

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

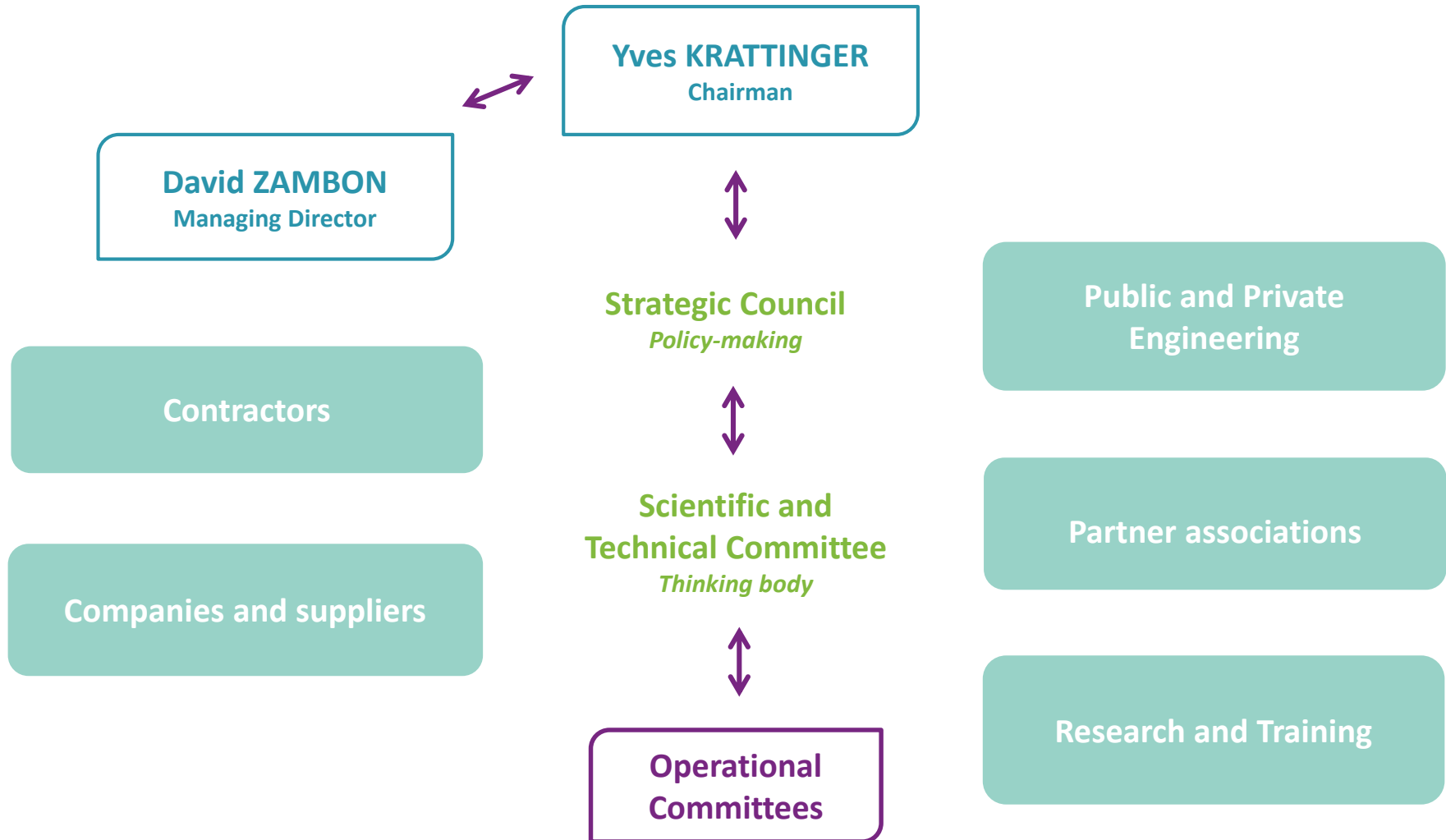
Individual members

- Local authorities
- Compagnies
- Engeneering companies
- Individual Engineers



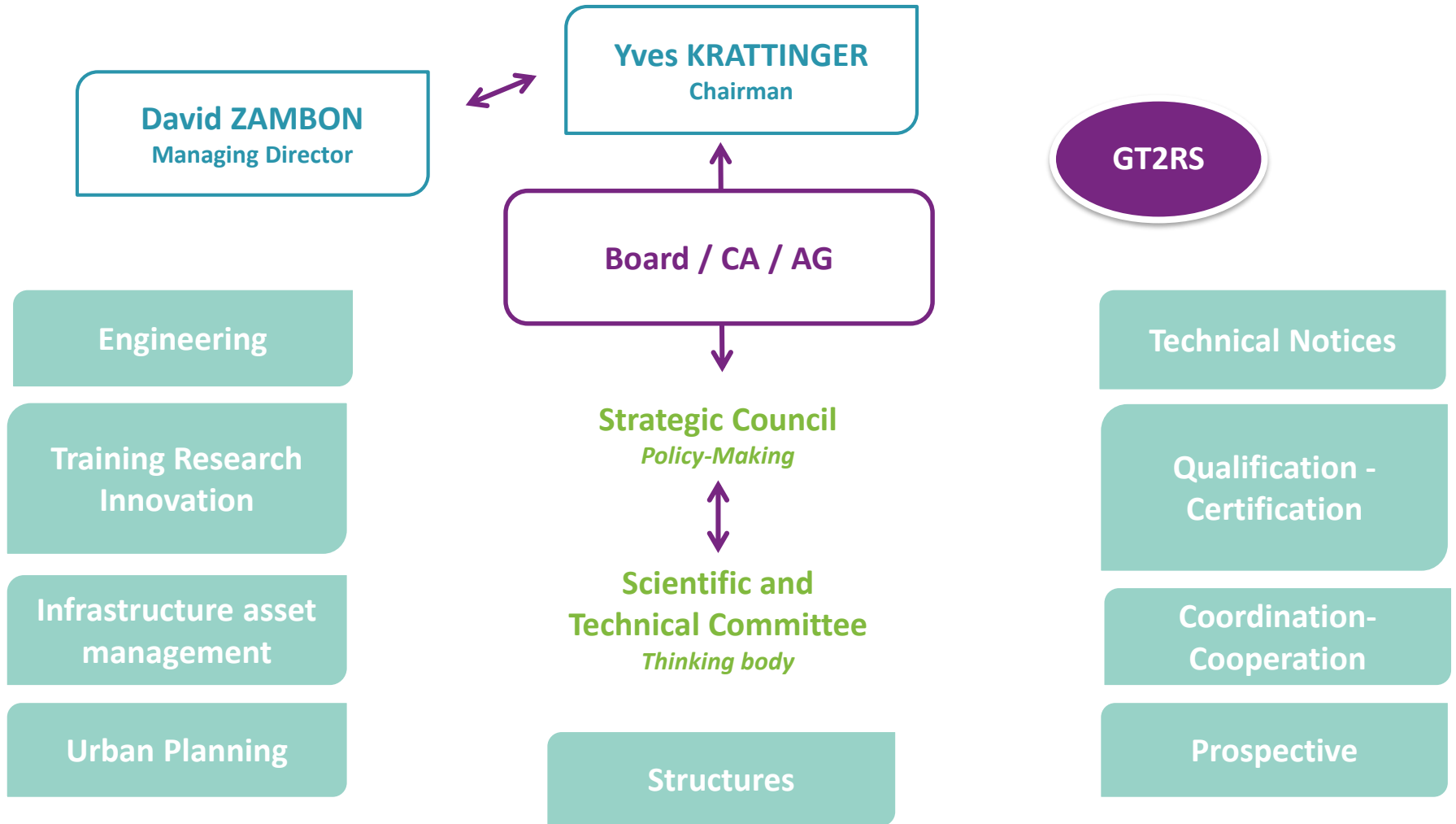
Governance

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, 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”*

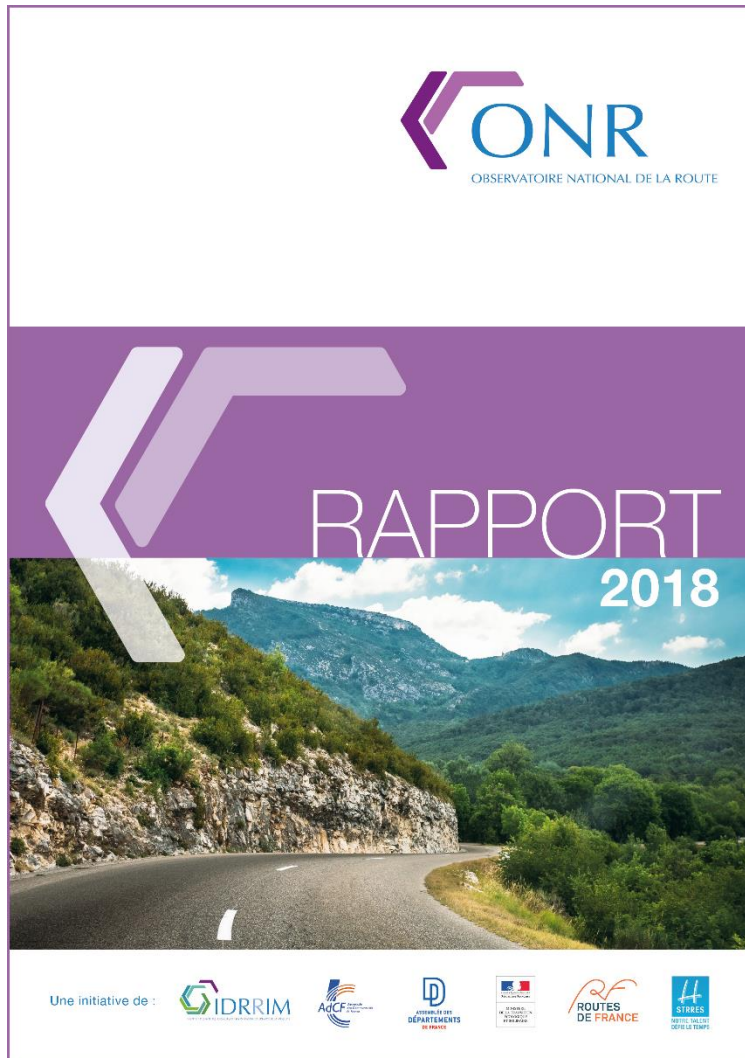
Document to help building a politic of road's asset management

- 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



Create in 2016 (2nd report in 2018)

2 objectives :

- ❖ Sharing the knowledge to evaluate the technical politic's efficacy for a 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 “*Skid resistance of surface layer*”** – *January 2016*
- **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 “Warm Mix Asphalt” – November 2015***
- ***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

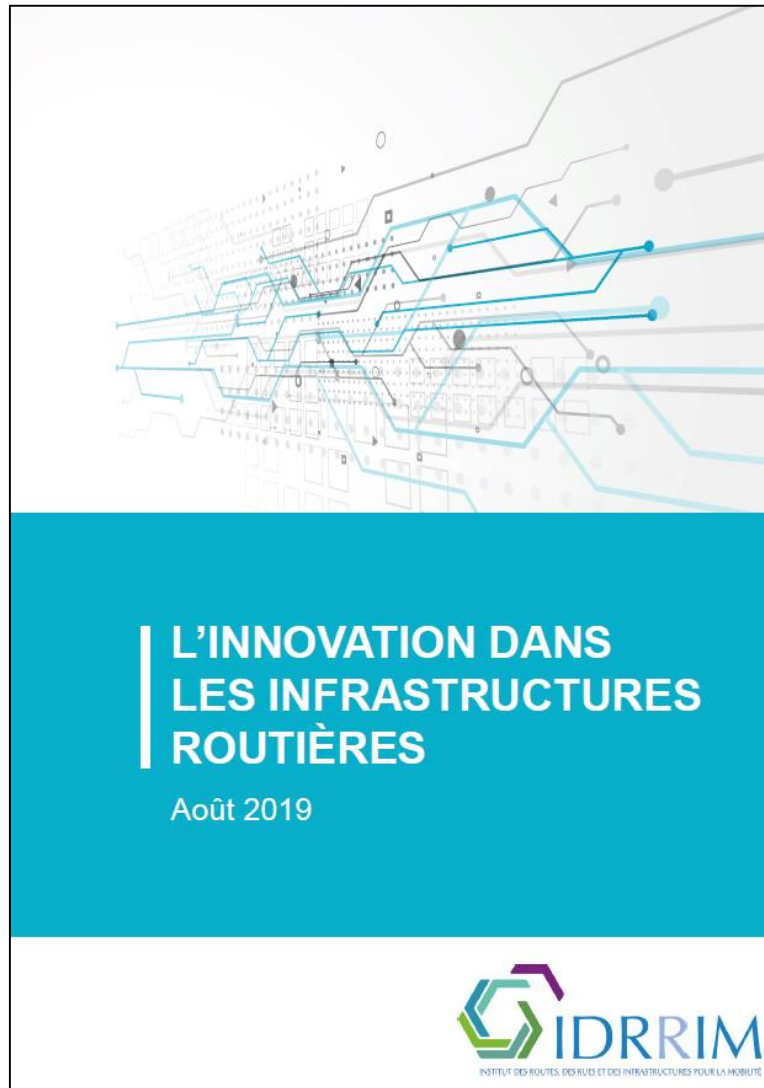
Axe 1 : Green construction and maintenance ;

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

Axe 3 : Construction / maintenance / operation integrated optimization ;

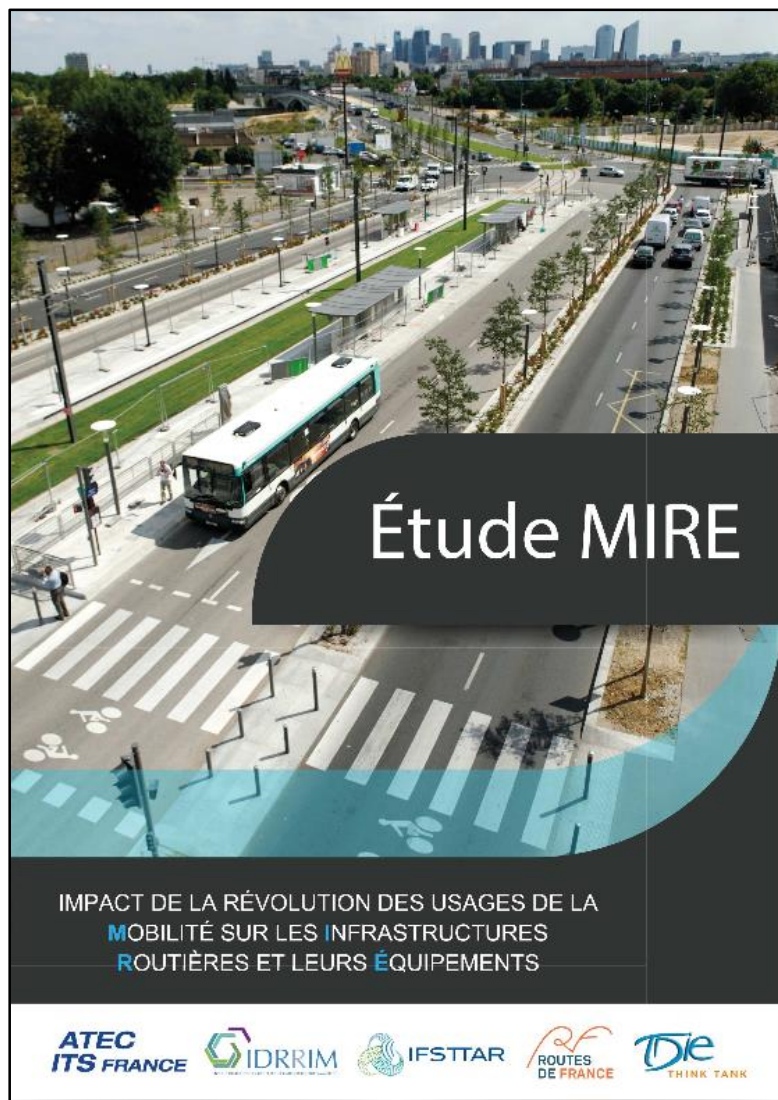
Axe 4 : Intelligent transportation systems,

➤ 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
- <https://www.idrrim.com/actualites-presse/2019-03-20,6607.htm>

➤ 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**

