



Presentation

Institute for Roads, Streets and Infrastructures for Mobility



Initial context

2004 : Decentralization law

2007 : Grenelle de l'Environnement

2009 : Signature of the Voluntary Commitment Agreement

2010 : Creation of French partnership Institute

IDRRIM

Origin of IDRRIM

Voluntary Commitment Agreement in 2009 : creation of IDRRIM

➤ Objectives of the Agreement :

- Improve the use of recycling materials
- Reduce greenhouse gas emissions and energy consumption
- Development of eco-comparators
- Participate in the development of research project and broadcast innovation
- Recast the national road doctrine

➤ Creation a French partnership Institute

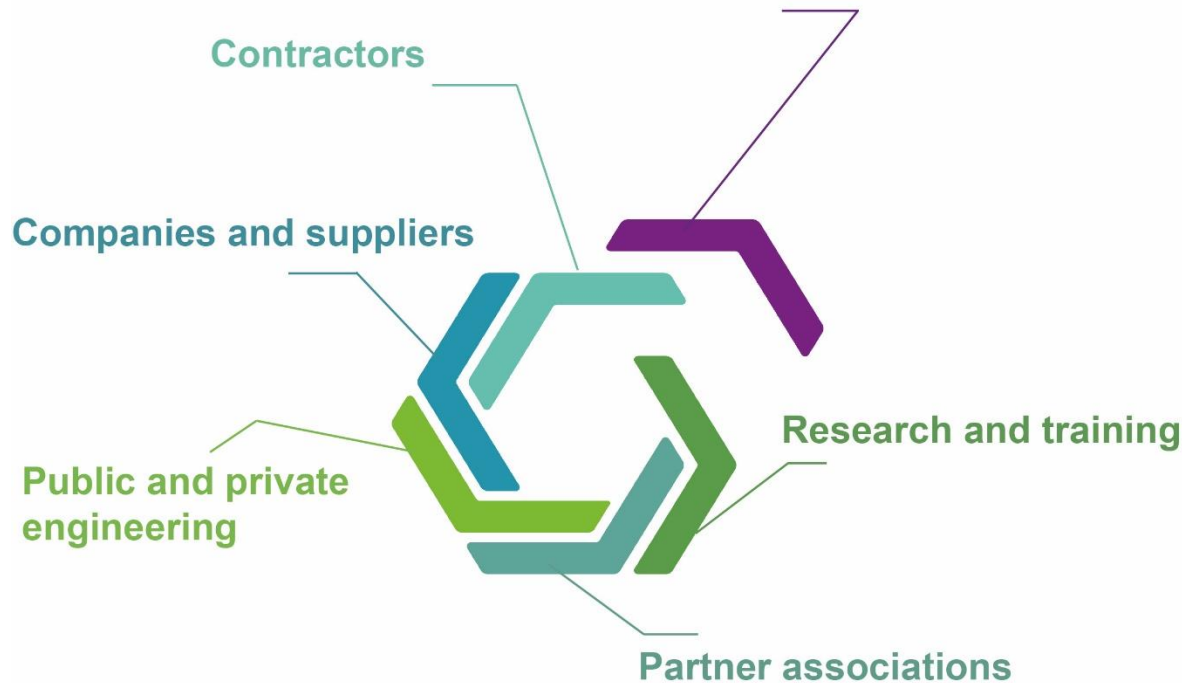
> The IDRRIM's missions

- 1 • Federate and mobilize
- 2 • Establish a sharing reference system
- 3 • Contribute to qualification of all actors
- 4 • Promote the French excellence on mobility infrastructures

IDRRIM's community

Individual members

- Local authorities
- Compagnies
- Engeneering companies
- Individual Engineers



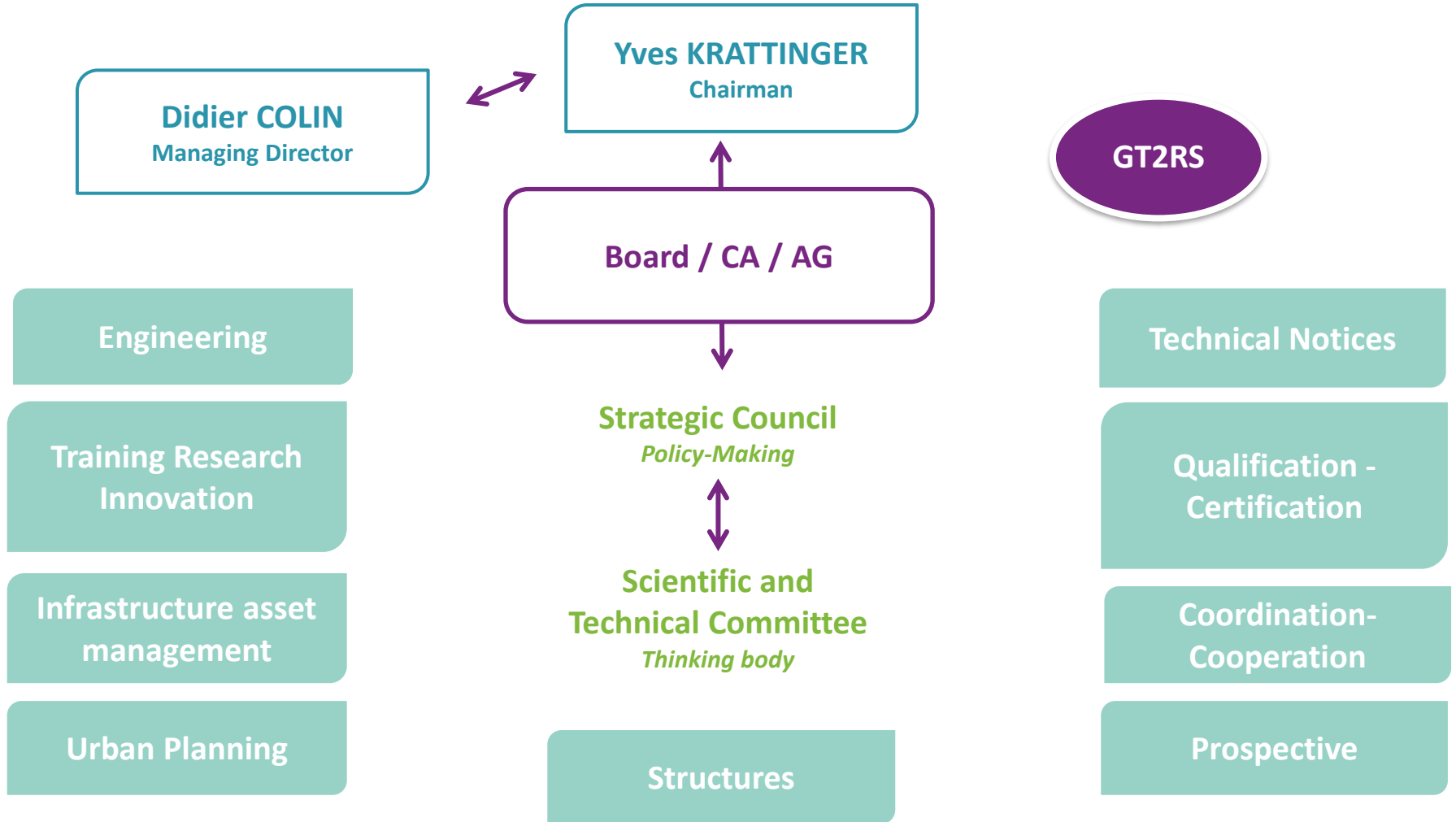
Governance

50 members established in 5 colleges



Organisation

9 operational committees



Key numbers



50 institutional organizations
67 individual members



9 operational committees



1 web site
www.idrrim.com



A monthly newsletter



+ 10 publications per year
200 files online



1 biennial congress
and many more
events



4 operational activities



1 National Road
Observatory



Some working examples

> 4 principal working axes

- ❖ **Infrastructure asset management**
 - ❖ **Adaptation of infrastructures to ecological, climate, energy and digital transitions**
 - ❖ **Quality, skills, qualifications**
 - ❖ **Promoting innovation : experiment, share, capitalize**
- + Transversal actions on prospective, security on construction site
...

> Infrastructures asset management

Report to the decision maker

- **White Paper (2014) : “*Maintaining and preserving transport infrastructures assets : a requirement for France*”**

Document to help building a politic of road’s asset management

- **Guide (2015) “*Management and Maintenance of Urban and Road patrimony – Interurban Roads*”**

A tool for road’s infrastructure asset management

- **National Road Observatory**

› National road observatory



Created in 2016 (7th report in 2022)

2 objectives :

- ❖ Sharing the knowledge to evaluate the efficacy of technical policy for the economic management of roads infrastructure
- ❖ Objectify the state of the road network in order to inform principals on how to optimize their mission efficiency
- ❖ **Panel :**
 - National roads (12 000 km & 18 000 engineering structures)
 - 65 departments (+ 200 000 km & 113 000 engineering structures)

➤ <https://www.idrrim.com/ONR/>

➤ Infrastructures asset management

- Guide “*EPC contracts with guaranteed performance*” – January 2019
- Information Note on “*CapeSeal technic*” – January 2018
- Guide “*Road surface dressing*” – July 2017
- Guide “*Skid resistance of surface layer*” – January 2016
- Guide “*Pavement design for low traffic*”
- Guide “*Construction and maintenance of road equipment*”
- Guide “*Management and Maintenance of Urban and Road patrimony – Urban Roads*”

➤ Adapting infrastructures to the ecological, climate, energy and digital transitions

- **Eco-comparators promotion**
- **Guide “*Preservation of natural environments during the construction phase*” – September 2018**
- **Guide “*Cold-cast bituminous material*” – July 2017**
- **Information note on “*Environmental acceptability of recycling materials*” – April 2017**
- **Guide “*Warm Mix Asphalt*” – November 2015**
- **Guide “*Recycling at medium and strong rate*”**
- **Annual trophies of projects considering environmental, landscape & infrastructure issues**

➤ Quality, skills, qualification

- **Laboroute (IDRRIM Labeling) : 123 accredited laboratories units**
 - ✓ **Contribute to the definition and applying of procedures and standards**
- **Round robin campaigns :**
 - ✓ **Verifying the quality of laboratory infrastructure**
 - ✓ **Evolution of standards, if necessary**
- **Development of specifications for required qualification for an inspector of structures**
- **Guide “*Social clauses in public market*” – February 2019**

➤ Promoting Innovation

- Report on innovation support devices for road infrastructures
- Production and publication of methodological document to incorporate innovation in public procurement
- Support of national innovation programs
- Communication relay (paper writing, technical presentations, IDRRIM website)

➤ Innovation facilities – Main french call for projects on road infrastructure

➤ Comity Innovation Routes et Rues (annual) - Ministry

Axe 1 : Construction and maintenance of roads and streets asset ;

Axe 2 : Preservation and modernization of existing structures;

Axe 3 : Optimized use and management of transport infrastructure in urban and interurban areas, tools and equipment for intelligent transport systems;

Axe 4 : Preservation of biodiversity and water quality.

➤ Investment Program of the future “Road of future”(2016) - ADEME

Axe 1 : Green construction and maintenance ;

Axe 2 : Integration into production / energy storage / distribution chains ;

Axe 3 : Construction / maintenance / operation integrated optimization ;

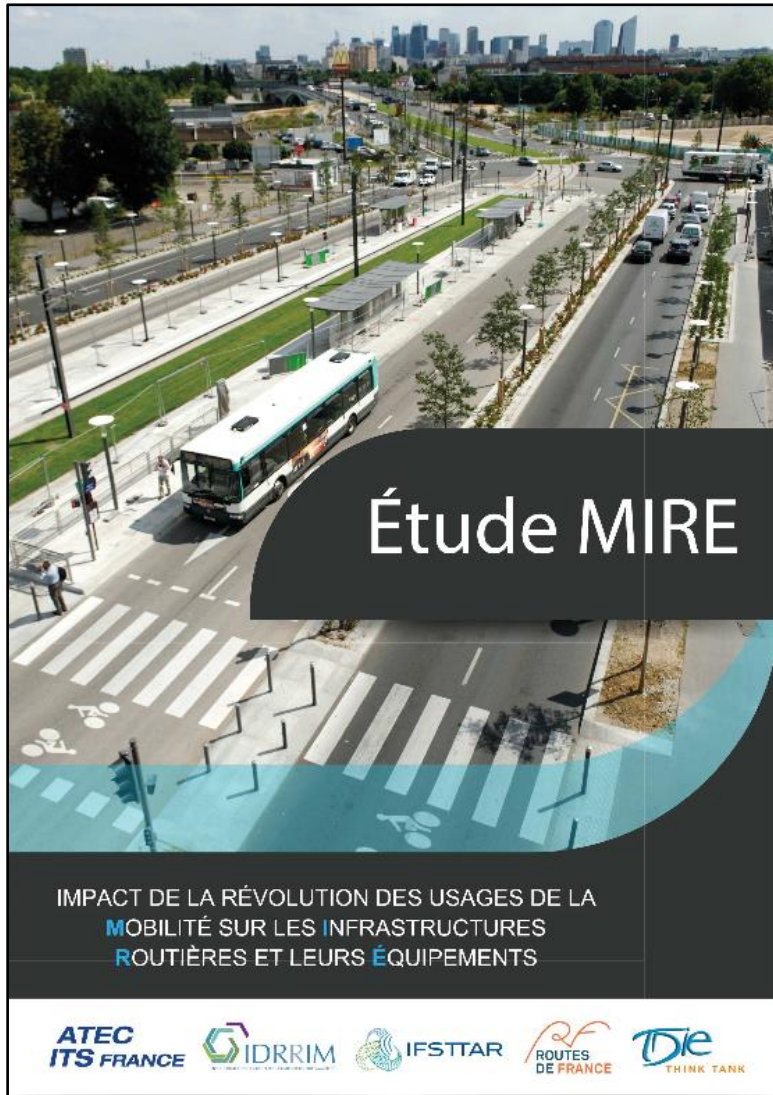
Axe 4 : Intelligent transportation systems,

› Innovation in road infrastructures



Find all informations about innovation
in road infrastructures in France at :
<https://www.idrrim.com/Innovation/>

➤ Actions on prospective



Impacts of the revolution of the uses of the Mobility on the Road Infrastructures and their Equipments

- Publication in March 2019
- ❖ Resulting from a collective reflexion
- ❖ Three notes of problematics :
 - Road and connected, cooperative and autonomous vehicle
 - Road and energetic and ecologic transition
 - Road and numeric transition
- ❖ Orientations for the future

➤ A new roadmap for IDRRIM



FEUILLE DE ROUTE

2019 - 2025

Validée en Assemblée générale le 4 juin 2019

- A. Reaffirm the missions of the IDRRIM
- B. Strengthen the visibility of IDRRIM
- C. Update our working axes
- D. The application of these axes in our working organization
- E. The implementation of this roadmap
 - A new political commitment to build
 - An application to be implemented for the 10 years of the Institute and our next congress in 2020

**Thank you for your
attention**

