



***PROTECTRAIL (242270) - The Railway-Industry Partnership
for Integrated Security of Rail Transport***

SP5 PRESENTATION FOR THE KICK-OFF

Global Integration

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AGENDA FOR SP5

- **Scope**
- **Objectives**
- **Status of D.O.W.**
- **Deliverables**
- **Planning / milestones / dependencies / risks**



SP 5 - SCOPE

- The scope of SP5 is to integrate the set of functional and technical specifications taking into account security requirements defined in SP2.
- This integration will define a system design (software, hardware and network architecture), specifying the interfaces onboard of trains and within the railway infrastructure (along the tracks and within the stations).

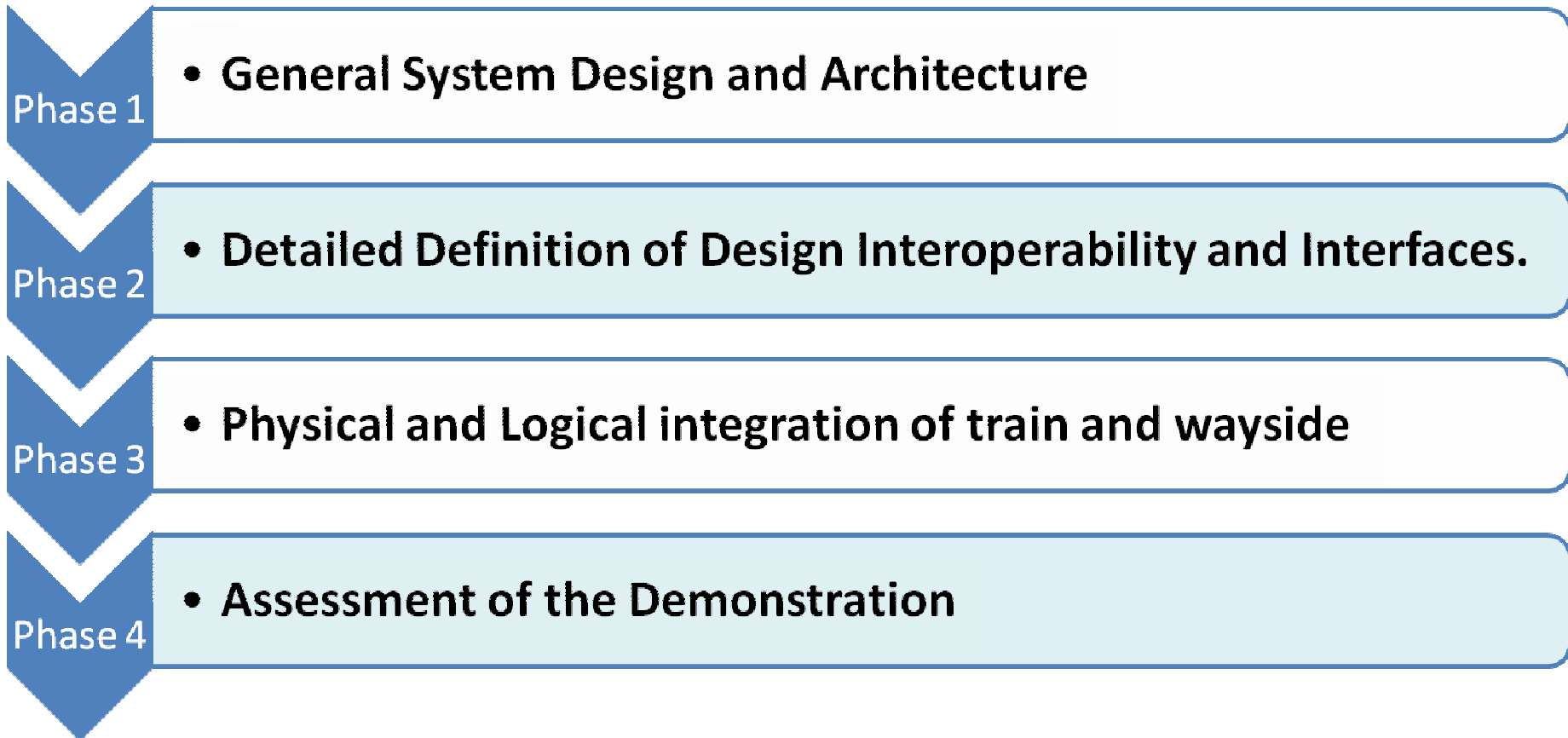


SP 5 - OBJECTIVES

- The objective of SP5 is to propose *a coherent architectural and design framework* for the submission projects, which will ensure that from design to operational field acceptance, the proposed *solutions share the same relevant interfaces and constraints*



SP 5 – SUMMARY OF PHASES





SP 5: WPS AND DELIVERABLES

SP5 will embrace the following Work Packages:

- **WP51:** General architecture design
- **WP52:** Interoperability design and interfaces
- **WP53:** Passenger train on-board architecture design and integration
- **WP54:** Freight train on-board architecture design and integration
- **WP55:** Fixed installations architecture design and integration
- **WP56:** Crisis Management
- **WP57:** On-board and way-side equipment installation
- **WP58:** Modularity demonstration and integrated system validation demonstration
- **WP59:** Cost / benefit assessment of result.



SP 5 - DELIVERABLES

D-Num	Delivery Title	Lead	Delivery Date (Month)
D51.1	General software, network and telecommunications architecture and integrated design	Thales 3S	24
D52.1	Detailed design with interoperability and interface specifications & interface communication documentation	Thales 3S	28
D53.1	Detailed design of Passenger train on-board architecture	Bombardier Transportation	30
D54.1	Detailed design of Freight train on-board architecture	Bombardier Transportation	30
D55.1	Detailed design of Fixed installation architecture	Thales 3S	30
D56.1	Crisis management architecture requirements	Selex Sistemi Integrati	30
D56.2	Training programmes	Selex Sistemi Integrati	30
D57.1	Onboard and wayside equipment installation	PKPPLK	35
D58.1	Integrated in-field demonstrator	Thales 3S	38
D58.2	Integrated in-field demonstrator report	Thales 3s	39
D59.1	Economical and usability analysis report	DUCTIS	40

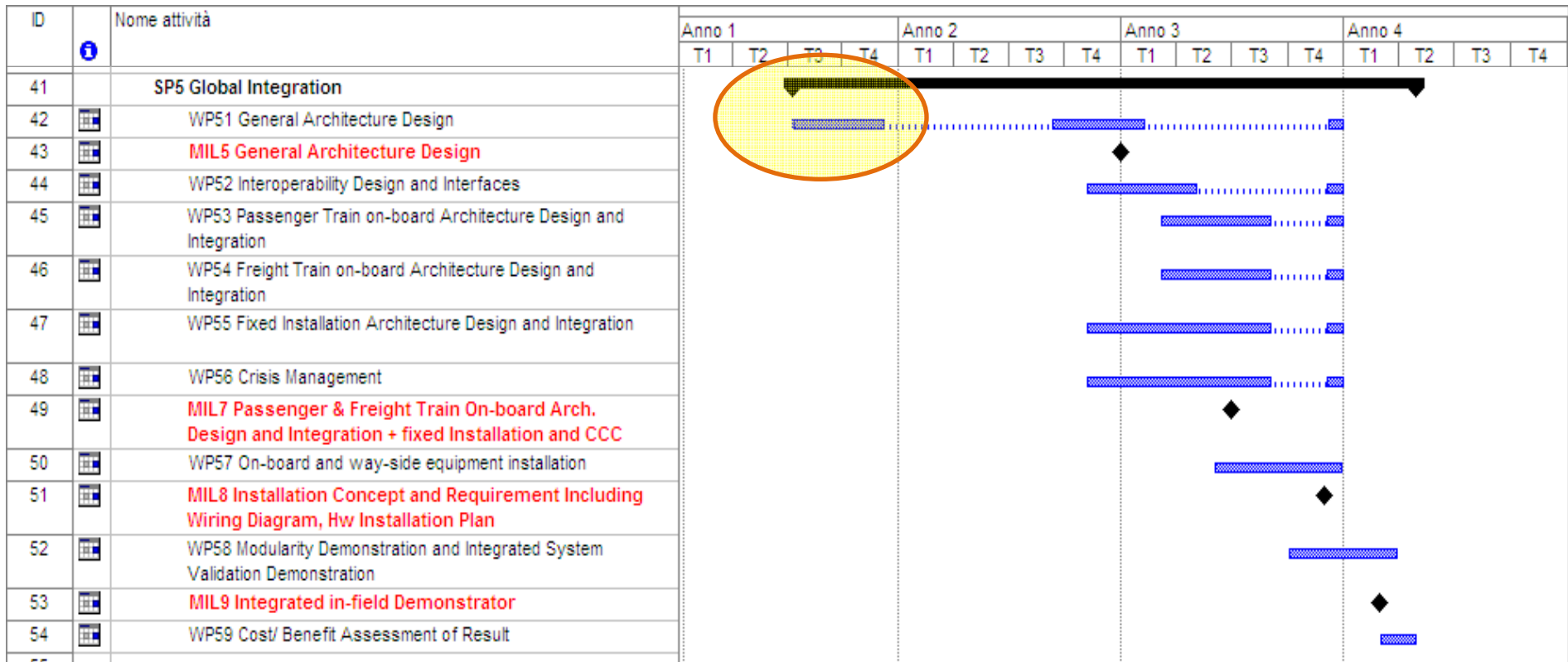


SP5 - PARTICIPANTS

- **ATS**
- **TNO**
- **ED**
- **SSI**
- **BT**
- **ALS**
- **TS3**
- **SARAD**
- **DUCTIS**
- **PKPPLK**
- **DAPP**
- **ESL**
- **EPPRA**
- **RCA**

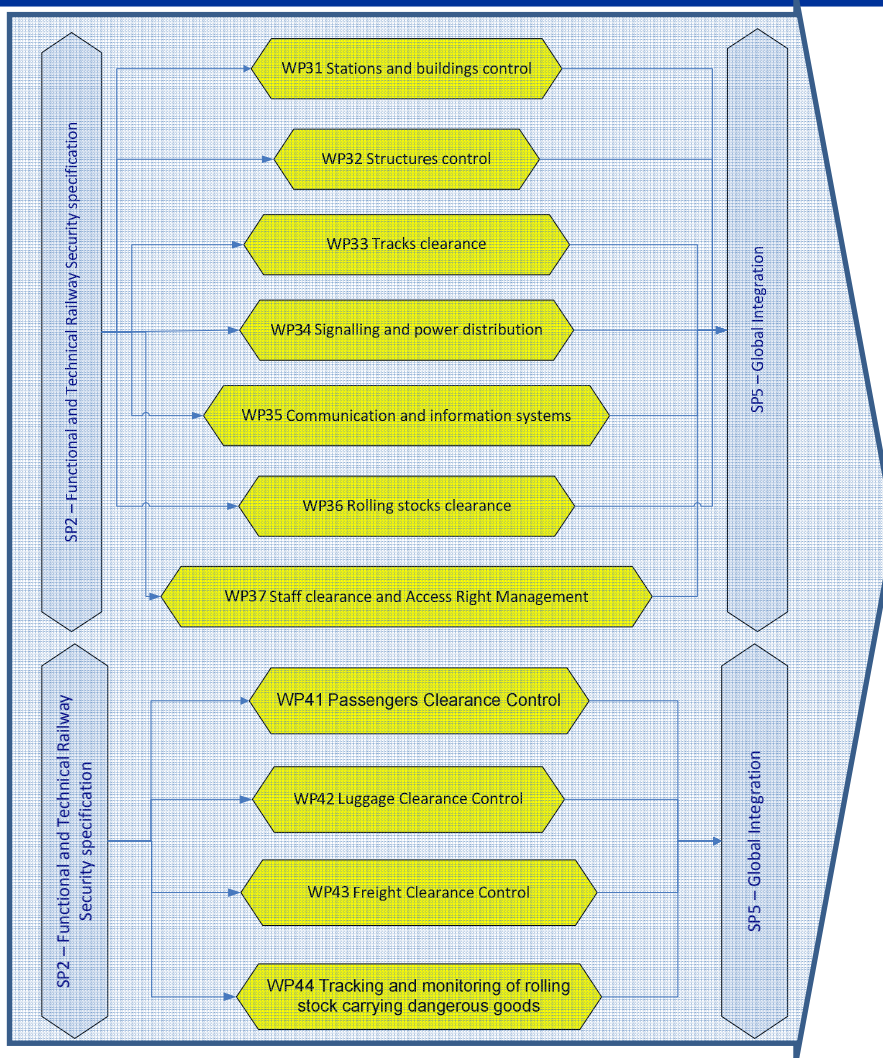


PLANNING / MILESTONES / DEPENDENCIES / RISKS





SP5 - DEPENDENCIES



Global Integration is dependent on everyone....

Dependencies include:

- Consensus on architecture and interface definitions
- Delivery of functional elements on time
- Clear set of expectations of demo
- Clear set of testable/demo scenarios
- Availability of resources and equipment
-



SP 5: STATUS OF DESCRIPTION OF WORK

- Currently no changes to DOW
- However, recommend:
 - **Internal Project Deliverable of General Architecture**
 - (kick-off sooner than month 8)



SP5 – KEYS TO SUCCESS

Keys to success of Global Integration:

- **Clear methodology for requirements gathering**
- **Clear architecture and interface definitions**
- **Clear understanding/expectations for demos**



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