

Digital Cities Swobo BV



STARTUP CREATION: SWOBO BV (THE NETHERLANDS)

PARTNERS: Nobleo (The Netherlands), UPM (Spain)



Bringing Autonomy to street sweeping

Street sweeping is still being done with fully manually operated vehicles and requires highly skilled operators that are increasingly difficult to find. Swobo offers automated solutions that facilitate the operation of these vehicles and improves the effectiveness of the street sweepers in operation.

Swobo offers different automation solutions for sweeping vehicles for OEMs to gain a competitive advantage:

- Automated sweeping brushes that follow the curbs, lines or road-edges,
- Automated suction inlets to prevent damage from accidental collisions,
- Coverage overviews to show the already cleaned area on a map,
- Automated steering for fully autonomous cleaning in non-public area's



Competitive Advantages

The standard solution for street sweepers is a fully manually operated vehicle; the Swobo solutions offer the following advantages for the end users:

- Easier operation
- Consistent cleaning result

For the fully autonomous solution the advantages are on top of that:

- More versatile operation.
- Cheaper (especially outside office hours)



Target Markets

- Municipal street sweeping
- Cleaning of industrial complexes (also indoors)
- Airport runway cleaning

The sales channel for these markets are the OEMs that deliver the sweeping vehicles.



Status/Traction

- Swobo has two pilot projects in preparation (indoor and outdoor) and one confirmed sale.



Road Map

- The launching product will be automated components for sweeping machines. In parallel, the autonomous driving for indoor sweeping will be developed in several pilots. When proven to work indoors, the outdoor market for non-public areas will be developed. The sweeping of public streets is the most challenging in terms of safety and certification, so this will be picked up after successful product introductions in the previous markets.



Leveraged Technologies

- Sensor fusion, Autonomous systems, AI, Computer vision



Contact



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