Presentation
Institute of 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
  - Engineering companies
  - Individual Engineers

- Contractors

- Companies and suppliers

- Public and private engineering

- Research and training

- Partner associations

- 50 Institutional organizations
- 67 Individual members
- 13 Ambassadors
Governance

50 members established in 5 colleges

Yves KRATTINGER
Chairman

Strategic Council
Policy-making

Scientific and Technical Committee
Thinking body

Operational Committees

Public and Private Engineering

Partner associations

Research and Training

David ZAMBON
Managing Director

Contractors

Companies and suppliers
Organisation

9 operational committees

David ZAMBON
Managing Director

Yves KRATTINGER
Chairman

Board / CA / AG

Strategic Council
Policy-Making

Scientific and Technical Committee
Thinking body

Structures

GT2RS

Technical Notices
Qualification - Certification
Coordination - Cooperation
Prospective

Engineering
Training Research Innovation
Infrastructure asset management
Urban Planning
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
- 4 operational activities
- 1 biennial congress and many more events
- 1 National Road Observatory
- 1 National Road Observatory
Some working examples
4 principal working axes

- Infrastructure asset management
- Adaptation of infrastructures to ecological, climatic, energy and digital transitions
- Quality, skills, qualifications
- Promoting innovation: experimentations, sharing, 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


A tool for road’s infrastructure asset management

• National Road Observatory
National road observatory

Create in 2016 (2\textsuperscript{nd} report in 2018)

2 objectives:

- Sharing the knowledge to evaluate the technical policy's efficacy for an economic management of roads infrastructure
- Objectify the state of road network in order to inform principals on how 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 “Pavement design for low traffic” – in progress

➢ Guide “Construction and maintenance of road equipment” – in progress

➢ Guide “Management and Maintenance of Urban and Road patrimony – Urban Roads” – in progress
Adaptation of infrastructures to ecological, climatic, 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 “Recycling at medium rate”* – in progress

➢ 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

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