



National Research Program on Transport Infrastructure, Territories, Ecosystems and Landscapes (ITTECOP)

ITTECOP is a research program created in 2008 by the French Ministry of Ecological Transition (MTE), in coordination with Ademe (French Agency for the Environment and Energy Management), in the framework of the first governmental strategy for biodiversity. With six calls for research proposals (2008, 2009, 2012, 2014, 2017 and 2020) ITTECOP contributes to a strong reflection on the integration of ecosystem and landscape issues in the development and implementation of infrastructure projects or the adaptation of existing facilities.

The program deals with land transport infrastructure rich variety, whether waterways rail, road or energy infrastructure, as well as their interrelations with the territories: stations, ports or airports. The effects of ILTe are analyzed, according to their scale, from several complementary angles: ecological, territorial, social, economic, landscape or heritage.

The MTE's research and innovation department is in charge of steering the national ITTECOP research program. It guarantees the independence of the Scientific Council (SC) and the excellence of the research conducted. The program is carried out in open collaboration with ADEME, the French Office for Biodiversity (OFB), the members of the Linear Infrastructure and Biodiversity Club (CILB) and the Foundation for Research on Biodiversity (FRB).

ITTECOP participates in international collaboration. As a member of the research network IENE (Infrastructure and Ecology Network Europe), it actively accompanies future European research and innovation orientations carried out in the H2020 strategic project BISON (Biodiversity and infrastructure Synergies and Opportunities for European transport Networks). It also contributes strongly to international coordination with the Sustainable Infrastructure Partnership, the UICN (Center for Large Landscape Conservation) and the Kheops research program.



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Programme • **ITTECOP**
Infrastructures de transports, territoires, écosystèmes et paysages



2020 call Situated infrastructure: ecosystems, landscapes and territorial dynamics

The 2020 call for research proposals (APR) encourages the development of interdisciplinary research on the interactions between linear transport infrastructure and their rights-of-way (ILTe), eco-systems at different scales: rural, peri-urban and urban territories. It takes into account their historical or geographical dynamics and landscapes, understood as the relationship between representations, perceptions and materiality.

The projects supported aim to:

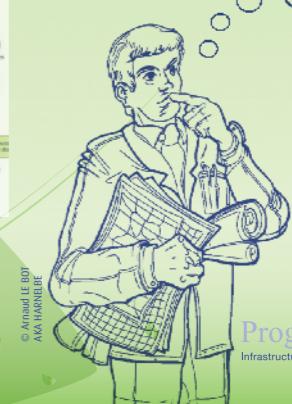
- **improve retrospective**, present or prospective knowledge;
- **to produce a conceptual and methodological framework** shared between researchers and operational actors;
- **integrate procedures** from the life sciences, human and social sciences, and planning disciplines (architecture, urban planning, landscape design) into a coordinated approach.

The scientific council, chaired by Sophie Bonin from the Ecole Nationale Supérieure de Paysage, encourages collaboration with ILT network operators and local authorities, and supports projects promoting international collaboration.

The Scientific Council and the Steering Committee selected 18 projects for the 2020 call, including two from the FRB's ITTECOP-CESAB call. The call was co-financed with 2.3 million euros by the MTE, ADEME, OFB, FRB and CILB members: ASFA, EDF DPIH, Eiffage, Enedis, GRT Gaz, Lisea, RTE, SNCF Réseau, Terega and VNF.



The illustrations come from the projects: Dynarp, ERC+, D-transect, Graphab, Renatu, Saltus, Synergie, TVB.
More information on : www.ittecop.fr.



Projects 2020

◆ PÉGASE

Environmental Assessment
Governance: Air, Landscapes,
Ecosystems.

Nathalie FRASCARIA-LACOSTE et Cécile BLATRIX
AgroParisTech

◆ PÉPITE

Social preferences for ecological and landscape characteristics of linear transportation infrastructure at the territorial scale.

Anne-Charlotte VAISSIERE
Laboratoire Écologie, Systématique, Évolution (ESE),
Unité Mixte de Recherche 8079

Coralie CALVET
Université Paul-Valéry Montpellier, UMRs CEE-M et CEFE

DOCTRINES AND GOVERNANCE

*Incubator

● Exploratory

◆ Research

● Synthesis

*CESAB

*IPAVIA

Infrastructure, Landscapes and Atmospheric Visibility.

Nicolas HAUTIERE
Université Gustave-Eiffel

◆ MORPHÉE

Morphology, tools and methods of the environmental assessment market.

Stéphanie BARRAL
Laboratoire Interdisciplinaire Sciences Innovations Sociétés

◆ ZIANIE

Urban Areas and Infrastructure towards the goal of zero net artificialisation?

Denis COUVET et Fanny GUILLET
Muséum national d'Histoire naturelle (MNHN)

URBAN AND ENVIRONMENTAL MEASURES

◆ SEMEUR

Capacity of land transport infrastructure to meet the demand for Ecosystem Services in the Urban Environment (SEMEUR) - Methodological framework and experimental site in the territory of Saint-Fons (Grand Lyon)

Basak BAYRAMOGLU
Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (Inrae)

Carmen CANTUARIAS-VILLEZUZZANE
GROUPE ESPI, ESPI Paris

*ATABLE

A Territorial Workshop on longitudinal biodiversity on the Garonne lateral canal.

Yves PETIT-BERGHEM
Laboratoire de recherche en projet de paysage (Larep)

◆ PADIT

Agri-food landscape and transport interface development.
The Guadeloupean food systems, between globalization and territory.

Valérie ANGEON
Institut national de recherche pour l'agriculture, l'alimentation et l'environnement

Richard RAYMOND
CNRS - UMR 7206 Eco-Anthropologie

*NAVIDIV

Inland navigation infrastructure and biodiversity: impacts and opportunities for waterwayscape management.

Aliénor JELIAZKOV
Institut national de recherche pour l'agriculture, l'alimentation et l'environnement

Jean-Nicolas BEISEL
Unistra CNRS ENGEES

● COCPITT

Avoid, reduce and compensate mortality risks of the Eurasian Lynx (*Lynx lynx*) by collision with transport vehicles.

Alain MORAND
Cerema - Direction territoriale Est

● ESCAPE XXL

Feedback on exit devices from fences for large wildlife.

Christine SAINT-ANDRIEUX
Office français de la biodiversité (OFB)

Caryl BUTON
X-AEQUO

RELATIONSHIPS WITH WILDLIFE

◆ EFACILT

Impacts of LTI on terrestrial mammal movements and identification of black spots, effective crossing structures and species needs to maintain functional forest connectivity.

Rémi HELDER

Université de Reims Champagne-Ardenne

*BRIDGE

Building a bridge between river corridors, roadsides and field margins: how landscape interactions modulate taxonomic and functional plant diversity.

Éric TABACCHI

CNRS INEE

Guillaume FRIED

Anses

*Incubator

● Exploratory

◆ Research

● Synthesis

*CESAB

Cesab invites to a new way of doing research on biodiversity by better exploiting existing data and information.

CESAB PROJECT

SYSTEMATIC REVIEW

Beyond the datasets collected from individual work or limited research programs, «systematic reviews» allow to assess the quantity and quality (confidence) of available knowledge in order to draw objective and transparent conclusions.

RESEARCH PROJECTS

EXPLORATORY AND INCUBATOR PROJECTS

With a maximum duration of one year, the exploratory projects aim to analyze in a prospective way emerging, controversial, both among operators and in fundamental research. The incubator projects aim to lead to the submission of ambitious research projects in the framework of ANR, H2020 or Life+ calls.

● INFRASOLIC

Green outbuildings, a carbon sink to preserv and enhance.

Dorothée LABARRAQUE
EGIS Structure et Environnement

◆ PADDLe

Sustainable management partnerships for right-of-ways of linear transport infrastructure.

Claire ETRILLARD
Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (Inrae)

◆ TILT

LTI Territory, meander of metropolitan natural places?

Emeline BAILLY
Centre Scientifique et Technique du Bâtiment

◆ SALTUS

Between biodiversity, biomass and informal public spaces : which maintenance for the Likoto Spontaneous Green Network?

Denis DELBAERE
École Nationale Supérieure d'Architecture et de Paysage de Lille



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