



INTERNATIONAL UNION
OF RAILWAYS

unity, solidarity, universality

UIC/ UNIFE Technical Recommendations (TecRec)

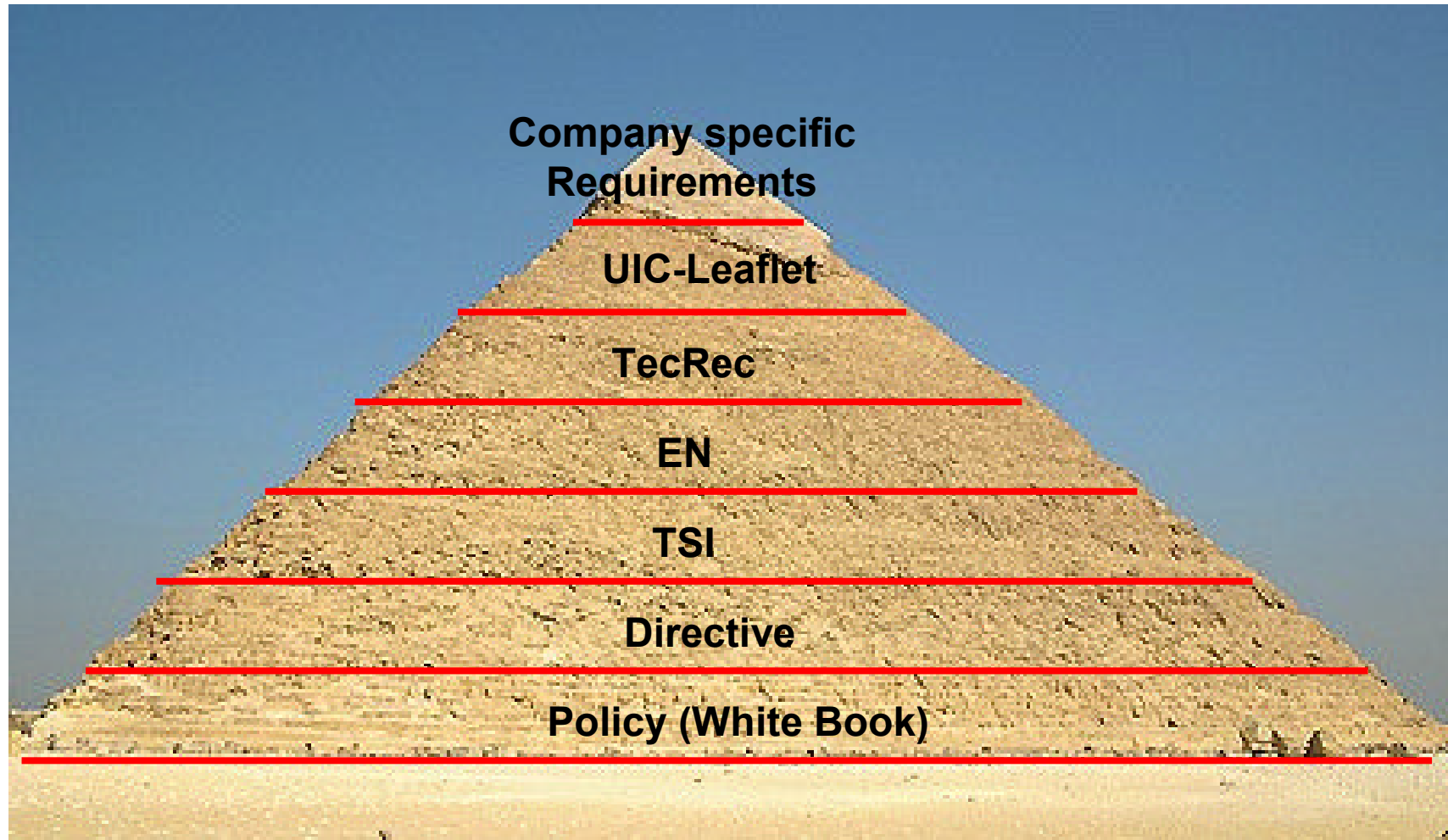
An Introduction and Overview

*Enno Wiebe, Manager Research Projects
and Programmes, UIC*

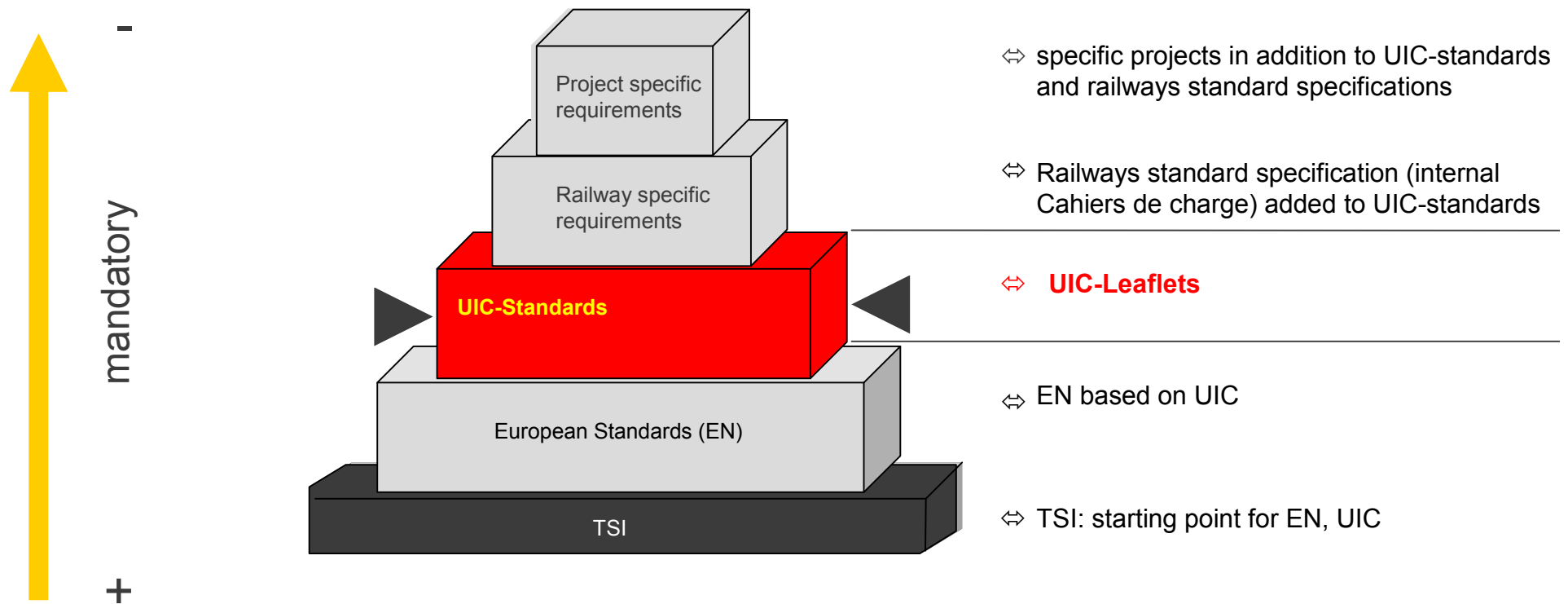
European Standardisation and Regulation



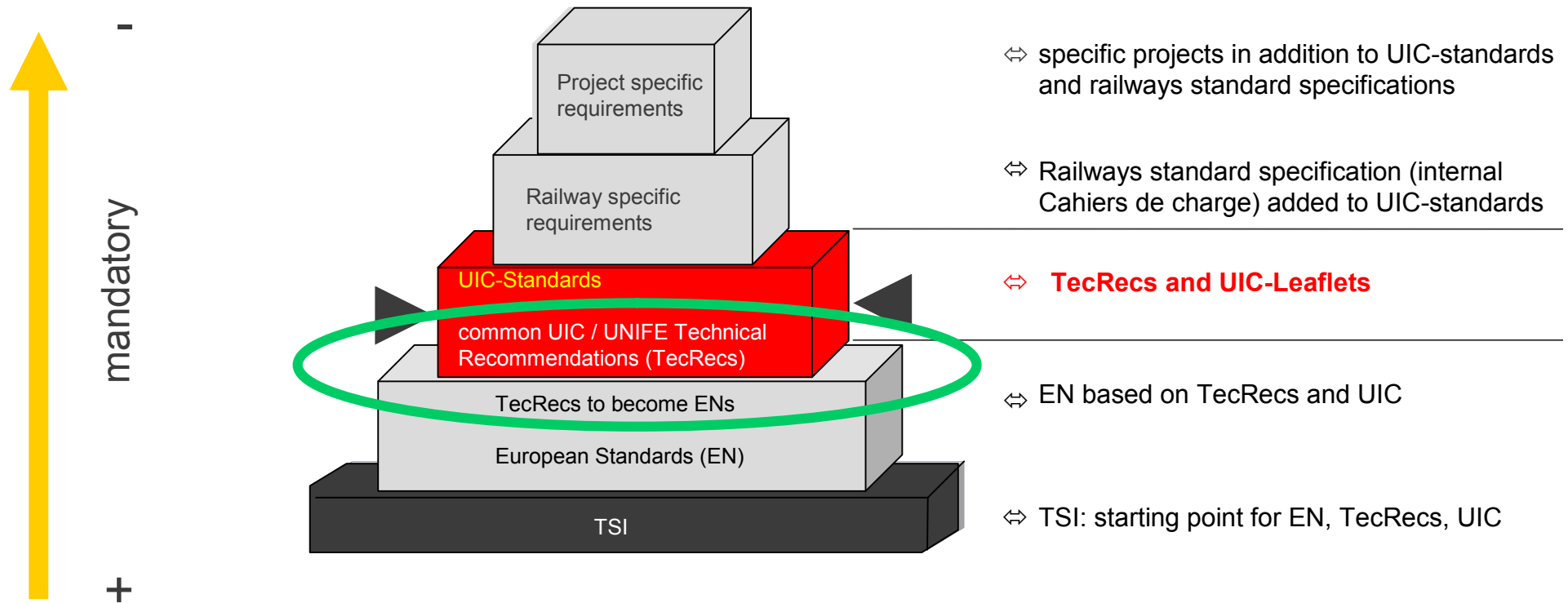
European Standardisation and Regulation in the Rail Sector



The Situation before (Standardisation)



The current situation (Standardisation)



What is a TecRec?

- > UIC/UNIFE standard designed to be used within the European region (**voluntary standard**)
- > primary field of application is the European rolling stock domain and all associated interfaces with other subsystems
 1. Product and interface standards such as standardisation of component interfaces
 2. Publication of results of common research programs or projects/studies undertaken by either UIC or UNIFE
 3. Acceleration of and better influence over the European standardisation process
- > **All TecRecs are public documents and free of charge**

Existing TecRecs

- > **Specification and verification of energy consumption for railway rolling stock”**



- > **“Driver Machine Interfaces in the scope of TSI High Speed and Conventional Rail”**

Existing TecRecs I/II



- > **Specification and verification of energy consumption for railway rolling stock”**
- > **critterion for the energy consumption of rolling stock is the total net energy consumed – either at pantograph or from the fuel tank – over a predefined service profile**
- > **either taken from the future operation of the train, or according to a standardised typical profile valid for the specific service category of trains**
- > **framework that will enable to generate comparable energy performance values for trains and locomotives on a common basis**
- > **support benchmarking and improvement of the energy efficiency of rail vehicles**

Existing TecRecs II/II



- > Specification and verification of energy consumption for railway rolling stock”**

This TecRec does/is not

- > Allow the comparison of energy consumption with other modes of transportation**
- > or even for comparison between diesel and electric traction**
- > Suitable for the evaluation of the carbon foot print of the railways transportation system**

“Specification and verification of energy consumption for railway rolling stock”

Questions for the operators:

Which railway companies are planning to buy or renew their rolling stock in the next period?

Please could you request the TecRec 100_001 to be used?

Could the companies report on their experiences with the application of the TecRec 100_001?

- > UIC would compile a list of potential users to increase the knowledge exchange**
- > A revision workshop for the TecRec 100_001 is foreseen for Spring 2011 – more information will be announced!**

The 2010 TecRec Work Programme

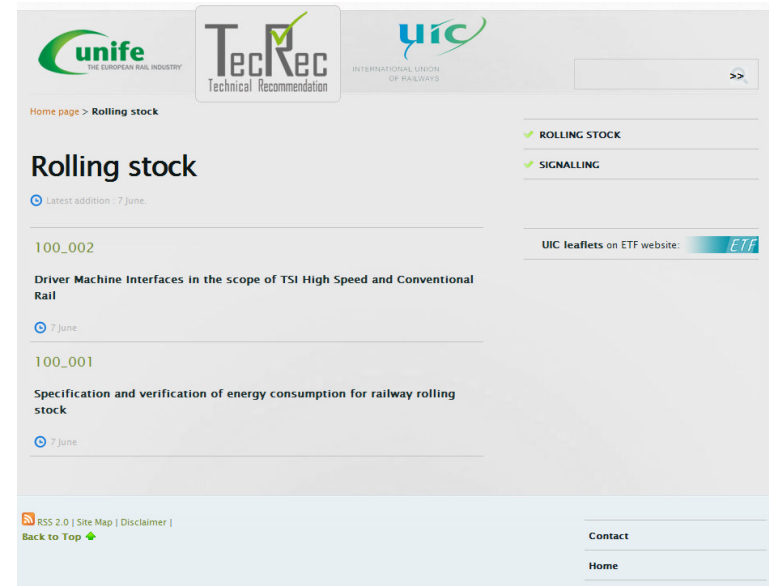
- Brake components for conventional rolling stock
- Passenger doors push button
- **Railenergy “Specification for a reversible DC substation”**
- Rail grades selection criteria
- Air supply & air treatment



UIC/UNIFE TecRec Website



- > www.tecrec-rail.org
- > All published TecRecs are available on the website
- > All information and documents are free of charge!
- > Currently: Rolling Stock only!
- > More TecRecs to be added soon!



Railenergy Events



- > End August Draft “Strategic Assessment Reports” to be circulated to UIC & UNIFE members
- > September 8th **Strategic Assessment Workshop for UIC & UNIFE members (Brussels)**
- > September 22-24th Presentation at Innotrans (UNIFE stand)
- > Early November Railenergy website launch
- > November 25th **Final Conference - open for all (Brussels)**

www.tecrec-rail.org

■ ■ ■ Thank you for your kind attention

*Enno Wiebe, Manager Research Project
Programmes, UIC*

