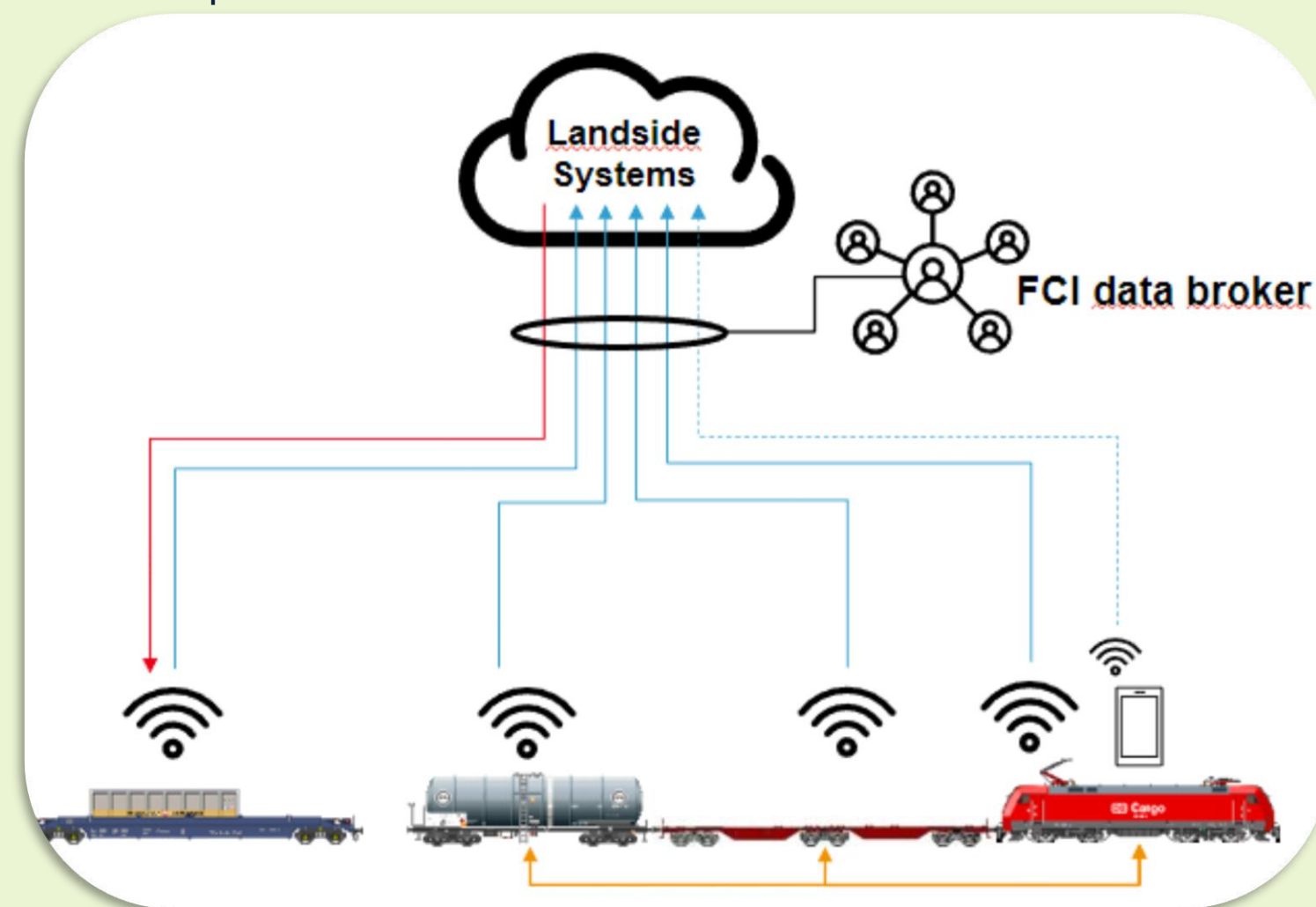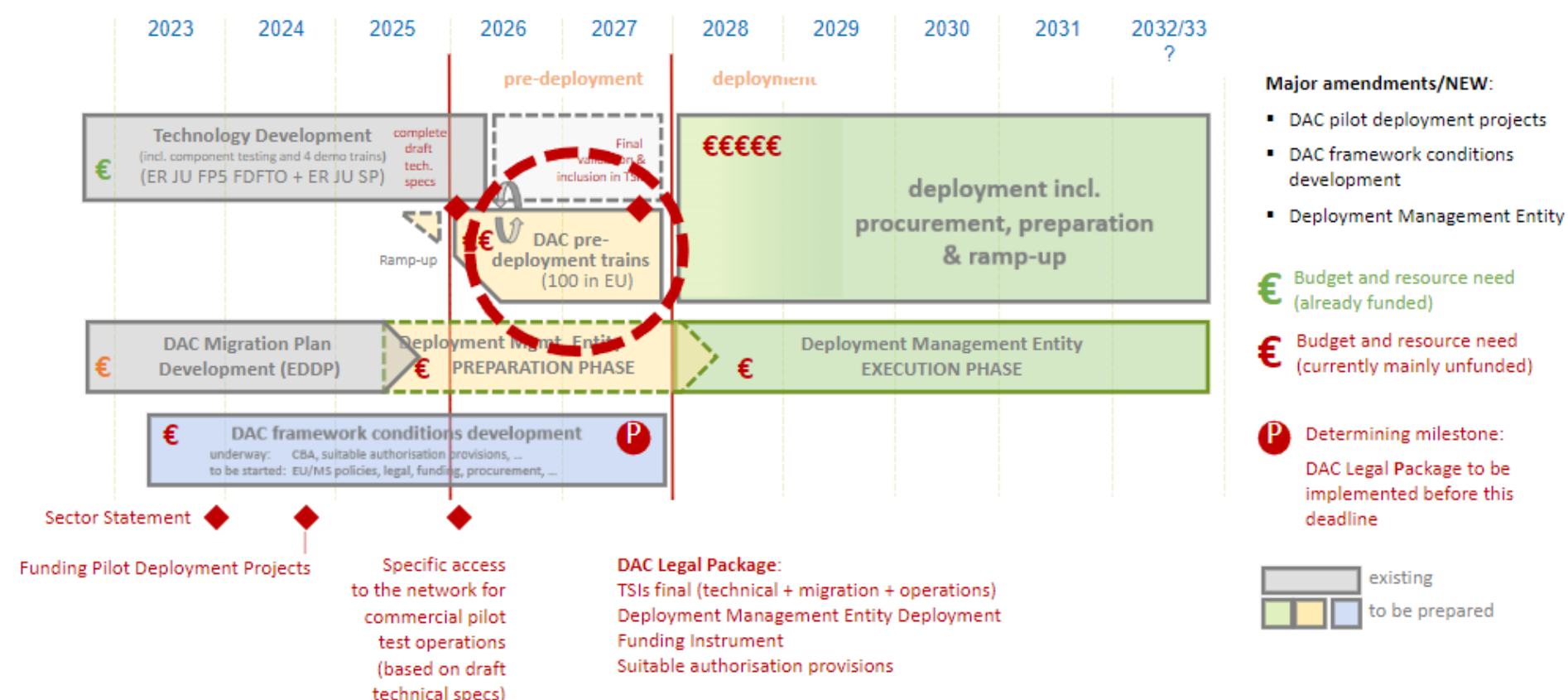# Task 4: DAC/FDFTO

The Task 4 DAC/FDFTO is responsible to manage all cross-cutting activities related to DAC/FDFTO (e.g., regarding operational procedures, architecture and interfaces embedding the onboard system, developed by FP5, into the overall railway system), to manage the input to the Standardisation and TSI Input Plan (STIP) for DAC/FDFTO and to support FP5 regarding authorization strategy.

Task 4 works in close alignment and cooperation with Innovation Pillar Flagship Project 5 (FP5) and EDDP@EU-Rail, including participation in mediation of conflicts with other Innovation Flagship Areas and SP Tasks.

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The DAC General Master Plan 01 [June 2023] *)

*) The Master Plan is currently under revision by EDDP@EU-Rail in close cooperation with FP5, SP Task 4 and the Pioneer Train preparation team.

DAC/FDTFO Proposed Architecture

The Task 4 DAC/FDFTO Team will focus on three priority topics in the coming months:

- Creation of a **standard rulebook** for EU-wide operation of DAC

- A detailed recommendation to FP5 for reaching **safe Train Length and Train Integrity** functions enabled by DAC on Europe's freight trains

- A detailed description and roadmap for the development and implementation of a **FDFTO Central Instance** coordinating and ensuring interoperability for the DAC system

Task 4: DAC/FDFTO

Giancarlo De Marco Telese *(UIC)* – Railway Lead
Roberto Tione *(Wabtec)* – Supplier Lead

Lead STIP Deliverables

- **STIP_36: FDFTO Train Functions**
- **STIP_38: Operational standards and RuleBook -** 2024
- **STIP_47: Central Instance -** 2024
- **STIP_73: Train interface adaption for integrity handling and train length / overall consist length (from FDFT side) -** 2026

Deliverables Request for Service (SC2.4) – Year 3 [Oct-24 – Oct-25]

D01 EU DAC Based Operational Standards (continuing WP2 from SC2.3) - Q3 2025

D02 Interfaces to the "outside" world (restarting WP3.1 from SC2.3) – Q2 2025

D03 Central Instance for management of Data & Software – Q3 2025

D04 Task 4 Collaboration with STIP related topics – Q3 2025

Latest Achievements, Challenges and Design Decisions

- **Latest Achievements:** The following achievements have been accomplished by the Task 4 DAC/FDFTO domain :
  - **SIL4 Train Length function:** a solution has been released, extension of the basic principle developed in the 1st phase, and supported by already FDFT existing components.

- **Domain Current challenges:** The domain is facing the following challenges:
  - **Developing a mature rulebook based on current technology development:** Parts of the rulebook are still missing due to some aspects of the technology not being ripe enough yet.
  - **Train Length** new solution to be agreed and accepted by FP5
  - **FCI data management organization,** to be agreed among the stakeolders in the sector

Expected outcomes for sector review in the next 3 months

- **Polarion release of the whole SC2.4 package, included Rule Book for the Basic State (except for emergency and degraded modes, and more details on technology, still not defined by FP5)**

- **Adaptation of the FCI IT architecture to the cybersecurity criteria approved so far by the ERJU Cybersecurity experts.**

TLP gelb (Adressatenkreis)