

# Elaboration of a Future Architecture for Interoperable IT Systems



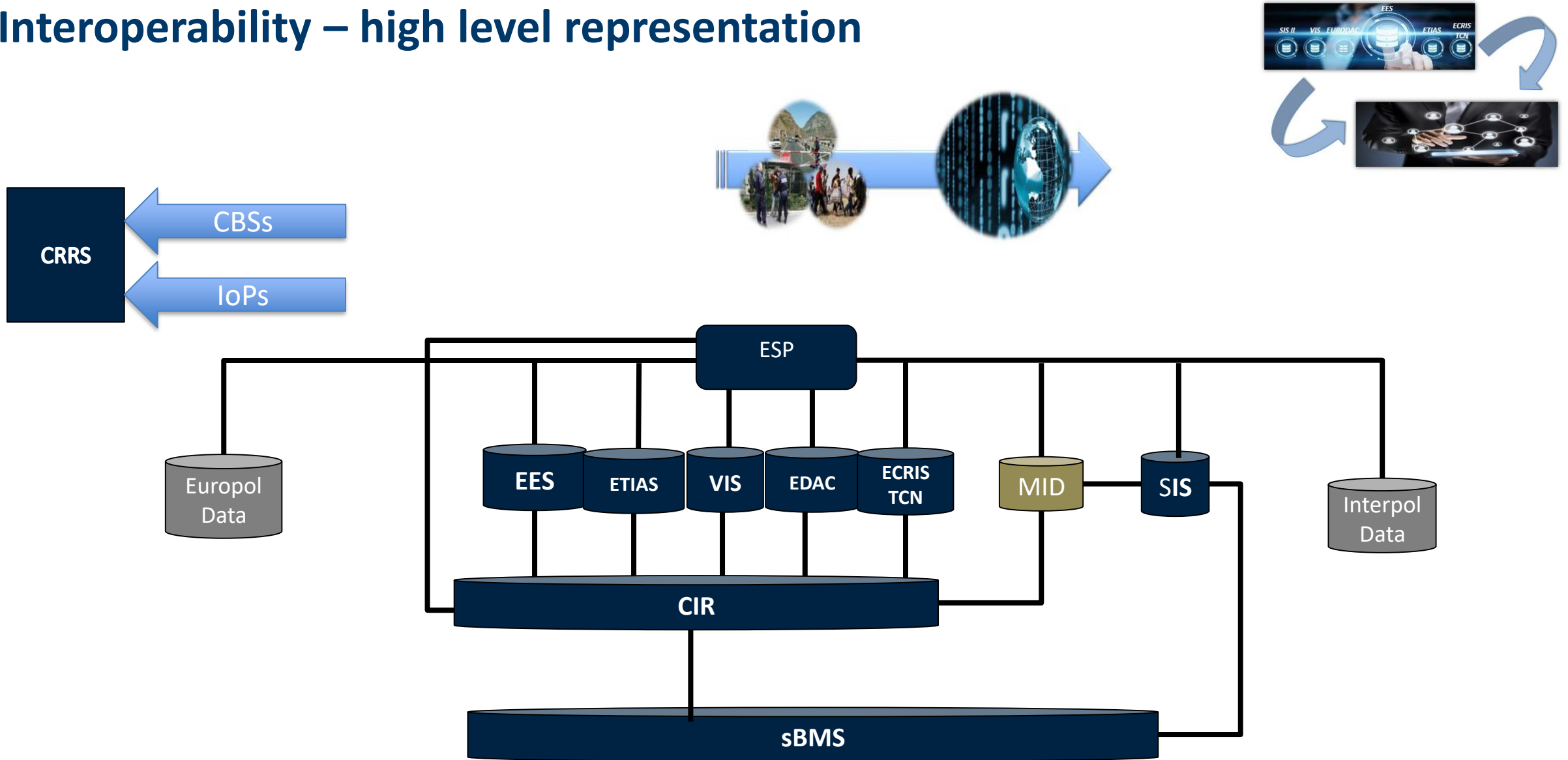
**Ana Maria RUGINIS ANDREI**

Head of Architecture Sector

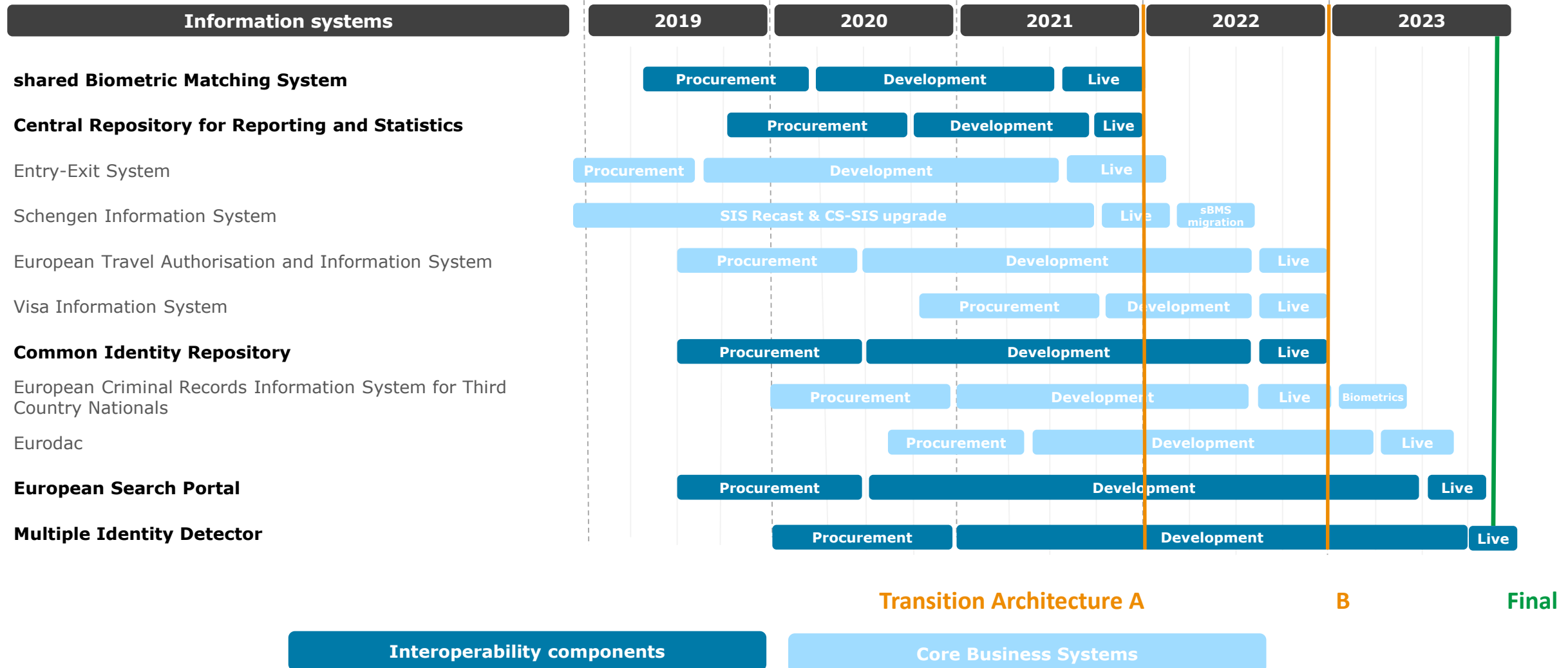
Planning & Standards Unit



# Interoperability – high level representation



# Indicative Timeline – Implementation Plan Roadmap (mapped on COM's Timeline)



# Indicative Timeline – Migration Plan Roadmap

## shared Biometric Matching System

Entry-Exit System

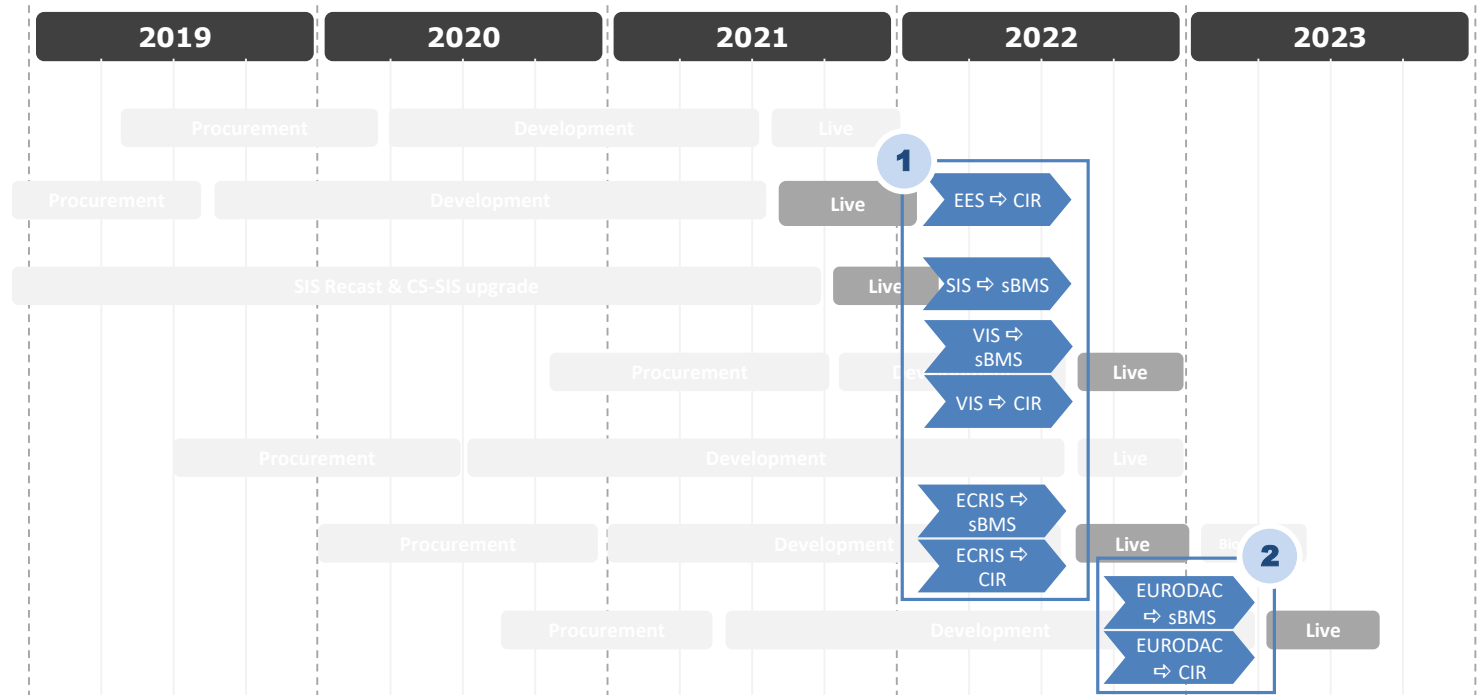
Schengen Information System

Visa Information System

## Common Identity Repository

European Criminal Records Information System for Third Country Nationals





Eurodac

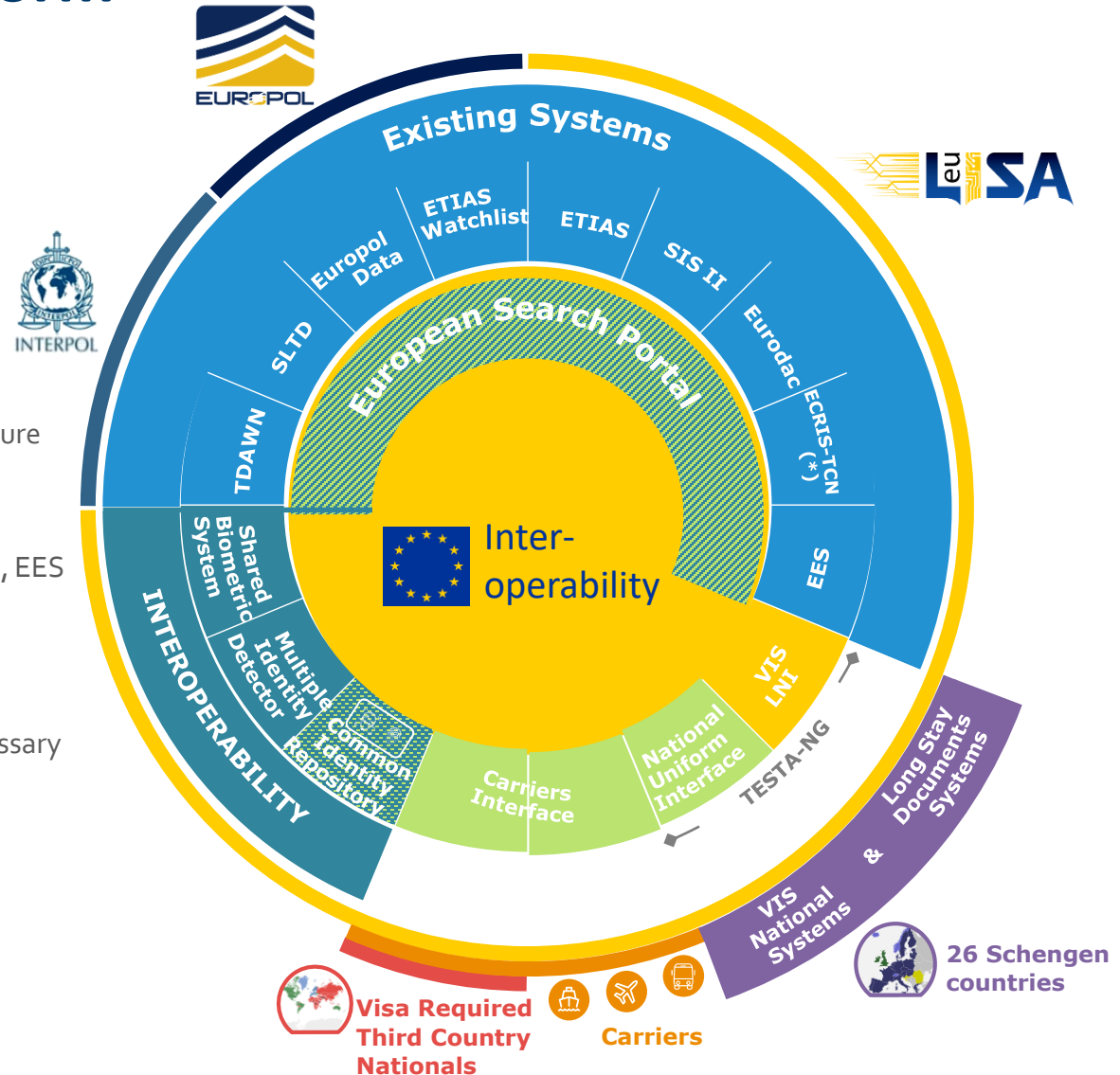


## Two large migration phases

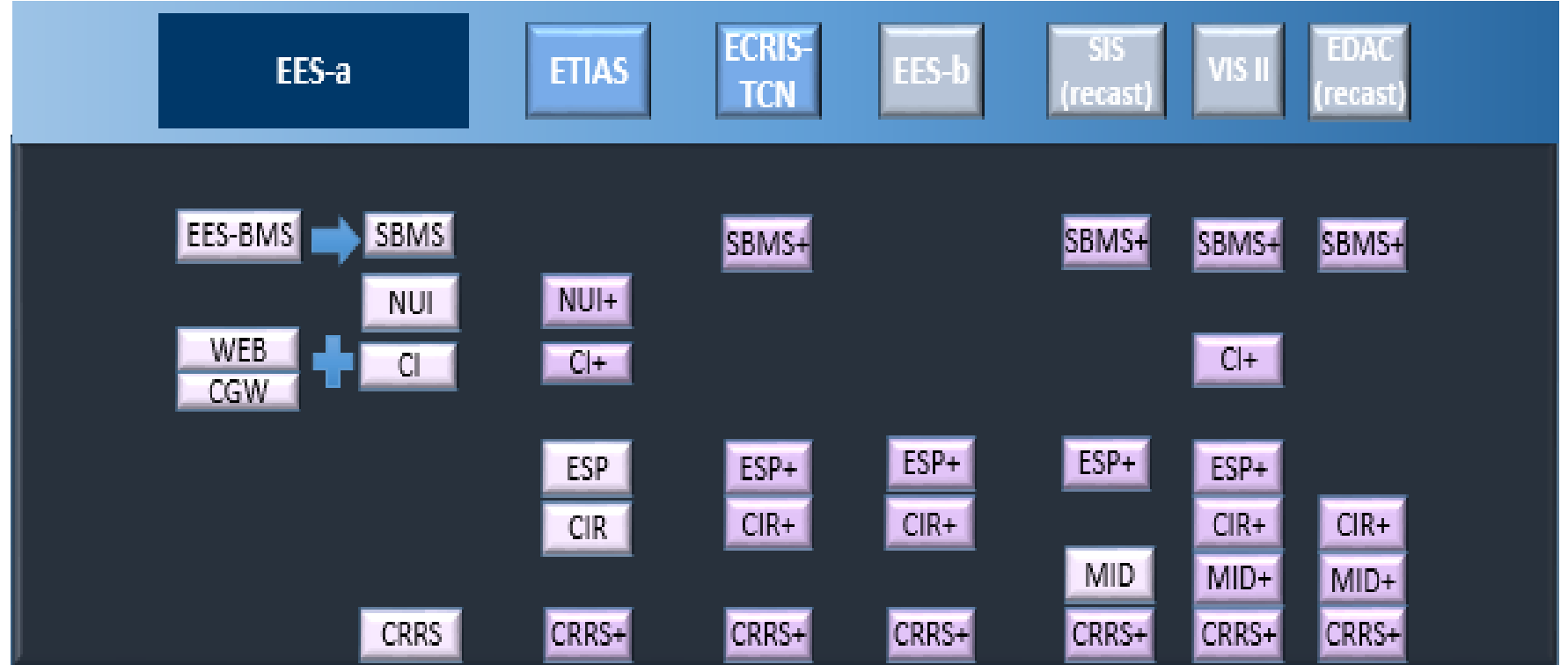
- 1 • Mid 2022: VIS, SIS, EES, ECRIS
- 2 • End 2022/Early 2023: Eurodac

# Common Interoperable Platform

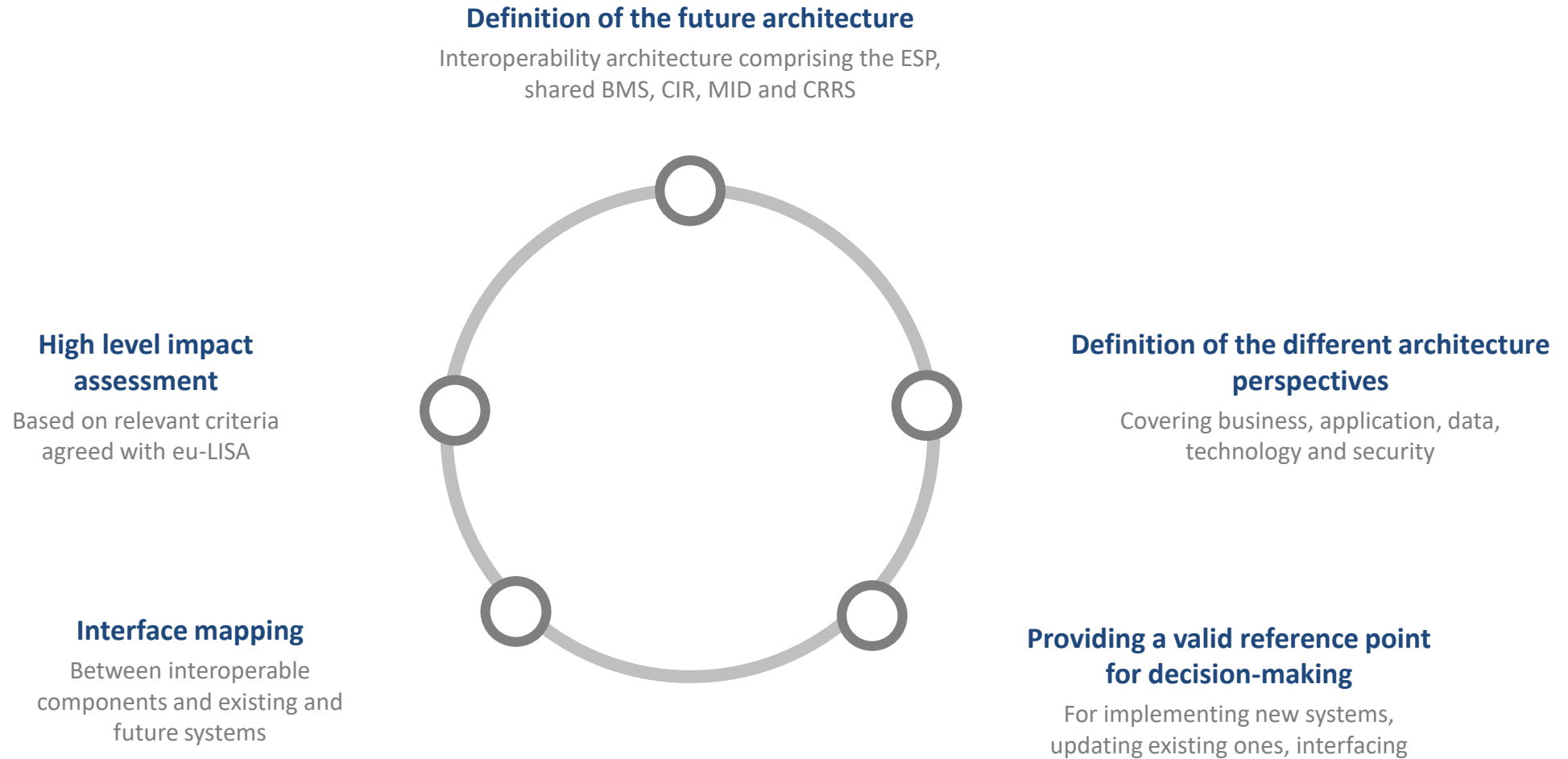
-  Interoperability – full implementation picture
-  Re-usable assets and interfaces across VIS, EES and ETIAS
-  Enhancement of existing systems as necessary
-  Interoperability components providing:
  - An interface to other systems ESP
  - A common identity repository
  - A shared biometric matching system
  - Multiple identity detection capabilities



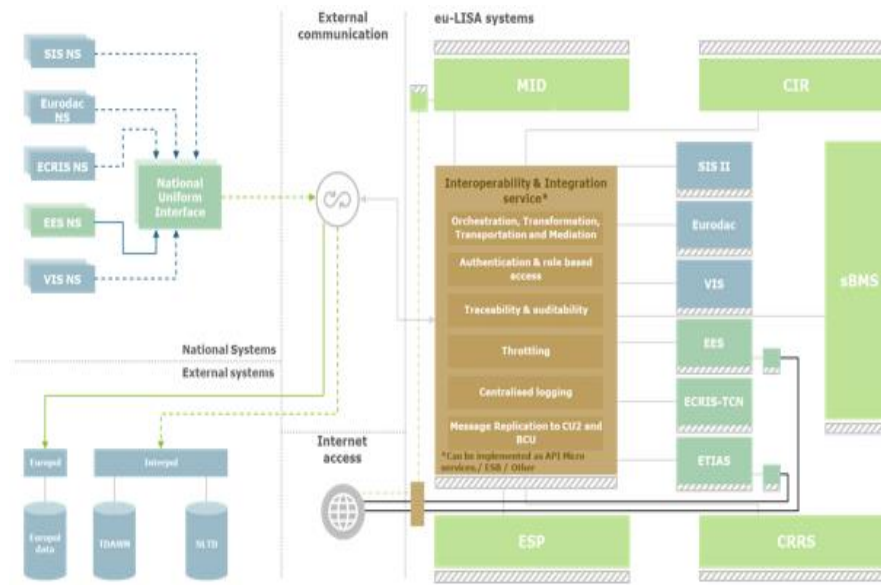
# Interoperability roadmap (systems view/dependencies)



# Interoperability Architecture Study - Objectives

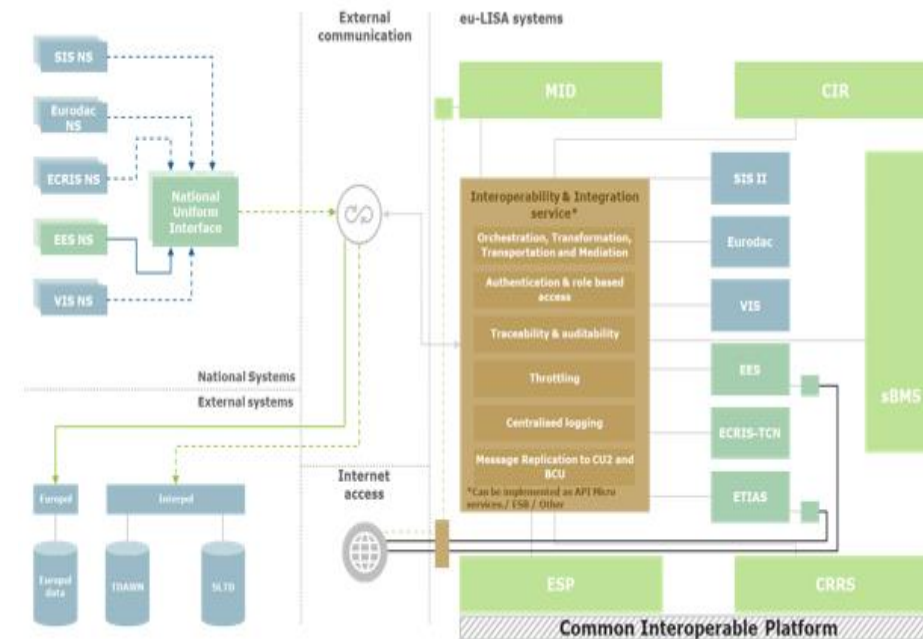


# Interoperability Architecture Study Options to be Considered



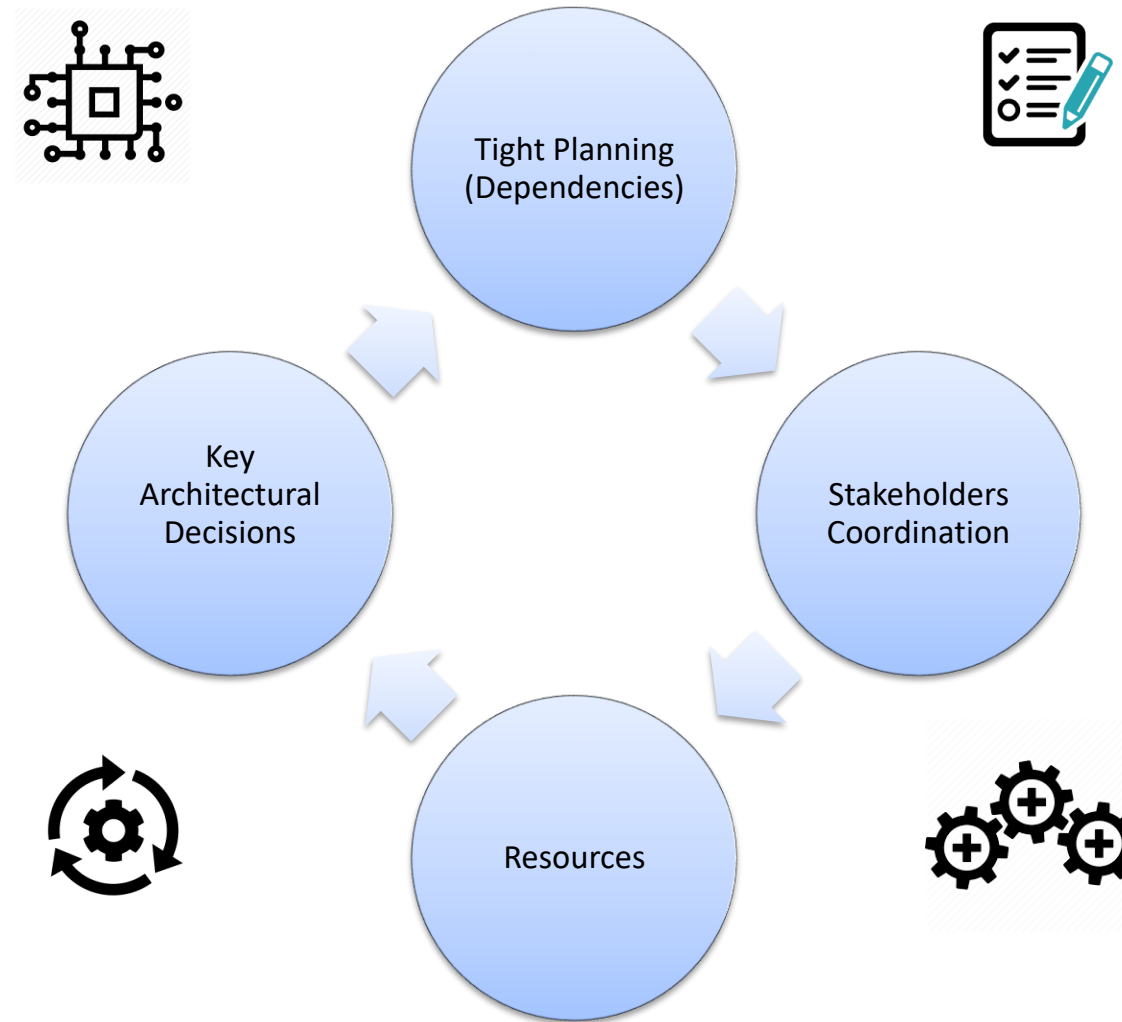
Option 2  
*Integration*

Option 3  
*Unification*





# Interoperability Implementation - Risks/Dependencies



# Key Success Factors - Interoperability & Transversal Working

## Effective, Decisive and Standardised Interoperable Design

- Create and maintain a target architecture
- Make all necessary architectural decisions
- Resolve technical issues

## Evolve Towards a Common Interoperable Platform

- Design the assets fitting the corporate strategy and procurement roadmap (top down)

## Operate at Large-Scale and Pace (in line with SLAs, RTO, RPOs, etc.)

- Refining procurement strategy
- Governance across multiple work streams
  - Management of the existing CBS maintenance contract

## Cooperation with COM, Agencies and MS

- Technical and Operational Cooperation (use-cases coverage)
  - Openness for data sets standardisation and data quality harmonisation
- Readiness of MS and Agencies



# Implementation is a SHARED responsibility

*"We want to connect all the dots, not just legally but also operationally – and a stronger and more efficient eu-LISA will precisely help us do this."*



Commissioner Dimitris Avramopoulos



**Collective  
exercise and  
responsibility**

**Paradigm shift  
from silo towards  
holistic approach**

**Pro-active  
contribution of  
stakeholders**

Thank you for your attention

