ITTECOP is a multi-disciplinary research programme on infrastructures, landscapes and biodiversity. The French Ministry for Ecology, Sustainable Development and Energy (MEDDE) created ITTECOP in 2008. ITTECOP is a multi-disciplinary research programme that explores infrastructure issues (affecting river, rail, energy and road transport, as well as regional intermodal links) through social sciences and engineering. It also works on infrastructures, landscapes and biodiversity. ITTECOP hopes to develop a lasting research community that evaluates and transfers knowledge (methods, tools and new knowledge) to operators and stakeholders. The programme's challenge is to produce and transfer knowledge and aims to match scientific knowledge produced by researchers with the needs of people working in the field.

**Aims**

The programme focuses on infrastructural projects in all their diversity, covering all types of infrastructure (rail, road, rail and energy) and their interface with territories. The programme aims to:

- Support public policy: scientifically innovative projects produce and transfer knowledge (methods, tools and new reflective approaches) to operators and stakeholders.
- Combine scientific and technical knowledge: projects are led by a multidisciplinary research team produced by researchers with the needs of people working in the field.
- Take into account landscape, ecosystemic and socio-environmental factors; it is conducted in areas covered by linear transport infrastructure, modified landscapes and ecosystems, and from these changes affect connectivity and their spatial and temporal organisation. This involves expertise from different scientific disciplines: natural sciences, human and social sciences, and engineering.

**Scientific facilitation**

Special attention is paid to the scientific facilitation of the programme and to optimising research projects in order to ensure knowledge is transferred to public policy actors, researchers and practitioners. For this purpose, ITTECOP's first scientific results were published in 2013 and a volume was devoted to the programme. The book « Infrastructure, Ecosystems and Landscapes – Dangerous Liaisons? » (Land Transport – Infrastructures, Ecosystems and Landscapes – Dangerous Liaisons?), which was published in 2013, aims to present knowledge acquired by the programme, facilitating the programme and disseminating its actions. It gathers representatives of the Ministry programme facilitation and dissemination actions.

**Programme governance**

The ITTECOP programme is managed by two entities: a scientific board and a steering committee. The multidisciplinary scientific board acts as a scientific advisor, proposes call for research proposals, evaluates reports, and carries out programme facilitation and dissemination activities. The steering committee is in charge of defining the programme’s orientation and identifying priority research proposals; in addition to taking part in programme facilitation, evaluation and optimisation actions. It gathers representatives of the Ministry of ecology and representatives of public and private agencies and infrastructure operators.

**ITTECOP in figures**

As part of the European research programmes disclosed in 2010, ITTECOP encourages and supports national research teams in helping European calls for projects.

**Research focuses**

ITTECOP is producing a unique research framework focused on efforts and interactions between landscapes, biodiversity and infrastructures. The programme's challenge is to develop a production research framework in the fields of infrastructures, biodiversity and landscape from initial studies to the transfer of knowledge.

First scientific results

Since ITTECOP was created in 2008, it has supported 28 research projects. Focusing on the relationship between landscapes, ecosystems and infrastructure, the led projects fall under the following areas of research:

- Regional planning: How can new landscape management and land planning concerns be integrated into regional projects? What are the consequences of technical and economic choices in a green, physical, political and social environment? Why and how should stakeholders participate in shaping regional projects?
- Ecosystems and landscapes: How do infrastructures have a transformative and interactive effect on living spaces and natural environments? What conditions are necessary for viable interaction between areas affected by linear transport infrastructure, landscapes and ecosystems? How can infrastructures play a role in the ecological continuity of green and blue belts?
- Prospective analyses and innovation: How can prospective analyses be used in order to incorporate infrastructures into regions and assess its degree of reversibility? What is the future of areas affected by linear transport infrastructure given changing ecological, social and political contexts? How can areas affected by linear transport infrastructure adapt to increasing ecological constraints?

RESEARCH PROJECTS 2012


RESEARCH PROJECTS 2008

- ADER: Environmental welfare, quality of life and land-sensitive relationships. Improving landscape integration and understanding the living environment to improve the social approval of large land-transport infrastructures.
- CNRM: Road infrastructure and landscapes. Methodological research based on the most projects in progress on Corse-pondant côte riviera territory: the case of the roads projected in the Corse-pondant côte. An analysis of the project, the socio-economic, the social and ecological impacts assessment and the design project for sustainable urban planning logical integration of knowledge, social representations and their transformation in the case study of Corse-pondant côte.

ITTECOP anticipates public decision-making needs in the fields of infrastructures, landscapes and biodiversity.

**ITTECOP in figures**

- 10 research projects and 6 exploratory projects
- 16 associated operational projects
- Since 2010, 12 seminars and conferences
- 920 contacts kept up to date with the latest news
- Since 2008, 10 seminars and conferences
- 16 associated operational projects
- 440 contacts kept up to date with the latest news

**Research projects**

**First scientific results**

The book « Infrastructure de transports itératifs, écosystèmes et paysages – Des liaisons dangereuses » (Land Transport Infrastructure, Ecosystems and Landscapes – Dangerous Liaisons?), which was published in 2013, aims to present knowledge acquired by the programme in 2013 and encourage dialogue between researchers, politicians and operators.

- **Research projects**
  - **RESEARCH PROJECTS 2008**
    - ADER: Environmental welfare, quality of life and land-sensitive relationships. Improving landscape integration and understanding the living environment to improve the social approval of large land-transport infrastructures.
    - CNRM: Road infrastructure and landscapes. Methodological research based on the most projects in progress on Corse-pondant côte riviera territory: the case of the roads projected in the Corse-pondant côte. An analysis of the project, the socio-economic, the social and ecological impacts assessment and the design project for sustainable urban planning logical integration of knowledge, social representations and their transformation in the case study of Corse-pondant côte.

**Programme**

**ITTECOP**

**Infrastuctures de transports terrestres, écosystèmes et paysages**

ITTECOP anticipates public decision-making needs in the fields of infrastructures, landscapes and biodiversity.

**ITTECOP**

Programme INFRASTRUCTURES DE TRANSPORTS TERRITOIRES, ÉCOSSISTÈMES ET PAYSAGES

WEB DOCUMENTARY

ITTECOP's website: www.ittecop.fr

The website, which is regularly updated, provides information on our research ( gdb research is online) and the programme.

**Web documentary**

This educational and interactive website documents the programme and its results. It shows viewers a closer look at projects and the programme, and provides easy access to work in progress.

**Contacts**

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- **Scientific institute**
  - Pierre Roux-Dussouy

- **More details on**
  - www.ittecop.fr