



EUROPEAN UNION

European Regional
Development Fund

Senate Department
for Economics, Energy
and Public Enterprises

BERLIN



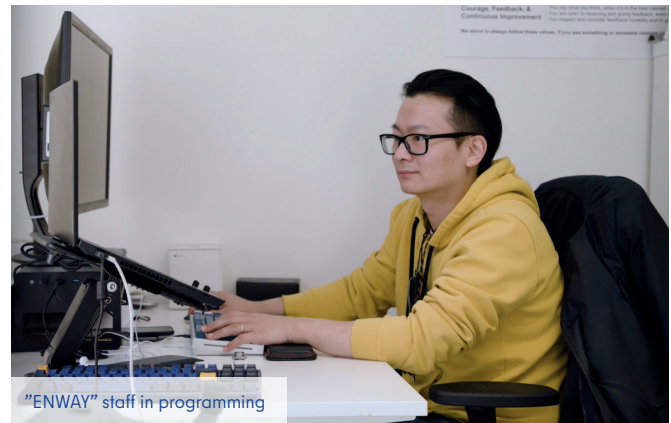
Europe Makes Berlin — Fit for the Future

SMART SWEEPERS MADE IN BERLIN

Whether on the site of large industrial plants or on busy streets and squares: regular cleaning is essential. Sweeping vehicles used to clean private and public spaces are loud, physically strenuous, and sometimes even dangerous to work. The work is furthermore sometimes still done manually. The company “ENWAY” is however modernising this, as it has developed a software platform for self-driving industrial vehicles – the cleaning machine “B2”. “ENWAY” enables a quiet and sustainable approach to keeping public and private spaces clean.

An important goal of the company is to let man and machine interact with each other. In this way, manual road cleaners and street cleaners can be assisted in their work by sweeping vehicles, which leads to a relief of heavy manual labour. However, there is also the possibility at any time to intervene in the software of the autonomous sweeper via a web app should malfunctions occur.

A loan financed by the European Regional Development Fund (ERDF) from “ProFIT” enables the Berlin-based start-up “ENWAY” to turn the idea of professional floor cleaning with autonomous machines into a reality.



“ENWAY” staff in programming

“Our autonomous sweeping vehicles are far more sustainable as they are completely electric powered”.

Rowan Holligan, Head of Engineering “ENWAY” GmbH



The cleaning machine “B2”

FOR EVERY SITUATION

The software is designed in such a way that it can react to a wide variety of situations at the respective location, especially to static objects, but also to dynamic obstacles. The technology is not limited to sweepers, so it can be integrated into different vehicles. This makes the platform, which is basically designed to precisely control and navigate heavy machines, equally attractive for the agriculture and construction industries.

ERDF PROMOTES THE FURTHER DEVELOPMENT OF INNOVATION

In addition to other applications, the software's ability to learn is a decisive factor. By connecting to the cloud and using artificial intelligence, the sweeping robot collects his experiences and feeds them into the system. The result: new sweepers benefit from the experiences of the entire fleet and can implement this knowledge individually.

ERDF WORKS IN BERLIN

"ENWAY" is located in the center of the Berlin mobility community in the Ullsteinhaus in Tempelhof-Schöneberg. There, local solutions to global problems are conceived, rehearsed, and exported.

The ERDF makes Berlin fit for the future by

- developing intelligent solutions for an innovative city,
- supporting young businesses and creating jobs for the future

FUNDING

Funding Priority:
Innovations

Funding instrument:
Profit – Programme for the promotion of research, innovation and technology (subsidy)

Funding amount:
EUR 756.700, of which 50% ERDF

CONTACT

Business development bank of the
Federal State of Berlin (IBB)
EU Evidence Authority

Christiane Ehrat
E-mail: zgs@ibb.de

Enway GmbH
Mariendorfer Damm 1, 12099 Berlin

Bo Chen, Julian Nordt
E-mail: info@enway.ai

Photo credit:
Senate Department for Economics,
Energy and Enterprises

Editorial and design:
ariadne an der spree GmbH



Demonstration of the cleaning machine



"B2" in outdoor use



The test on the company premises



Cleaning machines during maintenance