Praxiseinblick in die Kapazitätsverordnung

RailNetEurope

27 OKTOBER 2026



General

Members

Full Members



Associate Members



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Member States

Nearly all European IMs and ABs
are RNE Members

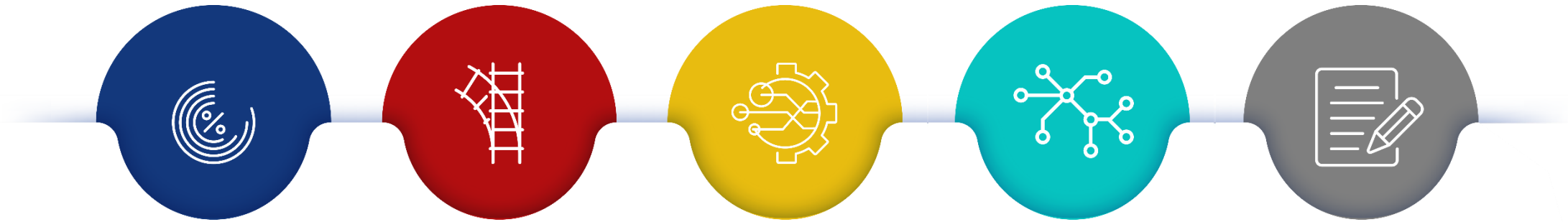
Exceptions:
IMs/ABs from Ireland, Northern Ireland,
and parts of the Balkans



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General

Project Portfolio



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Wie schaut es in Europa aus...



Planungssicht:

- Isoliert mit nationalem Fokus, fehlende europäische strategische Planung - „Kooperationsinseln“
- Unzureichende Koordination von Baustellen

Trassenvergabesicht:

- Teilweise europäisch koordinierte Jahresfahrplan
- Aufwändige Koordination im unterjährigen Verkehr
- Unterschiedliche nationale Systeme bzw Regeln

Betriebssicht:

- Europäisches System zur Zugverfolgung (tis.rne.eu)
- Unzureichende grenzüberschreitende Abstimmung
- Unterschiedliche nationale Systeme bzw Regeln

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Europa mit der Kapazitätsregulierung

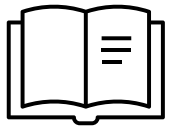


Planungssicht:

- Digitale Systeme unterstützen strategische Entscheidungen
- Harmonisierte internationale Verkehrsflüsse (Capacity Model)
- Universelle europäische Prozesse & Abstimmung der Baustellen

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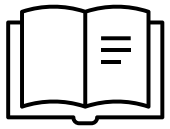
Three Frameworks



European Framework for Capacity Management

Article 6, Annex III

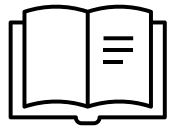
- Common principles and procedures for Capacity management
- Coordination between infrastructure managers, railway undertakings and other applicants, rail service facility operators and other operational stakeholders



European Framework for Traffic Management

Article 44, Annex V

- Common rules and procedures for the coordination of traffic, disruption and crisis management
- Guidelines for the coordination between infrastructure managers, railway undertakings and other operational stakeholders



European Framework for Performance Review

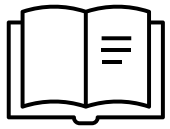
Article 50, Annex VII

- Performance issues list
- Performance indicators
- Criteria and procedures to define performance objectives and to monitor/review performance

- Guidelines to ensure stakeholder consultation

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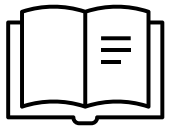
Three Frameworks



European Framework for Capacity Management

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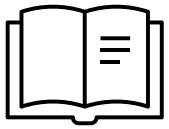
- Allgemeine Grundsätze und Verfahren für das Kapazitätsmanagement
- Koordination zwischen Infrastruktur-managern, Eisenbahnverkehrs-unternehmen und anderen Antragstellern, Betreibern von Bahndienstleistungsanlagen sowie weiteren operativen Interessengruppen



European Framework for Traffic Management

Article 44, Annex V

- Gemeinsame Regeln und Verfahren für die Koordination von Verkehr, Störungs- und Krisenmanagement
- Leitlinien für die Zusammenarbeit zwischen Infrastrukturbetreibern, Eisenbahnverkehrsunternehmen und weiteren betrieblichen Akteuren



European Framework for Performance Review

Article 50, Annex VII

- Auflistung der Probleme
- KPIs (Key Performance Indicators)
- Kriterien und Verfahren zur Festlegung von Leistungszielen sowie zur Überwachung und Überprüfung der Leistung

- Richtlinien zur Sicherstellung der Beteiligung der Interessengruppen

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Design of European Frameworks

European Framework

Main body

Process descriptions in **medium** level of **detail**

Elements being critical for harmonised implementation of process (Regulation requirements + any add ons)

Key information on IT requirements

Annexes

More detailed guidelines

Implementation guide

Guidelines or other documents that contain options

supplementary elements from existing handbooks/guidelines

IT tools' specifications

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Capacity management: from timetables to capacity

Yesterday and today

- Capacity treated as an operational requirement to allocate
- Focus on the annual timetable
- Planning centred on reconciling RU requests with IM needs
- Cross-border coordination built around Rail Freight Corridors

VS

Tomorrow

- Capacity as a long-term strategic resource
- Capacity planned across several time horizons
- Strategic, market-oriented, performance-based capacity management
- Capacity managed as one integrated European network

The shift is from managing the timetable to managing capacity

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Traffic management: from reactive to coordinated

Yesterday and today

- Goal: restore operations after a disruption
- Mostly real-time traffic management
- Local, reactive, case-by-case decisions
- Cross-border coordination built around Rail Freight Corridors

VS

Tomorrow

- Goal: minimise disruption impact and improve overall performance
- Anticipated, structured management, not only in emergencies
- Coordination driven by common European rules and procedures
- Traffic managed as one integrated European network

The shift is from reactive disruption handling to coordinated traffic management

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2027-2029: the system is built and switched on

	2027	2028	2029
Capacity management	Framework consulted and adopted (Dec)	Capacity Strategy and Model for TT2031	
Traffic management	Framework drafted and consulted	Framework adopted (Apr)	
Performance review		Framework adopted (Aug)	First European PR report (Aug)
Network Statement and tools	NS common structure; central tools live		Digital capacity data; NS 2031 published

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Three Frameworks

European Framework for Capacity Management

Article 6, Annex III

Digital Capacity Management

- Richtlinien zur Sicherstellung der Beteiligung der Interessengruppen

European Framework for Traffic Management

Article 44, Annex V

Digital Train Information

European Framework for Performance Review

Article 50, Annex VII

- Auflistung der Probleme
- KPIs (Key Performance Indicators)
- Kriterien und Verfahren zur Festlegung von Leistungszielen sowie zur Überwachung und Überprüfung der Leistung

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Implementierungsstrategie der Kapazitätsverordnung

Telematics TSI



Europäische Kapazitäts-Verordnung

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RNE's digital portfolio of common European systems

Federated Model

Traffic Management and Communication

TIS LT

- Train information
- Train composition
- Train statistics
- Network ETA
- Incident tool
- Language tool

Capacity Management

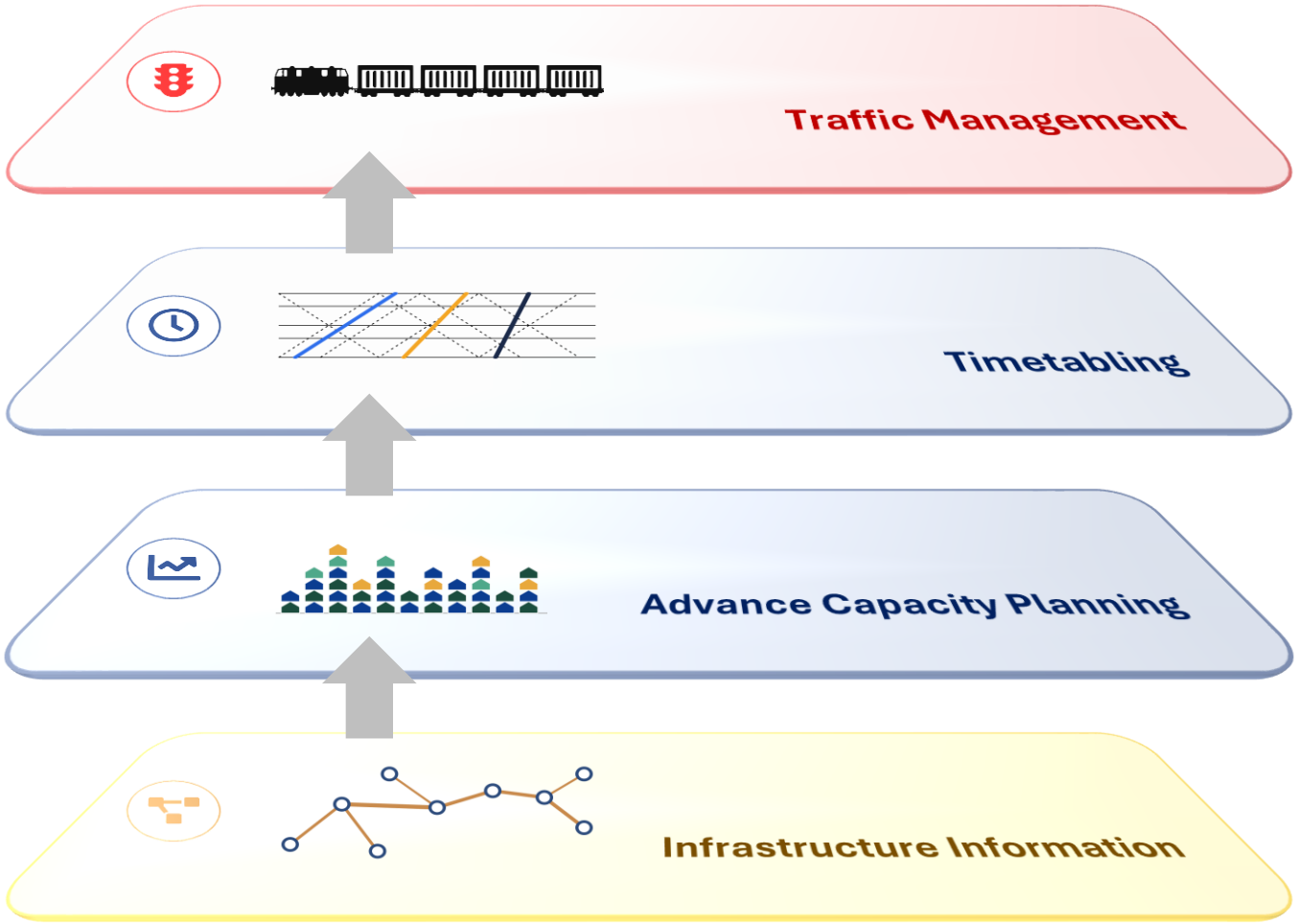
CPT PCS

- Capacity Strategy
- Temporary Capacity Restrictions
- Capacity Model
- Capacity Supply
- Annual Timetable
- Ad hoc bookings

Infrastructure Information

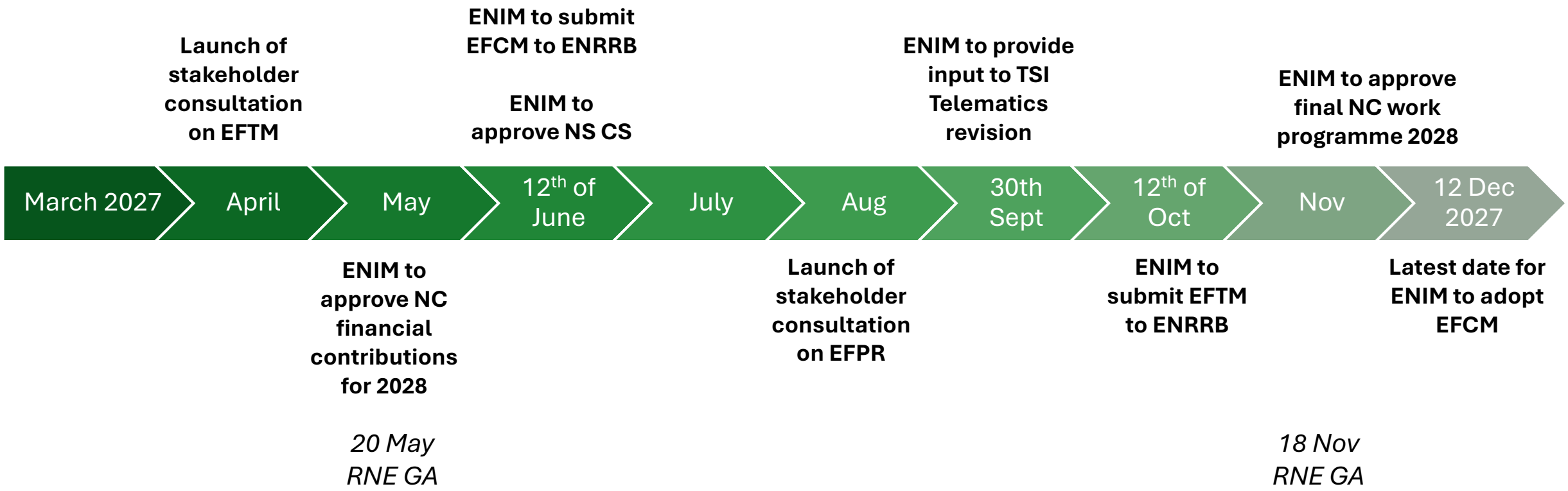
RIS CCS RINF

- Infrastructure description
- RINF synchronisation



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Challenge: how to link structures to meet ambitious targets?



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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.

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Principle for Common Sector “Specifications and Solutions”

Technology-neutral specifications, pragmatic reuse of proven sector solutions

LEVEL 1
LEGAL REQUIREMENTS

Capacity Regulation
European Frameworks
Telematics TSI

LEVEL 2
COMMON SECTOR SPECIFICATIONS

Functional, data and interoperability requirements

Specifications must be ready before the European Frameworks

LEVEL 3
IMPLEMENTATION OPTIONS

Existing RNE sector solutions
& National solutions

Implementation has started already some years ago

COMPLIANCE CRITERIA

Support regulatory compliance
Fulfil the Common Sector Specifications
Be interoperable

PREFERRED BASELINE

Reference existing sector solutions where they already fulfil requirements and reduce cost, risk and delivery effort.

At the RNE General Assembly in December 2025, RNE members agreed that commonly developed RNE digital solutions must be referenced in the European Frameworks where their coverage of the applicable Common Sector Specifications has been confirmed.

Integrated Timeline: Frameworks and TEL TSI Delivery

The specification deadline precedes final adoption of the Capacity Management Framework

CAPACITY REGULATION & FRAMEWORKS

Mid-Dec 2026
EFCM public consultation starts

12 Dec 2027
European Framework for Capacity Management

12 Apr 2028
European Framework for Traffic Management

12 Aug 2028
European Framework for Performance Review

2026 — 2027 — 2028 — 2029

TEL TSI SPECIFICATIONS & ACCESS

Jul-Aug 2027
Principles and initial drafting for sector specifications

30 Sep 2027
Common Union Web API / UI sector specifications submitted to ERA

10 Dec 2028
Passenger traffic access via Common Union Web UI / API

9 Dec 2029
Freight traffic access via Common Union Web UI / API

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

We will keep you informed...



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