vertical solutions

info@versol.lv

+371 20 40 2372

Lielirbes iela 1, Rīga
Latvija, LV-1046

www.versol.lv

Technical Specification Wsens

Inefficiency

Absence of automation & transparency

Development of adverse environment

Lack of transparency in waste management

Overflowed waste bins

Growth of solid waste per year

Growth of not recycled waste

Tons of waste per year

Analytics

SaaS & Wsens in work

Cloud SaaS

GPS Tracking

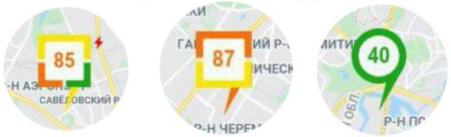
Dashboards & Reports

Traffic Cong. Sys.

Fire Detection

Online Fill-level

Tilt Sensor

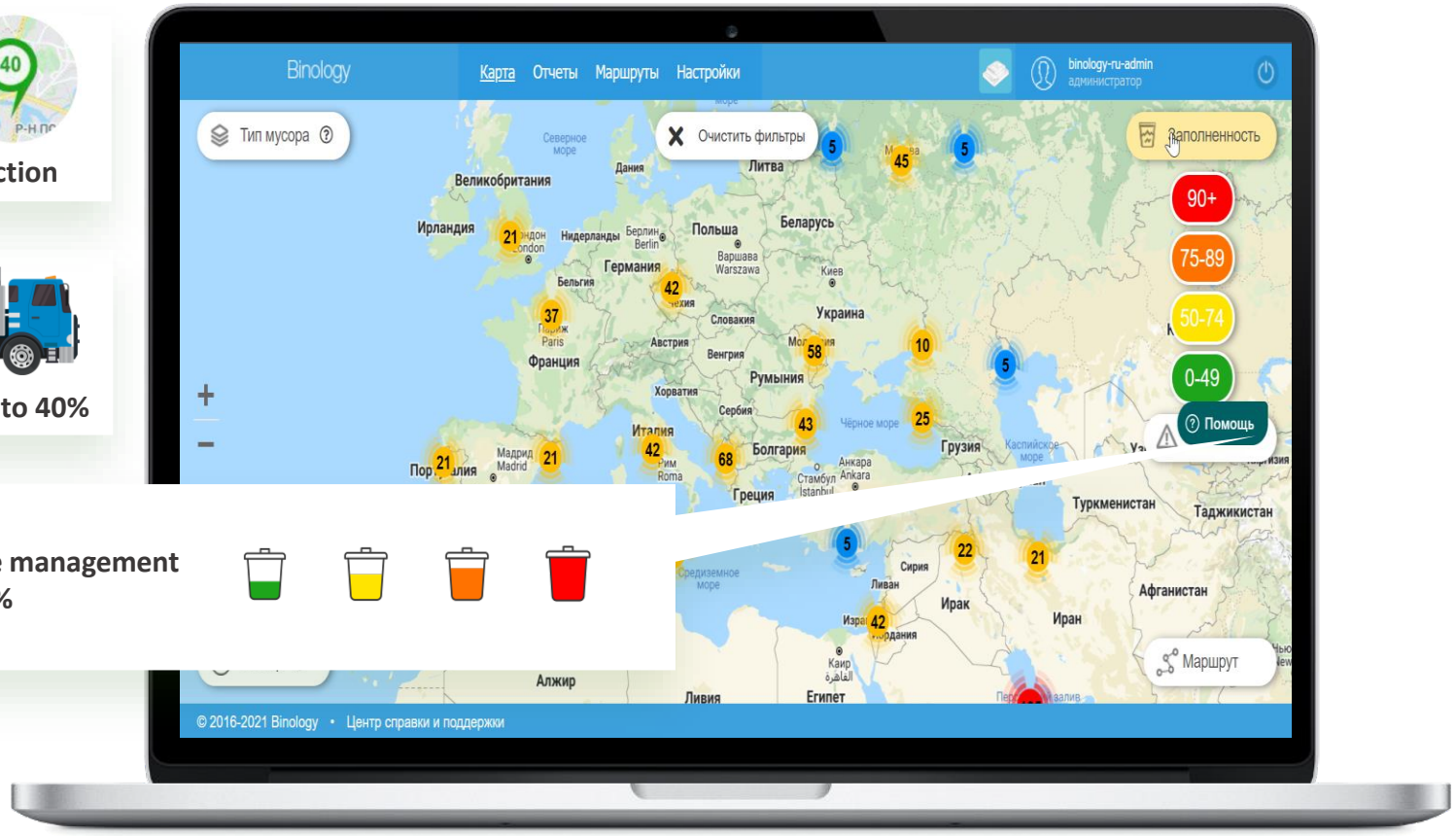


Transparency for each fraction

40%

Reduce empty running up to 40%

65% Reduce waste management cost up to 65%



For drivers & administrators

SmartCity WSens

**SmartCity WSens is an ultrasonic sensor. For measuring
fill-in level and sending data to cloud service for processing and analysis.**

**Type of containers:
0,08 - 24 m3.**

1 year
warranty

NB IoT
technology

Technical description

Specifications

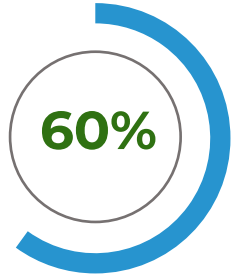
Weight	**400 g**
Overall dimensions (H/W/L)	**46/105/125 mm**
Measurement system	**Ultrasonic**
Type of battery	**Li-SOCl2**
Battery life*	**up to 10 years (NB-IoT)**
Enclosure class	**IP 67**
Operating temperature range	**–40 ˚C to +75 ˚C**
Housing material	**shock resistant ABS plastic**
Positioning	**GPS**
Data transmission technology**	**NB-IoT**

* battery life depends on data transmission frequency, by default – 2 times per day.
** depends on model

WSens Advantages

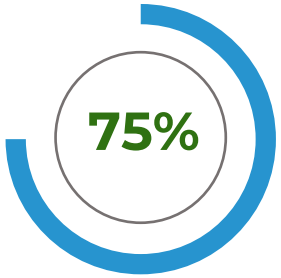
- Easy installation on bin cover or wall
- Anti-vandal body and mounting
- Protection against dust, dirt and water
- Sensor works up to 10 years
- Fire Detection
- Tilt sensor
- Fill-level detection
- Emptying detection system
- Waste type settings
- Adjustable data transmission frequency

Impact after implementation

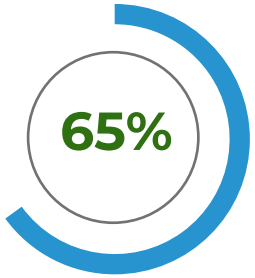


reduction of removal frequency

reduction of CO2 emissions



reduction of waste management cost



reduction of empty runs

SmartCity Wsens Installation

The technology can be also applied in other spheres where filling level measurement is required. Level measurement can be applied for the following materials:

- **Fine bulk materials**
- **Non-flammable liquids**

Underground containers

3 to 5 m³

Bulk waste containers

6 to 24 m³

Open-top & close containers

8 to 15 m³

Wheelie containers

0,1 to 1,3 m³

Container types