



NEWSLETTER FEBRUARY  
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*ReliAble euRoepan Identity*

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## ARIES Final Workshop

After 30 months of hard work, the project has concluded its activities last February.

Coinciding with the end of the project, the consortium organized a closing workshop to present the final versions of ARIES system prototypes: the **eCommerce** and the **airport demonstrators**.

End-users and committees related to the project as the Special Monitoring Group were invited to give their final feedback on the system and recommendations for the future.

This event took place in Porto (Portugal) at Sonae premises on 8th February 2019 and consisted on a hands-on workshop, where the guests were able to test by themselves these prototypes.

The act concluded with a round-table to give the opportunity to the end-users to give their feedback about the potential adoption of the solution in their respective sectors.



## Main ARIES Results

ARIES is a **virtual identity system** composed by two main sub-systems consisting of:

- **ARIES identity management supporting modules**
- **User mobile app**

The first part of the system (supporting modules) is responsible to create Mobile IDs cryptographically and biometrically linked to original eDocuments with the highest level of assurance, providing the highest possible trust anchor on an eventual trust chain.

From such base Mobile vID, citizens are empowered to use the second sub-system (mobile app) to derive, manage and securely storage new virtual IDs with different levels of assurance (lower) and of privacy (higher), enabling them to optimize security and privacy according to their choice or preference. Another functionality on mobile app side is user-friendly biometric authentication, that extends state-of-the-art biometric template-protection methods. While authentication based on hardware token such as a smartphone or a smartcard is already available on the market today, ARIES extends the current functionality with further trust-increasing features, such as use of the biometric sensor or secure storage.

ARIES ecosystem includes two different use cases, that have been translated, from the technical perspective, into two different configurations or instances of the overall system generating the **ARIES for Retail** and **ARIES for Airports**, referred to a specific offering.

While identity management in eCommerce scenario is usually providing data for customer relationship management, the airports stakeholders are prioritising processing speed or overall level of security. In both cases the citizens are looking for convenience, in combination with security and privacy.





## Our balance: how ARIES will contribute to the eID European Ecosystem

### Innovation contribution

While use of government issued electronic identity documents such as e-ID cards or ePassports is now widely extended, secure derivation of credentials and partial or virtual identities from it is still in the early stages. In ARIES we have derived virtual identities from government issued document that in its turn rely on breeder documents, such as birth registry or similar, strengthening the links in identity lifecycle. Derived identities are stored in mobile wallet, which remains under users control, and user also has a possibility to set up privacy configurations for release of different virtual identities or attributes.

In this way, ARIES combines user-centricity, usability and flexibility with highly secure and privacy-respecting virtual identity management processes.

The project will therefore help to reduce the identity fraud, theft, and associated cyber-crimes, mainly related to the low level of assurance of existing online identities.

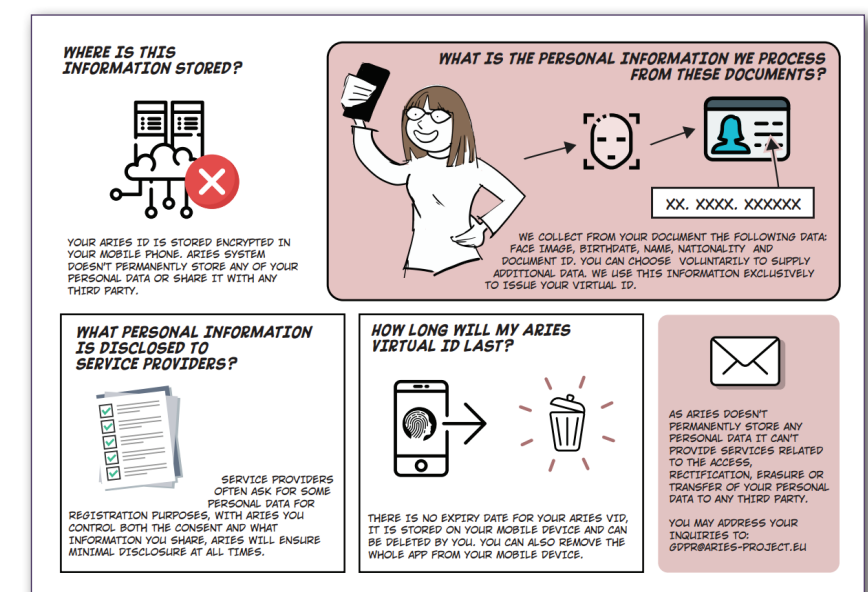
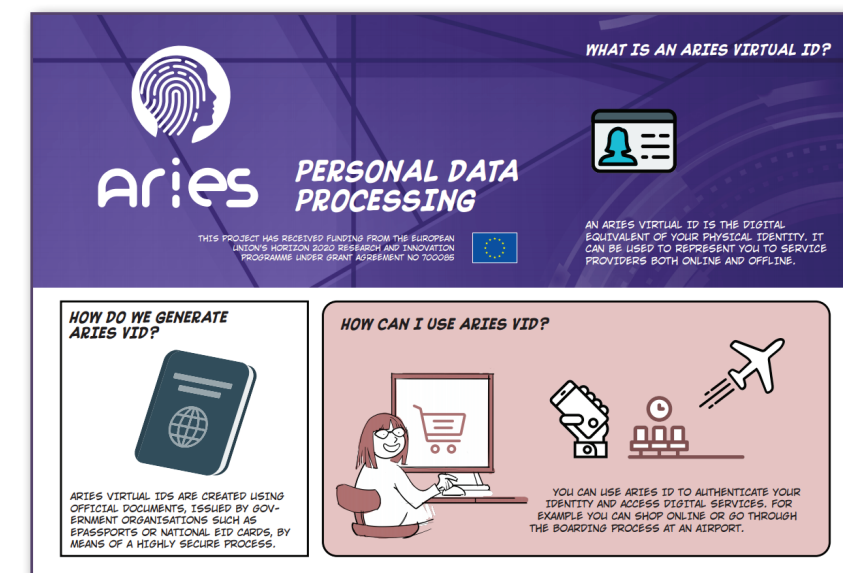
### Impact for the citizens

While many scalable online identities schemes already exist, there is a lack of solutions that links trusted enrolment, identification and authentication provided by government issued e-ID card or ePassports with scalable and more usable online identities. The main aim of ARIES is to bridge this gap through establishing of a European electronic identity ecosystem that builds on top of existing government issued physical and electronic identity documents such as e-ID cards or ePassports. This ecosystem will also involve virtual identity providers, service providers that make use of these ARIES virtual identities, citizens, but also law enforcement authorities that would have access to secure vault where the audit trace, that links government issued e-ID with derived virtual ID, is stored. In this way, citizens profit from the same level of usability they are used to with existing e.g. social network e-IDs, while gaining additional level of security, as well as more control over the storage and release of their identity attributes to service providers, such as hotel chains, rent car companies, banks and others.



### Influence on the future Horizon Europe

Setting up of a reliable and sustainable identity ecosystem, that meets all multi-stakeholder requirements such as level of assurance, privacy, scalability or usability, is a holy grail for many initiatives much larger than ARIES. Other identity ecosystems and infrastructures such as eIDAS, are still in the phase of early adoption, and limited only to basic services, such as mutual recognition of notified e-ID schemes. ARIES opens door to many other innovative e-ID services, such as mutual recognition of identity proofing and verification services, or business model innovations, such as decomposition of identity lifecycle management value chain.







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