POSEIDON

Workshop on Privacy Challenges in Public and Private Organizations, IFIP Summer School on Privacy and Identity Management, August 19-23, 2019 in Brugg/Windisch, Switzerland

Funded by Horizon 2020
Framework Programme of the European Union



"PROTECTION AND CONTROL OF SECURED INFORMATION THROUGH A PRIVACY ENHANCED DASHBOARD"

Presenter:

Alessandra Bagnato, Softeam

21ST AUGUST 2019, UNIVERSITY OF APPLIED SCIENCES NORTHWESTERN SWITZERLAND (FHNW)

BRUGG/WINDISCH, SWITZERLAND































PROJECT















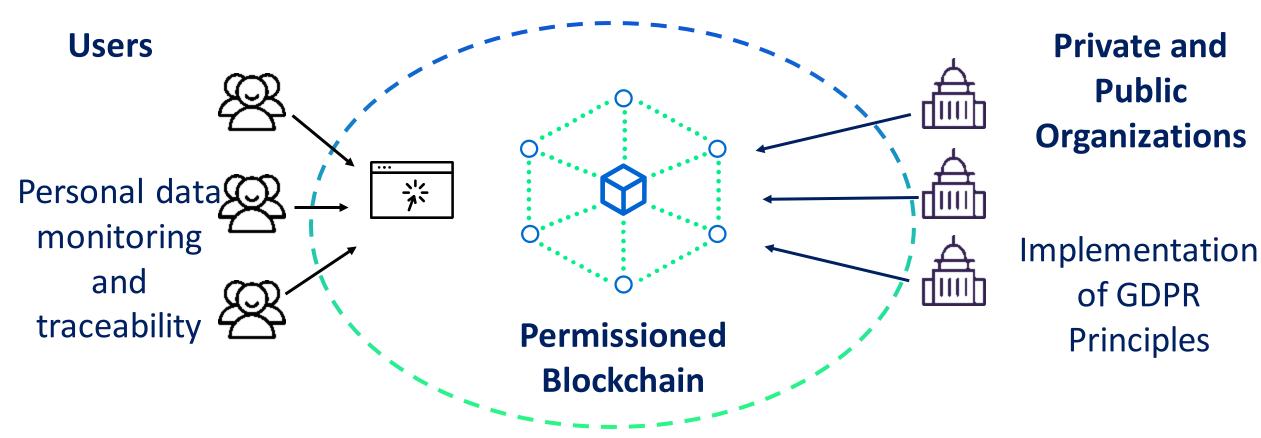






THE POSEID-ON PROJECT

"Protection and control of Secured Information through a privacy enhanced Dashboard"

























POSEID-ON PROJECT

GRANT AGREEMENT NUMBER: 786713 H2020-DS-2016-2017/ DS-08-2017

Protection and control of Secured Information by means of a privacy enhanced Dashboard

- innovative intrinsically scalable platform
- integrated and comprehensive solution aimed to safeguard the rights of data subjects
- exploiting the cutting-edge technologies of Smart Contracts and Blockchain
- support organisations in data management and processing
- ensuring GDPR compliance





















POSEID-ON CONSORTIUM







Perfect integration between private and public organizations





tecnalia)







SME

@·lex

















POSEID-ON PROJECT PILOTS









































EXCELLENCE & AMBITION













Support for Fundamental Rights

SOCIETAL IMPACT



Increased Trust and Confidence



Increased use of privacy-by-design



Data Minimization Principle





Privacy Exposure Alert



Data Access Authorization























IMPACT & OPPORTUNITIES

IMPACT ON USERS

- ✓ Increased trust in the Digital Single Market
- ✓ Simplified access to an increased number services and procedures
- ✓ Easier interaction with public entities

BENEFITS FOR PUBLIC ENTITIES

- ✓ Integration of existing IT protocols, practices and technologies
- **✓** Simplification of bureaucratic procedures

BUSINESS OPPORTUNITIES FOR PRIVATE ENTITIES

- ✓ New services, new customers and new professional profiles
- ✓ Integration with public entities
- ✓ Less responsibility when managing clients' personal data
- ✓ GDPR compliance























APPRO CHALLENGES ARCHITECTURE





















THE USER COMES FIRST NO EXCEPTIONS













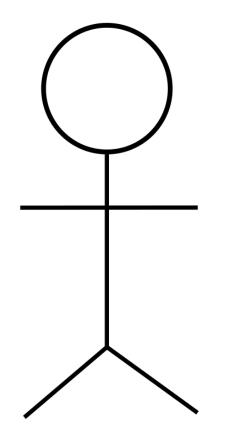








WHO IS THE USER?



Every European citizen





















WEB-BASED

Only a Web Browser is needed

- Targeting the most common application platform in the world
- Reaching the largest group of users
- Open standards













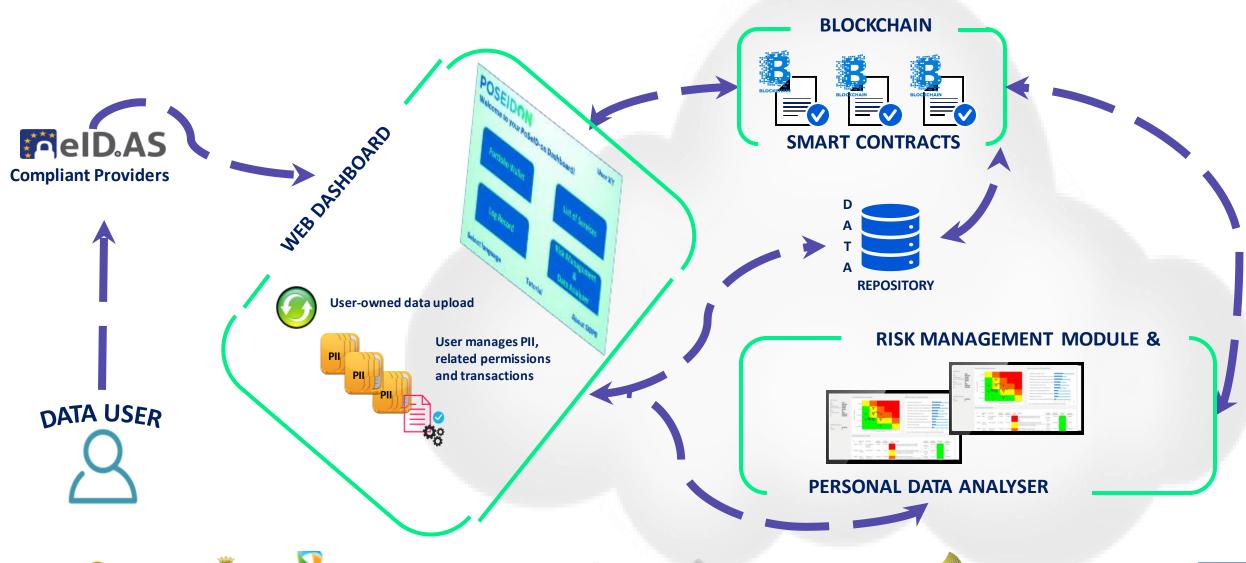








ARCHITECTURE (1/2)

















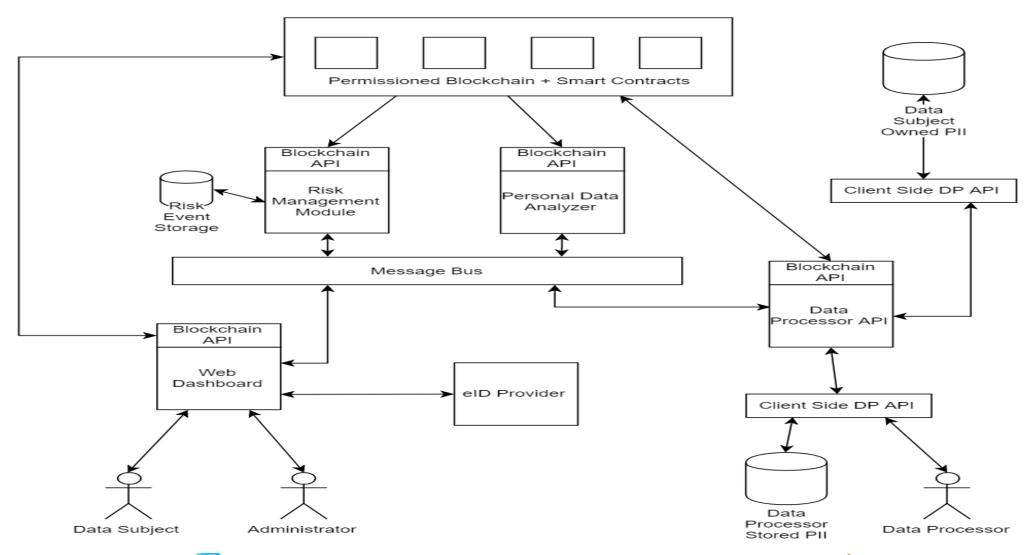








ARCHITECTURE (2/2)













































SVE "PRIVACIZ CONSENT" TOOL FROM SOFTEAM

PRIVACIZ CONSENT IS A TOOL DEDICATED TO SOFTEAM'S CUSTOMERS TO ENABLE THEM TO APPLY FOR A CLAIM ABOUT THEIR PERSONAL DATA.

- WITH THE E-CITIZ PLATFORM, SOFTEAM PROPOSES THE SVE ("SAISINE PAR VOIE ELECTRONIQUE"
 WHICH MEANS SEIZURE BY ELECTRONIC WAY), AN ESERVICE PRODUCT ALLOWING USERS TO APPLY
 FOR A CLAIM OR ANY SORT OF DEMAND TO THE COMPANY.
- THIS ESERVICE CAN BE CUSTOMIZED FOR VARIOUS APPLICATIONS AND IS FOR NOW CLOSE TO THE MARKET OF EGOVERNMENT DUE TO A REGULATORY CONSTRAINT ON MUNICIPALITIES IN FRANCE.
- SVE CAN BE USED AS WELL BY EGOVERNMENT STRUCTURE AS PRIVATE COMPANIES.
- THE POINT OF INTEREST ON THE SVE SERVICE IS ABOUT PERSONAL INFORMATION BECAUSE FOR EVERY APPLICATION, THE USER (CITIZEN OR CUSTOMER) HAS TO FILL SOME PERSONAL DATA (FIRSTNAME, LASTNAME, POSTAL ADDRESS ...) ON EVERY CLAIM.





















SVE "PRIVACIZ CONSENT" TOOL FROM SOFTEAM

WITH THE GDPR, SOFTEAM'S CUSTOMERS, EMPLOYEES, SUPPLIERS, CONTACTS... CAN ASK SOFTEAM TO ACCESS/MODIFY/DELETE THEIR PERSONAL INFORMATIONS.

TO APPLY FOR THIS, PHYSICAL PERSONS HAVE TO IDENTIFY THEMSELVES AND GIVE SOME OF THEIR PERSONAL INFORMATION USED TO RECOGNIZE THEM AND VERIFY THEY ARE ALLOWED TO ACCESS PERSONAL INFORMATION THEY CLAIM TO OWN.

THIS IS WHERE POSEIDON WILL BE USED FOR.













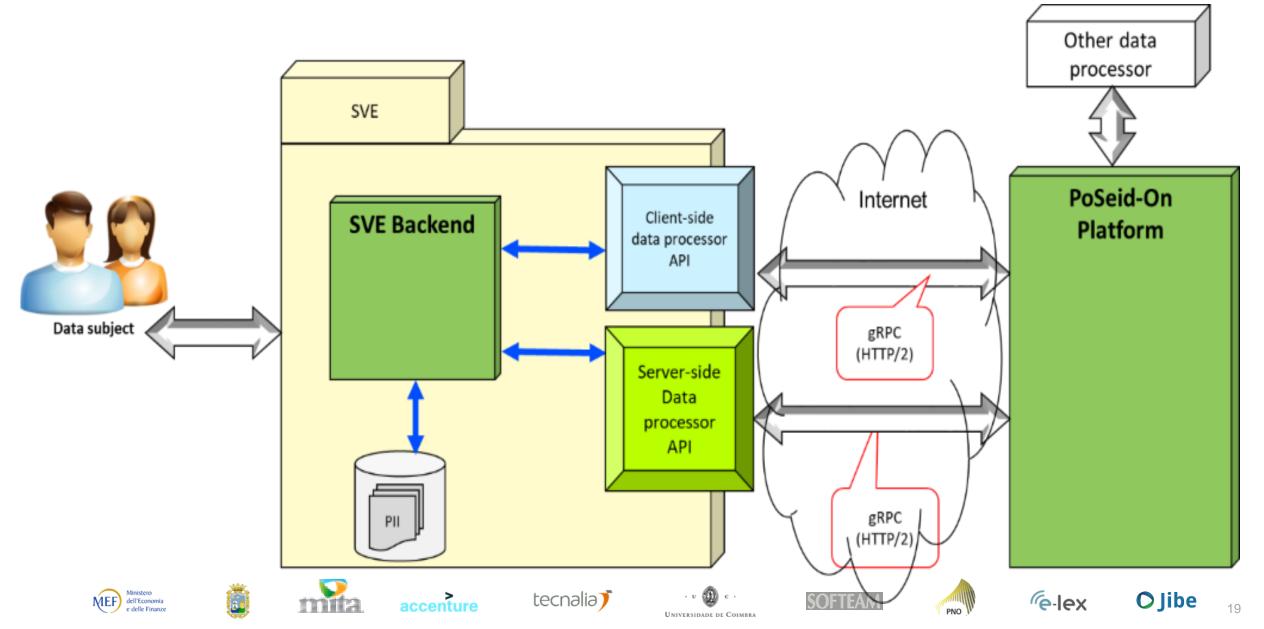








TECHNICAL ENVIRONMENT



SCENARIOS DESCRIPTION & ISSUES

SOFTEAM GROUP



ACCOUNT CREATION ON PRIVACIZ

Conformément à la loi Informatique et Libertés du 06/01/1978, vous disposez d'un droit d'accès, de rectification et de suppression pour toutes les informations vous concernant. Vous pouvez exercer ce droit en écrivant directement à SOFTEAM (info@e-citiz.com)

Version 2.1.1.0

Credits













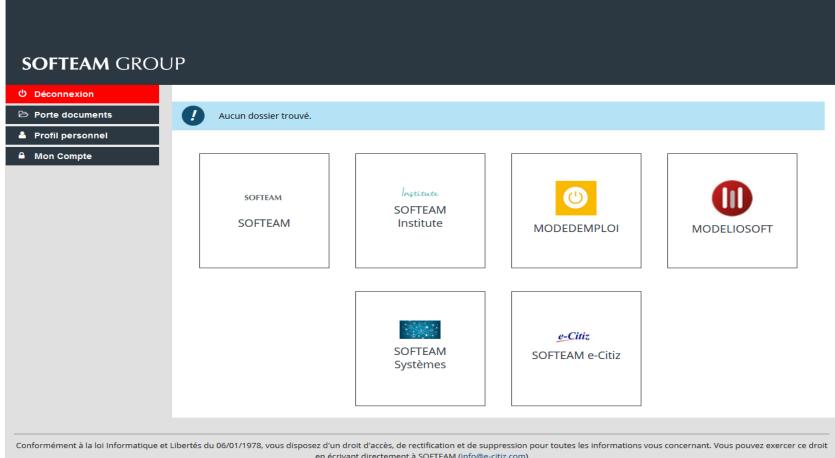








SCENARIOS DESCRIPTION & ISSUES



SELECT ENTITY TO EXPRESS GDPR RIGHT

en écrivant directement à SOFTEAM (info@e-citiz.com)

Version 2.1.1.0 Credits













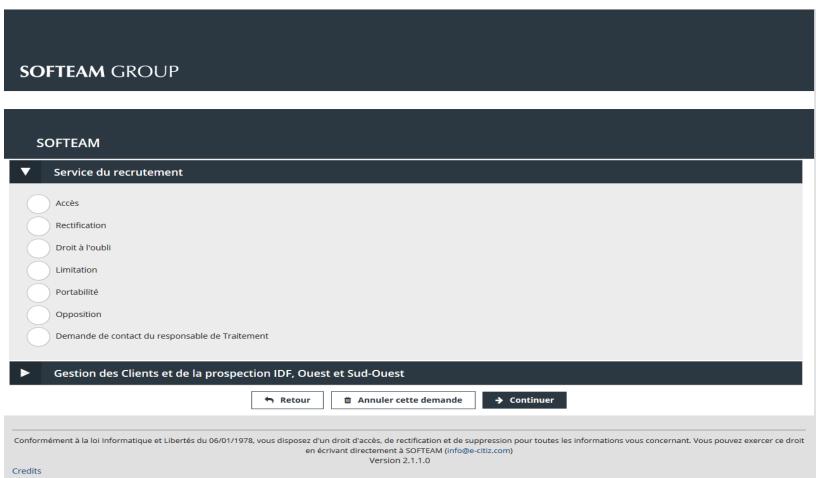








SCENARIOS DESCRIPTION & ISSUES



WHICH RIGHT TO EXPRESS?





















SCENARIOS DESCRIPTION & ISSUES





Présentation

Conformément à l'article 12 du Règlement (UE) 2016/679 du Parlement européen et du Conseil du 27 avril 2016, vous disposez du droit d'accès aux informations vous concernant pour les informations figurant dans nos fichiers informatisés ou nos manuels.

Avant de commencer	Déroulement de la demande	
Merci de préparer une copie de justificatif d'identité :	Cette demande prend environ 5 minutes pour être déposée.	
Carte d'identité Passeport		

Annuler cette demande

▶ Commencer

Conformément à la loi Informatique et Libertés du 06/01/1978, vous disposez d'un droit d'accès, de rectification et de suppression pour toutes les informations vous concernant. Vous pouvez exercer ce droit en écrivant directement à SOFTEAM (info@e-citiz.com) Version 2.1.1.0 Credits





















NEEDED

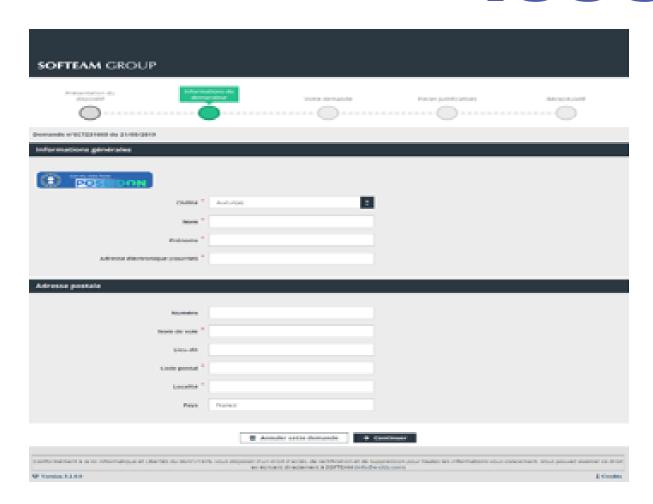
INFORMATION TO

FULFIL THE

PROCESS



SCENARIOS DESCRIPTION & ISSUES





THE USER CAN LET POSEID-ON FILL THE FIELDS













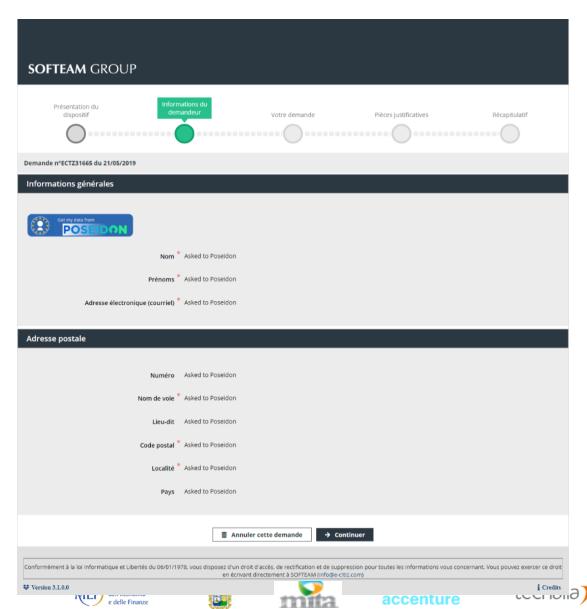








SCENARIOS DESCRIPTION



AFTER IDENTITY PAIRING (POSEIDON & PRIVACIZ), DATA WILL COME FROM POSEIDON











PATH FOR EVALUATION

- EVOLUTIONS ON THE PRIVACIZ TOOL TO INTEGRATE POSEIDON ACCESS TO THE DASHBOARD
- IMPLEMENT THE DATA PROCESSOR (CLIENT PART)
- IMPLEMENT THE DATA PROCESSOR (SERVER PART)
- FIRST EVALUATIONS TO PROVIDE FEEDBACK





















EXAMPLE OF USE CASE PUB 4 (6)





















OVERVIEW





The General Administration, Personnel and Services Department (DAG) of the Italian Ministry of Economy and Finance (MEF) is in charge of the management of payroll functions for approximately 2.1 million Italian public sector employees. This service is provided through a unique payroll function, NoiPA — which annually manages more than €51 billion in payments.

NoiPA is a portal created to manage administrative and economic data of central and peripheral Public Administration employees. Therefore, NoiPA has a big experience in personal data management.



The NoiPA pilot will be based on some of its services. It will imply the customization of these services to integrate PoSeID-on solution to provide the users with a single platform for personal data management, as well as to support NoiPA to be compliant with the GDPR.





















BUSINESS APPROACH



PoSeID-on records immutably users' consent to the processing personal data while using/requesting a NoiPA service and inform the user about its own data treatment.

ADDED VALUE FOR THE MEF (and third parties)

- Increased transparency in data management enhances users' trust
- Ensured GDPR compliance (secure registration of consent)
- In the middle run: possibility to increase the number of services for NoiPA users

ADDED VALUE FOR THE USER

- Increased awareness about what personal data he/she gives the consent to the processing and to which entity
- Consent to the processing of personal data is requested in a transparent, simple and user-friendly way
- Consent to the processing of personal data is registered securely and immutably
- Third parties cannot claim the use of other types personal data





















SCENARIOS



Two scenarios for 3 NoiPA services

THREE SERVICES ACCESSIBLE FROM NoiPA

- 1. Residence address
- 2. IBAN upload/update via NoiPA based application



SCENARIO 1

- The use gives the consent to data processing to NoiPA. This is stored in PoSeID-on platform
- The user is aware of data collection and treatment (including eventual personal data transfer to other entities according the law)
- User does not exit from NoiPA in its journey

3. Insurance policy subscription provided by Reale Mutua Assicurazioni



SCENARIO 2

- The user gives consent to a third party for data treatment. This is stored in PoSeID-on platform
- User goes to a third party website (Reale Mutua)





















DATA MANAGEMENT



Data flows and consents

SCENARIO 1 – RESIDENCE/IBAN

- The personal data is provided to and remains within NoiPA.
- Poseidon stores the change/insertion of the data and the fact that the user has given to NoiPA the consent to its treatment.

THERE IS NO TRANSFER OF PERSONAL DATA BETWEEN NoiPA AND POSEIDON.

The user is informed of the fact that data is eventually transferred from NoiPA to other entities (e.g. INPS) according to the applicable legislation.

SCENARIO 2 – INSURANCE

- The personal data is provided to and remains within Reale Mutua.
- Poseidon stores the consent to the processing of data that the user has provided to Reale Mutua.
- To use the service, the user goes through NoiPA.

THERE IS NO TRANSFER OF PERSONAL DATA BETWEEN NoiPA, REALE MUTUA AND POSEIDON.

The user provides the consent of the processing of the data to Reale Mutua for using the service.

















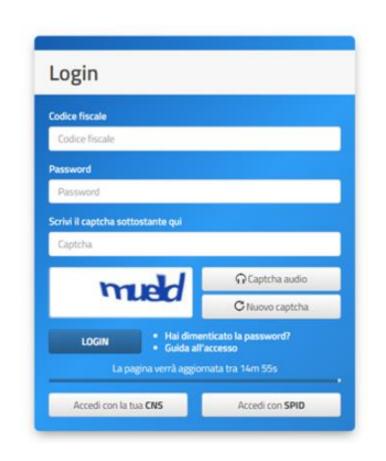




SCENARIO 1 AS-IS (1/2)



Residence address / IBAN upload or update via NoiPA based application

























SCENARIO 1 AS-IS (2/2)



Residence address / IBAN upload or update via NoiPA based application

♣ Home / Amministrato / Self service / Sti		ificative e diccando su "Avanti	". Al passo successivo sarà chiesto di effettuare la Ch	iameta di sicuretta.
Conto corrente SEPA/Carta Conto	S Libretto Postale		Conto corrente SEPA Estero	0
IBAN IT	CONTO COMPENTE			
In caso di segnalazione di IBAN afferente carte conto, (importo massimo previsto sul singolo bonfico o sul tota	note anche come prepagate o ricaricabili, si rammen ile annualmente accreditabile sulla carta, non compatib	rta la necessita di verificare p silità per bonifici SEPA, ecceter	reventivamente presso il proprio istituto di Credito a) tali da provocare possibili storni delle somme disp	la eventuale presenza di ciausole o limitazioni contrattuali oste tramite bonifico dal sistema NoIPA.
Pin identificative				





















SCENARIO 1 TO-BE (1/3)



Residence address / IBAN upload or update via NoiPA based application through PoSeID-on



 Adding a button "Store my consensus on PoSeID-on"



An information note on PoSeID-on that the user can open - if interested - will also be inserted in each NoiPA window.





















SCENARIO 1 TO-BE (2/3)



Residence address / IBAN upload or update via NoiPA based application through PoSeID-on



 Add a button "Store my consensus on PoSeID-on" allows to communicate with the PoSeID-on Platform in order to store the User's consensus in an immutable way.



A box will be inserted asking the user to:

- Give the consent to the processing of personal data entered/modified
- Take note of the fact that personal data is transmitted by NoiPA to other entities (INPS, etc.) according to the current legislation.

















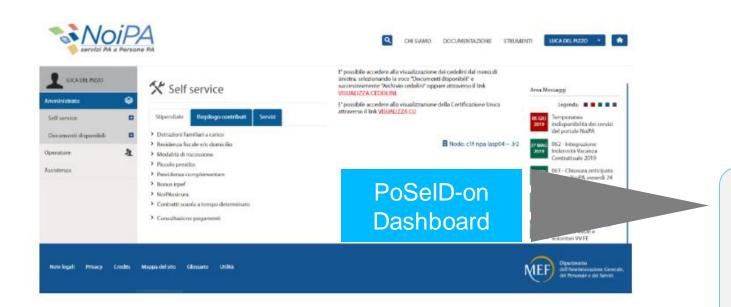




SCENARIO 1 TO-BE (3/3)



Residence address / IBAN upload or update via NoiPA based application through PoSeID-on



TBD: Dashboard

 A fixed dashboard is added to NoiPA to inform the user about which personal data is in possession of the system and eventually to which other (public / private) entities data is transmitted according to the current legislation (e.g. INPS).



















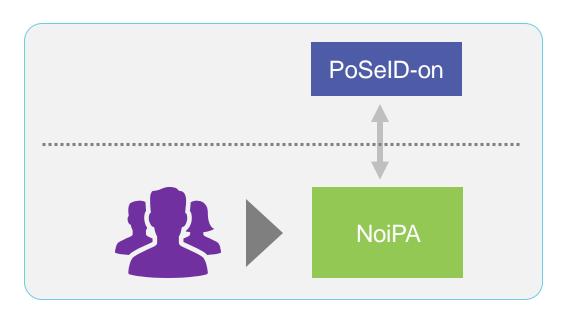


USER JOURNEY & INTEGRATION STRATEGY

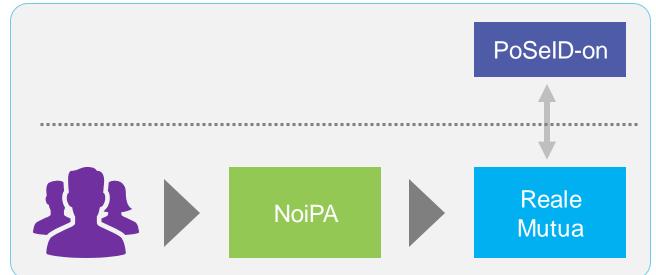


It's important to guarantee to the final user a simple usage experience, avoiding the "shift" between too many different systems (i.e. the NoiPA environment, the Reale mutua one, the PoSeID-on Platform): the working hypothesis is to integrate the applications by only using APIs. The final user will not interact directly with the PoSeID-on platform but only indirectly through NoiPA and Reale Mutua.

SCENARIO 1 – RESIDENCE/IBAN



SCENARIO 2 – INSURANCE























FOCUS: INTEGRATION STRATEGY



How PoSeID-on is integrated

FOR BOTH SCENARIOS

- PoSeID-on is integrated through APIs.
- A button opens the request of consent to data processing.
- PoSeID-on memorizes this operation.



APIs

Work in Progress!





















OUR INITIATIVE IN THE EU CONTEXT

PoSeID-on in line with latest European Parliament resolution about Blockchain technologies

✓ PoSeID-on: Blockchain and GDPR may coexist together

PoSeID-on supports the delivery of Digital Public Services

✓ Support the delivery of cross-border **digital public services** through the establishment of a **European Blockchain Services Infrastructure** after the **European Blockchain Partnership**

PoSeID-on has been accepted by the EU Blockchain Observatory and may contribute to accelerate the digitalization of the EU

✓ Our initiative was made known to the newly launched **EU Blockchain Observatory and Forum**























POSEID-ON PROJECT

HTTPS://WWW.POSEIDON-H2020.EU

POSEIDON www.poseidon-h2020.eu

@PoseIDon_H20
20



PoselDon Project





















IHARIKAYOU FORAGUR ATTENTON

and enjoy the IFIP Summer School on Privacy and Identity Management!!!!



















