



The Railway Safety Directive

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A system approach

- Safety directive deals with system aspects
 - ✓ Role and responsibilities of the actors, regulatory structure, safety levels and methods

- Interoperability directives deal with subsystem aspects
 - ✓ Rolling stock, operational rules, staff requirements, signalling, infrastructure, etc.





Directive n° 2004/49/EC on railway safety

- **The safety regulatory structure**
- **A common approach to safety**
- **Transparency in safety regulation**
- **Investigation of accidents and incidents**





The regulatory structure

- **Establishing authorities for regulation and supervision of safety**

 - **Defining role and responsibilities of the actors**
 - ✓ **Infrastructure managers**

 - ✓ **Railway undertakings**

 - **Publication of national rules for safety certification**
-





Safety authority tasks

- **Market surveillance and authorisations of placing in service under the interoperability directives**
- **Safety certification of IM and RUs**
- **Developing/enforcing safety rules**
- **Vehicle Registration**
- **Cooperation with other NSA**





A common approach to safety

- **Common Safety Indicators(CSI), Common Safety Methods (CSM), Common Safety Targets (CST)**

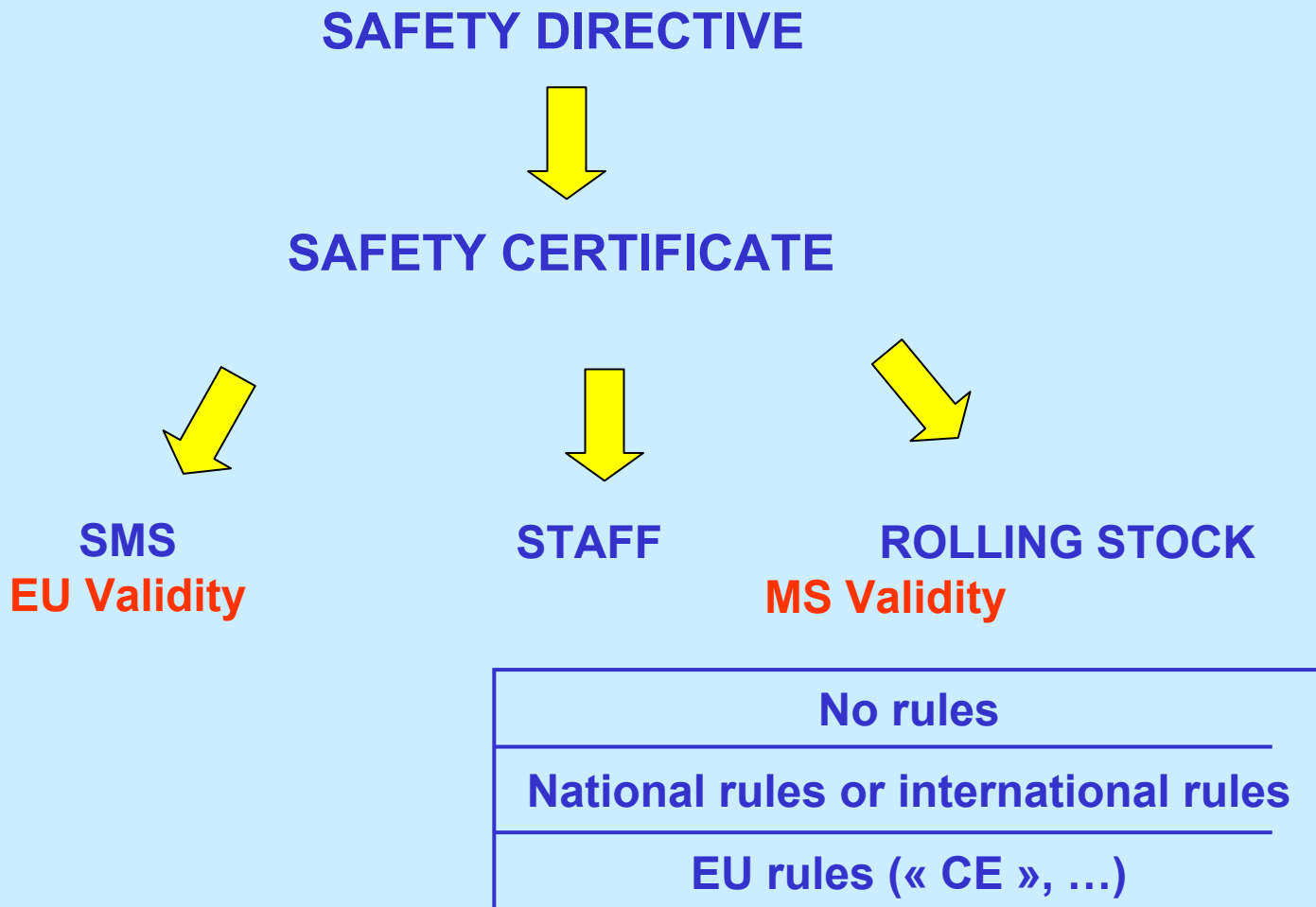
- **New provisions for safety certification**
 - ✓ **a Community valid part: the SMS**
 - ✓ **a national part, but harmonisation of requirements by 2009**

- ✓ **Requirements on Safety Management Systems (SMS)**





Safety certification of RUs and IMs





Common Safety Indicators

- **Not defined but explicitly listed in Annex I**
- **Example:**
- **Total and relative (to train kilometres) number of accidents and a break-down on the following types of accidents:**
 - ✓ collisions of trains, including collisions with obstacles within the clearance gauge,
 - ✓ derailments of trains,
 - ✓ level-crossing accidents, including accidents involving pedestrians at level-crossings,





Common Safety Targets

- means the safety levels that must at least be reached by different parts of the rail system (**such as the conventional rail system, the high speed rail system, long railway tunnels or lines solely used for freight transport**) and by the system as a whole, expressed in risk acceptance criteria;





Common Safety Methods

- means the methods to be developed to describe how safety levels and achievement of safety targets and compliance with other safety requirements are assessed;





From CSI to CST

**Collecting Informations
CSI**

From 2006



by 2008

Development of CSM

by 2010



by 2009

Development of CST

by 2011





Transparency

- **Publication of national rules by 1st of May 2005**
- **Rules for decision making by safety authorities**
- **Availability of information**
 - ✓ **Common safety indicators (CSI)**
 - ✓ **Data on accidents and incidents**
- **Annual reports with data on the development of railway safety**





Accident investigation

- **Safety investigation of significant occurrences**
 - ✓ Serious accidents
 - ✓ Other important incidents
- **Creation of permanent, independent, bodies for accident investigation**
- **Investigation procedure**
- **Availability and exchange of information**
- **Follow-up of safety recommendations**





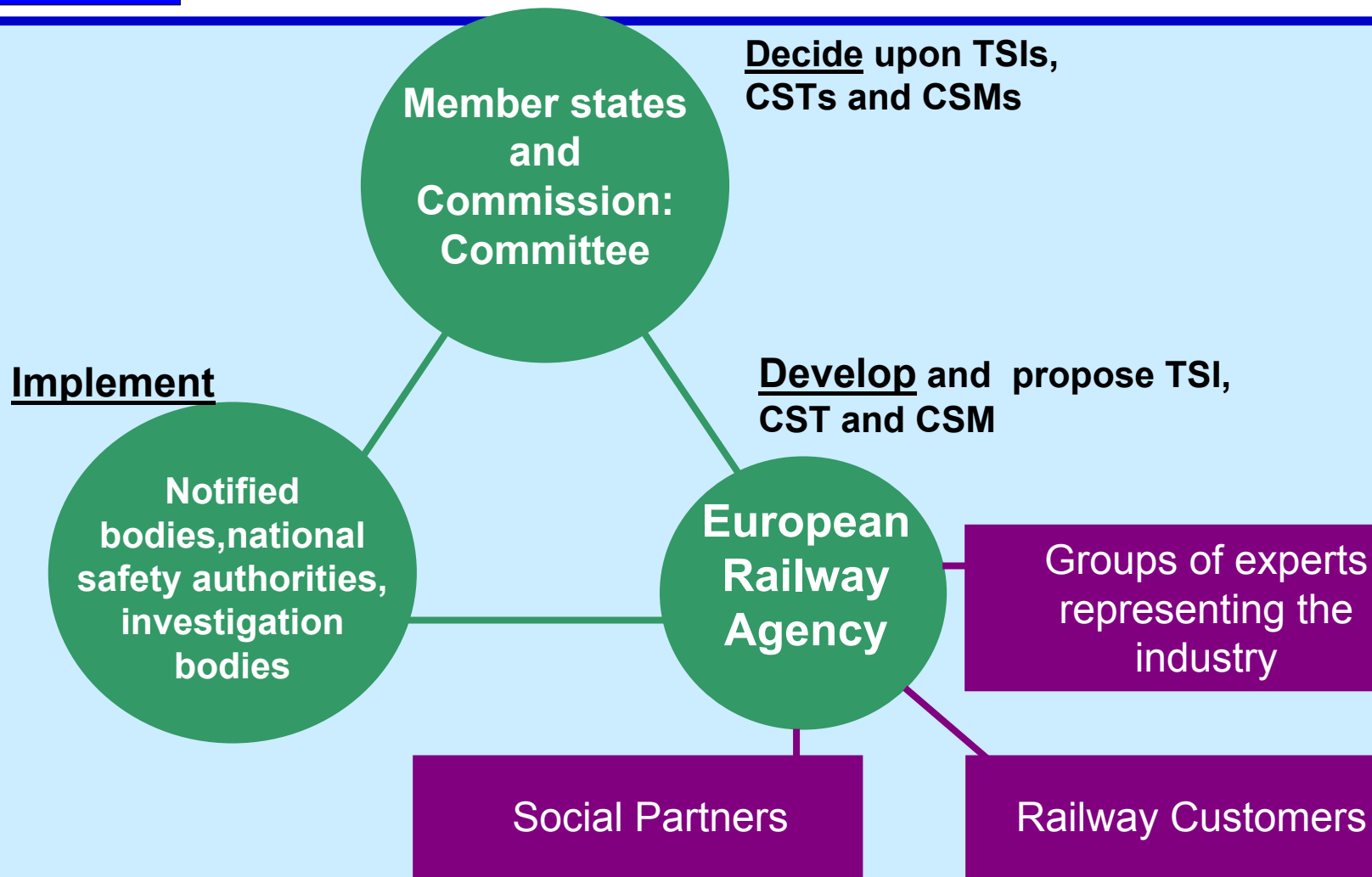
Support from Agency

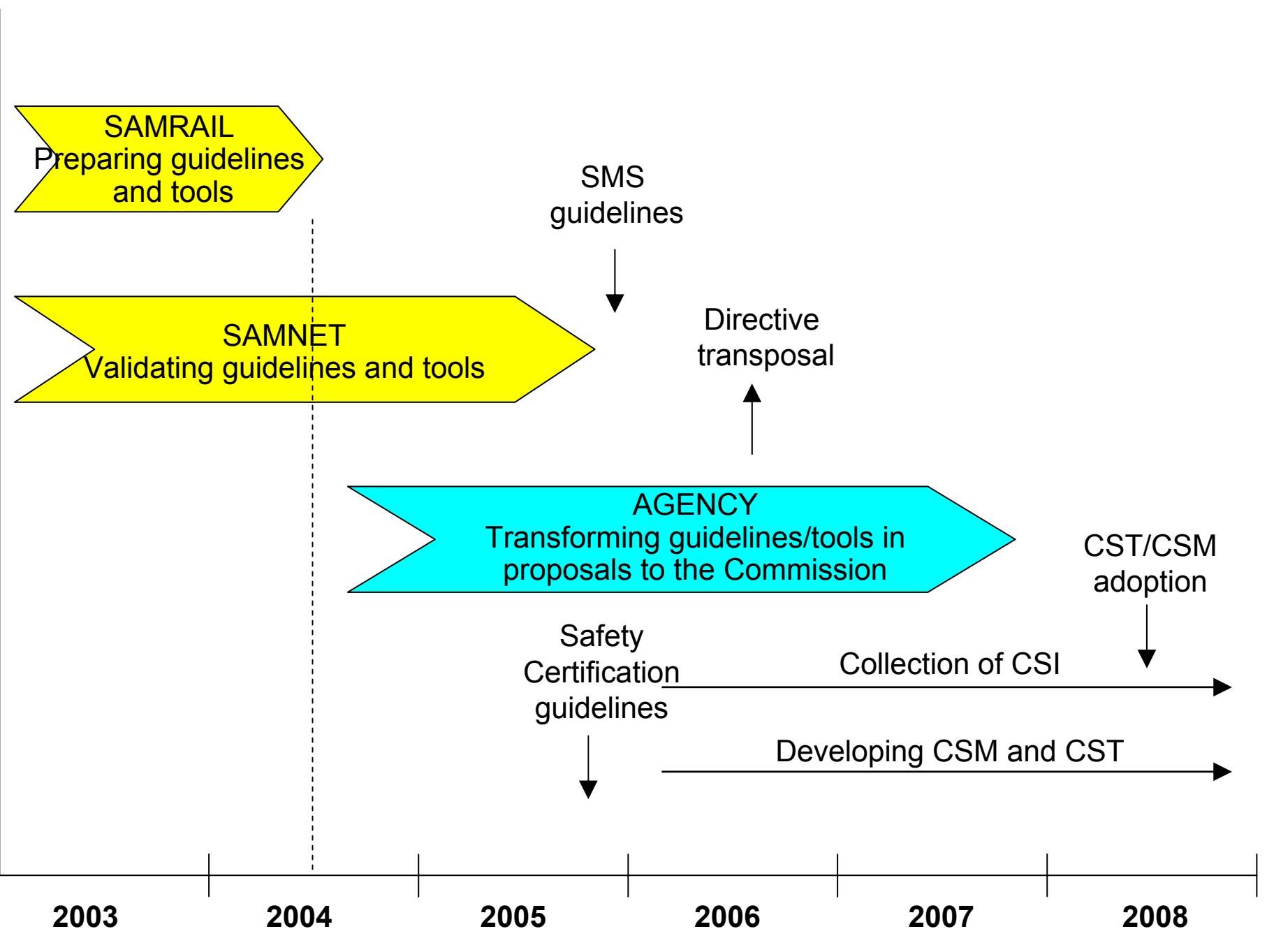
- **Development of CST and CSM**
- **Revision of CSI**
- **Migration strategy for safety rules**
- **Harmonisation of safety certificates**
- **European norm/guidelines for safety management systems**
- **Coordination of national bodies**
- **Databases for safety certificates, accidents, safety indicators and recommendations**





The second railway package and the decision-making procedure





SAMRAIL
Preparing guidelines
and tools

SMS
guidelines



Directive
transposal



SAMNET
Validating guidelines
and tools

AGENCY
Transforming guidelines/tools in
proposals to the Commission

CST/CSM
adoption



Safety
Certification
guidelines



Collection of CSI

Developing CSM and CST

2003

2004

2005

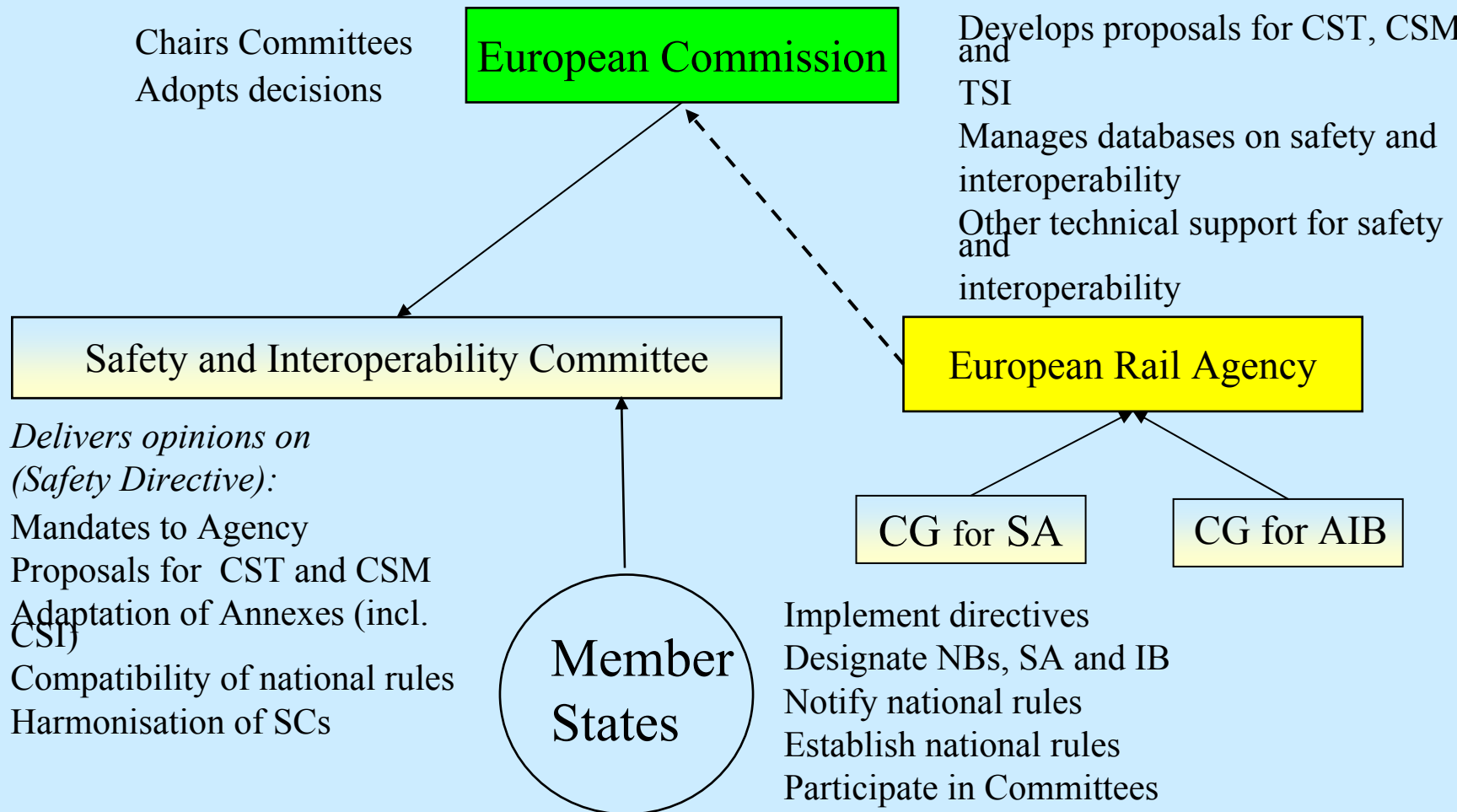
2006

2007

2008



Role of actors





Impact For Member states

- **Article 8(2): publication of national rules by 1st of May 2005**
- **Article 10: certification of RUs and information to Agency on safety certificates**
- **Article 11: autorisation of IM**
- **Article 12(3): guidance documents for RU**
- **Article 16(1): establish Safety Authority**
- **Article 21(1): establish permanent accident investigating body**
- **Article 33: implementation in national law by 1 june 2006**





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www.europa.eu.int

**[http://europa.eu.int/comm/transport/
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