

The logo features a series of colored dots (blue, cyan, green, yellow, red) arranged in a curved path, resembling a stylized city skyline or a data trajectory.

NeoCity
View

Integration Platform for City Management

NeoCityLab B.V.

The Idea

Development of an integrational platform for unification and mapping of all geodata with photopanoramic view and laser scanning data to

- visualize
- navigate
- integrate
- analyze

the surrounding geo-environment to be a basis for **Smart City solutions**.

Inter-Agency
Collaboration

Emergency & Disaster
Management

Infrastructure
Management

Information
Management

Citizen Services

Smart City

Public Administration
Services

Law Enforcement

Education

One Platform as a Basis for Smart City

3 main stages of the platform creation:

➤ Data processing to visualize, navigate

from mobile scanning from different types of scanning systems (.LAS files), panoramic images, data from the top (aircrafts, drones), any other geo data (maps, etc.)*

➤ Analytical tools

algorithms to analyze the city environment (measure, object recognition, embedding objects, retrospective analysis, etc.)

➤ Data integration from other different urban data bases

real estate register, cadaster, land agreements, historical info, etc.

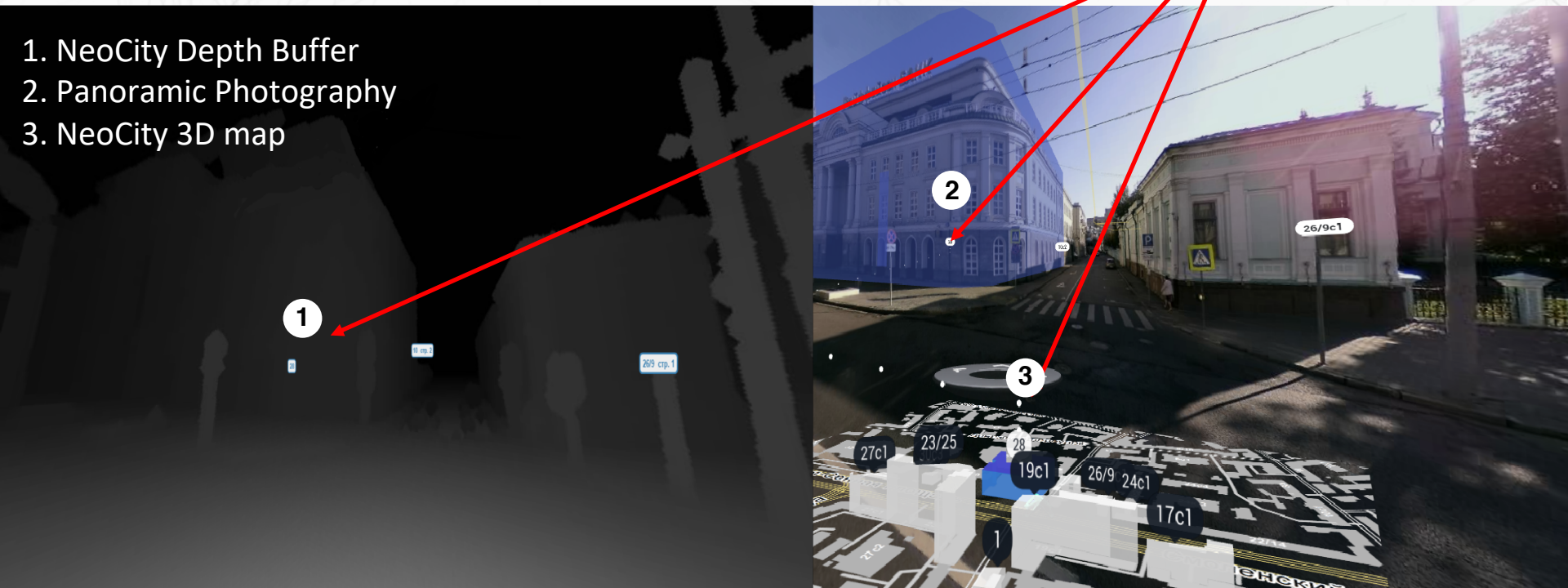


The Basis Idea of the Platform

The idea is based on combination of panoramic photography with a depth buffer created out of point cloud and so each pixel at the panorama has a geo reference.

End user gets a user friendly tool – easy to operate, navigate, analyze and manage any area.

Each NeoCity point has
a geo reference &
3 visual solution



The Solution

The major problems in the field we solve:

➤ **Data quality improving** received from the drones, satellite, aircrafts.
a significant amount of information is not available from the top

➤ **Complete image** of the surrounding space
we use the combination of raster and vector data.

➤ **Flexible, operable and modular system (API)**
*Our solution is for all kinds of devices (mobile, IOS, Android, etc.)
API to integrate and be integrated*

➤ **Time and costs effective technology**
one average European city is ready in a month. 100-150 km per day.

Analytical and Management Tools

New 3D form of representation of urban space.

➤ Resource Management

Urban Asset Inventories, Property Tax Management, Infrastructure management, Water and Land Management, Emergency, etc.

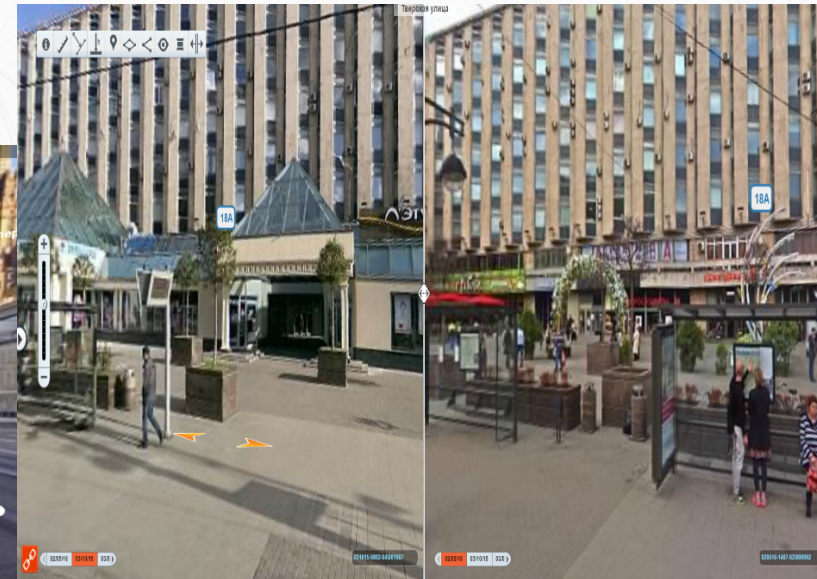
➤ Territory Planning

Plan development, visualization and maintenance

➤ Urban Data Integration and Analysis

all data from different resources in one panorama to evaluate and analyze

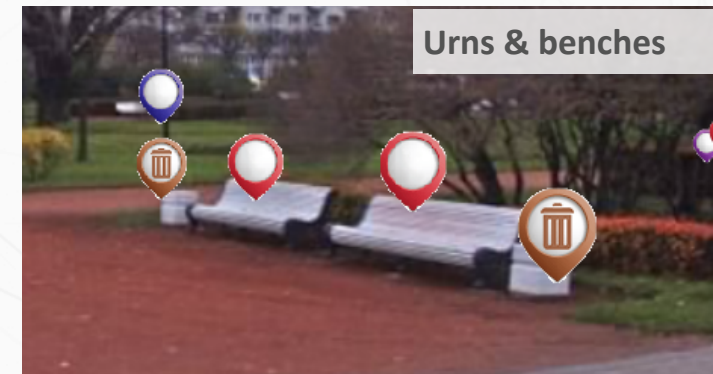
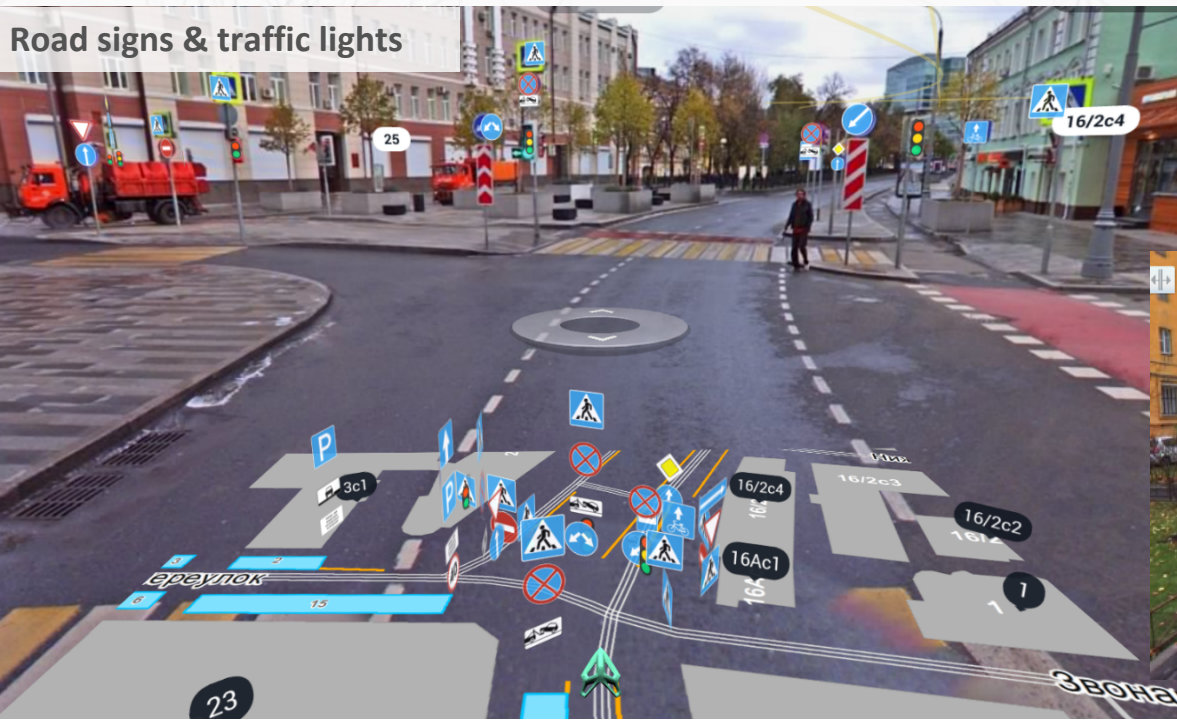
➤ Retrospective Analysis of territory changes



Urban Inventory: Object Recognition

- Standard Infrastructure Object Recognition
- Building recognition
- Other objects recognition

Automatic recognition of road signs, poles, hatches, billboards, building facades, bus stops, road boundaries and other road infrastructure objects with a high level of accuracy (up to **95%**).



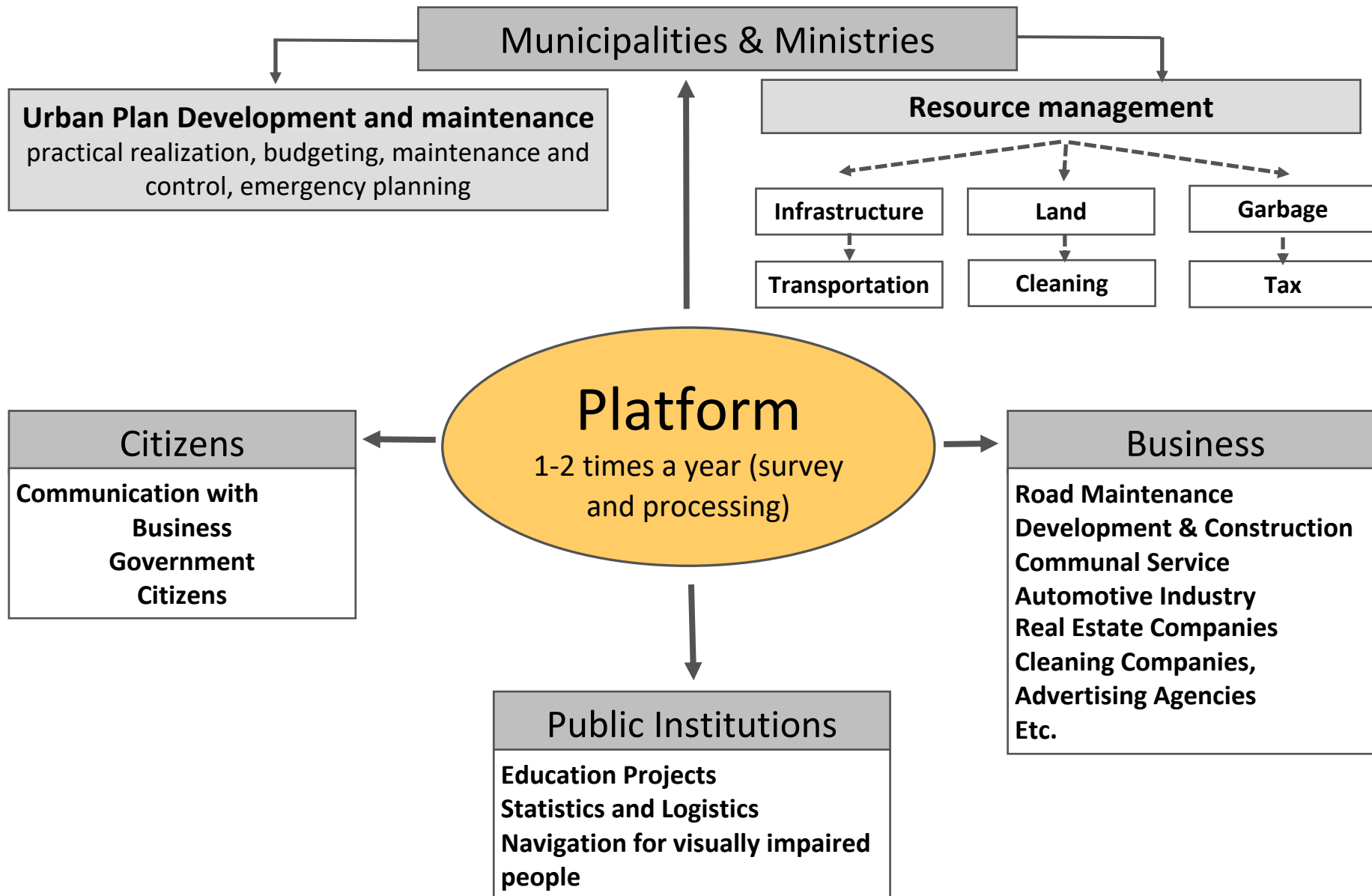
City Planning: Embedding New Objects

Any object can be embedded into panorama.

Once embedded the object becomes a part of environment and can be seen from any place on the panorama.



One Platform – Many Unlimited Users Benefits



Benefits of the Platform

- **Synergy** – One solution for many different types of users
- **Unification and standardization of geodata** flow in general
- **User friendly** – you can use the data and work with it from any device (including mobiles); no special learning is needed.
- **Time savings** - average European city is ready in 4-5 weeks for end users.
- **API to integrate and be integrated** to other software, data
- **Cost optimization** – synergy and automated data processing



Thank you!

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