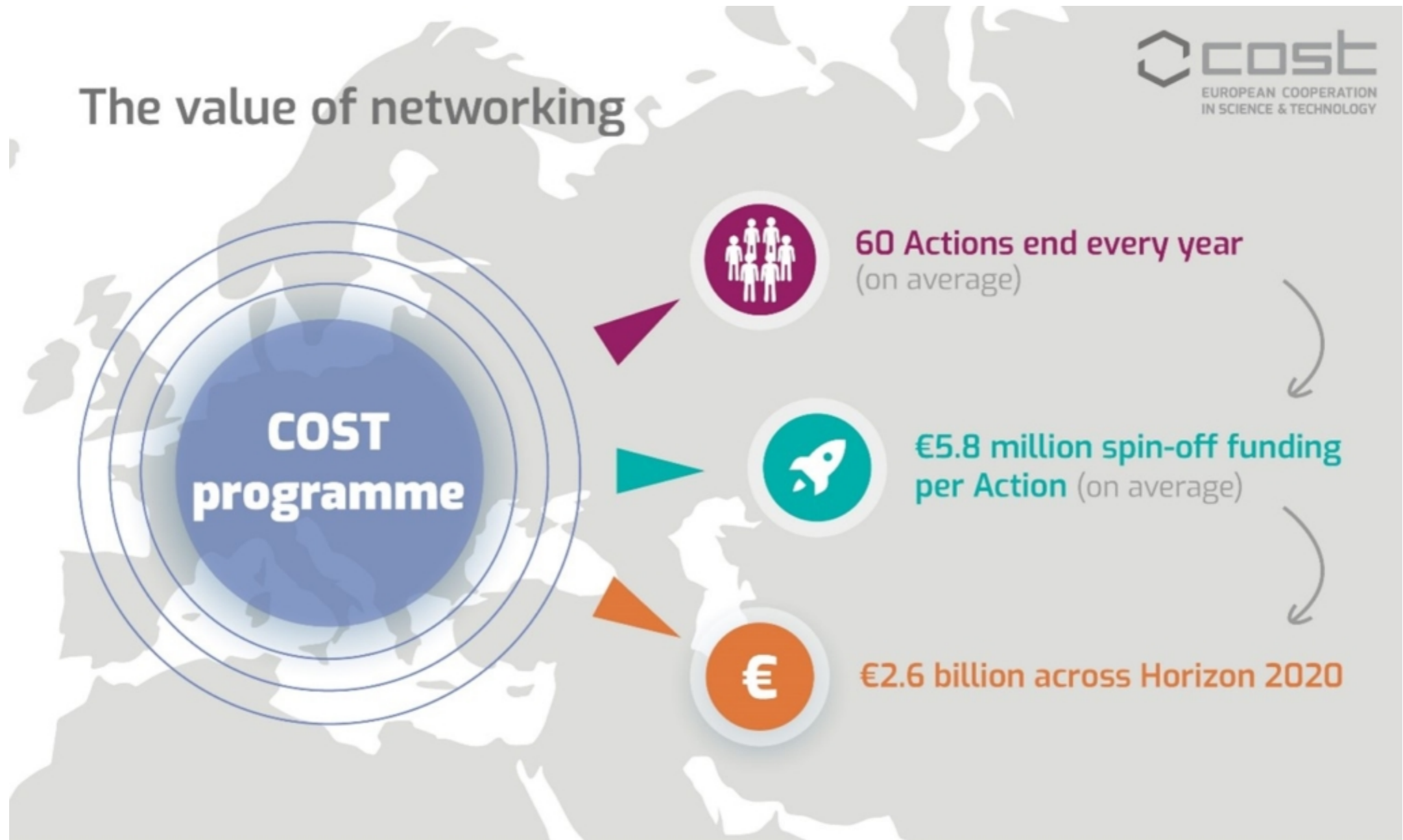




is a funding organisation for the creation of research networks, called **COST Actions**.

Since 1971, COST receives EU funding under the various Research and Innovation Framework Programmes, such as Horizon 2020 and Horizon Europe.

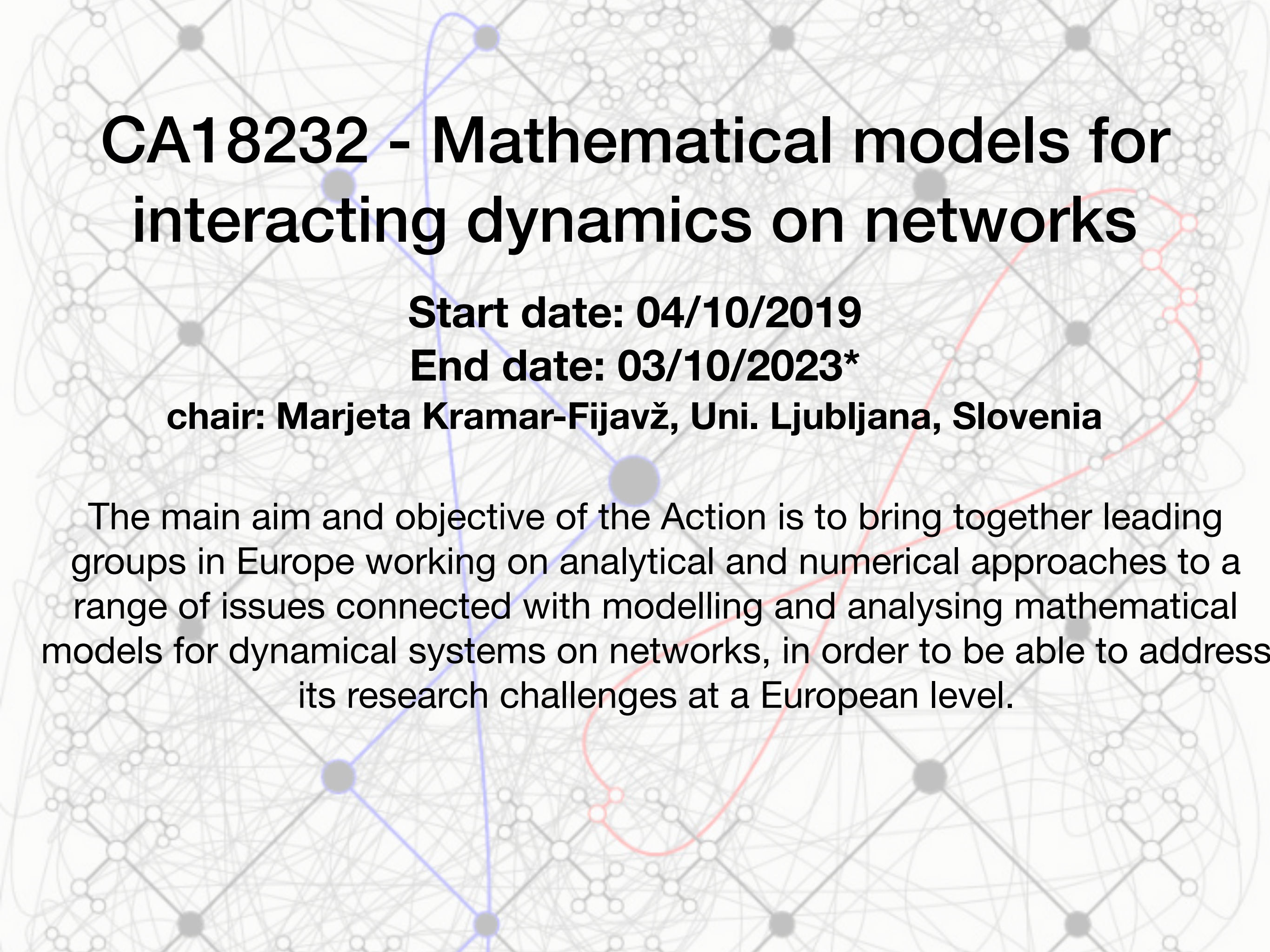
Funding networking activities



Funding networking activities

Actions bring together researchers, innovators and other professionals including industry specialists, who are based in Europe and beyond, to collaborate on research topics for a period of **4 years**.

The **funding** a COST Action receives covers the expenses of networking activities rather than research and as such is used **to organise meetings, training schools, short term scientific missions, and other networking activities**.

The background of the slide features a complex network diagram. It consists of numerous small, light-gray circular nodes connected by thin, light-gray lines. Overlaid on this background are two prominent paths: one in blue and one in red. The blue path starts near the top left, moves down, then loops back up towards the center. The red path starts near the top right, moves down, then loops back up towards the center. Both paths are composed of thicker lines than the background network.

CA18232 - Mathematical models for interacting dynamics on networks

Start date: 04/10/2019

End date: 03/10/2023*

chair: Marjeta Kramar-Fijavž, Uni. Ljubljana, Slovenia

The main aim and objective of the Action is to bring together leading groups in Europe working on analytical and numerical approaches to a range of issues connected with modelling and analysing mathematical models for dynamical systems on networks, in order to be able to address its research challenges at a European level.



Mathematical
models
for interacting
dynamics
on networks

Working groups

WG1

Co-semigroups and beyond

WG2

Nonlinear problems

WG3

Networks and similar structures

WG4

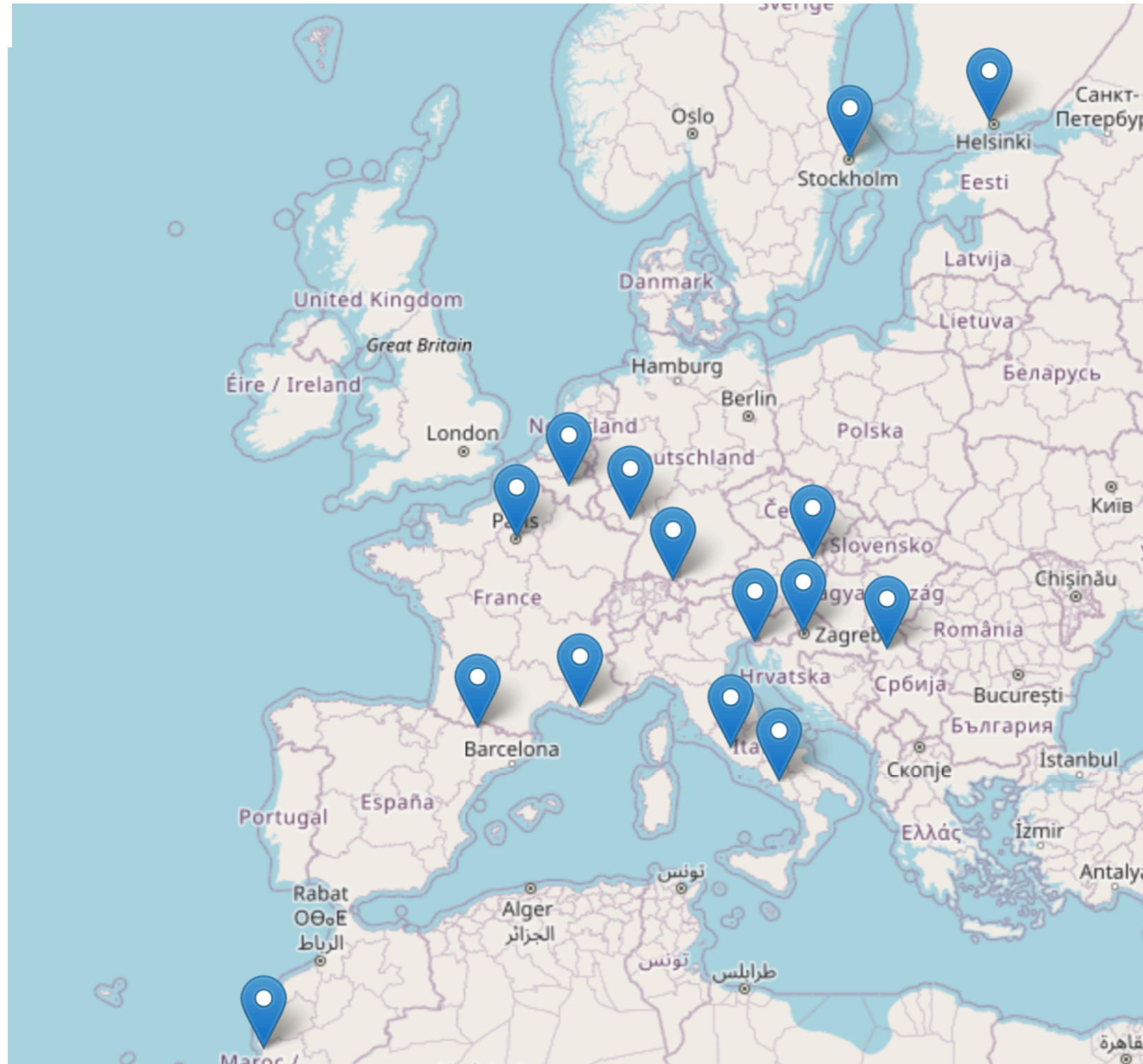
Variational methods on graphs and networks

WG5

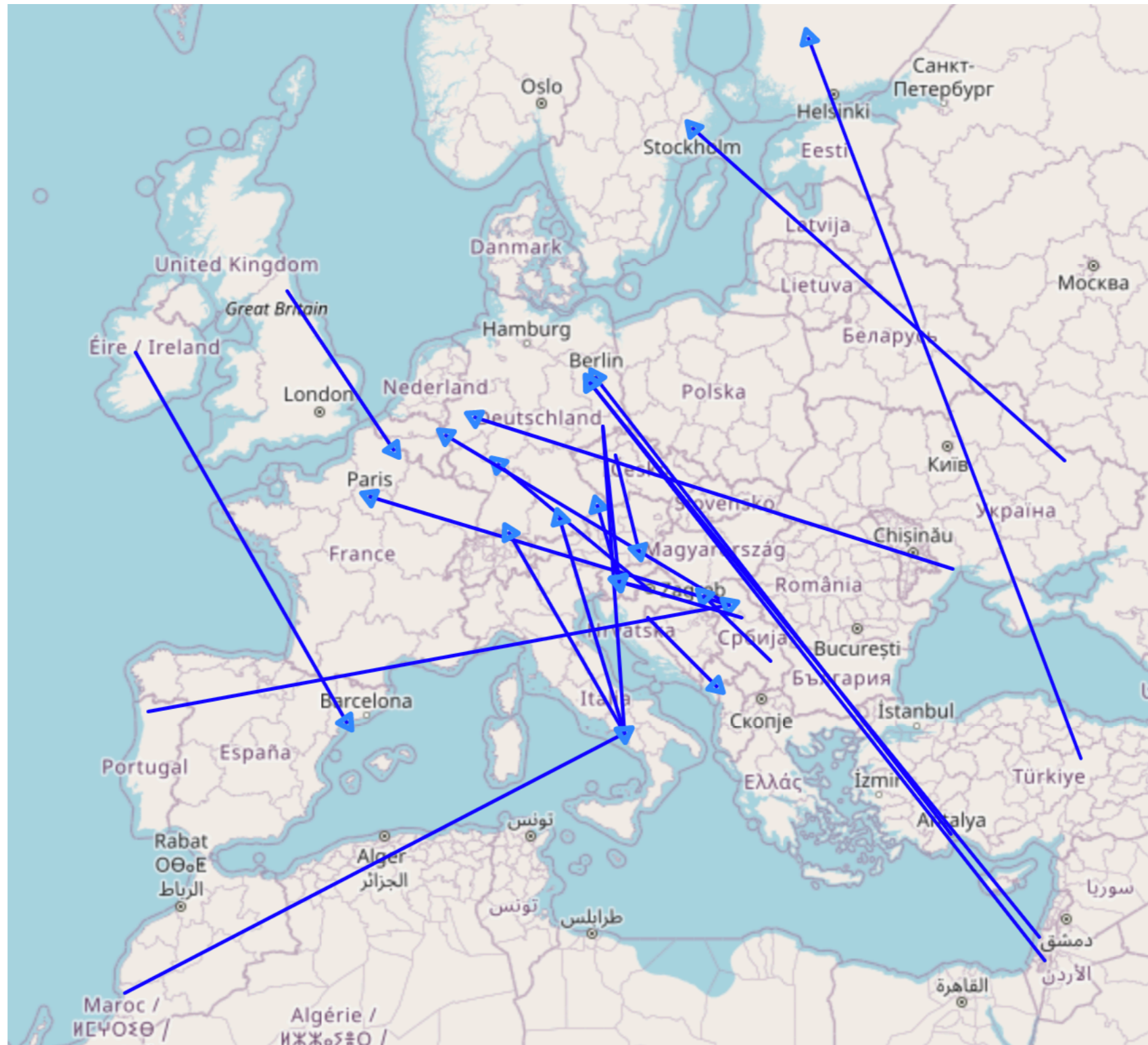
Numerical methods and applications

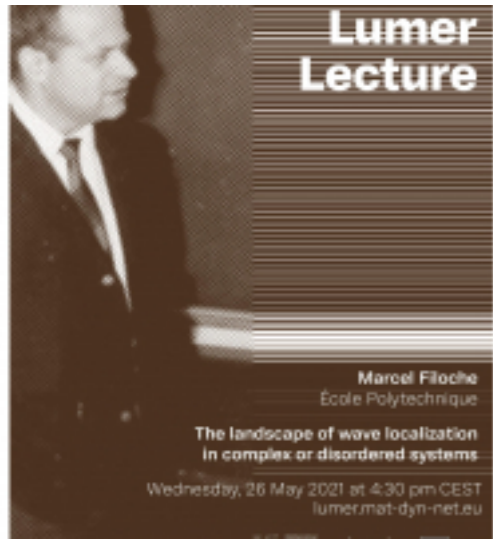


Meetings & special sessions at conferences (co)organised by the Action



Short-Term Scientific Missions





Lumer Lectures

Rafe Mazzeo (Stanford University) Curvature flows of singular spaces

Enrique Zuazua (Friedrich-Alexander University) Networks and Neural Networks

Laurent Desvillettes (Université de Paris) Some aspects of the Landau equation of plasma physics

Wolfgang Arendt (University of Ulm) Form Perturbations: From Lumer-Phillips to Galerkin Approximation

Marcel Filoche (École Polytechnique) The landscape of wave localization in complex or disordered systems

Youtube channel: The Lumer Lectures

Forthcoming activities

Summer school **Heat Kernels and Spectral Geometry: From Manifolds to Graphs**, Bregenz, Austria, August 30-September 03

12th Euro-Maghrebian Workshop on Evolution Equations and COST WG1 meeting, Agadir, Morocco, September 12-16

Heating up networks - analysis meets applications workshop, Fraunhofer Institute, Kaiserslautern, Germany, October 05-07

Scientific event **Networking in applied network theory**, online & Bedlewo, Poland, winter semester 2022/2023

How to apply for the membership in the Action?

1. Create an account on e-COST (link at <https://cost.eu>)
2. On e-COST search for code CA18232
3. Click on WG Applications & apply for membership in chosen working groups

Webpage of the Action: <https://mat-dyn-net.eu/>