



Introduction to the Practicum on High Speed Rail Systems

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unity, solidarity, universality

The UIC

Union Internationale des Chemins de Fer
The International Union of Railways



What is the UIC?

A professional organization serving the needs of rail transport through international cooperation at the global level

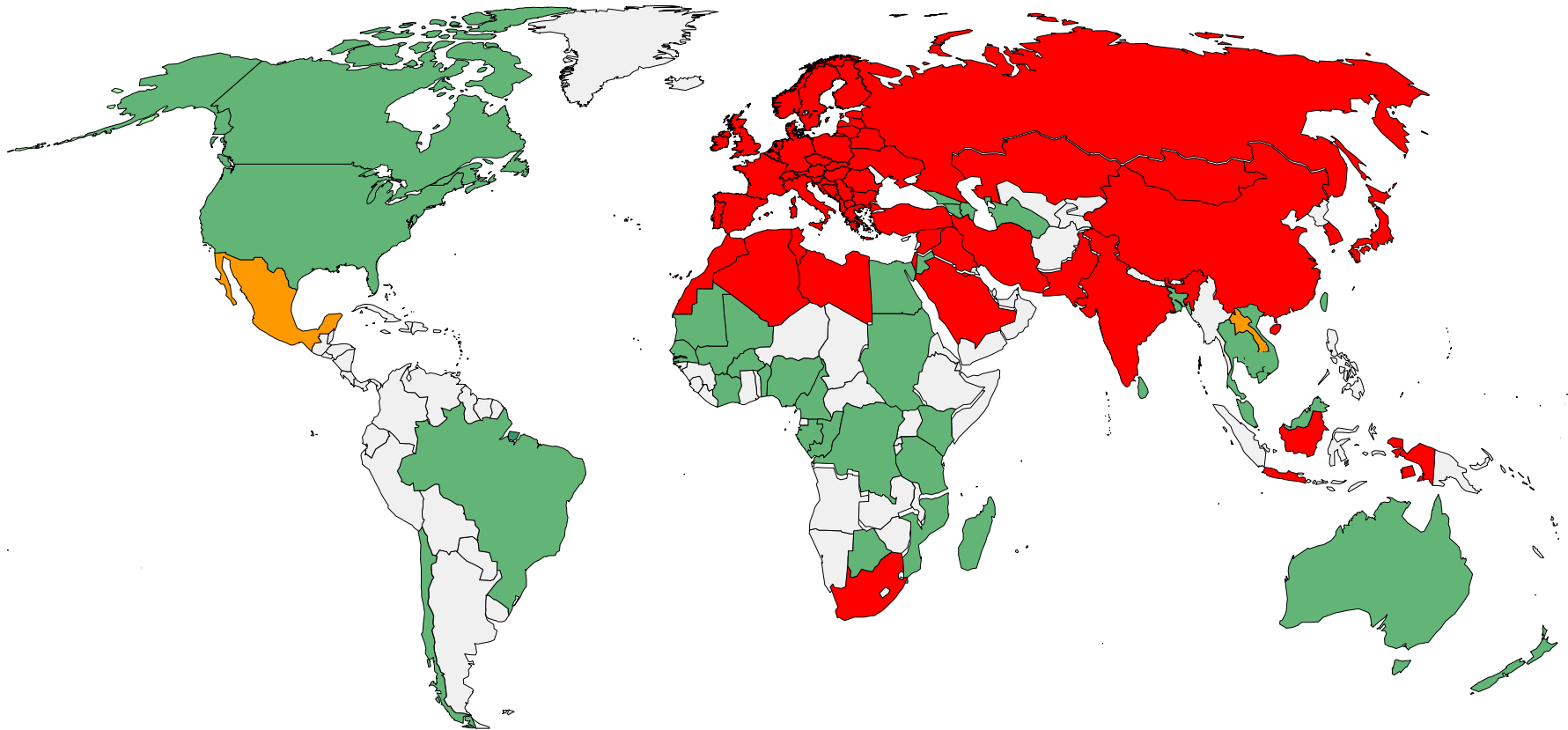
The UIC represents more than 200 world-wide members (active, associate and affiliate)

Members are railways, rail operators, infrastructure managers, railway service providers and public transport companies





The UIC in 2011



Members ■ **Active** ■ **Associate** ■ **Affiliate**



UIC Mission

Promoting the development of rail transport
at world level,
in order to meet the challenges
of mobility and sustainable development

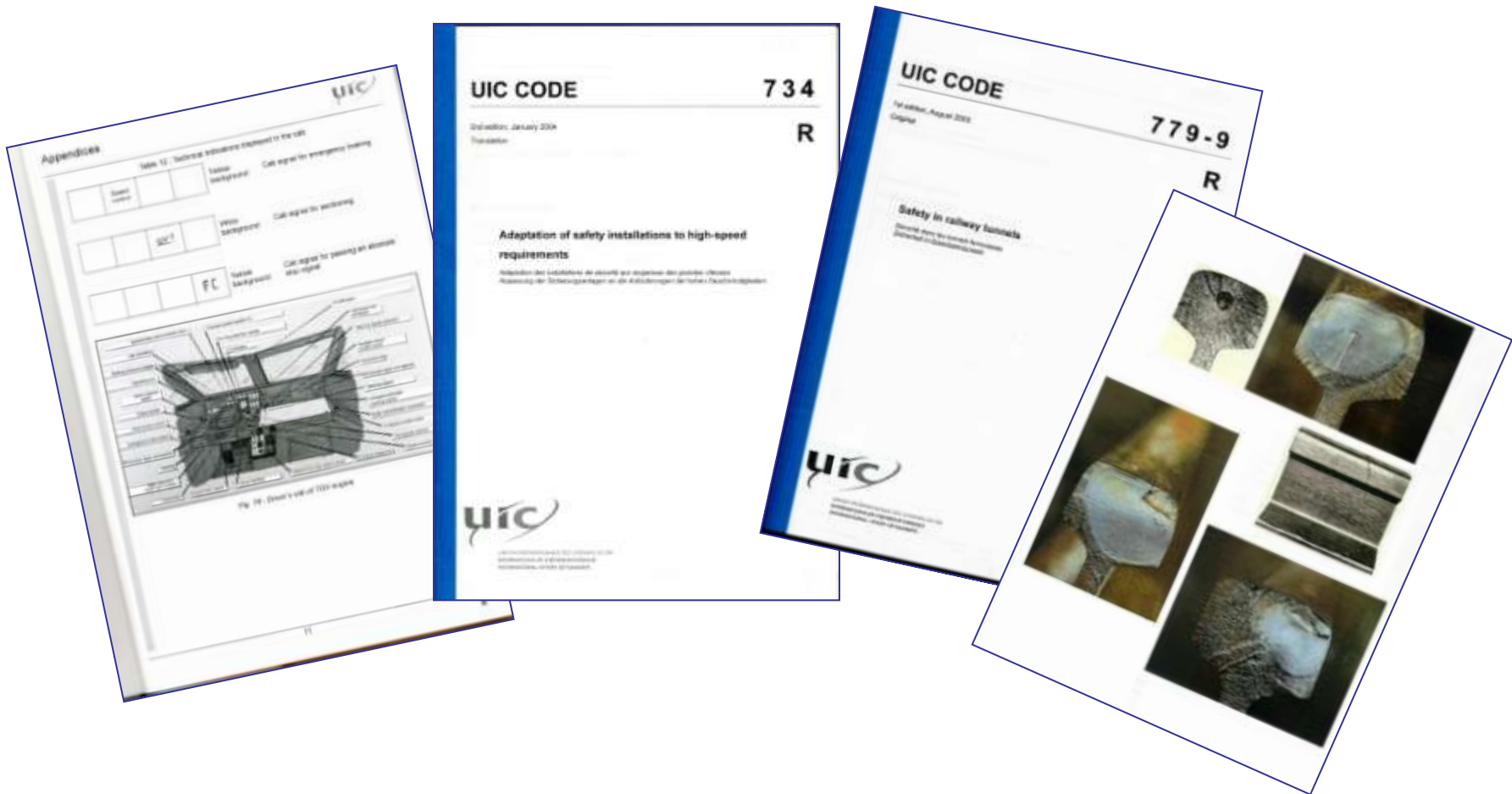


UIC Objectives

- Facilitate *exchange on best practices* among members (benchmarking)
 - Support members in their efforts to develop *new business*
 - Propose new ways for *improving economic performance* of railways
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- Achieve *interoperability*, create *new world standards* for railways (including common standards with other modes)
 - Develop *Centers of Competence* (High Speed, Safety, Security, e-Business, ...)

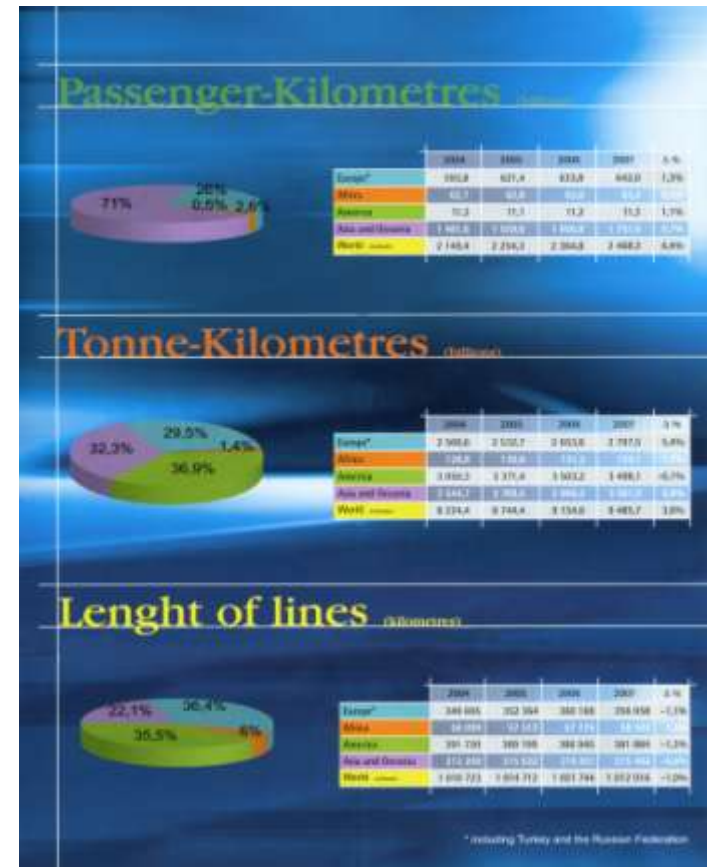


UIC "products": Leaflets





UIC "products": Railway statistics





UIC "products": Reports





2011 International Practicum on Implementing High-Speed Rail in the United States



AMERICAN
PUBLIC
TRANSPORTATION
ASSOCIATION



INTERNATIONAL UNION
OF RAILWAYS

Track 101





High speed rail activity at the UIC



High speed at the UIC

Main objectives:

- Co-ordinate high speed activities of UIC members and solve common problems
- Contribute to the (“logical”) development of high speed rail systems around the world



UIC High Speed activities

Permanent activities:

- Updating data bases: lines, rolling stock, traffic, etc.
- World high speed maps
- “Benchmarking” and other working teams
- Communications and contacts
- Website
- High speed brochure and other publications



UIC High Speed Reports





UIC High Speed activities

Ongoing studies:

- Study on high speed under extreme weather conditions
- Necessities for future high speed rolling stock
- “High speed handbook”
- High speed contribution to sustainable mobility
- High speed and the city
- High speed and territory management
- Maintenance of high speed lines



UIC High Speed activities

Completed studies:

- Reduction of time travel on classic lines
- Tilting trains
- Mixed traffic on high speed lines
- Design of lines for speeds of 190-220 mph (300-350 km/h)
- Approval of new high speed lines
- High speed rail facing “low cost” competition
- Infrastructure charges for high speed services in Europe
- Modeling of regional traffic on high speed international lines
- ...

You can find all these reports on the UIC-High Speed website:

www.uic.org/highspeed



World Congress on High Speed Rail

7th: 7 – 9 December 2010, CNCC – Beijing



Beijing 2010

HIGHSPEED

7th World Congress on High Speed Rail
第七屆世界高速鐵路大會

High Speed Rail Spearheading Greener Transport

Organized by UIC & MOR - CARS



8th World Congress on High Speed Rail

11 – 13 July 2012, Philadelphia – USA



Organized by UIC & APTA



Please visit UIC-High Speed web site:

<http://www.uic.org/spip.php?rubrique865>

<http://www.uic.org>



Training on high speed systems

Practicum on high speed systems



UIC Training on High Speed Systems

Main idea of the Training: sharing experiences,
because:

- High speed is a system including a lot of elements
- All railroads in the world are equals but different
- UIC as a “club” to give solutions and contacts

Objective: review all the elements involved in a high speed system



UIC Training on High Speed Systems

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

8th THSS: September 2011
Paris, UIC-HQ





Practicum on high speed systems

2011 Two tracks:

- 101: Basic curriculum
- 201: Advanced program for 2010 Practicum attendees



Practicum on high speed systems

Track 101:

7 modules (2 common with Track 201):

Technical elements (Infrastructure, Rolling stock, Operations). Each one:

- Basic presentation (Europe)
- Complementary information Asia (Japan)
- Complementary vision from USA

Commercial, Economical & Financial



Practicum on high speed systems

Track 201:

7 modules (2 common with Track 101)

- Focus on most strategic elements (environment, standards, traffic forecasting, stations)
- Practical cases



Practicum on high speed systems

Training:

- Hard program
- Not necessary to have previous knowledge
- You will not become an expert on high speed
- But you'll get a complete and global vision (objective)
- Check list of elements for a High Speed project
- Recommended to participate in all sessions
- Logistics (APTA)



Practicum on high speed systems

Speakers (“teachers”):

- Professionals
- From countries having experiences on high speed
- Geographically balanced
- Learn and teach: sharing experiences
- Interaction
- No one has English as mother language



General

