

Digital Identity Scotland

Attribute Strategy Discussion



Welcome

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Scottish Government



Digital Identity Scotland



Scottish Government
Riaghaltas na h-Alba
gov.scot

What we will cover

1. Brief overview; Digital Identity the story so far...
2. Opportunities from an attribute led approach
Short break
3. Digital Identity where next?
4. Open discussion

The Identity Challenge

*“As the public sector landscape changes, the way people want to interact with Government is also changing. More and more public services are being made available online. To access these services, people may **need to prove who they are** online and offline. People want to do so in a **simple, safe and secure** way, only exchanging as much information as **necessary** while not having to repeat the process over and over again.”*

Our vision for digital identity

Digital identity is an important part of the UK's digital economy and society. It can help:

people do things online safely and securely
organisations improve and create online products and services
organisations to get greater value from these products and services

Without digital identity, transactions will continue to be paper-based which puts citizens and organisations at risk of fraud and prevents innovation and transformation of our public services!

Our Vision

Digital identity is only one part of the problem to solve..... Many organisations also need to confirm information about someone to **check their eligibility** to receive services.

To help organisations do this, there needs to be a way for organisations to access additional information about a person (also known as 'attributes') along with, or instead of, their digital identity.

We want citizens to be able to **create, use and reuse** their digital identity accounts across the public sectors. We also want **attributes** to be easily and securely shared between organisations.

Currently, this does not happen because we do not have ways to **trust** the identity or attribute checks done by others, which means:

- 1. Citizens often have to prove their identity time and time again;*
- 2. Organisations cannot easily share digital identity accounts and attributes with each other*

Story so far ...



A National Priority



Programme for Government 18-19 & 19-20

“As government, we need to have digital capability fit for the future.

Giving everyone a way to **identify** themselves online, in a **secure** way where their **privacy** and **personal data** is protected, will help to make sure our public services are **easy to access** from anywhere in the country.”

Stakeholder Engagement

Our approach....

1. Set up and ongoing engagement with Expert Group and National Stakeholder Groups and committed to the principles of Open Government.

Representation from; Industry, Academia, Identity Experts, Privacy Groups and Public Bodies across Scotland.

Widen the Expert Group to include experts in the field of Attributes, and Cyber Security.

Open Gov; Publish all papers, blog and Social media comms.



Discovery

Discovery

- Programme team established in late 2017
- Landscape review of identity models, current and emerging technologies;
- In-depth user research; including privacy interests;
- Development of personas;
- Engagement with other UK departments.



Oversight and governance

Standards and rules

Certification and assurance

Commercial framework

Verify hub (Broker)

IDP

IDP

IDP

Gov service

Gov service

Gov service

GDS



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GDS

(Broker)

Scottish DS
IDP

Scottish
ATP



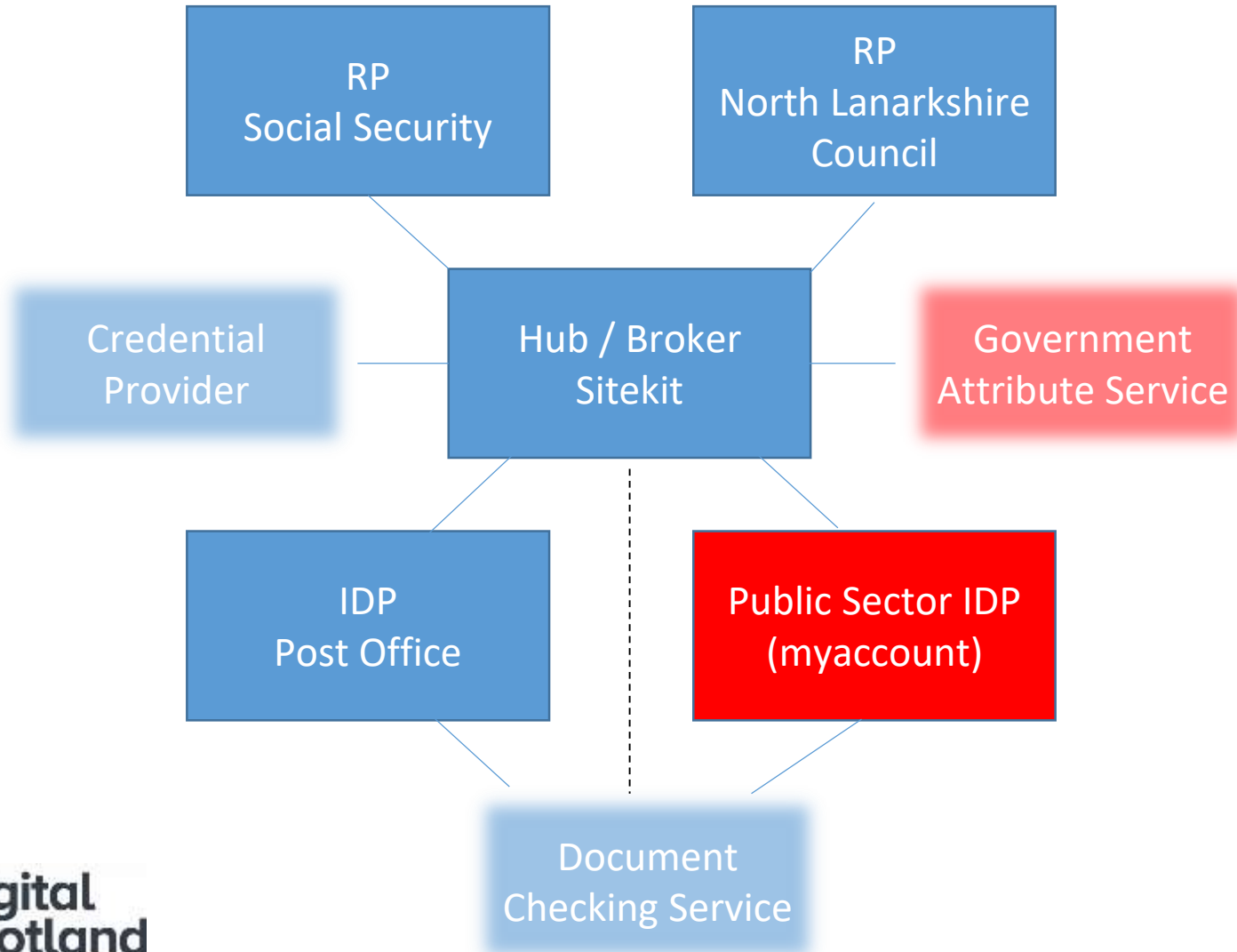
Digital Identity Scotland

Alpha

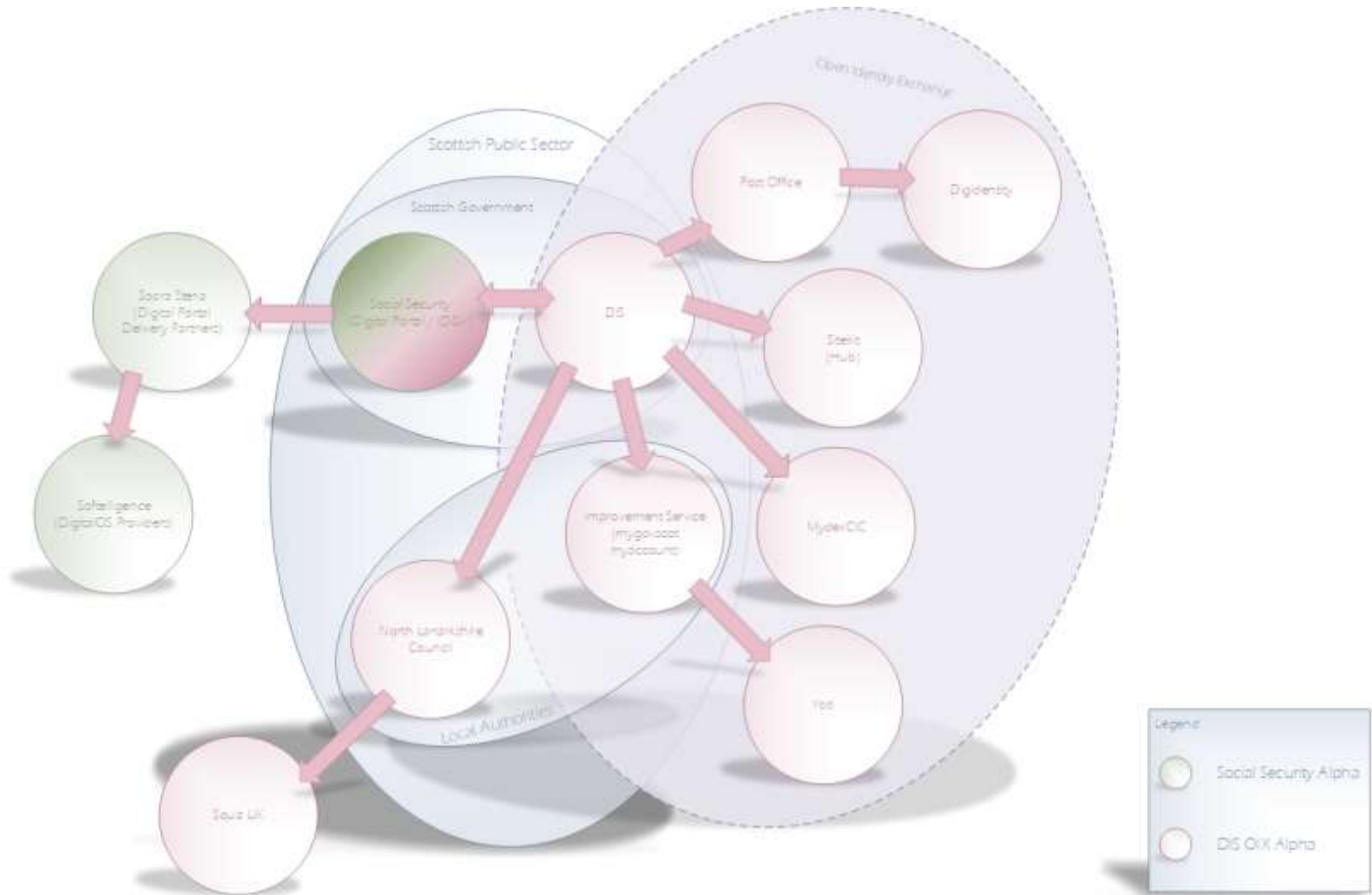
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ALPHA

Proof of Concept



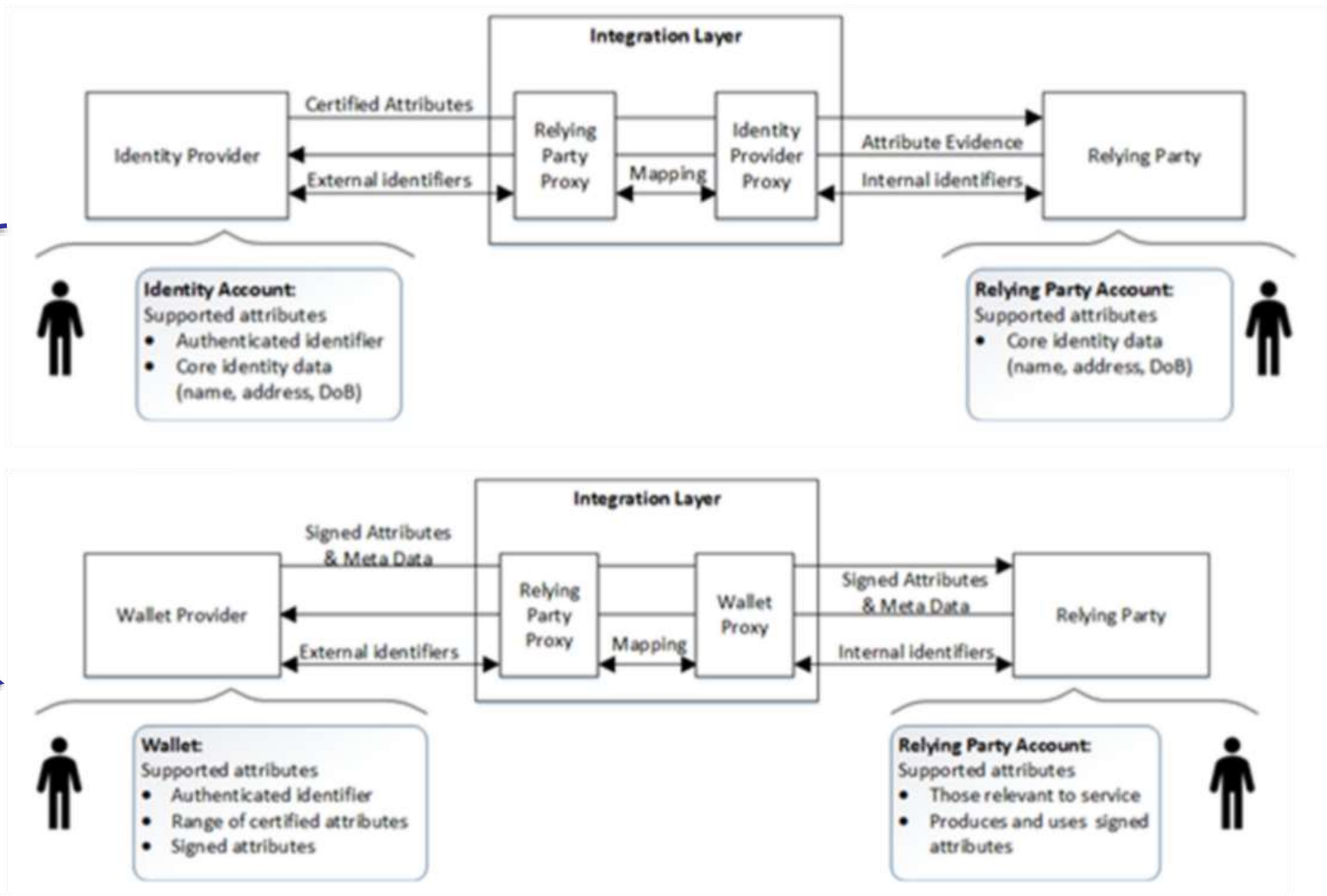
PoC Complexity



Outputs from Alpha

- Successful testing of architecture design
- OIX White paper – staged approach
- Extensive user research; on various elements of a user journey:
 - Consent
 - Trust
 - Choice
 - Accessibility
 - Face to Face proving

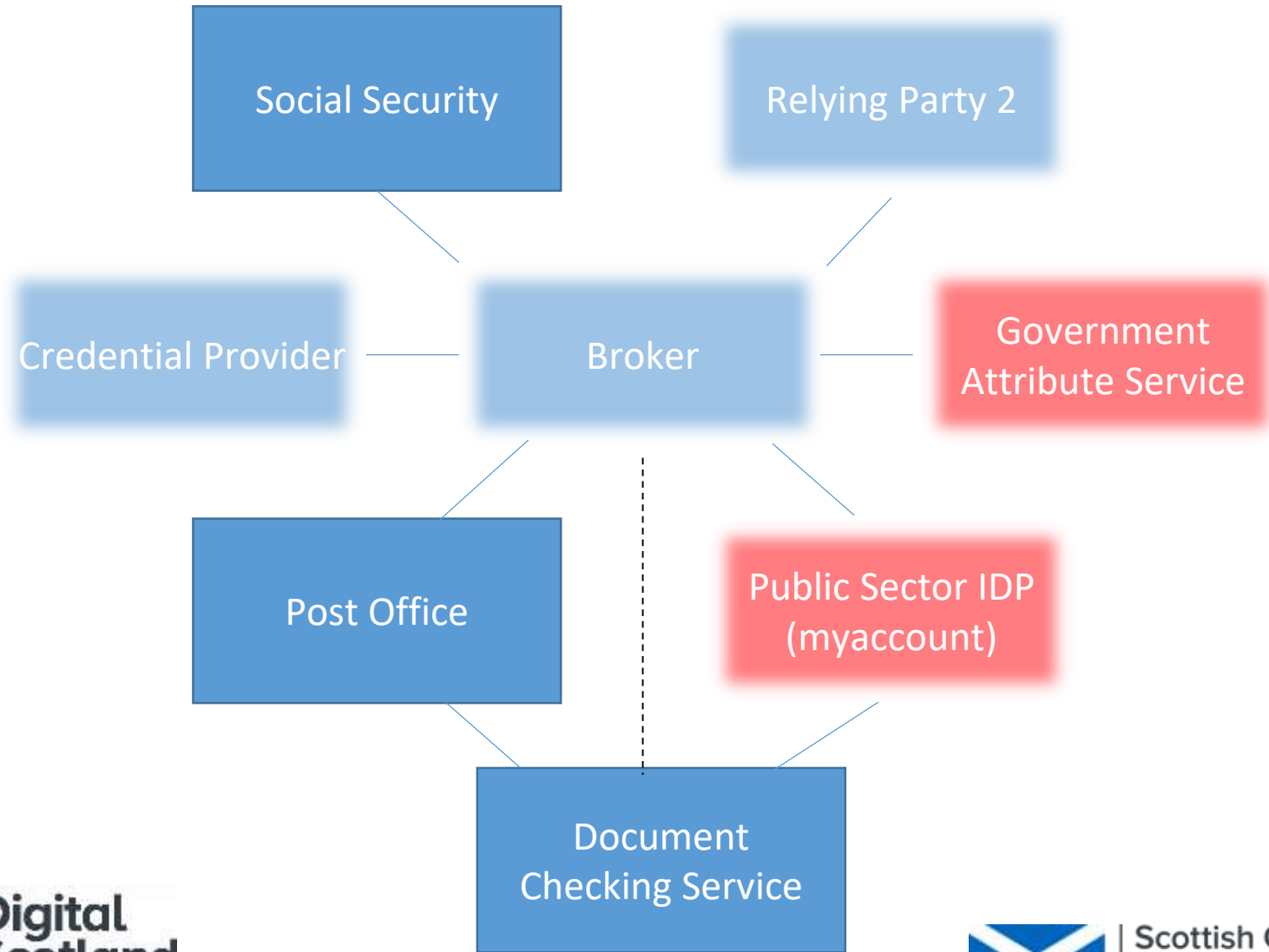
Staged Approach





Interim solution to support SSD

- Commenced **July 2019**
- Pre-market engagement for Single IDP
- Options appraisal
 - Technical, business and costs
 - Assumption of access to document checking service

Proposed Interim SSD Solution







Mike Pegman · 1st

Identity, Trust, Risk, Trusted Attributes: low friction outcomes, and data ownership centred on us.

United Kingdom · 500+ connections · [Contact info](#)

[Message](#) [More...](#)

 Vine Solutions Limited

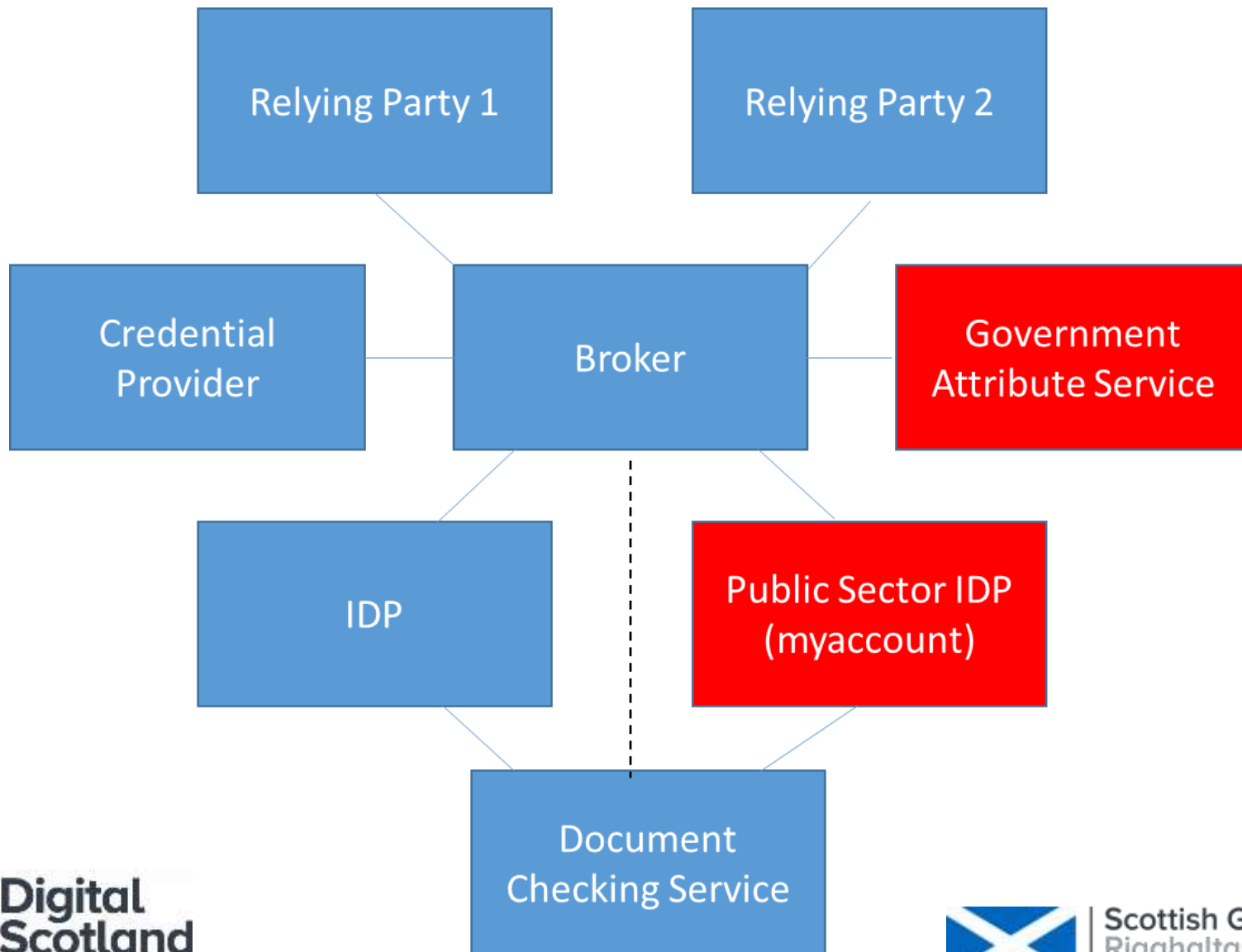
 University of Cambridge

Independent Expert

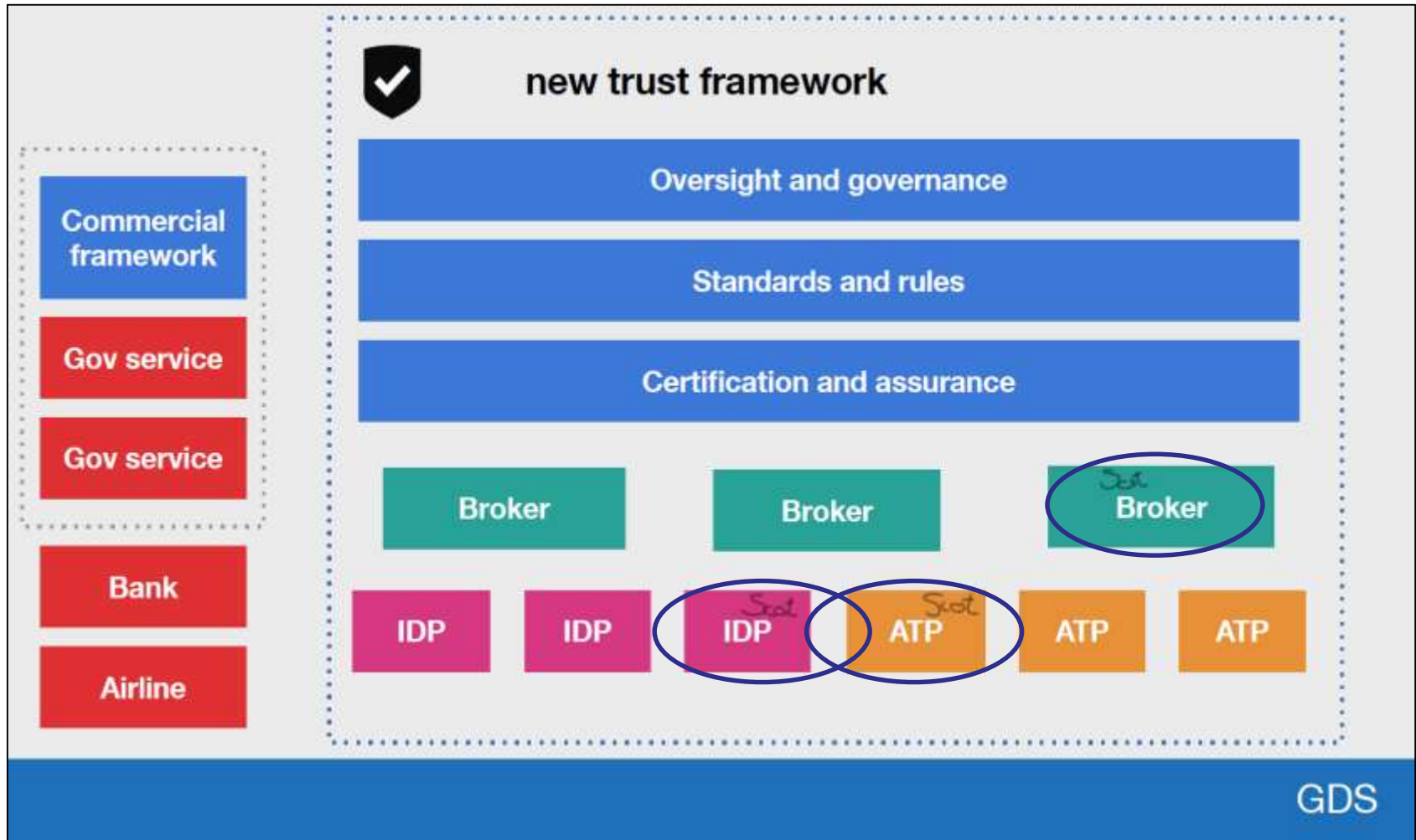
Moving towards an Attribute Strategy



Target for 2021



Delivery Option

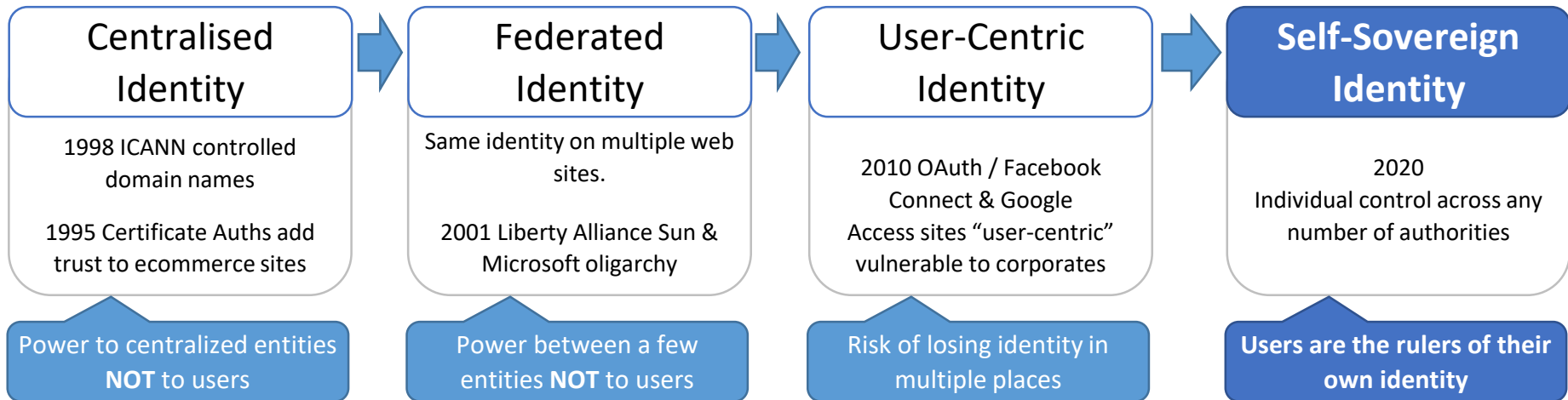


Key Considerations

- Privacy by design in identity attribute sharing
- Interoperability, including standards
- Collaborating with GDS on trust framework and timescales
- Delivering for SSD
- Testing new elements and use cases
- Market changes

Where are we?

Identity technical evolution

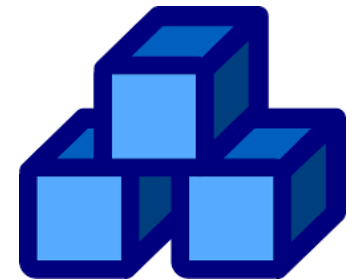


User control of identity requires “autonomy”

Digital identity = collection: electronically captured and stored **identity attributes**

Digital identity system = systems/processes manage the lifecycle of individual digital identities.

Prototype



A young man with dark hair, wearing a black t-shirt, is looking down at a smartphone he is holding in his hands. The scene is dimly lit, with the background being a dark, textured wall. A white line with three dots connects the text box to the man's face and phone.

Jason McDonald

Aged 16

Jason is a student at High School and has severe autism.

Jason McDonald

Aged 16

User Service Needs:

- Apply for concessionary travel
- Apply for Personal Independence Payment
- Apply for Independent Living Fund

Preferred Method of Application:

- Website
- Mobile app
- Face to face if digital is not easy

Current Identification:

- National Insurance Number Card
- Passport
- Young Scot Card
- myaccount linked with Yoti

As Jason has a Young Scot Card, if Young Scot could confirm his age eligibility and SEEMiS could confirm his additional support assessment, applications for benefits or concessionary travel could be fast-tracked. In a digital world, those same attributes could be held on a digital wallet which could be used to receive other entitlements aimed at students with additional support.

POTENTIAL ATTRIBUTES

UCRN
 Community Health Index Number (CHI)
 National Insurance Number (NINO)
 Scottish Candidate Number (SCN)
 Student Awards Agency Scotland (SAAS) Reference Number
 SEEMiS ID (pupil)
 Student Loans Company Reference Number
 UCAS Reference Number
 Student Matriculation Card Number
 Educational Qualification
 Modern Apprentice
 Disclosure Scotland-checked
 Parental Responsibility (Y/N)

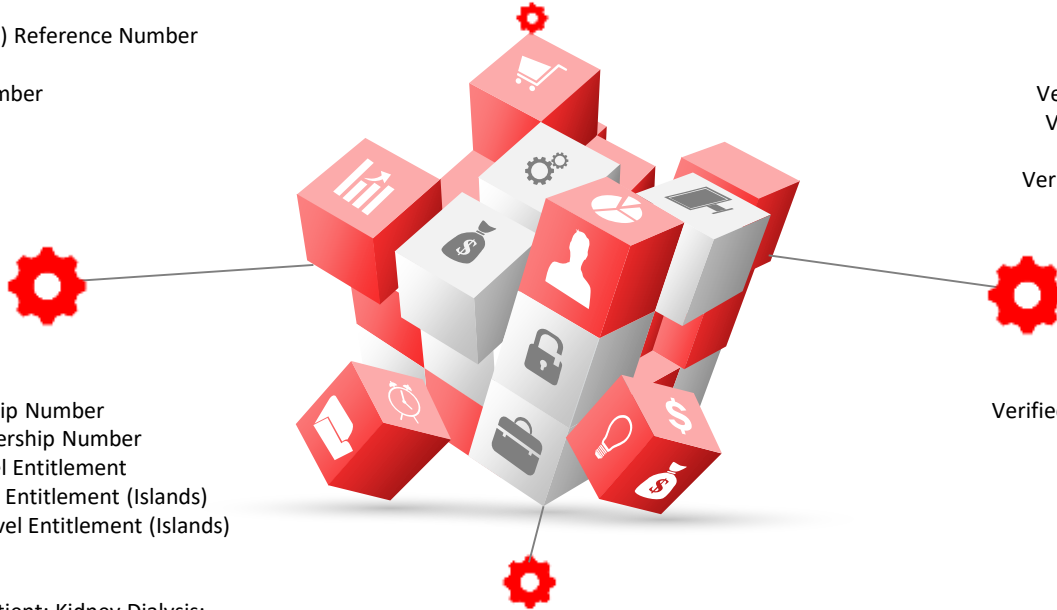
National Entitlement Card Number
 Local Authority Library Card Membership Number
 Local Authority Leisure Services Membership Number
 Registered for Concessionary Bus Travel Entitlement
 Registered for Concessionary Air Travel Entitlement (Islands)
 Registered for Concessionary Ferry Travel Entitlement (Islands)
 Registered Disabled
 Verified Medical Condition:
 (e.g. Type 2 Diabetic; Mental Health patient; Kidney Dialysis;
 Substance & Alcohol Abuse Treatment; Registered as Clinically
 Obese; Weight Management)

Verified name
 Verified address
 (including postcode, USRN, UPRN, Easting, Northing, Latitude & Longitude of the property)
 Verified age
 Verified photograph
 Verified gender
 Scottish Level of Assurance (0,1,2)

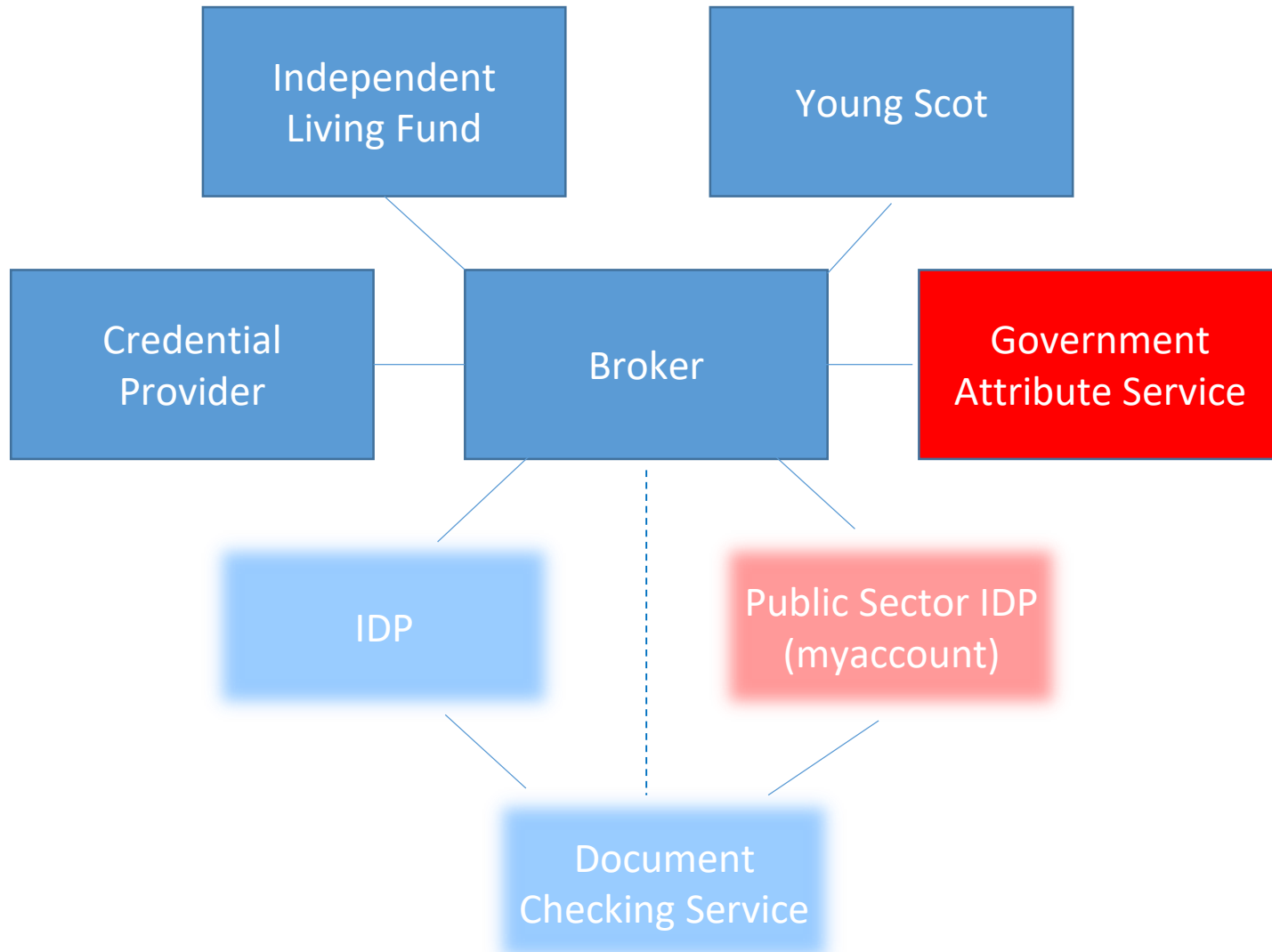
Registered Landlord
 Registered Council Tax Payer
 Registered Single Person Household
 Registered Refugee
 Registered Unemployed
 Verified Young Carer
 Verified Care-Experienced Young Person
 Verified General Practitioner Or Dentist
 Verified Social Worker
 Verified NHS Scotland Health Professional
 Verified Teacher
 Verified Justice of the Peace
 Verified Local Councillor

Verified foster parent
 Verified adopted or care-experienced person
 Registered Full-time Volunteer
 Registered Farmer
 Registered Armed Forces Veteran
 Registered Prisoner Rehabilitation
 Business and Property Reference
 Employee ID Number
 Local Authority ID
 Scottish Indicator of Multiple Deprivation (SIMD) Rank

UK Passport Number
 UK Driving Licence Number
 Vehicle Registration Number
 Licence Number
 Electoral Roll ID



Attributes Prototype



Questions



Next Steps

- Procurement of technology partners to support the Prototype development;
- Ongoing engagement with GDS to explore options related to the commercial framework;
- Ongoing research of Identity & Trust models across the globe;
- Ongoing collaboration with SSD to deliver Identity proving for roll out of disability benefits;
- Finalise in-person (face-to-face) identity verification standards

Thank you

Want to find out more? Talk to us!

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☎ 0131 244 7380

🐦 [@digitalidscots](https://twitter.com/digitalidscots)

🔍 blogs.gov.scot/digital

