



Aries

reliAble euROpean Identity EcoSystem

H2020 Project Clustering
Athens, 31-01-2018

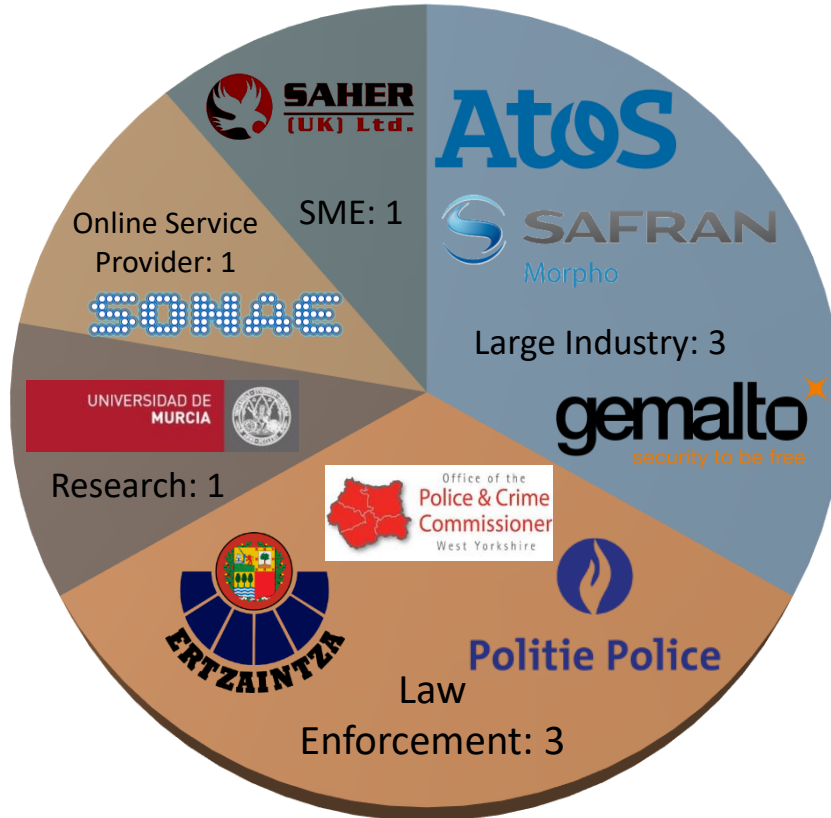
Jorge Bernal Bernabe, PhD,
University of Murcia (Spain)

aries-project.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 700085

The consortium



Atos
Project coordinator

UNIVERSIDAD DE MURCIA 

Technical coordinator



Introduction to the project

FCT-09-2015 Law Enforcement capabilities topic 5:
Identity Management

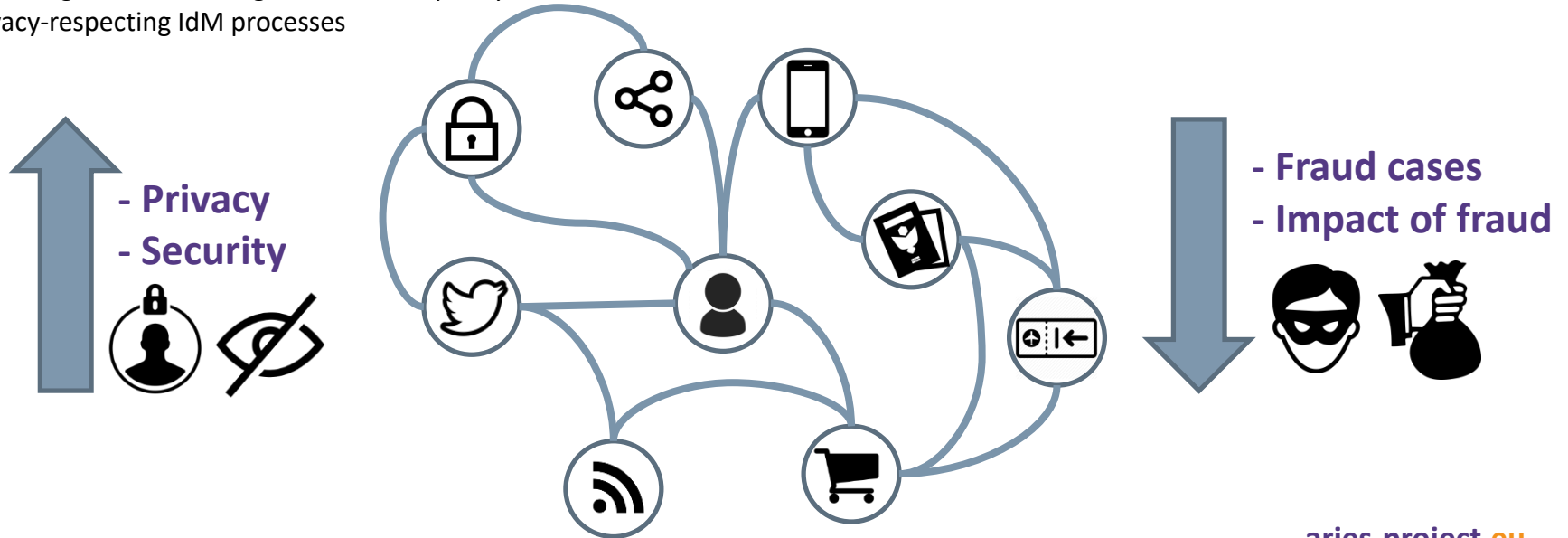
- **Set up an e-ID ecosystem**
 - Security
 - Efficiency
 - User friendliness
 - Trust
 - Privacy
 - Data protection



- Introduction
 - Objectives
 - Consortium
 - Use cases
- Aries Ecosystem Overview
- Architecture

1. Reliable **identity ecosystem**

- technologies to ensure highest levels of quality in secure credentials
- privacy-respecting IdM processes



2. Strengthen link between **physical** and **virtual** worlds

- breeder documents \leftrightarrow online and mobile identities
- High assurance elements (biometric verification)
- involvement of key security stakeholders



3. Address aspects of **identity-related crimes**:

-legal, ethical, socio-economic, technological and organisational aspects of identity-related crimes



Impersonation
ID spoofing

Personal Data robbery

Look a like

Bi-directional trust

Physical documents
forgery problems

Man in the mail

4. Validate ARIES' results

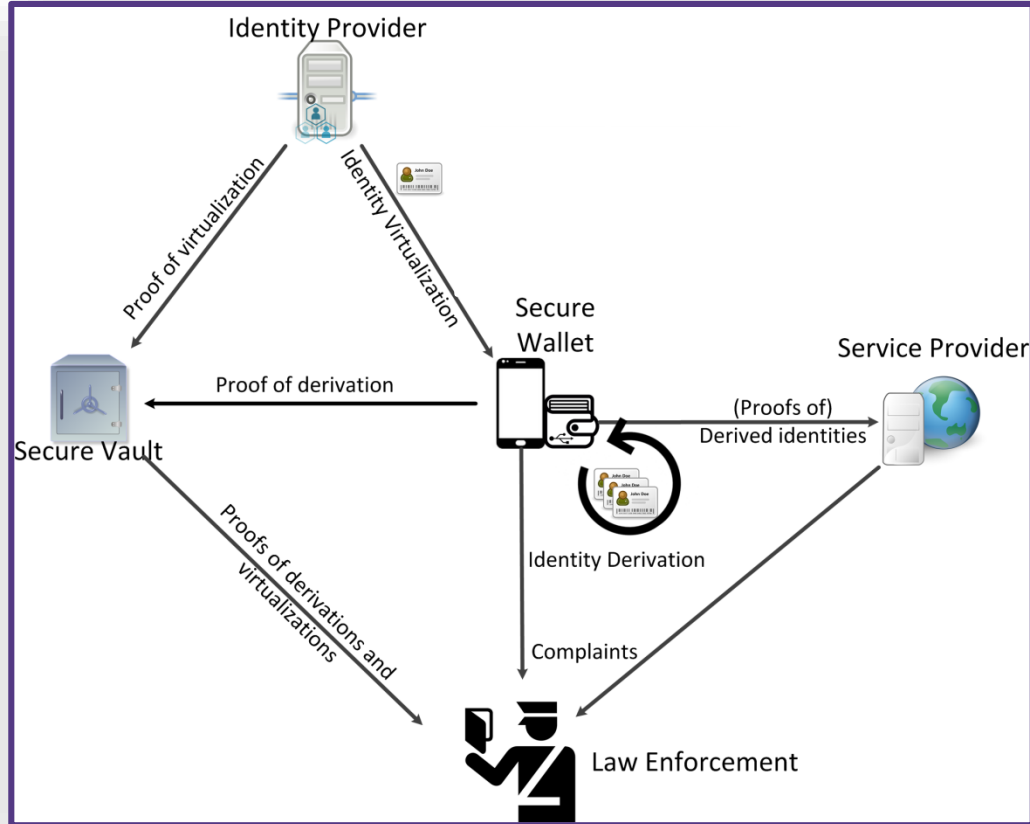
eCommerce



Identity Virtualization - Airport



Introduction – Aries Ecosystem Overview



ARIES IDBio

Create Account

Get your ID and Start your online self registration to create your safe Mobile ID!

Reading MRZ...

Reading MRZ...

MRZ Acquisition
Please focus the target area on the MRZ

Proceed

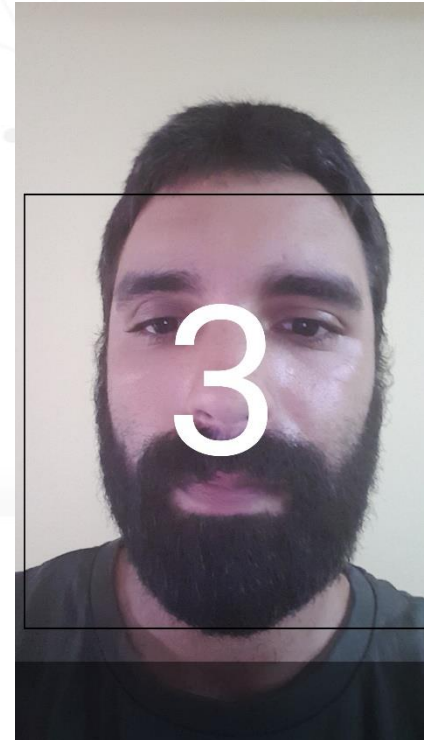
Place the MRZ of your document inside the target area

Passport Chip...

Passport Chip Reading


Cancel

Passport chip reading in progress



Summary

GONZALEZ REAI



EDUARDO

01/01/1970

Sex Male


Nationality France

Numerical ID: 07851679329

Portrait Authentication available. You are eligible to reach the Level of assurance 4 to enjoy all the Premium privileges.

Please correct and/or modify your details.


Mobile App



Proceed

Please confirm the creation of your authenticator handler with face recognition.

Mobile App



Welcome

EDUARDO GONZALEZ REAL !

- Your SW
- Your ID
- Your Cloud
- Tutorial

Manage access to personalized online service with a convenient authentication from here!

Registration Request

Set Verification Method

Choose a method to authenticate:

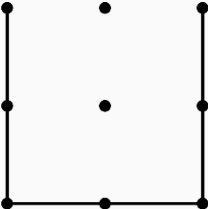
PIN

Pattern

Set Verification Method

Draw Pattern

Define the Pattern you will use to authenticate.



Continue

Pattern recorded

[Novo Registo](#) | [Perdeu a Palavra-passe?](#)

[CONTINENTE](#)
[CABAZ & FRESCOS](#)
[KASA](#)
[brinquedos](#)
[animais](#)
[ESCOLA](#)
[well's](#)
[CONTINENTE Negócios](#)
[ENTREGAZERO](#)

[Newsletter](#)
[Folhetos](#)
[Ajuda](#)
[Cartão Continente](#)
[Cartão Dá](#)

REDES SOCIAIS Siga-nos nas redes sociais.



APPS CONTINENTE Para facilitar a sua vida. [Ver apps](#)



[Magazine](#)
[Regresso às Aulas](#)
[Promoções](#)
[Manuais](#)
[Frescos](#)
[App Continente](#)



ENTRE NA LOJA ONLINE >

Authenticate with Aries Bio

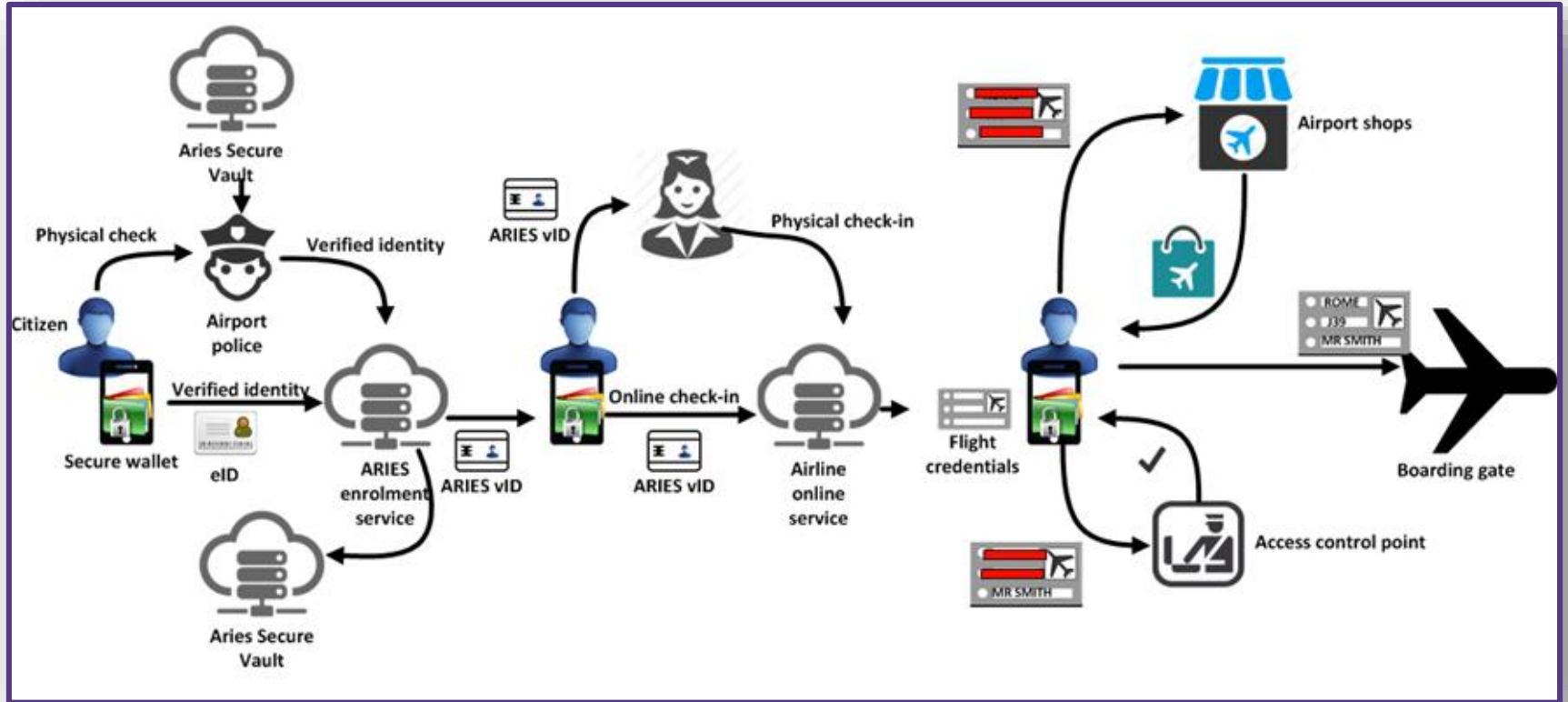


Enter your username

COESYS eGOV 2.0

IDENTITY PROVIDER BY GEMALTO

Identity Virtualization



- **Link physical and digital credentials**
 - **Identity derivation from breeder documents**
- **Privacy by design. Anonymous Credential systems**
 - **Minimal disclosure through Cryptography proofs**
- **Support Identity-fraud investigation by LEAs (secure vault)**
- **Secure wallet**
- **Two factor strong authentication**
 - **Biometrics (face, voice,...)**
- **User centric and device centric solution**
 - **Mobile PKI, OpenID**



UNIVERSIDAD DE
MURCIA



gemalto
security to be free



SAFRAN
Morpho



SAHER
(UK) Ltd.



Office of the
Police & Crime
Commissioner
West Yorkshire



Politie Police



Jorge Bernal Bernabe, Ph.D,
Department of Information and Communication Engineering,
Faculty of Computer Science, University of Murcia
Email: jorgebernal@um.es
Web: <https://webs.um.es/jorgebernal>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 700085



Aries
aries-project.eu