

## **DECISION OF THE SYSTEM PILLAR STEERING GROUP**

**endorsing the document Granularity Concepts and Principles**

**N° 6/2023**

THE SYSTEM PILLAR STEERING GROUP OF THE EUROPE'S RAIL JOINT  
UNDERTAKING, NOTES

- To define an architecture and approach to harmonisation, principles on the granularity, i.e. the extent to which modularization shall be performed in the system, needs to be determined.
- Modularisation consists in determining the size and number of interfaces to harmonise in a particular system.
- There is a benefit-cost trade-off between increasing or decreasing the number of interfaces to harmonise. For example, all else equal, a larger number of interfaces may increase the interchangeability and flexibility of a system at the cost of greater complexity and integration risk.
- Therefore a framework to provide guidance on whether new harmonised interfaces should be created is important in the overall development of an architecture.
- The document “Granularity Concepts and Principles” (see annex) seeks to provide this guidance.
- The document was developed in the Task 2 ARC team, and is primarily focussed on the CCS system, but the principles will have broader applicability outside of Task 2.
- The current document will be updated in the future, including the incorporation of economic assessment rules.
- That the document has followed the System Engineering Management Plan review and approval process.

THE SYSTEM PILLAR STEERING GROUP OF THE EUROPE'S RAIL JOINT  
UNDERTAKING, AGREES

- That the document “Granularity Concepts and Principles” shall be used as a guideline by the System Pillar Task 2, and for other Tasks where applicable, in defining the overall architecture.