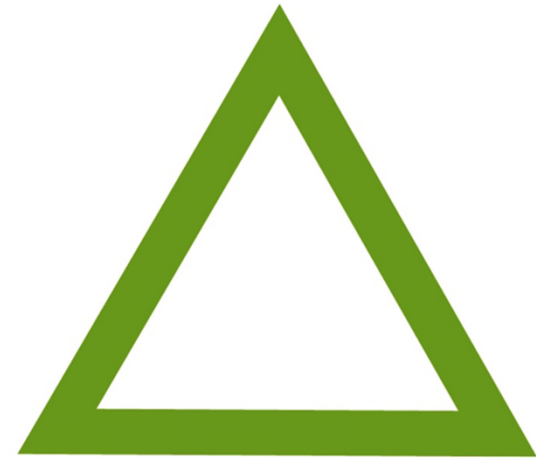# Digital credentials, and DRAGONS!

PESC Fall Data Summit 2019

Andy Dowling
CEO, Digitary

DIGIT△RY

Today, I'll talk about…

🤔 Observations on digital credentialing
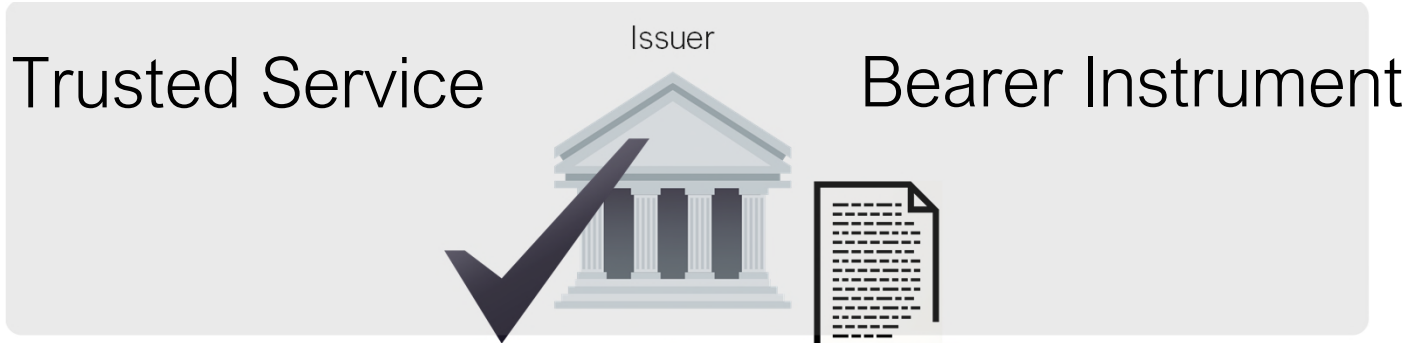
👷 Challenges & opportunities

DIGIT△RY

Trending terminology…

Blockchain

Self-Sovereign Identity (SSI)

Verifiable Credentials

DIGIT△RY

Trusted Service

Issuer

Bearer Instrument

Verifier

Learner

The Issuer's Perspective

1. Issuers still keep records

2. **Standards** are critical to enabling independent verification

3. If we use decentralised components, then we need to address **governance** and **sustainability**

The Learner's Perspective

1. Portability and privacy* are key benefits

2. Learners have to take more **responsibility** for their PII

3. **Standards** are key to making digital credentials portable across systems

* if implemented correctly!

The Verifier's Perspective

1. Disintermediated verification is **riskier** and **more complex**

2. **Standards** are needed

3. Platforms need to **adopt** these standards to make digital credentialing pervasive

There be….

Decentralisation: governance and sustainability

Responsibility

Adoption

Granularity

Ownership

New tech

Standards

DIGIT△RY

Collaborative opportunities

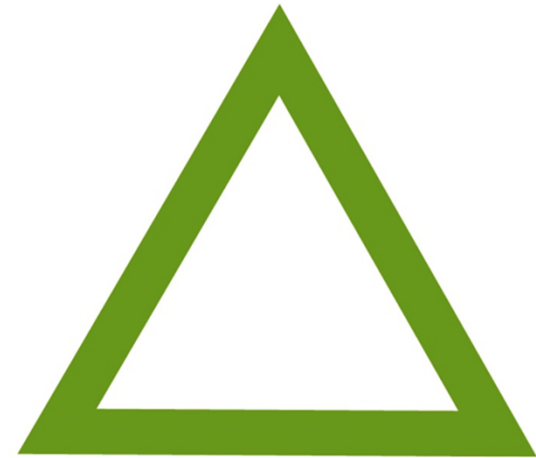|	What	How
Digital Identity	How can I verify the identity of credential issuers and learners?	Cryptography-based identity management
Trusted Issuers	Who are the legitimate issuers of digital credentials?	Issuer register
Credential Envelope	How do we securely represent a credential outside of the issuer's system?	Data schema + cryptographic proof
Credential Data	How do we represent the data fields of a particular credential (transcript, diploma, badge, etc.)	Data schema
Credential Exchange	How do we get a credential from A to B?	Protocol or API
Experimentation	How can we experiment with this technology in a real-world environment?	Be brave and dive in…

DIGITΛRY

Playing our part

DIGIT△RY   e⁖⁖ernym

- SSI and W3C Verifiable Credentials

- Experiment with learners and verifiers

- Run in parallel to existing model

- Will keep you posted!

DIGIT△RY

Thank You!

Andy Dowling
CEO, Digitary

(andy.dowling@digitary.net)

DIGIT△RY