



INTERNATIONAL UNION  
OF RAILWAYS

*unity, solidarity, universality*

# Mission of UIC In High Speed Development

Warsaw, 25th february 2014

*Michel Leboeuf*

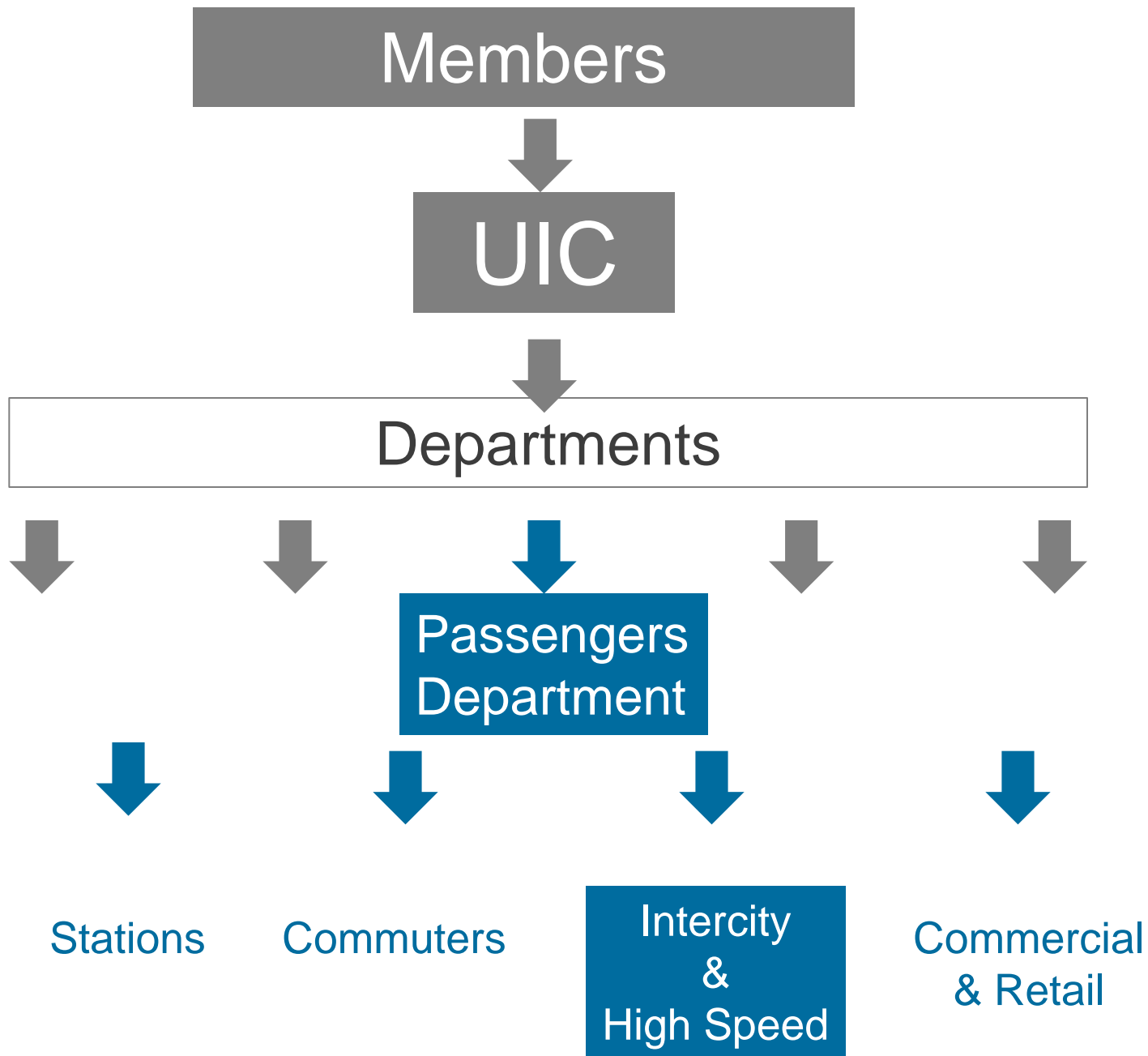
*Chairman*

*Intercity & HS Committee, UIC*

*And*

*Scientific Director for UIC High Speed World Congress*

# The Intercity & High Speed Committee's organization and functioning



# UIC – Intercity & High Speed

Working group in activity since 1995

Studies on strategic issues

[www.uic.org/highspeed](http://www.uic.org/highspeed)

High Speed:

- Systems in operation
- Future developments



# The Intercity & High Speed Committee's mission

## 2 plenary meetings a year

- Keeping a close relationship between members
- Giving the opportunity to know each other better
- Delivering the final statistics and maps about I&HS
- Creating a frame for best practices exchanges
- Favorising rail standards and norms
- Enhancing rail research
- Initiating co-operation with other bodies
- Promoting I&HS business
- Lobbying in favor of I&HS activities

# Intercity & High Speed Committee

2 plenary meetings a year

+

Permanent  
basis  
in Paris

Technical  
meetings

World  
High  
Speed  
Congress

Training  
Sessions

Workshops

On-  
demand  
activities

# Intercity & High Speed Committee

## 2 plenary meetings a year

+

Permanent  
basis  
in Paris

- Statistics and maps about HS lines
- Statistics about HS rolling stock
- Library of reports and handbooks
- Contact network



## 2 plenary meetings a year

+

Technical  
meetings

- *Researches*  
(optimal speed,  
track access charges,  
operations under  
extreme climate conditions, ...)
- *Exchanges of best practices*  
(handbooks for HS lines  
and conventional lines)
-

# UIC – Intercity & High Speed

Some examples of recent reports:

- High speed and the City
- High speed and territory management
- High speed contribution to sustainable mobility  
(including a specific report on Carbon balance)
- **High speed handbook**
- Handbook for Optimisation of Time Travel on Conventional Lines
- High speed under extreme natural conditions
- Optimal speed on high speed systems
- Infrastructure cost for Intercity & High speed services
- Night trains
- ...

Full Library of studies & reports available in our website:

[www.uic.org/highspeed](http://www.uic.org/highspeed)

# High Speed Handbook



[www.uic.org](http://www.uic.org)

High Speed Railway System Implementation Handbook

Introduction - Stages

Summary of the objectives of each stage

Stage	Title	Objectives
0	EMERGENCE	To give the development of high speeds on a network every chance of success by confirming the advisability of embarking on a project.
1	1.1. RIDERSHIP FORECASTING AND TRANSPORT SERVICES DELIVERY	To estimate future demand for each of the alternatives corridor, from a transport demand model that represents the current mobility.
	1.2. PLANNING AND MASTER PLAN	To develop the first approach of the corridors for the new High Speed System and a first cost estimation.
2	FEASIBILITY STUDIES	To identify the most effective high speed rail options, with the level of patronage that would be compatible with an economically, competitive and viable project with feasible technology.
3	ENVIRONMENTAL ASSESSMENT	To make allowance for environmental issues as a key factor in project design and to prepare an environmental management plan.
4	FINANCIAL & ECONOMIC ANALYSIS	To estimate the profitability of the project to assess if it needs financial support (Financial Analysis). To estimate the profitability of the project to assess if the society is better off with the project (Economic Analysis).
5	MULTICRITERIA ANALYSIS	To contribute to the choice of a solution that reconciles the various requirements on the basis of shared criteria.
6	PRELIMINARY DESIGN	To create the high-level design project.

Phase	Stages
Study phase	<ul style="list-style-type: none"> <li>Stage 1. Feasibility Studies</li> <li>Stage 2. Feasibility Studies</li> <li>Stage 3. Environmental Assessment</li> <li>Stage 4. Financial &amp; Economic Analysis</li> <li>Stage 5. Multicriteria Analysis</li> <li>Stage 6. Preliminary Design</li> <li>Stage 7. Empowerment</li> </ul>
Design phase	<ul style="list-style-type: none"> <li>Stage 8. Operation and Maintenance Planning</li> <li>Stage 9. Detailed design (including empowerment to continue)</li> </ul>
Construction phase	<ul style="list-style-type: none"> <li>Stage 10. Construction Planning</li> <li>Stage 11. Construction</li> <li>Stage 12. Testing &amp; Commissioning (including authorization to open to revenue service)</li> </ul>
Operation phase	<ul style="list-style-type: none"> <li>Stage 13. Operation and Maintenance</li> <li>Stage 14. Ex-post evaluation</li> </ul>

# Intercity & High Speed Committee

2 plenary meetings a year

+

- *Mostly every 2 years:*

- *2008 Amsterdam*
- *2010 Beijing*
- *2012 Philadelphia*
- *2015 Tokyo*

World  
High  
Speed  
Congress

- *Organizing committee*
- *Scientific Committee*  
involving the greeting country

# World Congress on HS Rail WCHS



**TOKYO 2015**  
**HIGHSPEED**  
9th World Congress on High Speed Rail



July 2015 in Tokyo, Japan  
Organized by the UIC & East Japan Rail

## 2 plenary meetings a year

+

- *Regular annual*
- *1-week session in Paris*
- *in May/June*
- *level 1*
  
- *+ At demand*
- *level 2 sessions*
- *with study cases*

Training  
Sessions

# Training on High Speed Systems

## THSS Basic

**10<sup>th</sup> edition - June 2014, Paris**

One week (5 days) Training Seminar, in which all the elements involved in a high speed system are analysed.



## THSS Advanced

**2<sup>nd</sup> edition - March 2014, Spain**

One week (5 days) Training Seminar, focused on strategic aspects in a high speed system: traffic forecasting, station policy, environment, financing, etc.

Practical cases discussion.

Technical visits

[www.uic.org/highspeed](http://www.uic.org/highspeed)

## 2 plenary meetings a year

+

- *Geographical workshops*  
(Ankara, London, Warsaw, ...)
- *Technical workshops*  
(Security- Marocco  
(Maintenance – Seoul + Taiwan, ...)

Workshops



2 plenary meetings a year

+

- *Example:  
Review of Operating and maintenance costs  
for the Californian HS project*

On-  
demand  
activities

Intercity  
&  
High Speed  
Committee

is at the disposal of its members!

***Thank you for your attention***