipality

Burgas Municipality Official Website

www.burgas.bg

Tourist Platform GoToBurgas

www.gotoburgas.com

Business Map of Burgas

www.businessmap.burgas.bg

Virtual Tour of Burgas – VR Burgas

www.vrburgas.com

Energy Efficiency and Modernization of Street Lighting

light-burgas.com

Solar Potential of Burgas

burgas.solarcities.bg

Energy Office Burgas

energy-office.bg

“SmartBurgas” Official Viber Channel

SMARTY – Burgas’s Viber Chatbot

THANK YOU!

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