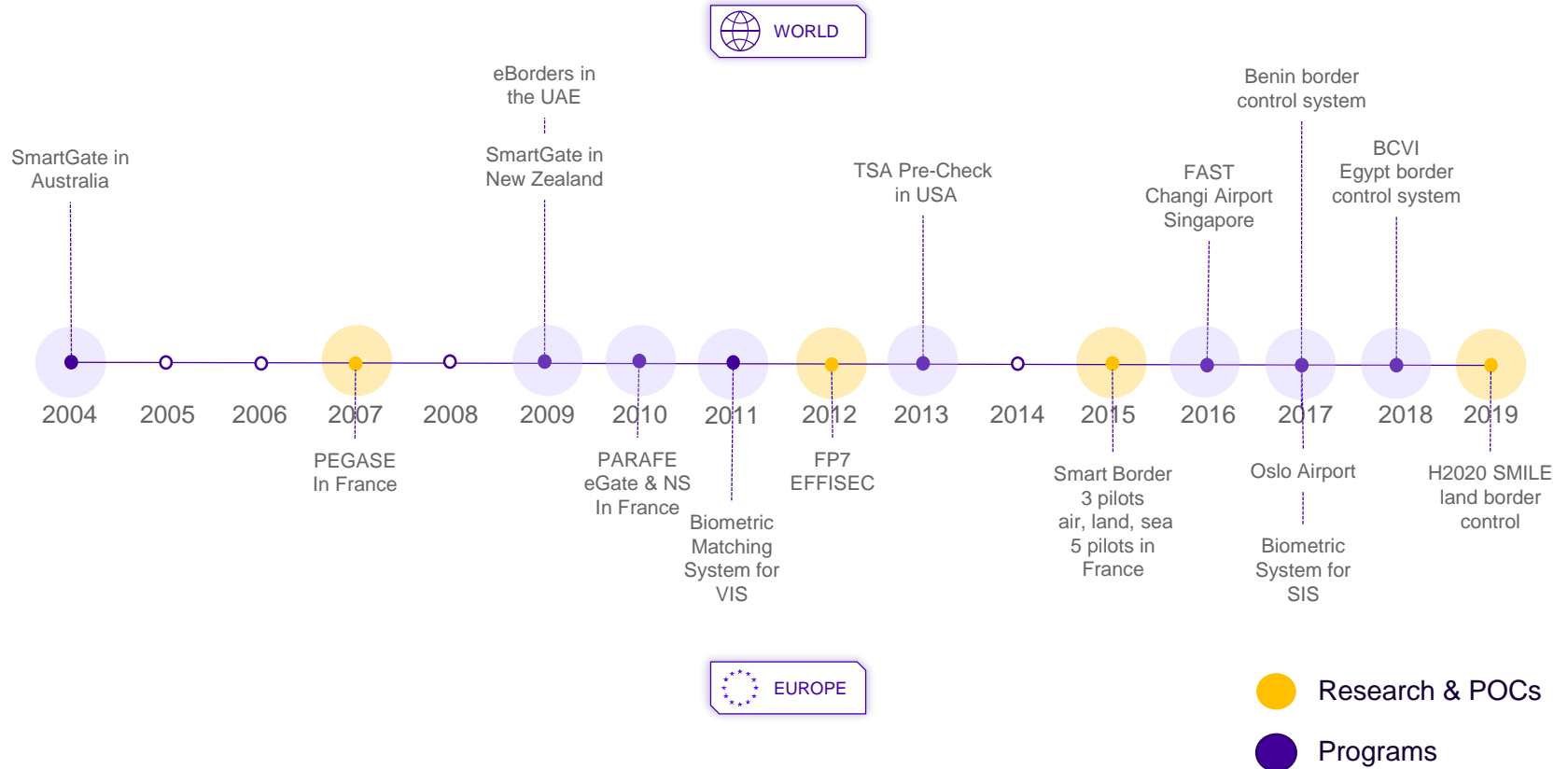


# Custom-made business services versus standard identity and biometric solutions

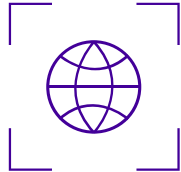


## Selected References in Europe and Abroad



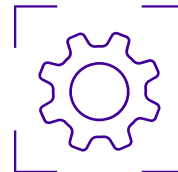


# Global trends on border control initiatives



WORLDWIDE

- Countries have **different laws**, heterogeneous organizations, but **common issues**
- Beyond local **variability** they all face the **same ID management needs**



LEGACY

- Clients have a history:
- We often offer **biometrics add-on** on a **legacy system**
  - **Migration** and **integration** are recurring key topics



BIOMETRICS

- Governments turn to biometrics:
- Need for **enrolment terminals** and **biometric recognition**
  - These solutions always integrate in a more **global solution**



SEAMLESS

- Ease of use is an important criteria:
- **User experience** shall not depend on integration issues
  - We promote **open standards** for solution components to be replaced without impact



# REX 1 : Standalone solutions no more exist

1

## PART OF A WHOLE

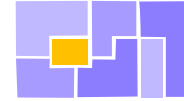
Comprehensive immigration solution management is scarcely the object of a single contract



2

## SPECIALIZED

Because you cannot be specialist of everything, big contracts and research projects are usually addressed by consortiums



3

## EVOLVING

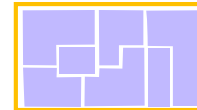
Laws evolve, new components appear in the landscape: a solution does not remain the same for a long period.



4

## OPEN

Customers do not want to be tied to a provider through monolithic proprietary systems

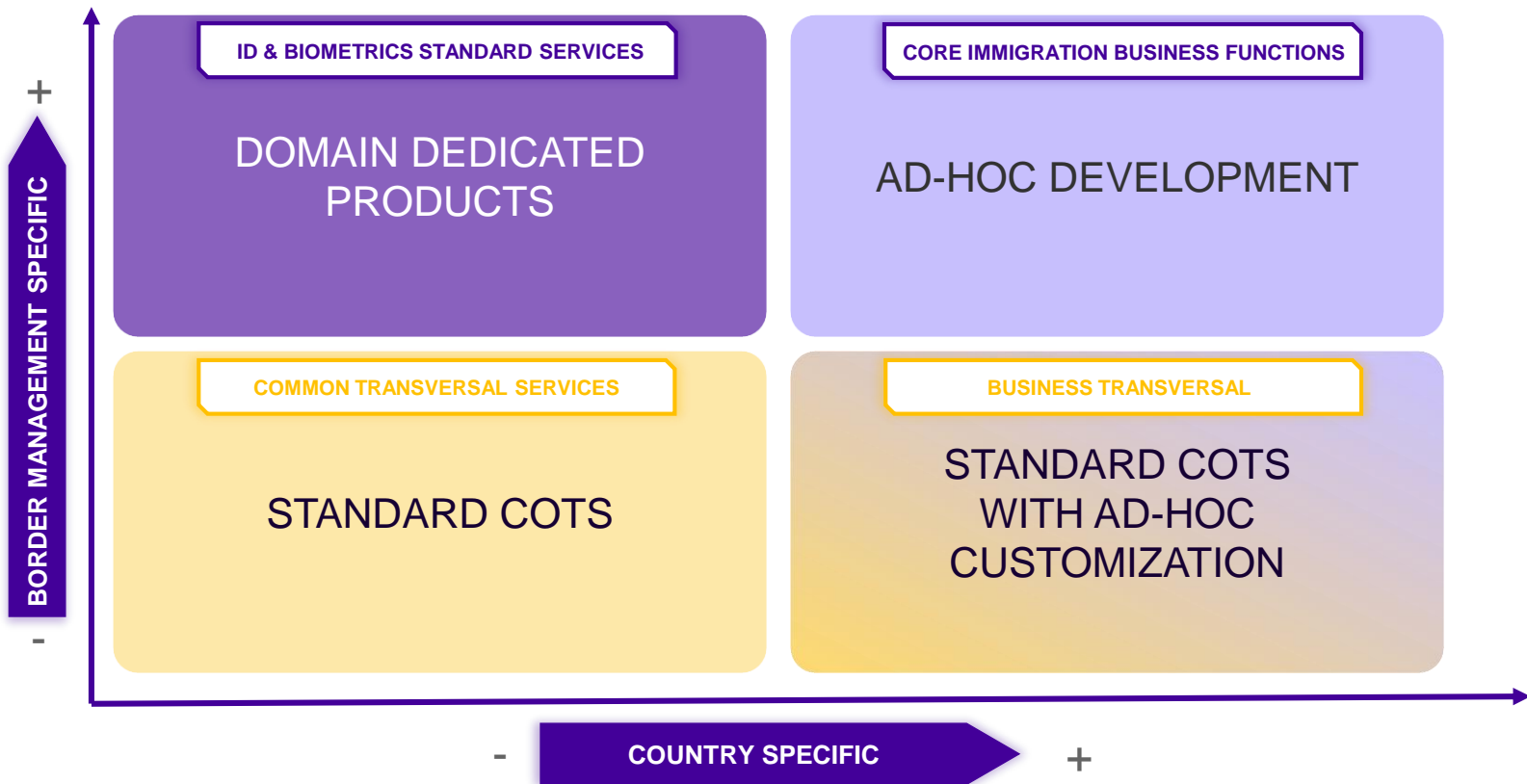


Need for **interoperability & modularity** in our solutions



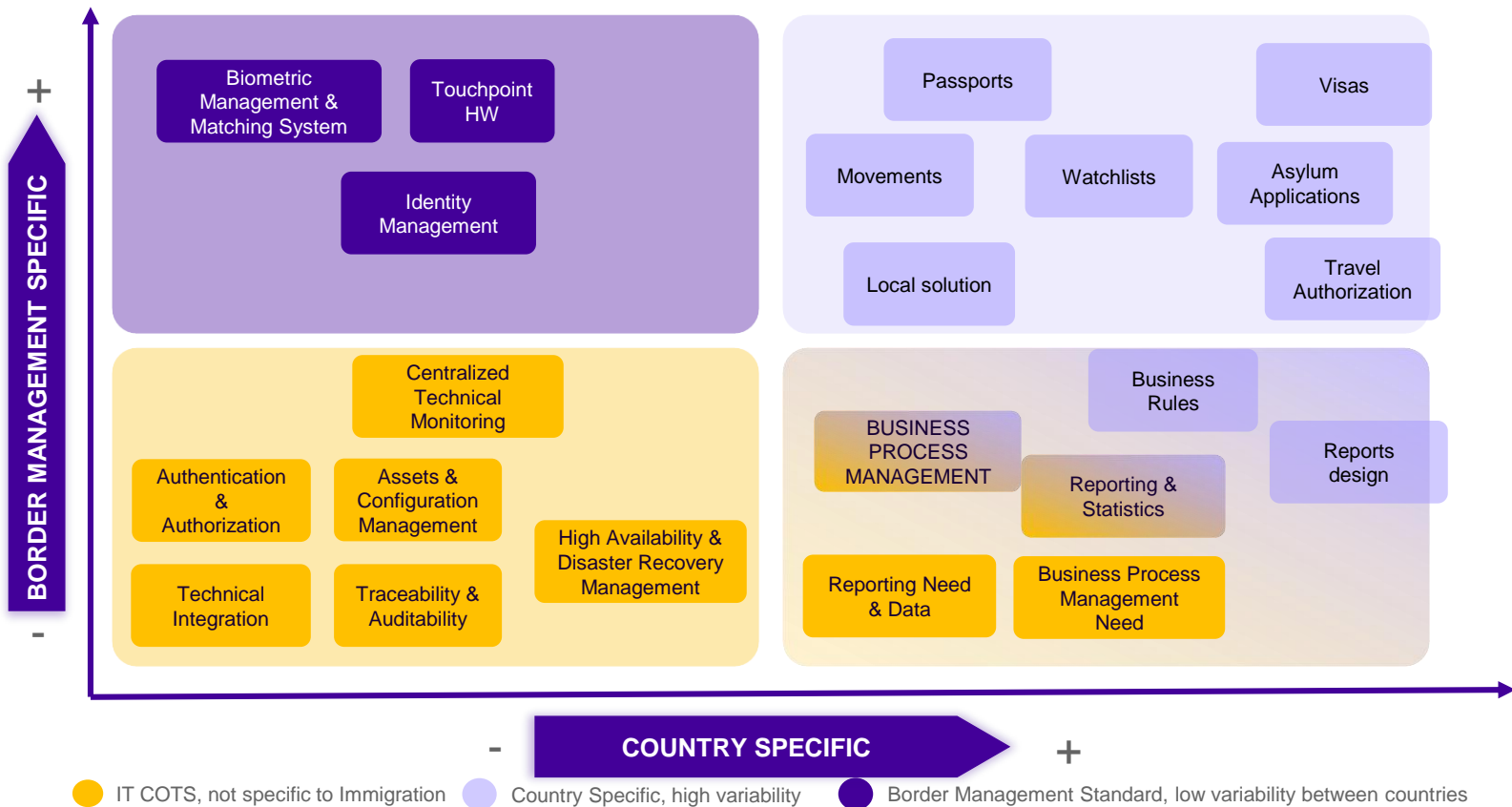


# REX 2 : Solutions cover a mix of custom and generic needs



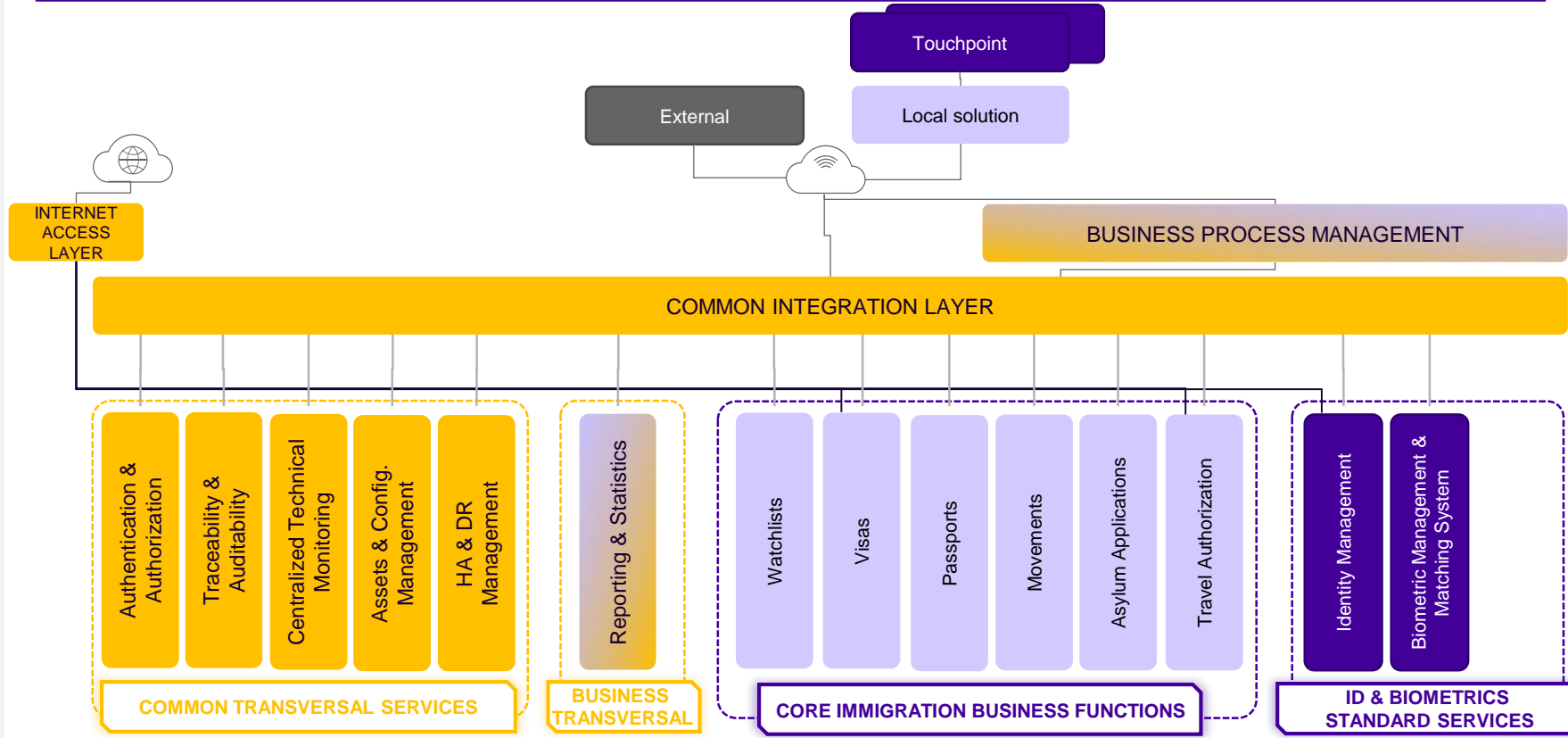


# REX 2 : Solutions cover a mix of custom and generic needs



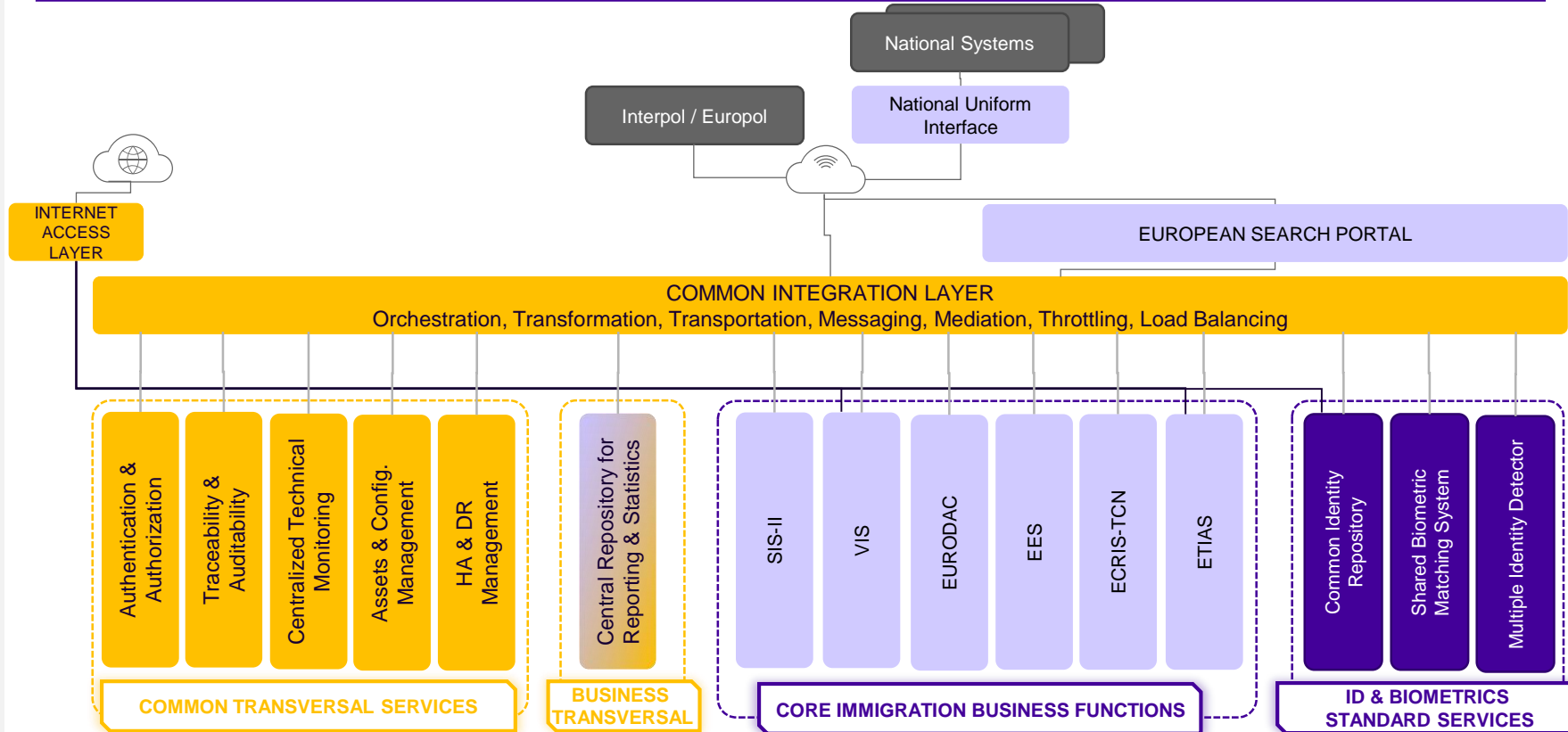
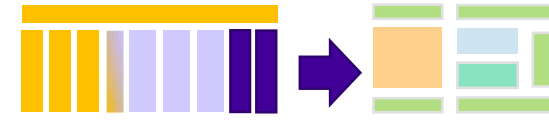


# IDEMIA Augmented Borders® Architecture





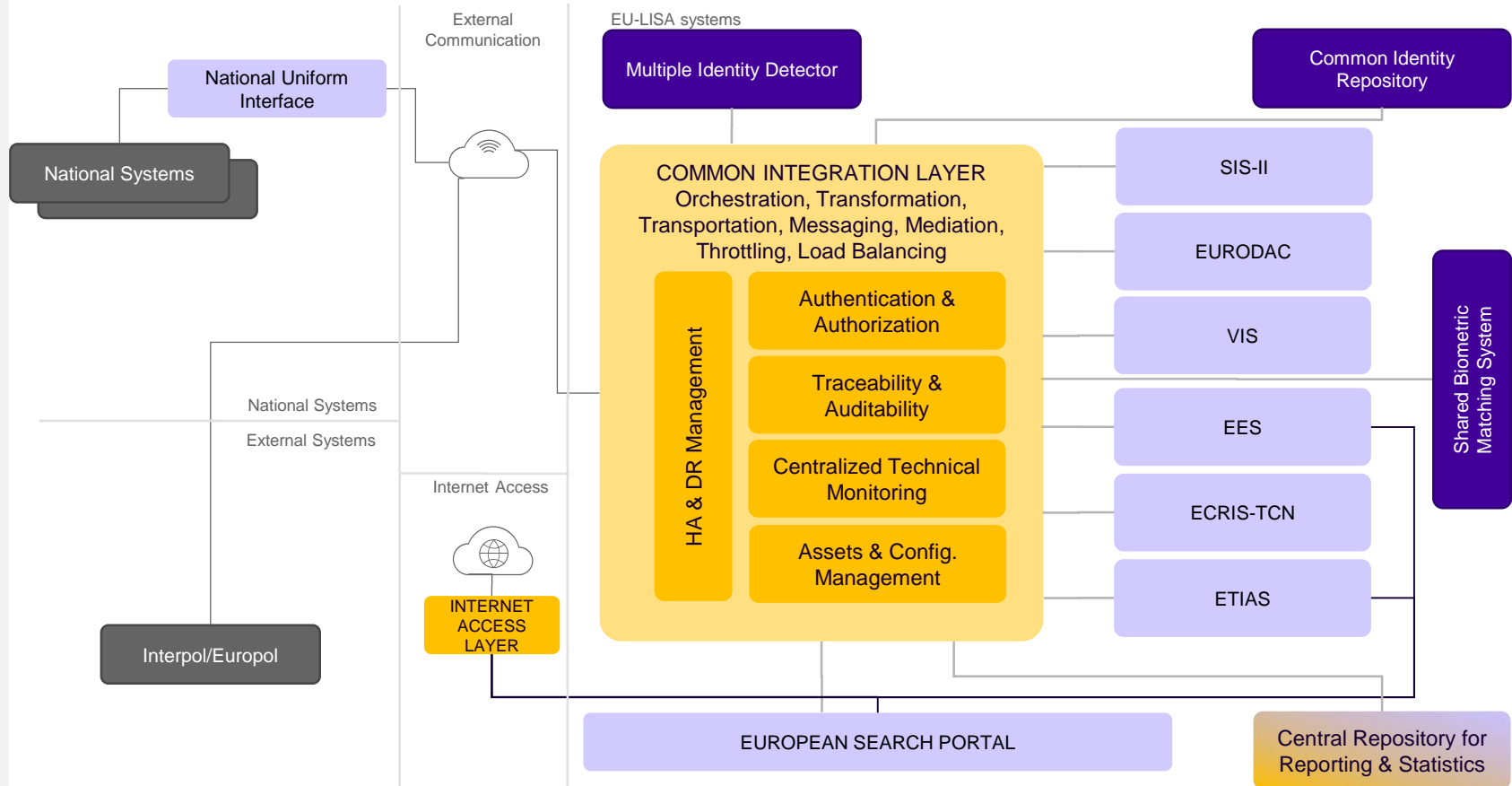
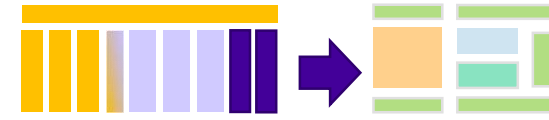
# EU-LISA interoperability platform





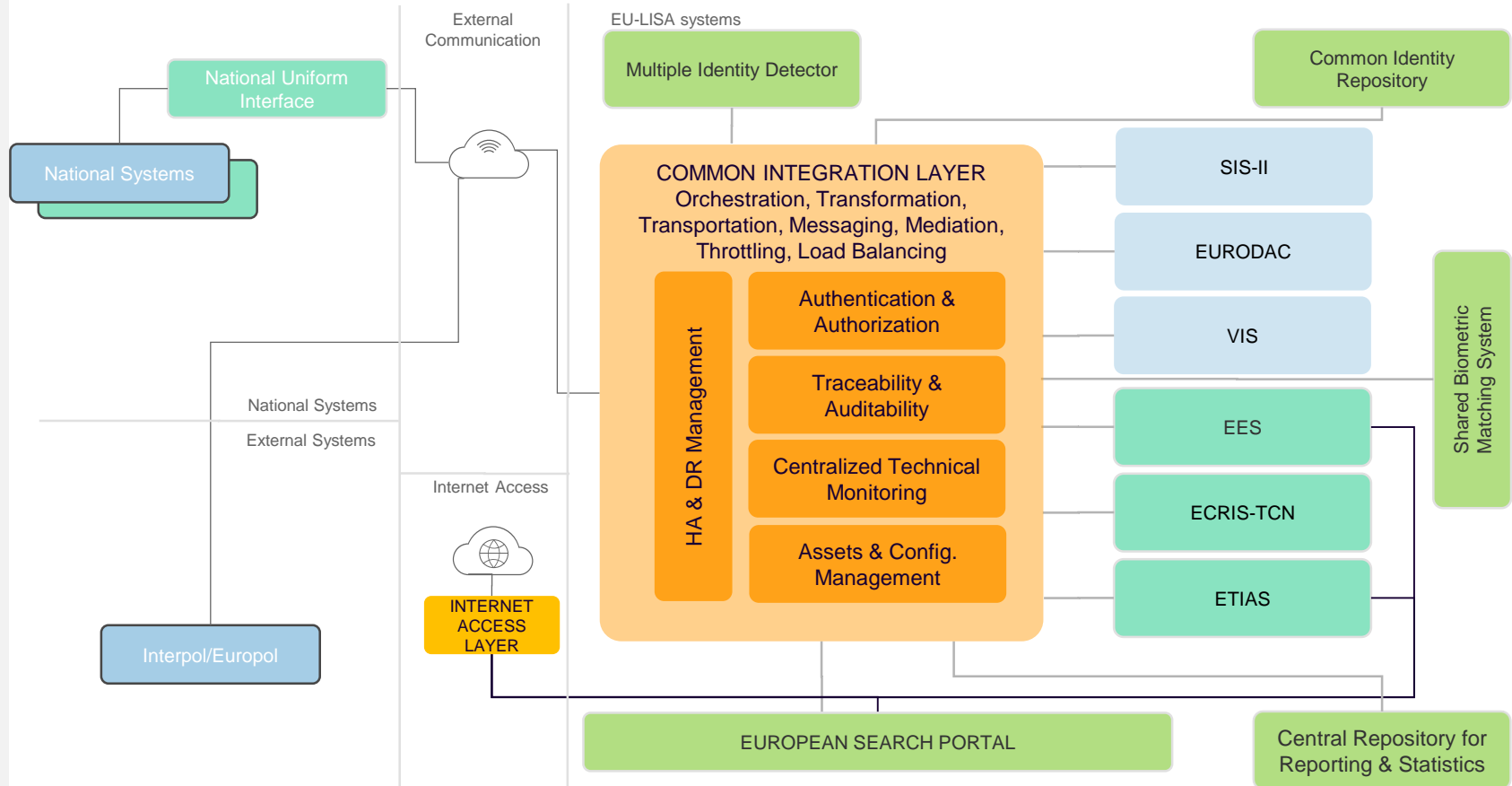
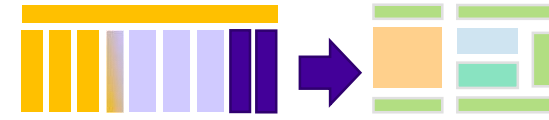


# EU-LISA interoperability platform





# EU-LISA interoperability platform





# Focus on business specific components



## CORE IMMIGRATION BUSINESS FUNCTIONS

### BUSINESS ORIENTED

Management of business-specific data

### COUNTRY SPECIFIC

- Closely linked to **local regulations**: output elements, data to be collected, data to be saved
- Reflects the **operational processes**: because governmental agents already have processes and procedures to apply
- Interconnected to local systems

Requires **re-usable components** with **custom-development** capabilities

## ID & BIOMETRICS STANDARD SERVICES

### FUNCTIONALLY SIMPLE

Enable to identify and authenticate a person

### TECHNICALLY TRICKY

I identify / authenticate:

- **One person**: No duplicate of information
- **The right one**: Reliability of the identification / authentication
- **Whoever he/she is**: Universality of the solution
- In the respect of nationals & internationals **standards & regulations**
- **Whatever his/her situation**: Management of data lifecycle

Requires a high level of **expertise** and **mature standard solution**



# Value-added of standard Identity services



## ID STANDARD SERVICES

### Main Functions

- ID Data Storage & Lifecycle management
- ID Data access / search
- Management of a reliable ID register

### Main Expertise

- Normalized and non-normalized identity fields
- Transliteration management
- ID Search / ID Matching resilient to orthographic errors and different transliteration policies
- ID evolutions along the individual's life

### Key Topic

Tranversal management of coherence between different identities and several biometric features

## BIOMETRICS STANDARD SERVICES

### Main Functions

- Biometrics data encoding & Lifecycle management
- Identification / authentication
- Management of a reliable biometric register

### Main Expertise

- Reliability of identification and authentication algorithms (FAR / FRR)
- Management of the different biometric modalities
- Modality-fusion strategies
- Tolerance to real-life conditions of data acquisition
- Biometrics eldering management





# Synthesis

USING 2 AXES FROM OUR RETURN ON EXPERIENCE, WE DEFINED ARCHITECTURE PRINCIPLES :

1

Standalone solutions no more exist

2

Solutions cover a mix of custom and generic needs

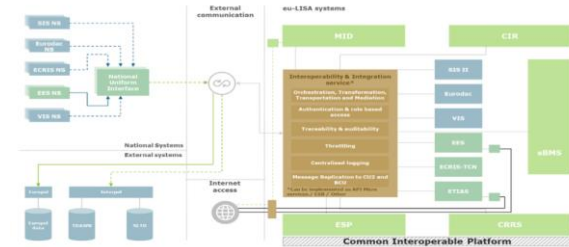
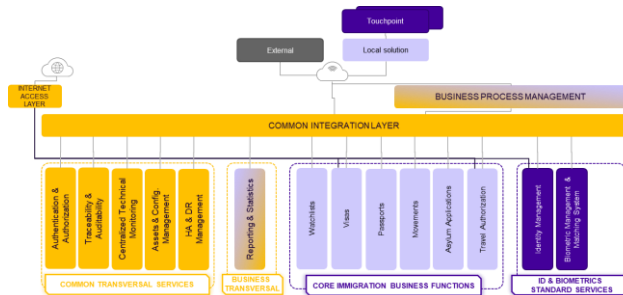


BE MODULAR &  
INTEROPERABLE

USE COTS WHERE  
ADAPTED



WE PRESENTED OUR SOLUTION ARCHITECTURE AND MAPPED IT TO EU-LISA INTEROPERABILITY ARCHITECTURE



AND WE FOCUSED ON THE EXPERTISE LEVEL ATTACHED TO IDENTITY AND BIOMETRICS MANAGEMENT



# Business-specific COTS usage

COTS usage is a **good practice** for low variability components

If generic, non-business specific COTS are wide-spread, especially for technical needs, **specialized COTS** for business-specific matters should also be considered:

- 1 They encapsulate strong business expertise
- 2 They include the results of years of research & development
- 3 They represent a real value-added, being widely field-proven

**THE COMMON IDENTITY REPOSITORY (CIR) AND THE MULTIPLE IDENTITY DETECTOR (MID) ARE GOOD CANDIDATES TO BE IMPLEMENTED LEVERAGING BUSINESS-SPECIFIC COTS**

# Contact



**Emmanuel WANG**

VP Border Control & Passenger Flow Facilitation

**Market & Product Offer | Public Security & Identity**

**E. Emmanuel.Wang@idemia.com**

**M. +33 6 34 32 28 76**