

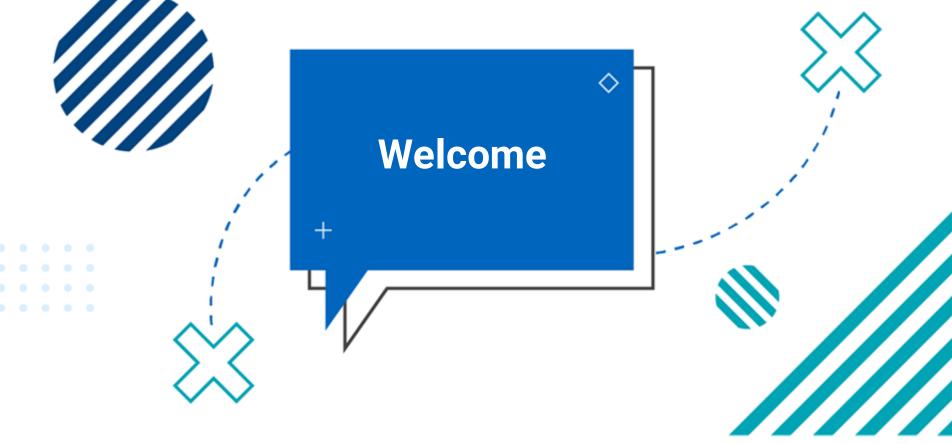
### **Digital Identity Scotland**

Scottish Attribute Provider Service





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# Email: digitalidentityscotland@gov.scot





### Introduction

By Colin Cook

### Director of Digital Directorate Scottish Government

digitalidentityscotland@gov.scot





- Scottish Attribute Provider Service (SAPS) Vision
- Timeline to date and looking forward
- Our User Centred Design approach
- Proposed High Level Solution and Requirements
- Security considerations and applicable standards
- Expected procurement process
- Next steps how can you contribute?





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SAPS will be a successful, reusable digital identity service with the clear understanding, trust, and engagement of the service user and relying parties founded on user-centric principles only allowing the sharing of data between services with the active consent of the citizen.

No data will be shared for commercial purposes, nor will data be stored in a centralised database. It will ensure that a citizen's data remains under their own control so they can store and consent to share their data with public sector organisations where needed.





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 Data about a citizen that has been proven by a trusted, public sector organisation





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- Data about a citizen that has been proven by a trusted, public sector organisation
- Reuse saves the user time and effort
- Reuse saves public sector organisations time, effort, cost





#### Inclusivity

- Ownership
- Control
- Simplicity
- Portability
- Transparency
- Privacy and Security







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- Control
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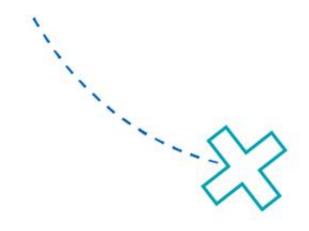
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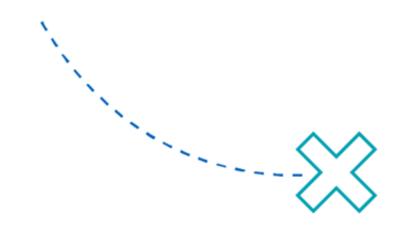
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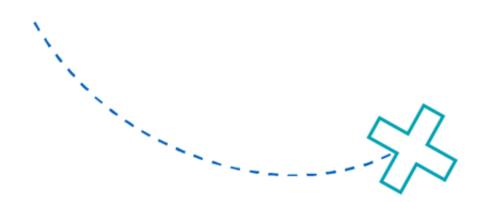
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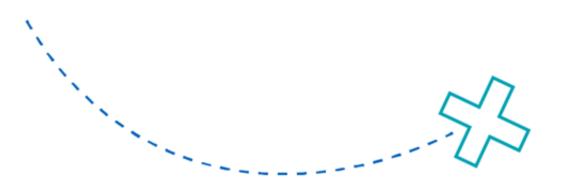
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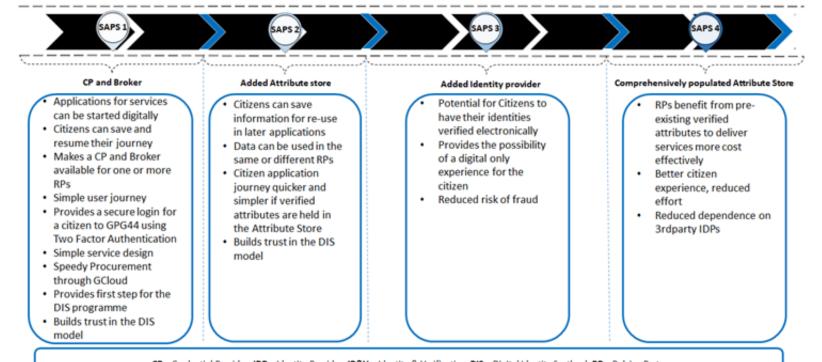
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### **Some of the Benefits of SAPS**



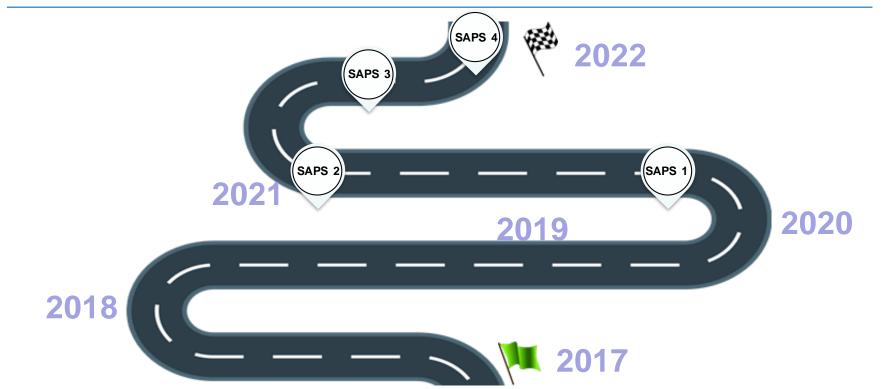
CP - Credential Provider IDP - Identity Provider ID&V - Identity & Verification DIS - Digital Identity Scotland RP - Relying Party



Scottish Government Riaghaltas na h-Alba gov.scot



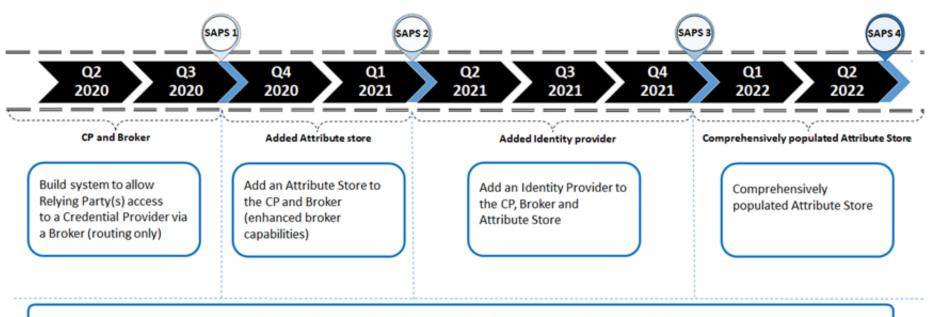
### **DIS Timeline**







### **SAPS Roadmap**



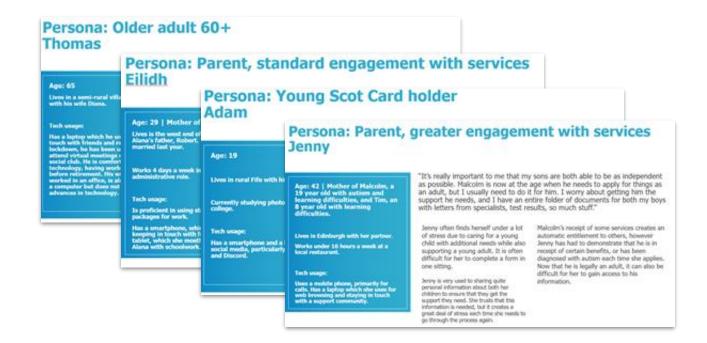
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### **User-centred Design**







#### 1. Multiple user groups

- 2. Clearly add value
- 3. Ease of integration
- 4. Accessibility
- 5. Future-proofed







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As a service user who values ease of access, I need to be able to prove my identity online in a way and at a time that suits me, so I find it easy to do and stay in control of my time and my data.





As a service provider, I need a solution which is flexible so that it fits into our user journey and we aren't forced to integrate something that doesn't work for our users.



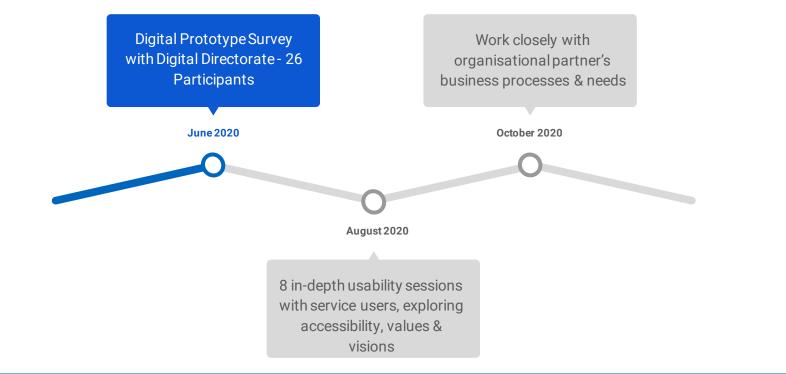


As a service provider, I want online identity to allow future services to be created easily, so that we can be joined up and proactive public services.





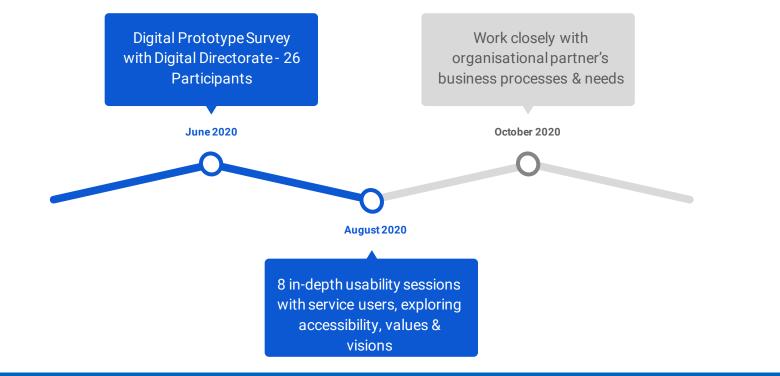
### **User-centred Design Engagements**







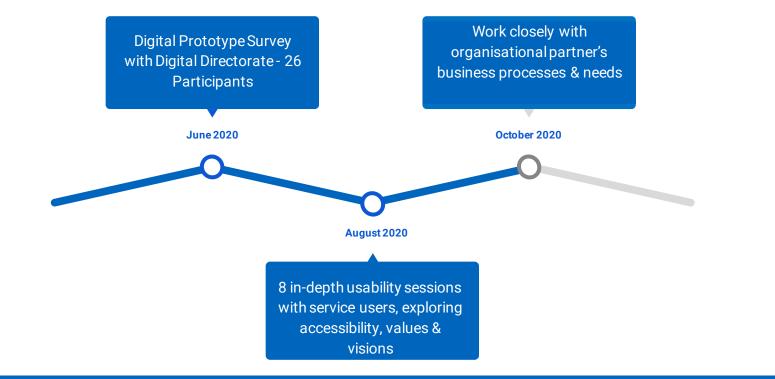
### **User-centred Design Engagements**







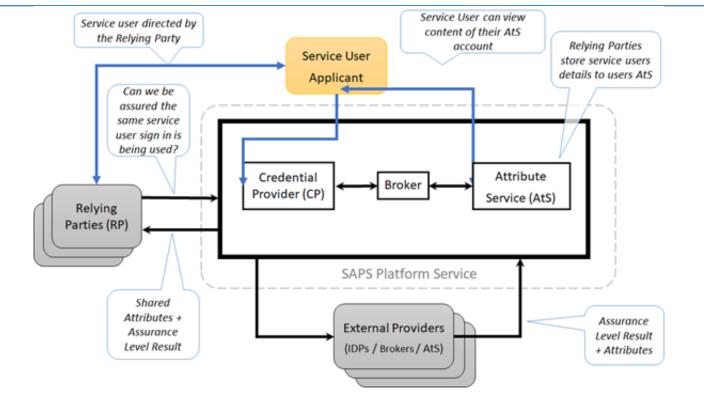
### **User-centred Design Engagements**







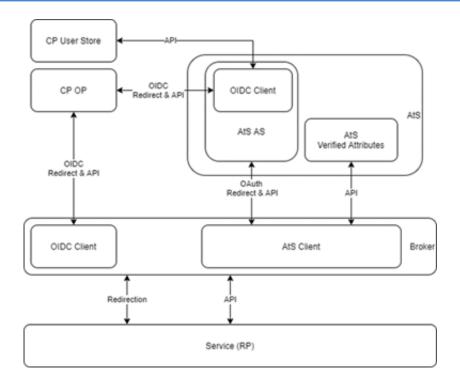
# **High Level Solution**







#### **Core Elements & Interactions**







### **Incremental Trust & Strong Credential**

• User obtains a zero proofed, strong credential/authentication





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- GPG-44 compliant





### **Incremental Trust & Strong Credential**

- User obtains a zero proofed, strong credential/authentication
- GPG-44 compliant
- Association of data to that credential builds trust over time





1. This is offered to users, free of charge, as the place to store their verified attributes







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- 2. It is owned and controlled by the user







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- 1. This is offered to users, free of charge, as the place to store their verified attributes
- 2. It is owned and controlled by the user
- 3. Only the user can decrypt the contents
- 4. Includes creation and signing of derived attributes







#### 1. Affordable integration costs and skills







- 1. Affordable integration costs and skills
- 2. Minimal, lightweight







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- 3. Supporting OIDC to CP and AtS







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- 1. Affordable integration costs and skills
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- 3. Supporting OIDC to CP and AtS
- 4. Supporting OAuth to related APIs
- 5. Supporting browsers and redirection models for other users
- 6. A logical queue of verified attributes





1. Consent Management



Scotland

**Digital Identity Scotland** 



- 1. Consent Management
- 2. Derived attributes







- 1. Consent Management
- 2. Derived attributes
- 3. Standard metadata







- 1. Consent Management
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- 4. Delegation







- 1. Consent Management
- 2. Derived attributes
- 3. Standard metadata
- 4. Delegation
- 5. Attestation







1. Sign me in







- 1. Sign me in
- 2. Common sign in







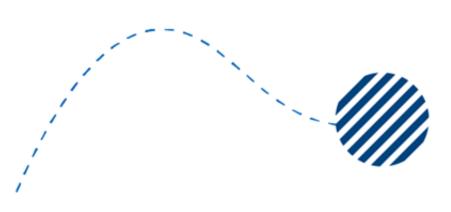
- 1. Sign me in
- 2. Common sign in
- 3. Sign me in once







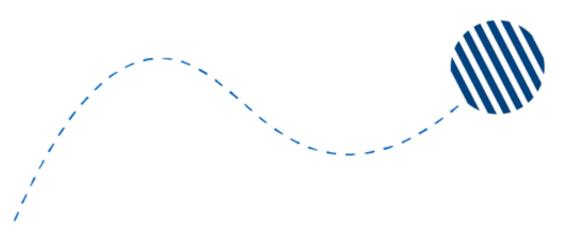
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- 1. Sign me in
- 2. Common sign in
- 3. Sign me in once
- 4. Re-use evidence
- 5. Secure my evidence







#### **Additional Use Cases**

6. Obtain Proof of Identity







#### **Additional Use Cases**

- 6. **Obtain Proof of Identity**
- Prove Identity through a 3<sup>rd</sup> Party Service 7.









1. Re-Use, Before Buy, Before Build







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- 2. Architect for flexibility and continuous change







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- 3. Maximise Automation







- 1. Re-Use, Before Buy, Before Build
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- 4. Just enough Architecture







- 1. Re-Use, Before Buy, Before Build
- 2. Architect for flexibility and continuous change
- 3. Maximise Automation
- 4. Just enough Architecture
- 5. Technology based on Standards







# **Security**



<u>Source</u> <u>http://www.healinghealth.com/wp/wp-content/uploads/2017/07/Personal-Privacy-cloud-1024x508.jpg</u>







### **Security**



Source https://blog.ipleaders.in/wp-content/uploads/2016/08/WordCloudTrust.jpg





Digital Identity Service - Beta Project - Development Partner Procurement Options

1) DPS – Digital Technology Projects – Lot 1

https://www.gov.scot/publications/digital-technology-services-dynamic-purchasing-system-guide/





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2) New Agreement – advertised via OJEU





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- 2) New Agreement advertised via OJEU
- 2) Existing Framework SG or CCS (UK)
- Decision still to be made on the procurement route.
- PCS-Tender will be used & guidelines will be given







Documents	Description	Action
Terms and Conditions	Scot Govt ICT Model Ts&Cs including Schedules	Bidder to agree to the Ts and Cs set out. *No changes will be accepted
Specification	Specification and SLAs etc., set out as part of the procurement.	Bidder to read and understand document – cross referenced to Questions.
Tender Response - Technical	Questions set out to bidders	Bidder to complete and return as part of the tender process.
Commercial Response	Pricing information for the project	Bidder to complete and return as part of the tender process.
Instructions to Tenderers	Information explaining how to complete the tender and advises weightings of the technical questions, and information on using PCS-T	Bidder to read and understand document.
Form of Tender	Acknowledgement of process and agreement, confirming understanding of the tender process and responses required	Bidder to complete and return as part of the tender process.





#### **Proposed Timeline**

Action	Date
ITT Published	30/11/2020
ITT Return date	25/01/2021
ITTs evaluation complete	22/02/2021
Contract award	15/03/2021
Beta development commences	29/03/2021







- 1. Is our thinking clear enough?
- 2. Where do you agree/disagree and how?
- 3. What else should we consider?
- 4. Can you consider and respond to the questions we've posed?













## Want to find out more? Talk to us!

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