
Capacity Regulation & TEL TSI interdependency

From European Frameworks to Common Union API
and Web UI specifications

Rail Net Europe

Governance visualisation



Why Capacity Regulation and TEL TSI must be implemented together

Two complementary legal instruments, one coordinated digital implementation

CAPACITY REGULATION

Defines **WHAT** the sector must deliver

Capacity Management
Traffic Management
Performance Review
Cross-border coordination

TOGETHER



TELEMATICS TSI

Defines **HOW** interoperability is provided

Information exchange
Business objects and messages
Common Union API
Common Union Web UIs
Data and technical interoperability

European Frameworks and common sector specifications translate both instruments into coordinated Capacity and Traffic Management services.

From Regulation to Interoperable Digital Services

Two workstreams converge in the European Frameworks and enable harmonised implementation

Workstream 1 — the what: process, roles and business requirements

Capacity Regulation

Business processes, responsibilities, obligations and digital requirements

Workstream 2 — the how: technical interoperability standards

TELEMATICS TSI requirements

Business objects, messages, data exchange and technical constraints

European Frameworks

Harmonised processes, business rules, information needs and functional requirements

 *continuous alignment & dependency*

Common Union API & Web UIs

Common sector specifications coordinated through ENIM / the Network Coordinator

Implementation

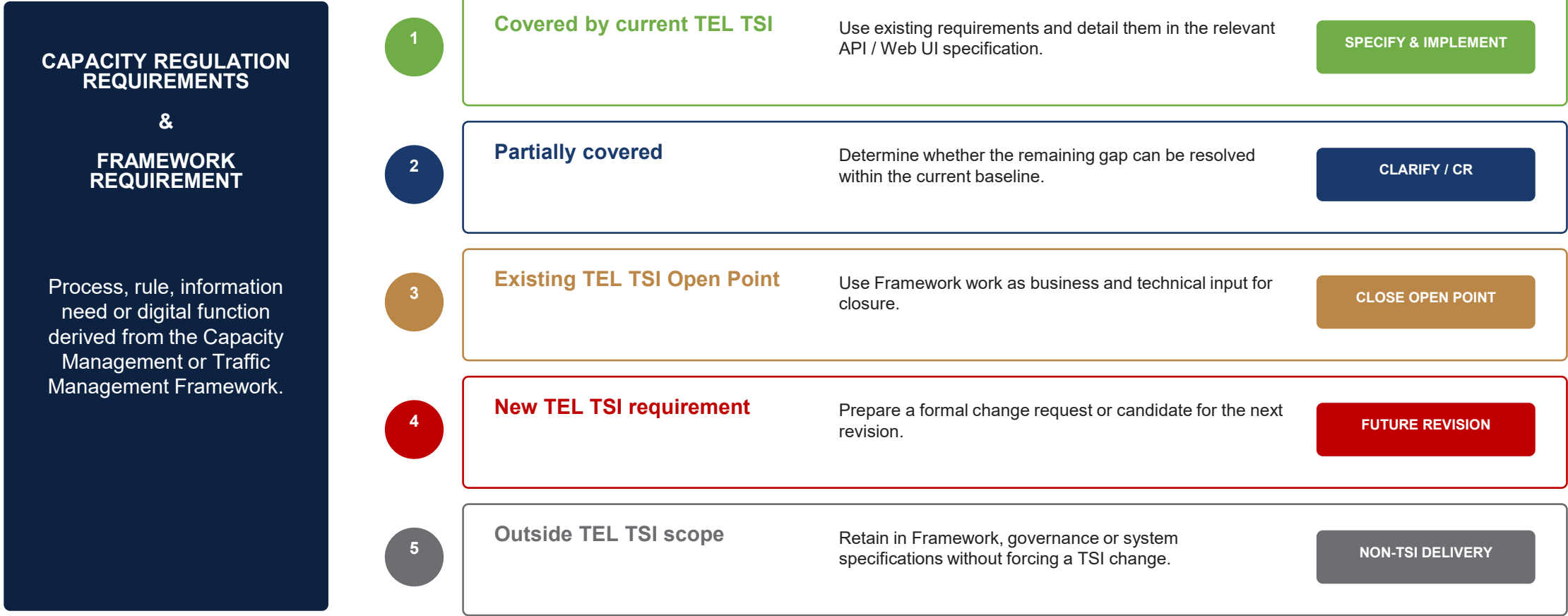
Common and national systems delivering interoperable stakeholder services

Core principle

Business and legal requirements lead. Technical specifications and systems enable harmonised and interoperable implementation.

TEL TSI Coverage and Gap Logic

A structured disposition is required for every European Framework requirement



Decision rule: 1) Not every Capacity Regulation requirement must become a TEL TSI message. 2) Not every TEL TSI function is part of the Capacity Regulation.

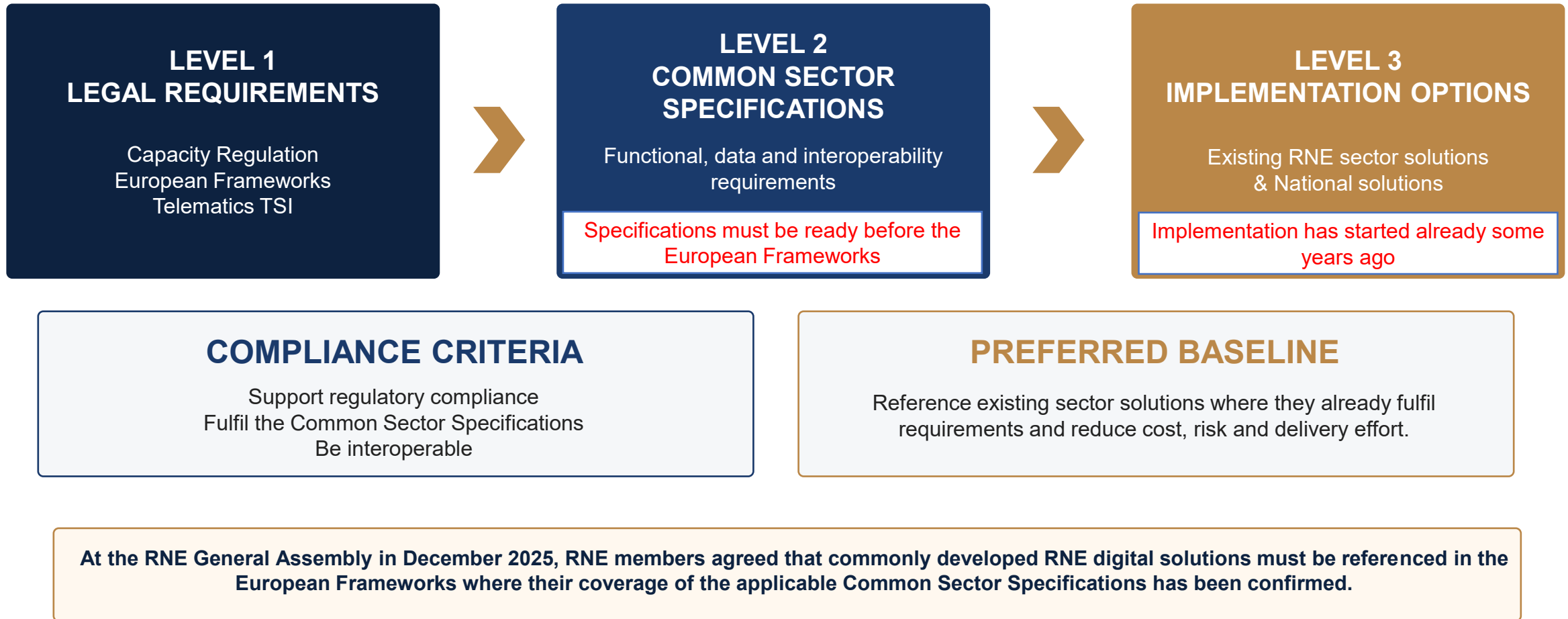
Governance: Clear Ownership from Framework to Compliance

Functional ownership remains with the domain TEGs; ENIM / NC coordinates common sector specifications

ACCOUNTABLE ACTOR	PRIMARY RESPONSIBILITY	OUTPUT
ENIM / Network Coordinator	Develop and coordinate the European Frameworks	AGREED FRAMEWORKS
Network Coordinator + IMs + affected stakeholders + CCBs	Develop and consolidate Common Union Web UI sector specifications (to be approved by ENIM for IM specifications)	FUNCTIONAL REQUIREMENTS & SECTOR SPECIFICATIONS Common Union Web UI
TEG Capacity Management TEG Traffic Management + sector change control	Translate Framework obligations and Common Union Web UI sector specifications into data and information requirements and Common Union API (to be approved by ENIM for IM specifications)	TECHNICAL REQUIREMENTS Common Union Web API
ERA TEL TSI governance	Maintain legal and technical consistency; process Open Points and formal change requests	TSI CHANGE DECISION
Network Coordinator + IMs / common systems / national systems	Develop, implement and provide the Common Union and national systems as interoperable services and interfaces based on Telematics TSI, Capacity Regulation and European Frameworks	OPERATIONAL SERVICES
Reference Files & Ontology	Monitoring & Compliance: conformance, testing, data quality and implementation monitoring, not functional ownership of API / Web UI content.	

Principle for Common Sector “Specifications and Solutions”

Technology-neutral specifications, pragmatic reuse of proven sector solutions



Sector Solutions already exist

The objective is regulatory compliance and interoperability, not the creation of new tools

LEGAL REQUIREMENTS

CAPACITY REGULATION

Capacity Management • Traffic Management
Performance Review • Digital service
requirements, European Frameworks



TELEMATICS TSI

Data exchange, Data and technical
interoperability, Common Union APIs •
Common Union Web UIs



COMMON SECTOR SPECIFICATIONS

Specifications of the common union API and UI •
Based on European Frameworks • Functional
requirements • Data models



DATA PROVIDER

IMs, RUs, other Stakeholders

IMs, RUs and other Railway Stakeholders are
providing information based on Telematics TSI



EXISTING SECTOR ASSETS

RNE

CPT • PCS (Capacity Broker)
TIS • Common Interface

ERA & OTHER PROVIDERS

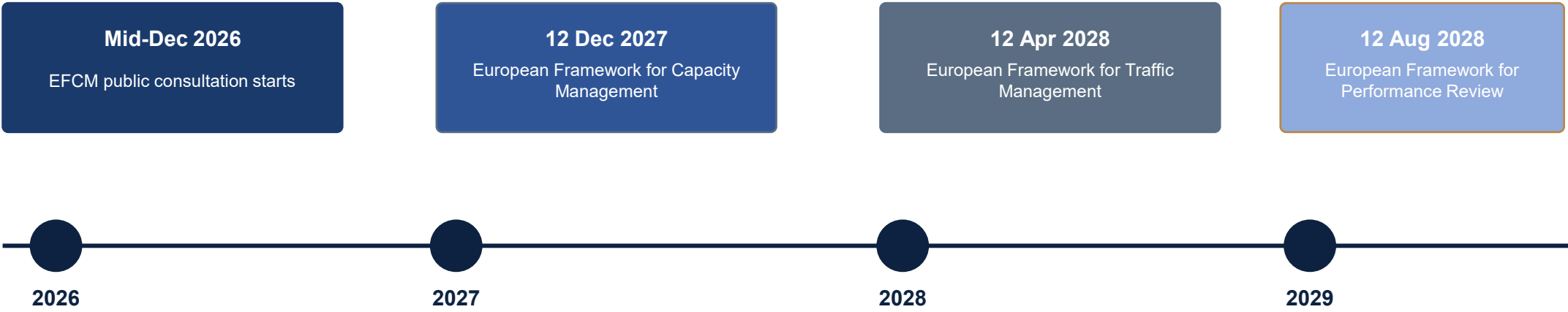
RINF, UIP services, RSRD²
ORFEUS • ISR

KEY MESSAGE The Capacity Regulation and TEL TSI define requirements. Existing sector assets already provide significant implementation capabilities that can be reused and further developed.

Integrated Timeline: Frameworks and TEL TSI Delivery

The specification deadline precedes final adoption of the Capacity Management Framework

CAPACITY REGULATION & FRAMEWORKS



TEL TSI SPECIFICATIONS & ACCESS



Critical dependency: API specifications are due before final EFCM adoption. Drafting must use the most mature Framework versions and remain change-controlled.