# Satellite-based change detection and predictive monitoring of infrastructure grids based on high resolution data

## Fact Sheet

Project Information

**EOinTime**

Grant agreement ID: 190100375

**DOI**
10.3030/190100375

Project closed

**EC signature date**
20 September 2022

**Start date**
1 October 2022

**End date**
31 March 2024

**Funded under**
The European Innovation Council (EIC)

**Total cost**
€ 2 489 000,00

**EU contribution**
€ 1 735 300,00

**Investment in EU policy priorities**

| | | | |
|---|---|---|---|
| Digital agenda | ◐ | Clean air | ○ |
| Artificial Intelligence | ○ | Climate action | ○ |
| Biodiversity | ○ | | |

**Coordinated by**
LIVEEO GMBH
Germany

## Project description

### Predicting threats to infrastructure networks with AI-based algorithms

Early detection of changes in weather patterns and disruptions caused by ground deformation, vegetation, wildfires and third party activity can help large infrastructure networks to mitigate risks and keep operations running smoothly. Funded by the European Innovation Council, the EOinTime project intends to scale up its earth observation monitoring service, which integrates satellite data with machine learning algorithms. The project focuses on time series analysis and near real-time monitoring. To this end, it aims to develop AI-based change detection algorithms that will sequentially assess data patterns and identify anomalies with high precision. This will enable timely prediction of any potential threat to infrastructure networks. Stakeholders will have access to real-time insights of the monitoring service through mobile and web apps.

## Fields of science (EuroSciVoc)

engineering and technology > mechanical engineering > vehicle engineering > aerospace engineering > **satellite technology**

natural sciences > computer and information sciences > software > **software development**

engineering and technology > environmental engineering > **remote sensing**

engineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > radio technology > **radar**

natural sciences > computer and information sciences > artificial intelligence > **machine learning**

## Keywords

Risk management | Service innovation | Space services and products | Satellite-based change detection

## Programme(s)

HORIZON.3.1 - The European Innovation Council (EIC) MAIN PROGRAMME

## Topic(s)

HORIZON-EIC-2022-ACCELERATOROPEN-01 - EIC Accelerator Open

## Call for proposal

HORIZON-EIC-2022-ACCELERATOR-01

See other projects for this call

## Funding Scheme

HORIZON-EIC-ACC-BF - HORIZON EIC Accelerator Blended Finance

## Coordinator

**LIVEEO GMBH**

Net EU contribution

**€ 1 735 300,00**

Total cost

**€ 2 489 000,00**

Address

**CUVRYSTRASSE 3 4**
**10997 Berlin**
**Germany**

SME

**Yes**

Region

**Berlin > Berlin > Berlin**

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

**Last update:** 27 September 2022

**Permalink:** https://cordis.europa.eu/project/id/190100375