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Flawless urban crowd management

- **Challenge:**
Crowd management



Powered by:



cityflows-project.eu

in dorineduives

Main product:
CityFlows

Aim:
To provide a clear view of multimodal flows in the city



THE PROJECT

The idea

Cityflows answers the concerns of municipalities, operators and event organisers related to flows of pedestrians and vehicles in the city. We developed tools, algorithms, and a visual dashboard to anticipate how public spaces become crowded, enabling urban planning assessments and the deployment of crowd management measures that prevent incidents.

Inspiration

I noticed that crowded pedestrian spaces were often managed based on experience and gut feelings. I felt that it should be possible to rationalise the management of these spaces thanks to emerging technologies.

Unique selling points

Our dashboard fuses a multitude of semantically distinct data sources (camera feeds, WiFi, GPS, radar, etc.). It is very user-friendly, highly customisable, and scalable. The system is physically located on EU soil and complies with GDPR requirements.

Societal impact

The implementation of CityFlows improves the usability and safety of crowded pedestrian spaces. To this extent, it promotes walks and public transport as efficient options to move across the city, and contributes to a more sustainable urban life.

EIT Community support

The funding of EIT has helped us to strengthen, refine, and launch the CityFlows dashboard. It provided the means to develop the valuation of the product and helped us connect with potential clients.

Overcoming adversity

Leading the CityFlows team and developing the project was extremely challenging, as our labs were forced into lockdown by the COVID outbreak. We re-evaluated our business plan, operations, and cooperation with our three partner cities. The pandemic also gave us an opportunity to prove our technology and help manage the situation in Amsterdam.

THE NOMINEE

The beginning

When I was a little girl, I stared at the movement of ants near their hive. This piqued my interest in transportation and crowd movement dynamics. I worked on a first piece of research at a large-scale music festival called Lowlands. I realised then that I would be into this for the rest of my life.

Rewarding moments

The moment in time I found out that my ideas could be the of instrument positive change in the lives of other individuals.

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