



# Scalable Co-optimization of Collective Robotic Mobility and the Artificial Environment

## Fact Sheet

### Project Information

#### gAla

Grant agreement ID: 949940

#### DOI

[10.3030/949940](https://doi.org/10.3030/949940)

#### EC signature date

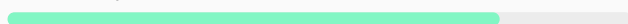
7 October 2020

#### Start date

1 January 2021

#### End date

30 June 2026



#### Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

#### Total cost

€ 1 495 338,00

#### EU contribution

€ 1 495 338,00

#### Coordinated by

THE CHANCELLOR MASTERS  
AND SCHOLARS OF THE  
UNIVERSITY OF CAMBRIDGE  
 United Kingdom

## Project description

### Paving the way for an environment conducive to robotic mobility

Autonomous agents – such as robots and driverless cars – need to collaborate and cooperate when they are working together in shared spaces, such as warehouses or traffic systems. But to make progress in this area, we need to stop trying to shoehorn the robot mobility systems of the future into the transport environments of the past. Up to now, there has been a disconnect between the optimisation of mobile robots and their immediate environment. The EU-funded gAla project will study this environment, which is as much a variable as the robot itself. By identifying more

conducive and efficient environments, the project will help improve collective robot policies. The findings will impact transport planning and urban design, facilitating a new path towards mobile vehicles that are connected and coordinated. Overall, the project's aim is to shed light on the coupling between environmental structure and collective robotic mobility.

## Keywords

[multi-robot systems](#)

## Programme(s)

[H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council \(ERC\)](#)

MAIN PROGRAMME

## Topic(s)

[ERC-2020-STG - ERC STARTING GRANTS](#)

## Call for proposal

[ERC-2020-STG](#)

[See other projects for this call](#)

## Funding Scheme

[ERC-STG - Starting Grant](#)

## Host institution



THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF  
CAMBRIDGE

Net EU contribution

€ 1 495 338,00

Total cost

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Address

TRINITY LANE THE OLD SCHOOLS  
CB2 1TN Cambridge  
 United Kingdom 





Region

East of England > East Anglia > Cambridgeshire CC

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#)   
[Participation in EU R&I programmes](#)   
[HORIZON collaboration network](#) 

## Beneficiaries (1)



THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF  
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Last update: 26 February 2025

**Permalink:** <https://cordis.europa.eu/project/id/949940>

European Union, 2025

