



INTERNATIONAL UNION
OF RAILWAYS

DP-RAIL/DAC

Information for RFF IT Archi Fullteam

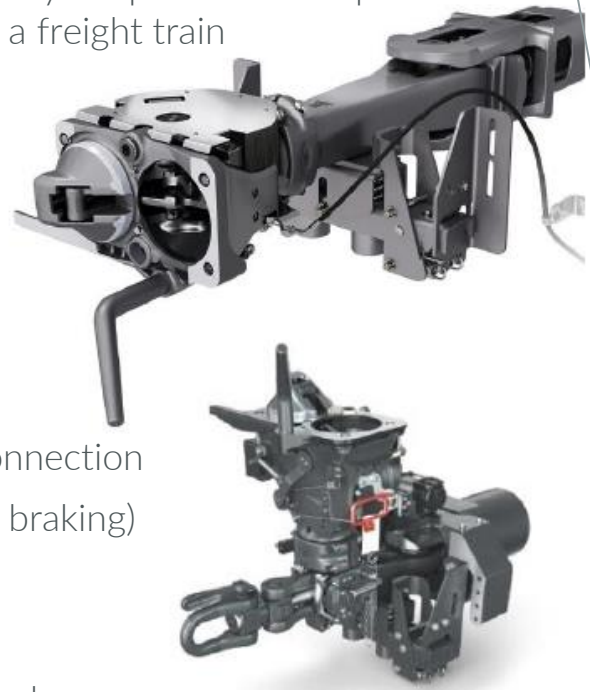
08 March 2022

14:00-15:30

Collaboration between the Rail Freight Forward (RFF) gamechangers is an opportunity to create synergies

DAC – Digital Automated Coupling

Goal:: to automatically couple and decouple the rolling stock in a freight train



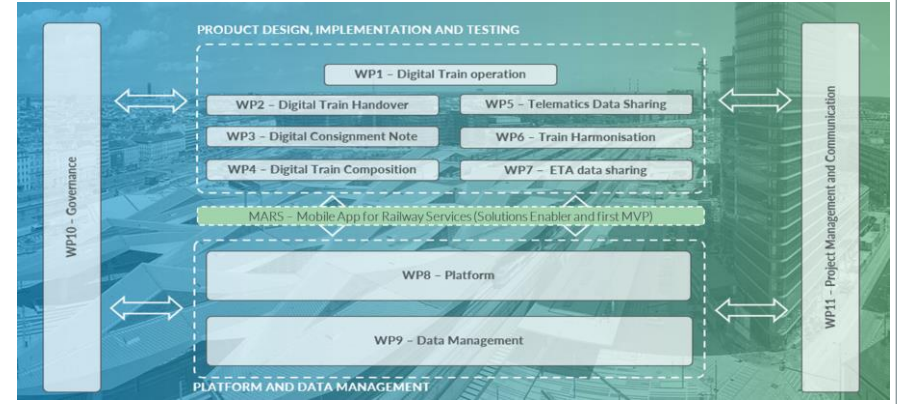
both physically
(the mechanical connection and the air line for braking)

as well as digitally
(electrical power and data connection).



DP-RAIL (Digital Platforms for Rail)

Goal:: to provide a “one-stop-shop” for operational data for a seamless data journey across Europe

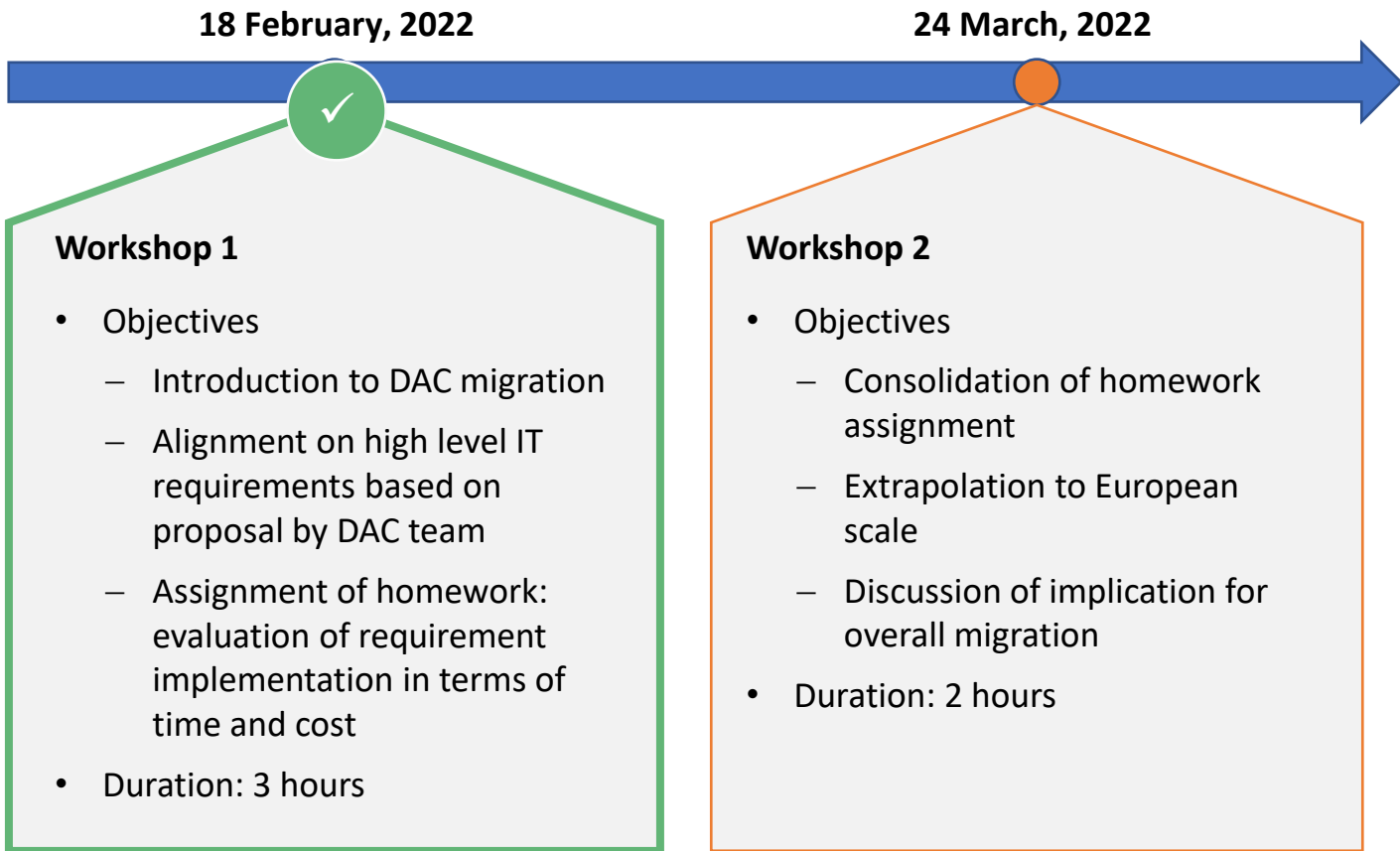


Opportunity for DP and DAC initiatives for close collaboration as DP-Rail ...

- Bundles the IT expertise of the rail freight sector
- May benefit in terms of practical use cases (e.g. digital train composition)

We held a first DAC/DP-RAIL workshop to address IT requirements for the DAC migration scenario

- EDDP WP3 Migration to work out the following aspects in Q1/2022
 - IT requirements for DAC migration
 - Approximate time required to prepare IT systems
 - Order of magnitude of required IT investments
- Opportunity for DP and DAC initiatives for close collaboration as DP-Rail ...
 - Bundles the IT expertise of the rail freight sector
 - May benefit in terms of practical use cases
- Lean workshop based approach proposed



Participants were asked to guesstimate the required budget and time to realize the requirements

Required information on company level

- Overall IT budget need for all parties involved in DAC
- Overall realization timeline (assuming budget is available)

Scope

- Includes the realization of the above IT-requirements in the planning and operations IT of your own company
- Excludes potential further IT requirements for DAC migration planning/execution (e.g., simulations, capacity planning tools, etc.) and for the integration of the digital capacities of DAC

Aspired accuracy

- We aspire to develop the first guesstimate for IT costs of DAC migration on sector level – so far no information is available at all
- We will aggregate the feedback of the various stakeholders

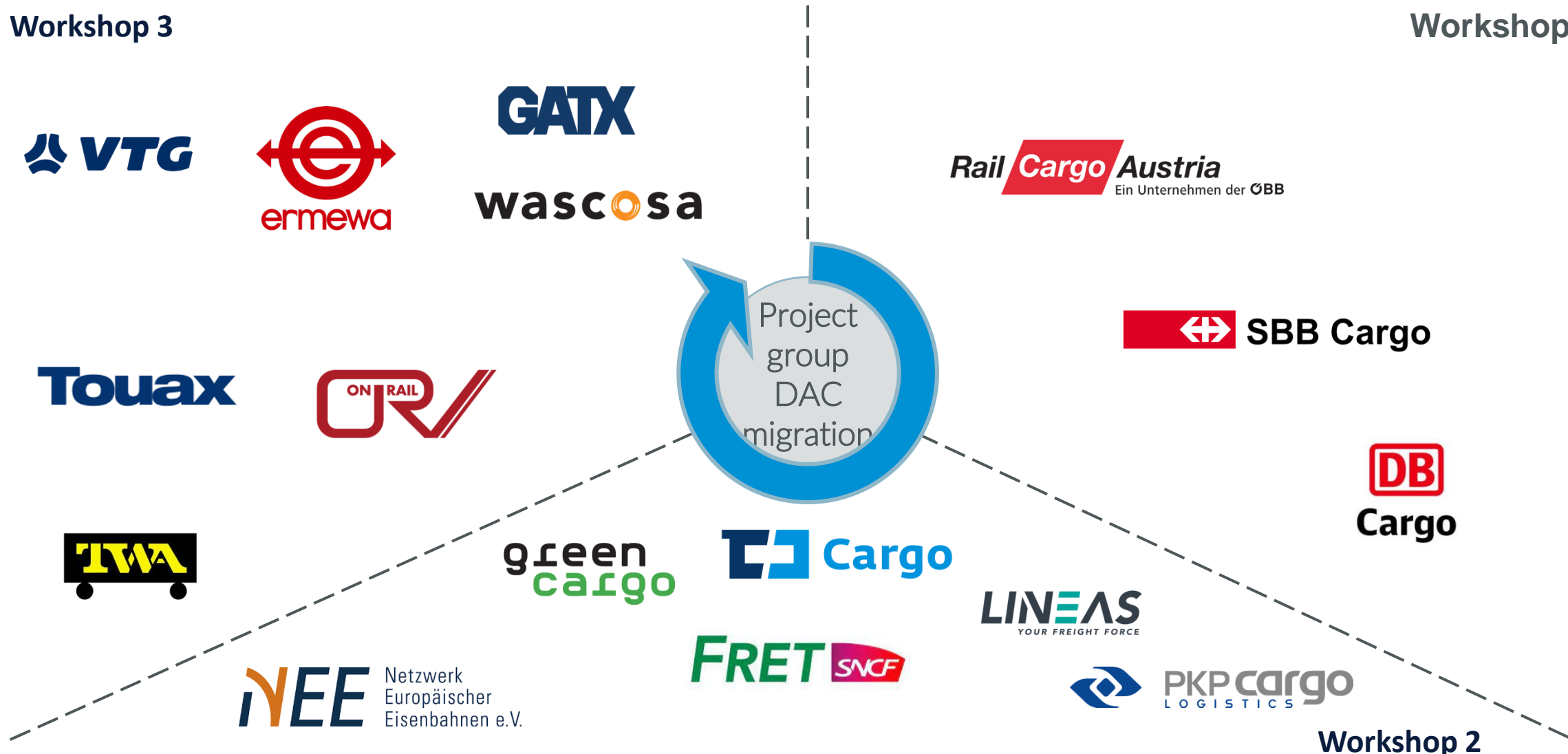
Methodology

- You are free to choose a process to develop your guesstimate. Potentially, the following methodology could serve as guidance
 - Domain analysis for each IT requirements to identify IT applications impacted
 - Develop high level understanding of required changes
 - Estimate budget / time requirement based on analogy to previous projects
- Please provide estimates per requirement so that we can check completeness. We will not differentiate the resulting budget need on sector level by IT-requirement since we expect accuracy to be too low. Your estimates should focus on the cost of IT-development which we expect to be dominant

Going forward, we will continue to collaborate on an operative level and leverage know-how and resources

Workshop 3

Workshop 1



Project group
DAC
migration



Workshop 2



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OF RAILWAYS

DP-RAIL

Working Model

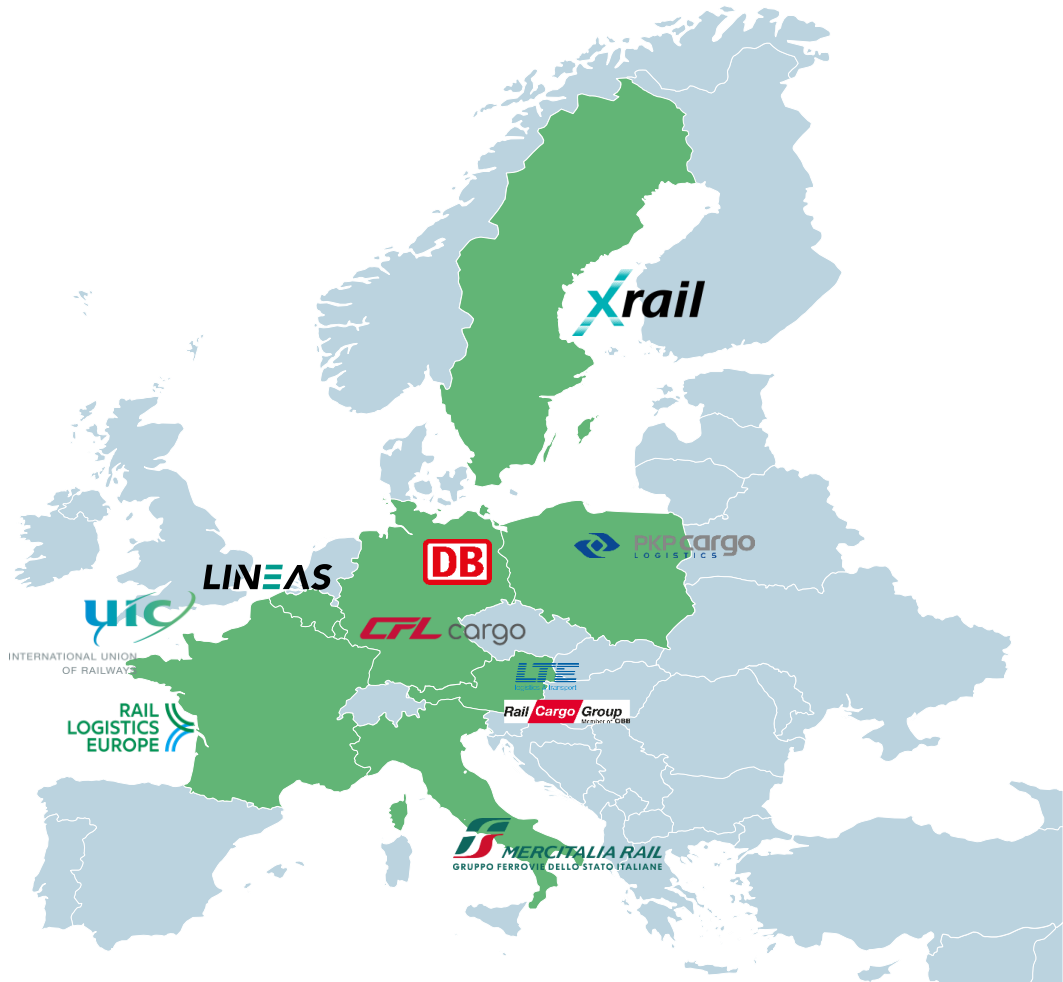
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DP-RAIL Consortium

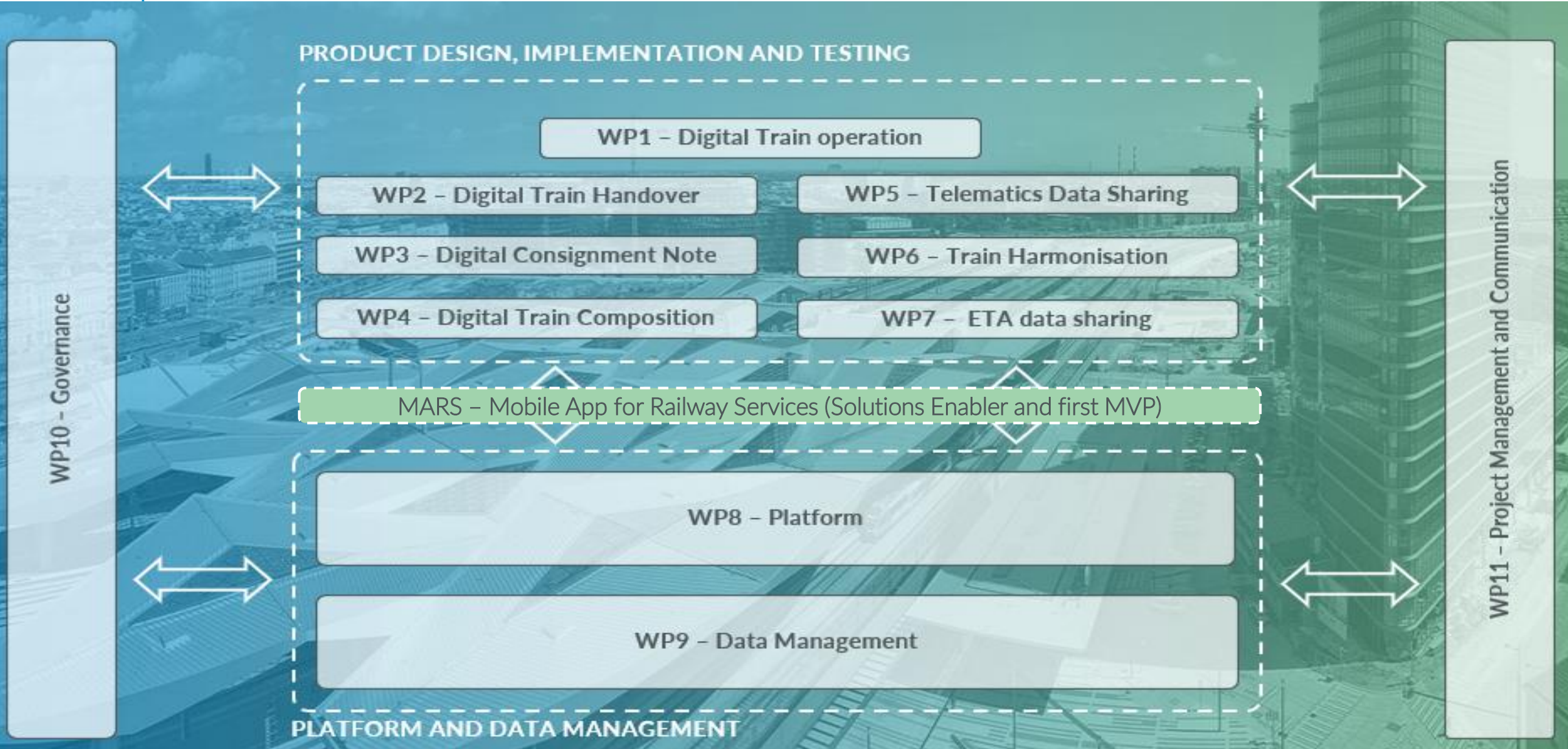
10 partners from 8 countries with networks covering Europe at large



-  **CFL Cargo**, Luxemburg
-  **DB Cargo**, Germany
-  **Lineas**, Belgium
-  **LTE**, Austria
-  **Mercitalia Rail** and its affiliate **FS Technology**, Italy
-  **PKP Cargo**, Poland
-  **SNCF Fret** and its affiliate **RAIL4LOGISTICS**, France
-  **Rail Cargo Group**, Austria
-  **UIC** and its **Raildata** group of experts, France
-  **XRAIL**, Sweden

Recap: We strive to deliver 7 solutions for market uptake by 2025 by digitizing core rail operations

Recap of DP-RAIL



Agenda

Work organization until funding received

01

Targets until funding

02

Next Steps

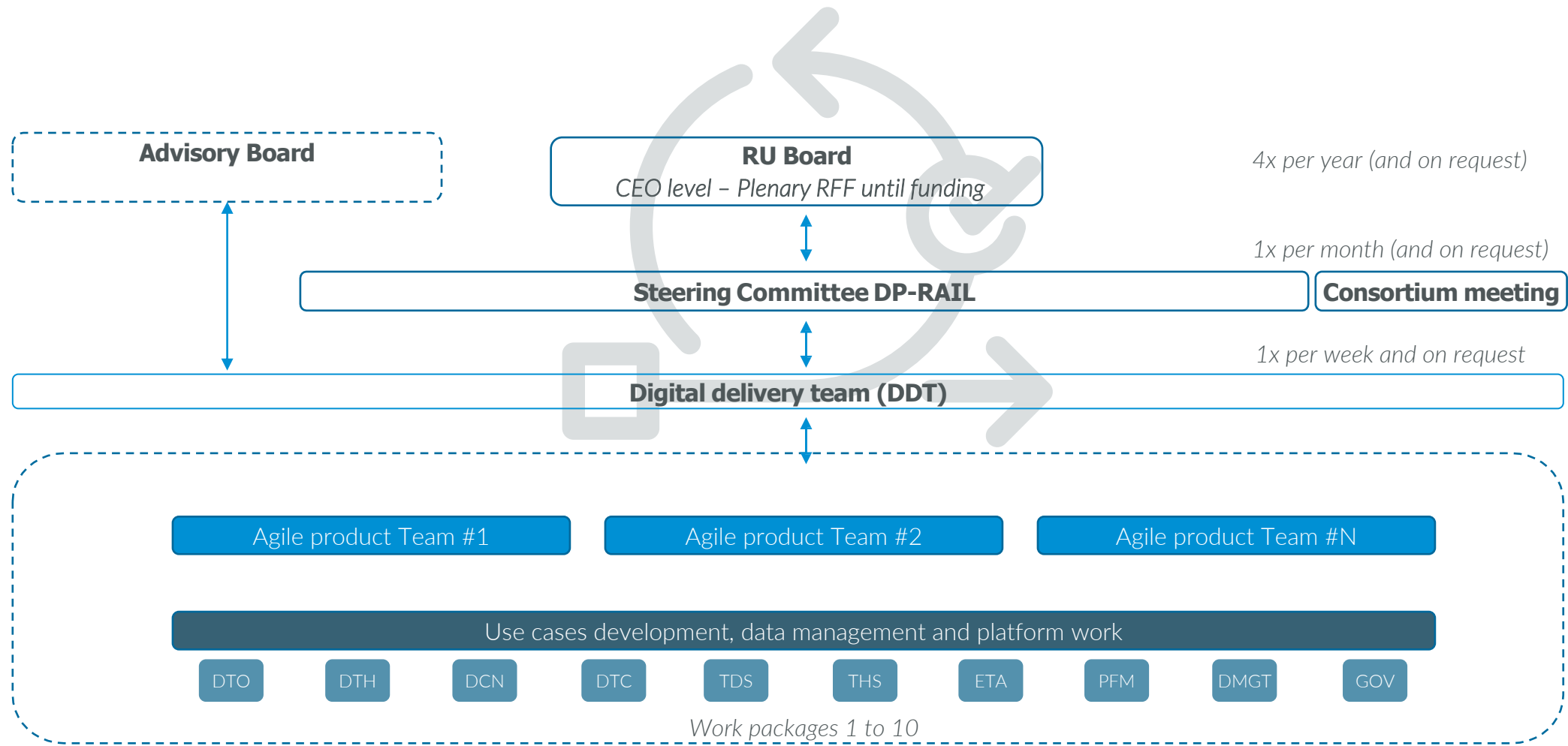
03

Work organization paving the way for agile set up relying on DDT as main hands-on body

Proposed Work Organization - Overview

STEERING LEVEL

OPERATIVE LEVEL

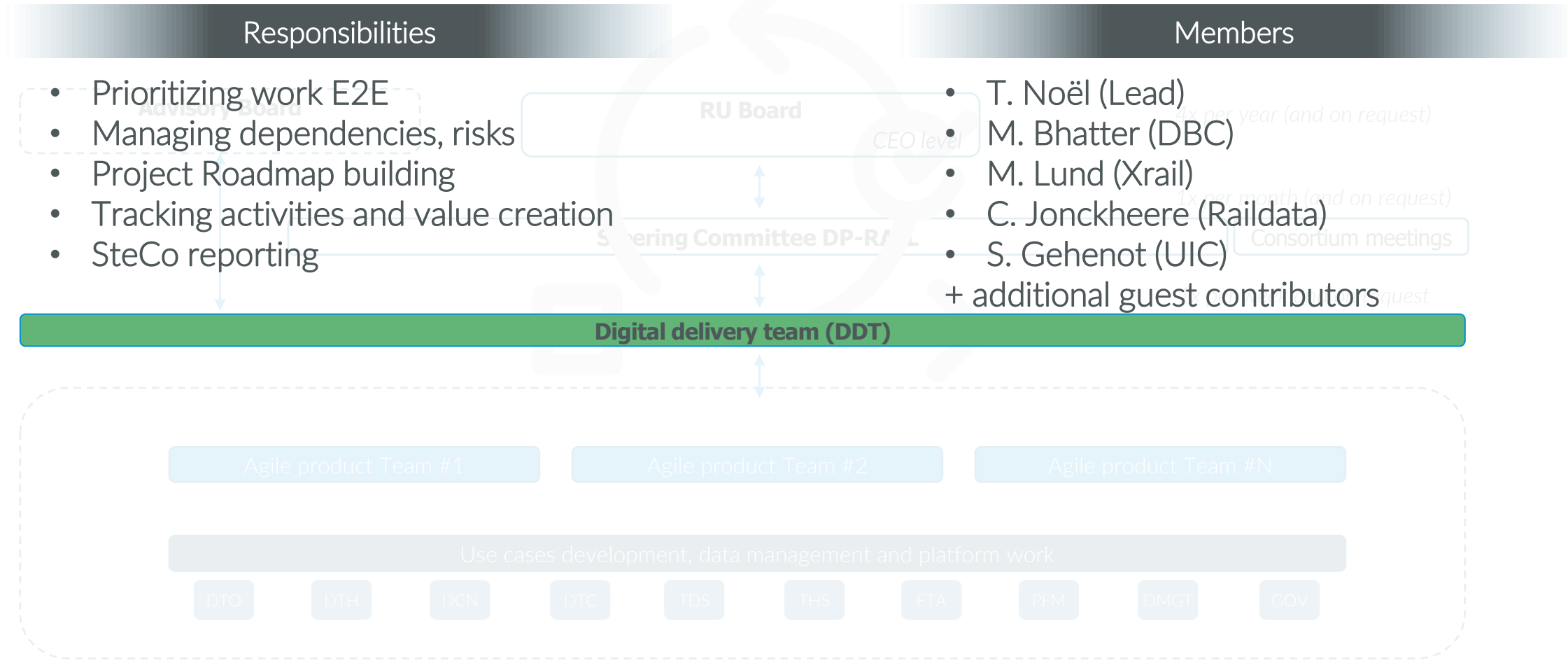


- Roles?
 - Product Owner(s) (1x pro Product Team) – Req. Eng.
 - Dev Lead(s) – Dev Team
 - User Community / Reps (Reflecting business value)
 - Architects
 - Transformation/Rollout Mgr.
 - Scrum Master
- Ceremonies and Process
 - Daily Standups
 - Sprint Review
 - Sprint Planning
 - Program Increment
 - Releases?
 - Big picture (how does it all fit together) SAFe Leitbild – DP Rail Variante
- Cross-Product Sync (Standards and Learnings)

The Digital Delivery Team (DDT) prioritizes work, tracks value creation and provides a unified view on project

Proposed Work Organization – Digital Delivery Team

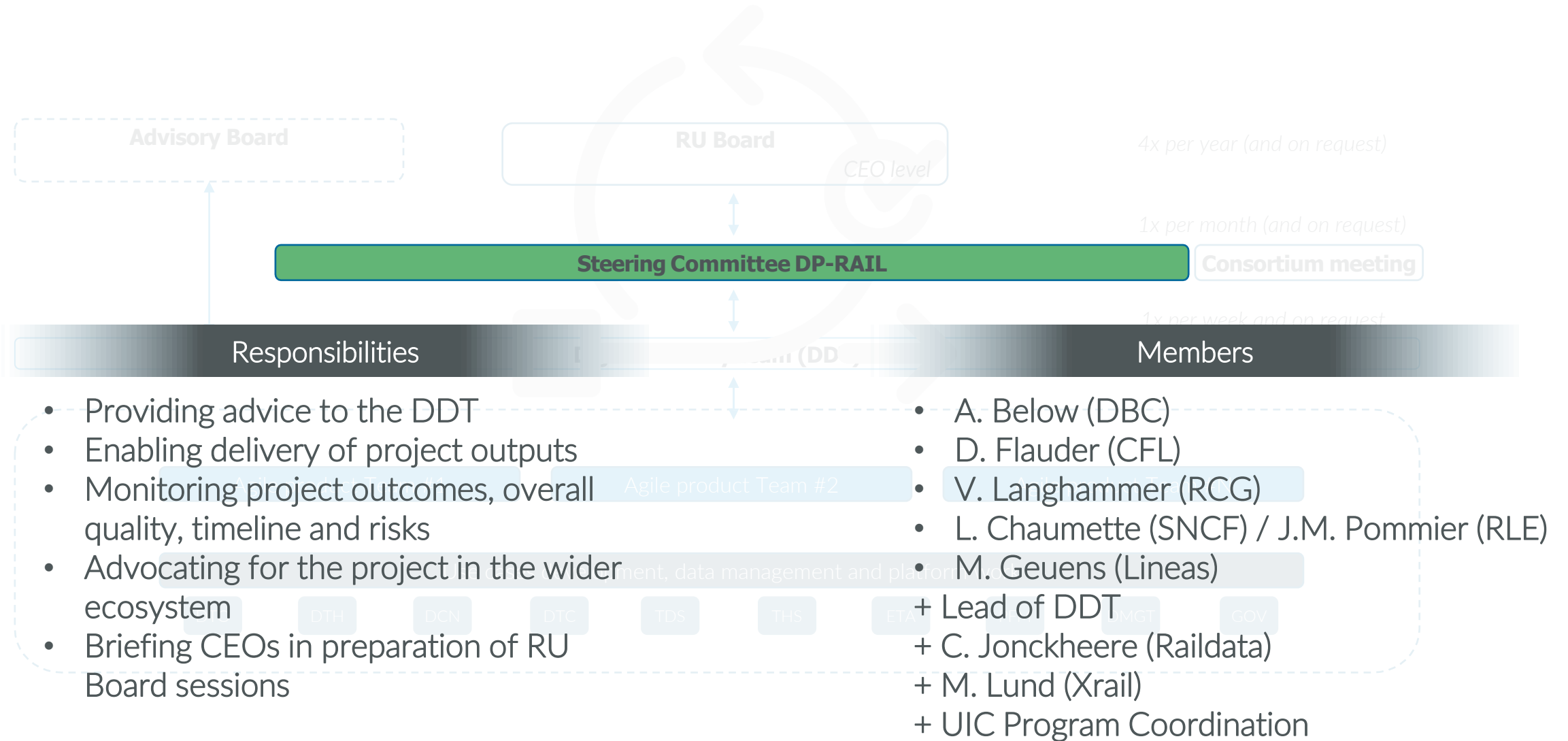
STEERING LEVEL
OPERATIVE LEVEL



The DP-RAIL SteCo provides guidance and strategic direction and evaluates proposals made by the DDT

Proposed Work Organization – SteCo DP-RAIL

STEERING LEVEL

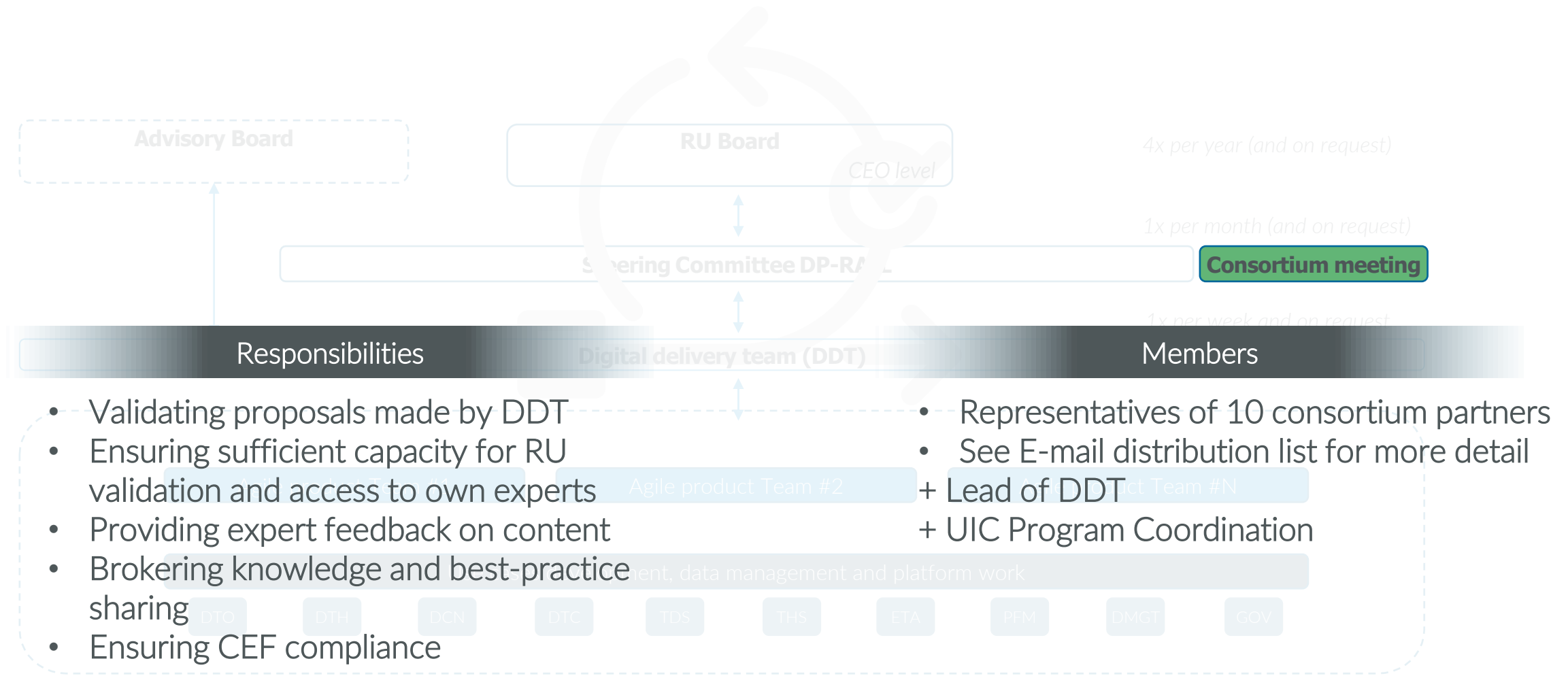


The DP-RAIL Consortium meetings is the primary sounding board for alignment on content and CEF admin

Proposed Work Organization – Consortium meeting

STEERING LEVEL

OPERATIVE LEVEL

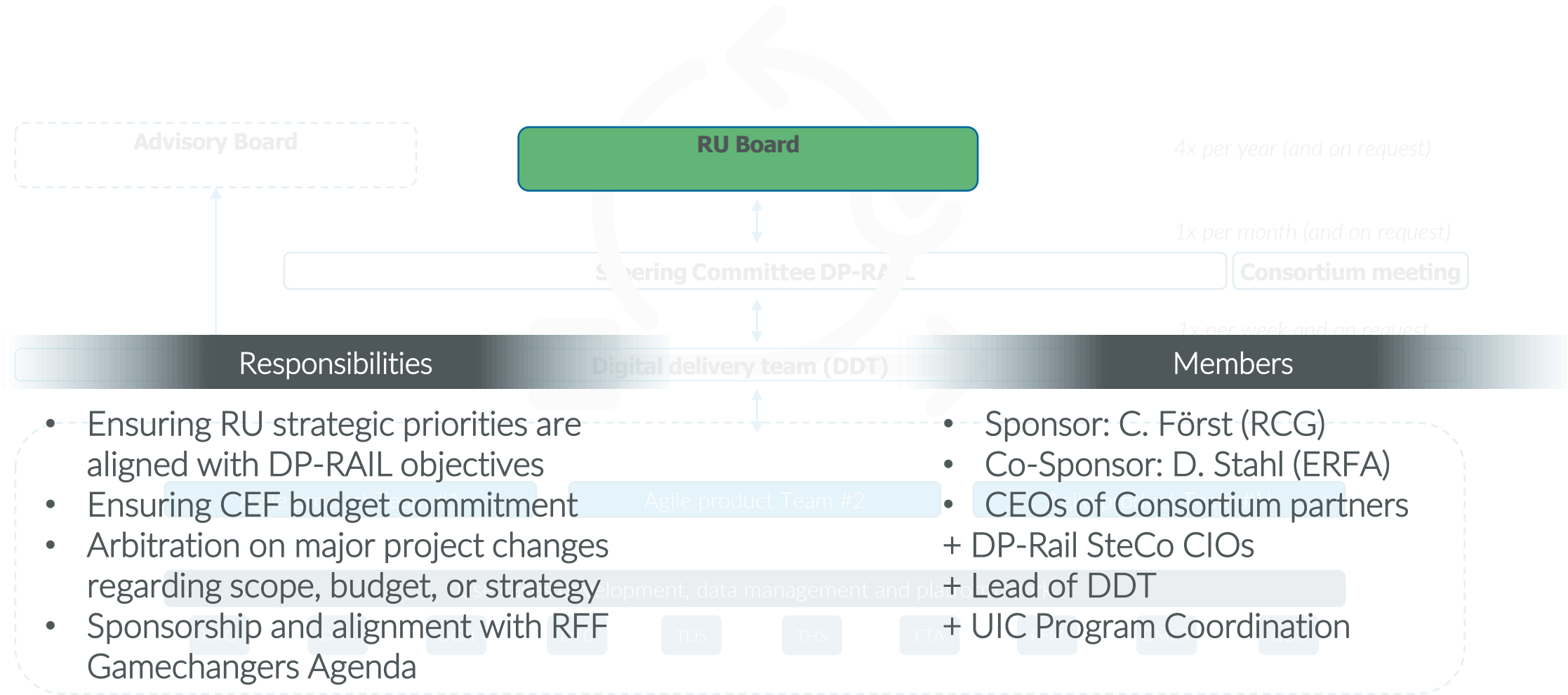


The RU Board is the CEO-level forum for long term strategic orientation and high-impact decision making

Proposed Work Organization – RU Board

STEERING LEVEL

OPERATIVE LEVEL



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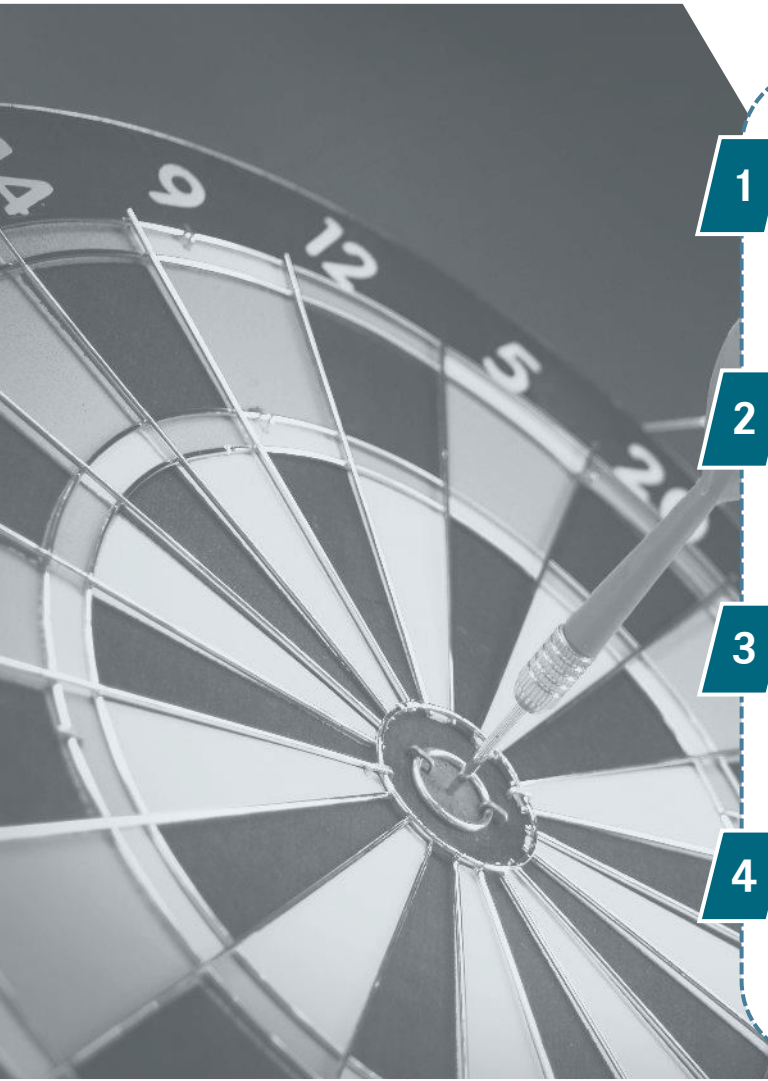
Next Steps

03



“Beginning with the end in mind”; we believe a proper initiation phase for DP-RAIL is vital for success

Desired outcomes for PHASE II until Summer 2022



- 1** Achieve **shared understanding** within consortium of overall **DP-RAIL strategy**, agile **working mode** and **governance** (solutions, platform, data, consortium)
- 2** Have **foundations** for **product teams** in place: groomed **backlog** (at least epic level structures), solution purpose and “problem space” properly documented
- 3** Have an **architecture blueprint** for DP-RAIL documented including a description of core services, legacy integration and migration scenarios
- 4** **Manage existing meetings** such as RFF IT architecture full team and walk-in meetings to ensure we keep a **proper dialogue / communication** with experts and the wider community

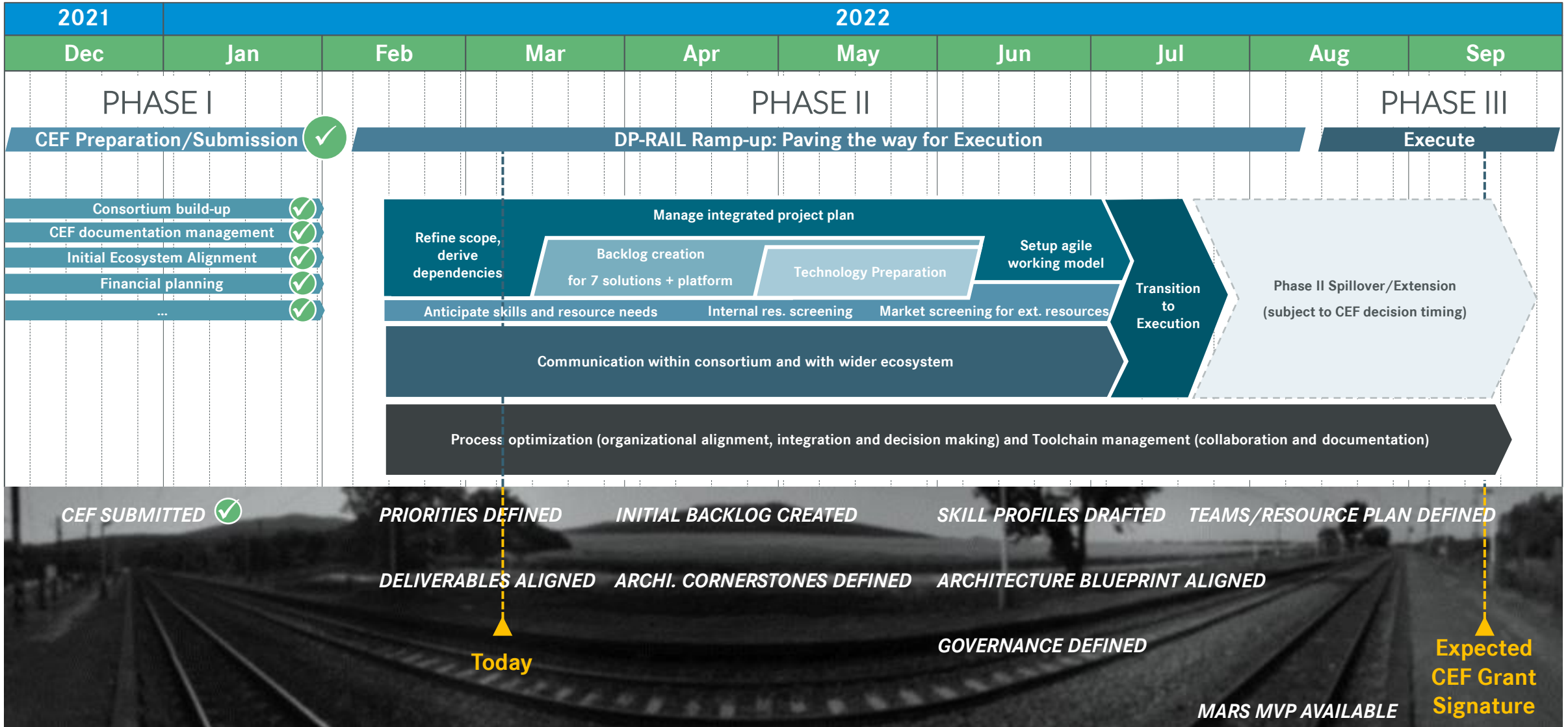
Outcomes of Project Ramp-up Phase

We now fully shift our focus to preparing for project execution and scaling in 2022

Approach until Summer 2022

ACTIVITIES

MILESTONES



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Paving the way for DP-RAIL start, we will leverage existing resources for a lean setup until summer 2022

Xrail – Raildata – UIC joint priorities

3 Organizations. ONE ambition.



1
MARS MVP



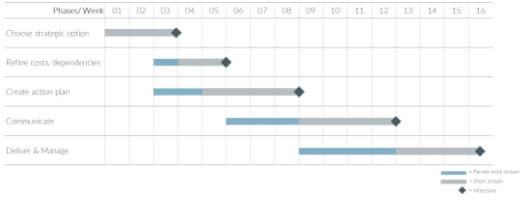
...to enable digital communication between all transportation partners – incl. smaller RUs operating first / last mile & transit

2
PLATFORM



...to clarify our platform strategy and technology, along with core capabilities needed to support our 2025 vision

3
PROJECT RAMP-UP / GOVERNANCE



...to identify missing skills and resources, establish our agile working model, and prepare and align decision points