



Democratising the relationship
between citizens and governments



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 959879



Letting you control your own story

- GLASS puts the individual at the heart of controlling their own relationship with government and business
- It provides a distributed framework for sharing common services of public administrations across the EU for citizens, businesses and governments. It creates a new paradigm for the sharing and transfer of personal information, with the citizen in control
- It introduces novel governance services facilitating free movement to citizens and businesses, producing strong social, societal, economic, technological and scientific impact and leading to an advanced egovernment solution aligned fully with the EU eGovernment Action Plan 2016-2020 and the EU Digital Single Market strategy.



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Supporting free movement of citizens and business

- Free movement of EU citizens is a fundamental principle of the Article 45 of the Treaty on the Functioning of the European Union and developed by EU secondary legislation and the Case law of the Court of Justice.
- EU citizens are entitled to:
 - look for a job in another EU country
 - work there without needing a work permit
 - reside there for that purpose
 - stay there even after employment has finished
 - enjoy equal treatment with nationals in access to employment, working conditions and all other social and tax advantages

Members of the GLASS Consortium

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Project Fiche:

- Funded (H2020) project, 4 M€
- 13 partners from 9 Member States
- Duration: Jan 2021 – Dec 2023

 Glass

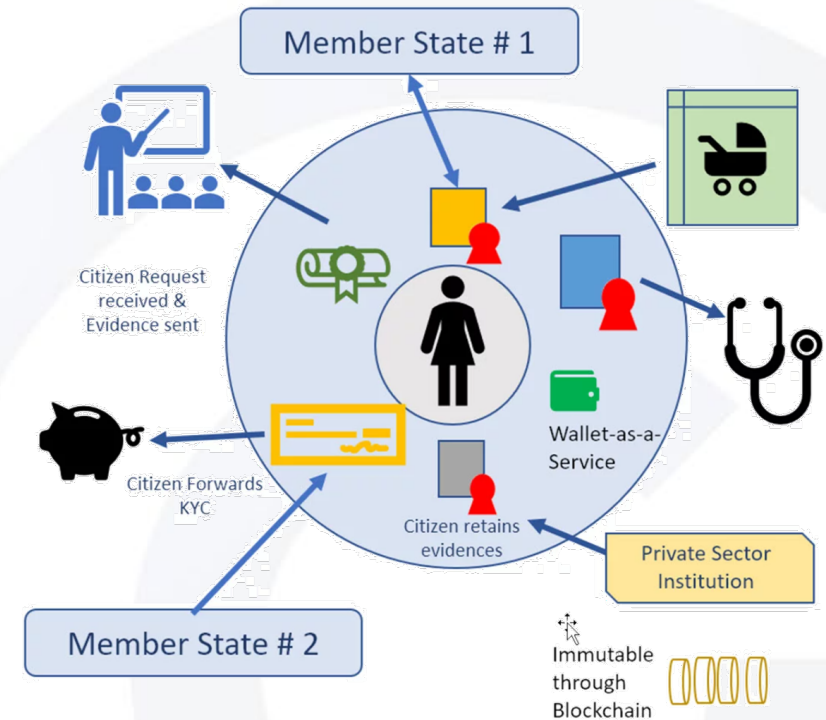


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Glass for Citizens

- GLASS as an eGovernance paradigm aims to become more responsive to the needs of the citizens, ease the interaction of citizens with governments and increase the participation of citizens in public policies.
- GLASS is designed to maintain a common methodology, providing a similar user experience whether dealing with the Public Sector, Private Sector or other citizens.
- The citizen is placed at the centre of its own data, attributes and evidence. No matter who the citizen liaises with, the citizen can choose what information is released to its counterparty.



The citizen at the centre of its data

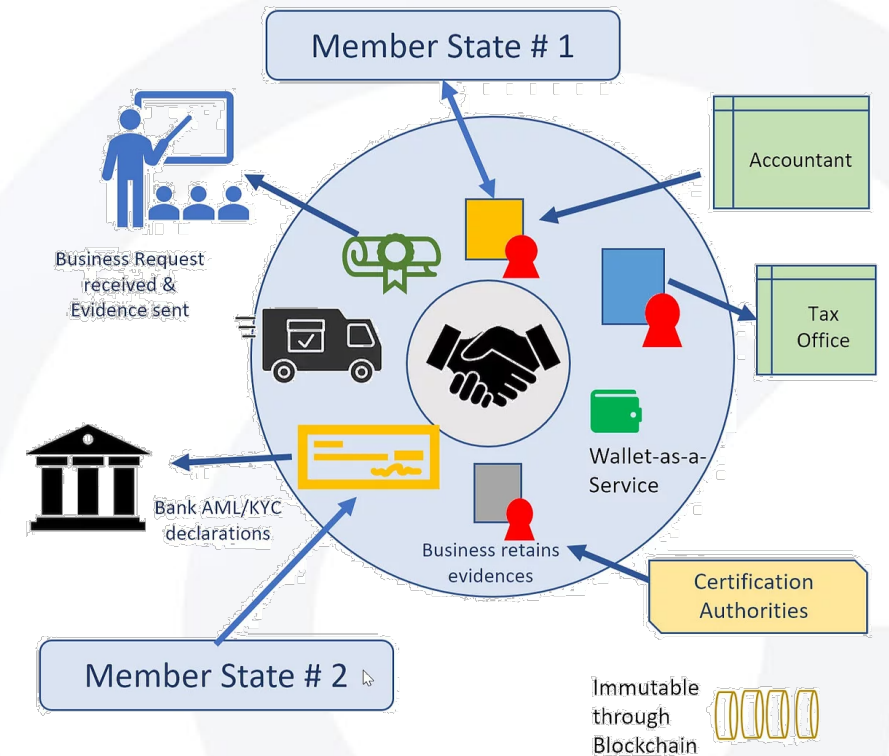
Glass for Governments

- The goal of GLASS is to make public administrations and public institutions open, efficient and inclusive, providing borderless, digital, personalised and citizen-driven public services for the EU population.
- It introduces a citizen-centric, eGovernance model for public administration services, which automates the processes and safeguards the integrity of interactions.
- GLASS uses a new paradigm for evidence and record transfer. A single sign-on Wallet as a Service (WaaS) platform will interconnect applications for ID authentication, document sharing, information exchange and transactions validation, in compliance with the Single Digital Gateway (SDG) guidelines.



Glass for Business

- The European Commission considers the 24 million SMEs as the entrepreneurship key to ensuring economic growth, innovation, job creation, and social integration in the EU.
- GLASS can improve efficiency in managing company documentation especially when operating in an international market. It can also save time when entering formal public procurements and will offer businesses certification and notarisation efficiencies when companies can hold their own notarised evidences.



The company at the centre of its data

GLASS technology

A Public Distributed Infrastructure

- The baseline where GLASS components are built is the Peer to Peer (P2P) network architecture.
- Participants (nodes) join in an open network, have equal functionalities, equally share the computational workload of the services without a central management authority among them.
- GLASS aims to combine the functionalities of an unstructured P2P network (IPFS) and a distributed ledger into a single framework.



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Glass Technology

- InterPlanetary File System (IPFS)
 - IPFS as the backbone file storage of the GLASS model, provides a novel file storage and sharing internal policy, where the files, the information and the generated building blocks of the network are given a unique fingerprint.
- Distributed Ledger
 - The GLASS distributed ledger will support the open source, scalable and distributed nature of the network. Ledgers can only be built on Peer-2-Peer decentralized or distributed architectures, thus making it the most suitable mechanism to support our public infrastructure, by ensuring the integrity and validity of all the transactions.
- Single Sign-on Wallet as a Service (WaaS)
 - GLASS proposes a multifunctional single sign-on wallet that will provide users with the ability to gather their personal documentation eg. digital ID, digital passport, validated birth certificates, validated marriage certificate, etc.
- Distributed Application (DAPP) Ecosystem
 - The ecosystem of DAPPs, libraries, files, reusable smart contracts, piece of software, etc. will be designed, developed and deployed by GLASS stakeholders.
- Artificial Intelligence Data Schema Transformer
 - There is a need for high interoperability of all involved in eGovernance model systems. Since the different types of information to be exchanged are not determined beforehand, the definitions of the semantics must change dynamically.

Demonstrator: Moving Abroad

- Moving abroad can be a highly demanding and cumbersome process in terms of bureaucratic processes and associated paperwork.
- There are various obstacles for someone willing to move to a foreign country to work legally and obtain all the relevant documentation. Examples are:
 - difficulty in understanding the bureaucratic processes due to the lack of clear guidance and sufficient information.
 - the long waiting times for appointments in the involved administration authorities
 - the language barrier for understanding forms and requirements.



Demonstrator: Making a short-term visit abroad

- When elderliness is accompanied by disability, moving abroad becomes quite difficult. Elderly people need and usually receive privileged treatment tailored to their special conditions from local authorities in their home country, such as:
 - discounted and private transportation
 - health services
 - sport rehabilitation and psycho-social services.
- The goal of the demonstrator is to show how GLASS can ease the process for the old or disabled when making a short visit abroad.



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Demonstrator: Getting a job abroad

- The GLASS demonstrator is designed to show how any citizen can carry with him/her on his/her's digital wallets the required evidence of:
 - educational achievements, provided by formal education institutions
 - letters of recommendations
 - professional experience
 - professional qualifications
 - licenses
 - etc
- All transactions will be stored in the validation ledger and will be demonstrated with the usage of the Unified Digital Identity Device (UDID) as well as regular mobile devices.



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Thank You !



Info @glass-h2020.eu

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