This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 101006661.
BISON, towards a sustainable European transport infrastructure for biodiversity

The growing international interest in mainstreaming biodiversity in transport infrastructure (roads, railways, waterways, ports, airports and energy related networks) offers new opportunities to develop innovative solutions. Whether technological, organisational, managerial, or methodological, these solutions can simultaneously benefit mobility, trade, energy, climate change and biodiversity policies.

From an environmental point of view, there is an urgent need to address land use change and ecosystem fragmentation, which are the main drivers of biodiversity loss in the world, caused in particular by transport infrastructure.

As a result, new regulations with stricter biodiversity standards can be expected in the wake of the negotiation of a new global framework for biodiversity within the Convention on Biological Diversity.

The European Union has funded the BISON project to address for the first time the research and innovation challenges associated with biodiversity mainstreaming in whole life cycle of transport infrastructure. It aims to help European Member States, associated countries, and stakeholders by providing tools and recommendations for mainstreaming biodiversity in the whole life such as design, construction, and operation of transport infrastructure.
BISON aims to establish the future European strategic agenda for research and innovation about infrastructure and biodiversity by:

01 Detecting the methods and materials that can be used by different transport modes to mitigate negative impacts on biodiversity while making infrastructure more performant and reliable.

02 Identifying research and innovation needs for biodiversity mainstreaming in transport infrastructure.

03 Supporting European Member States to fulfil their regional and international commitments for sustainable development.

04 Developing collaboration among European Member States to become political leaders on jointly addressing biodiversity and infrastructure challenges.
MULTIPLE OUTCOMES

- State-of-the-art on mitigating infrastructure impacts on biodiversity, from collisions to ecosystem fragmentation to pollution

- Strategic Research and Deployment Agenda (SRDA):
  - Identify research needs and opportunities for synergy
  - Identify opportunities to deploy acquired knowledge

- R&I Funding optimization

- Public policy coordination and cross-sectoral improvements

- Stakeholders’ engagement

- Creation of a community of experts
CONSORTIUM

14 National Transport Infrastructure and Environmental Authorities

3 National Environmental Agencies

5 Infrastructure Operators and Companies

11 Research and Academia

6 Associations

1. represents the Czech Ministry of Environment.
2. represents the Greek Ministry of Transport.
3. represents the Czech Ministry of Transport.
Project coordinator:
Ethniko Kentro Erevnas Kai Technologikis Anaptyxis (CERTH)

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