

# Zero Identity



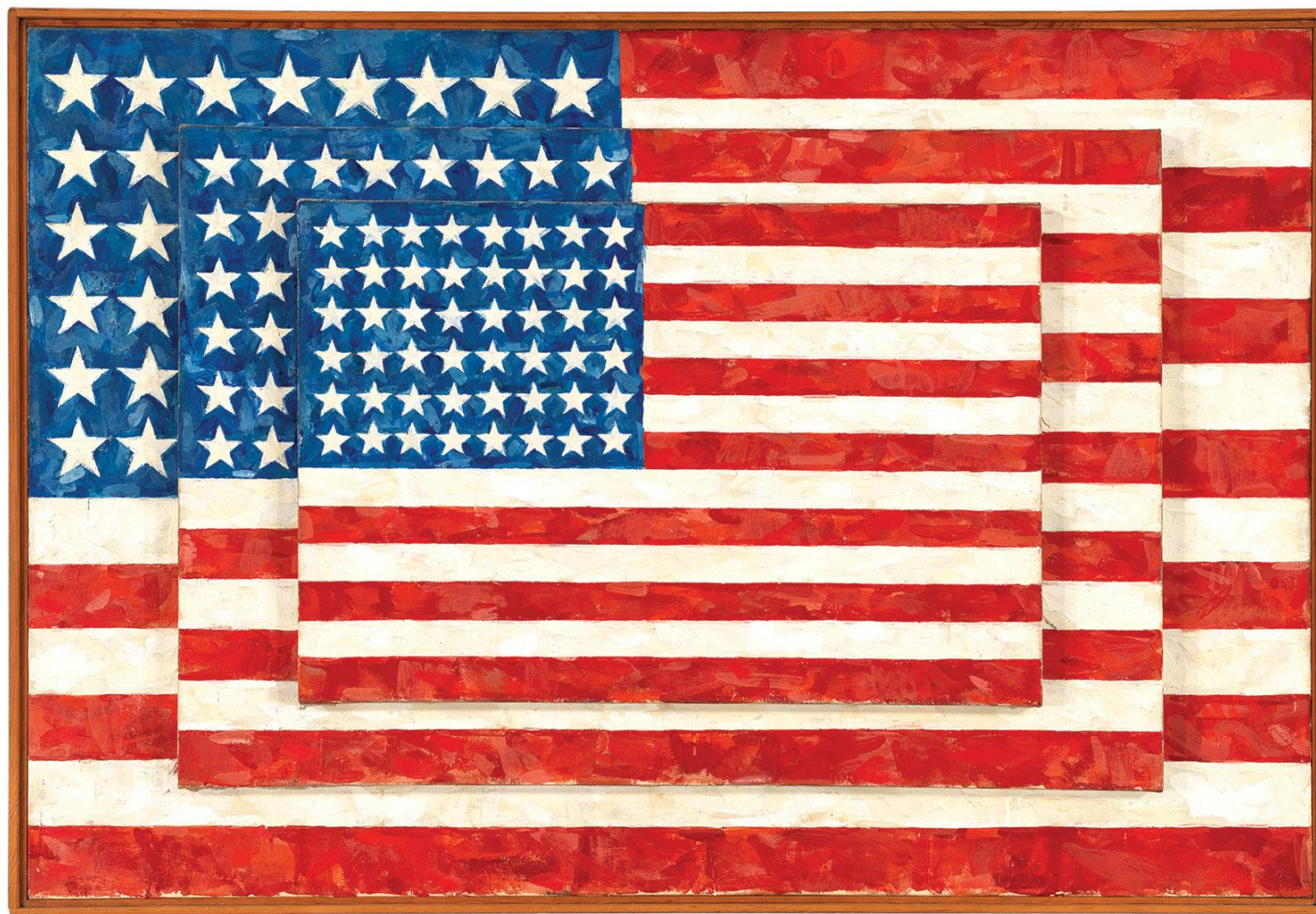




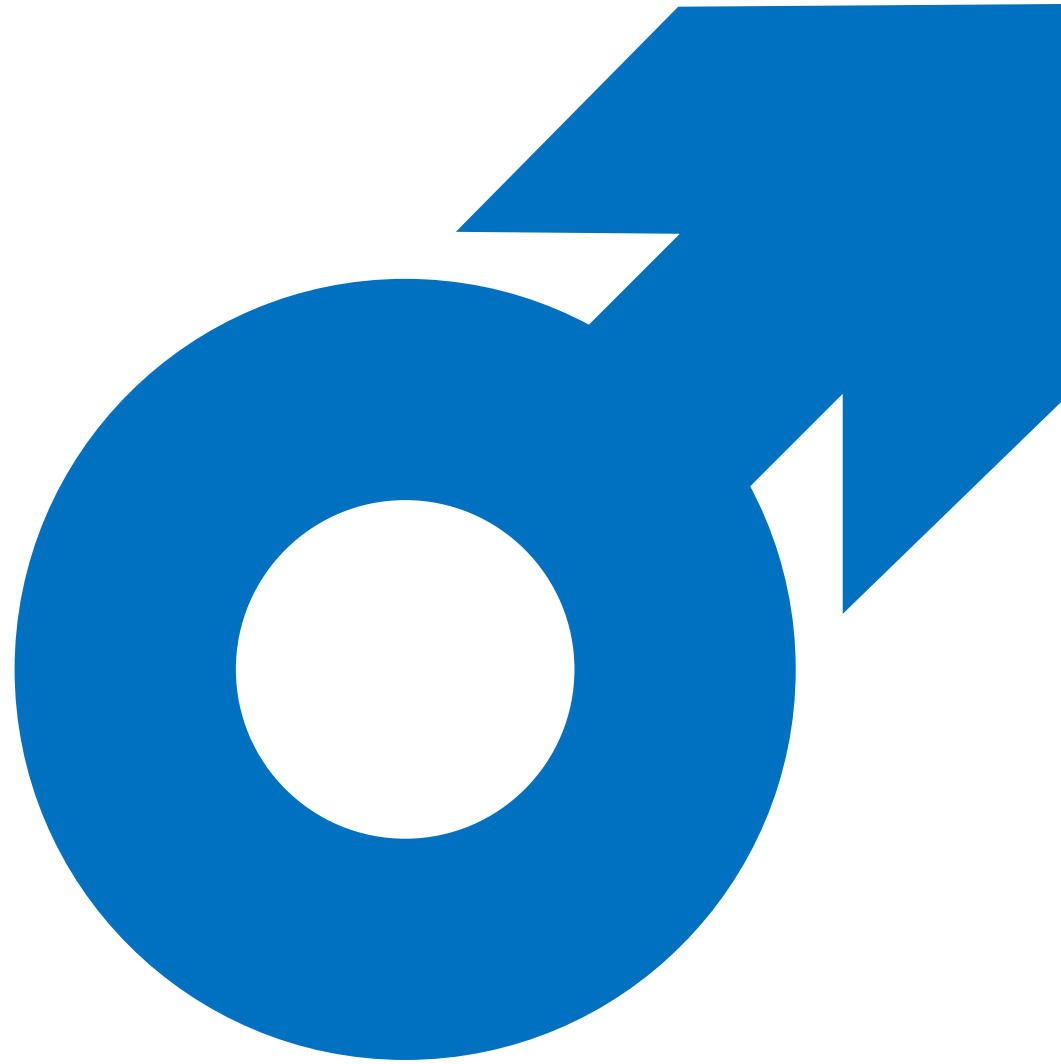
# GREEN ACRES



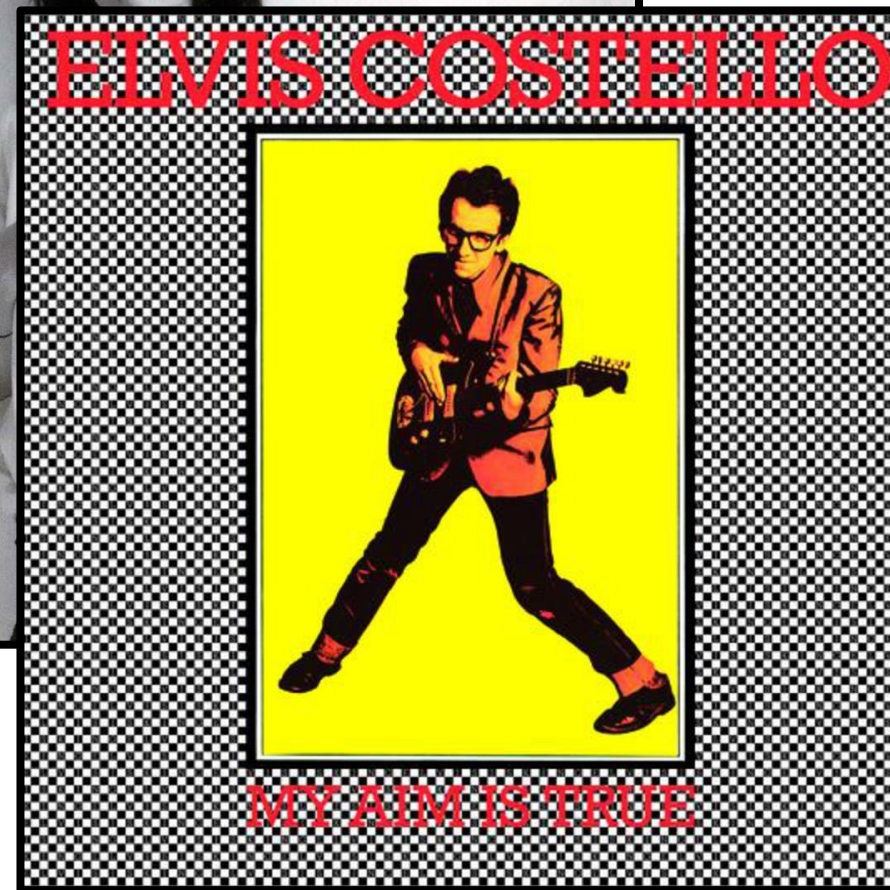
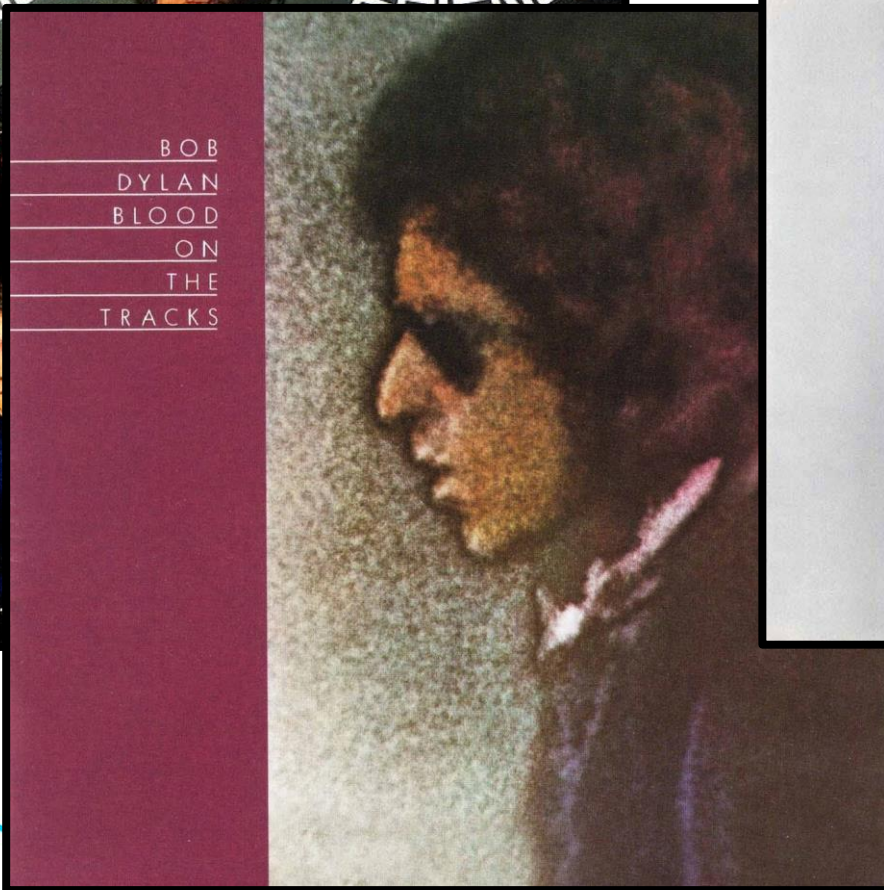




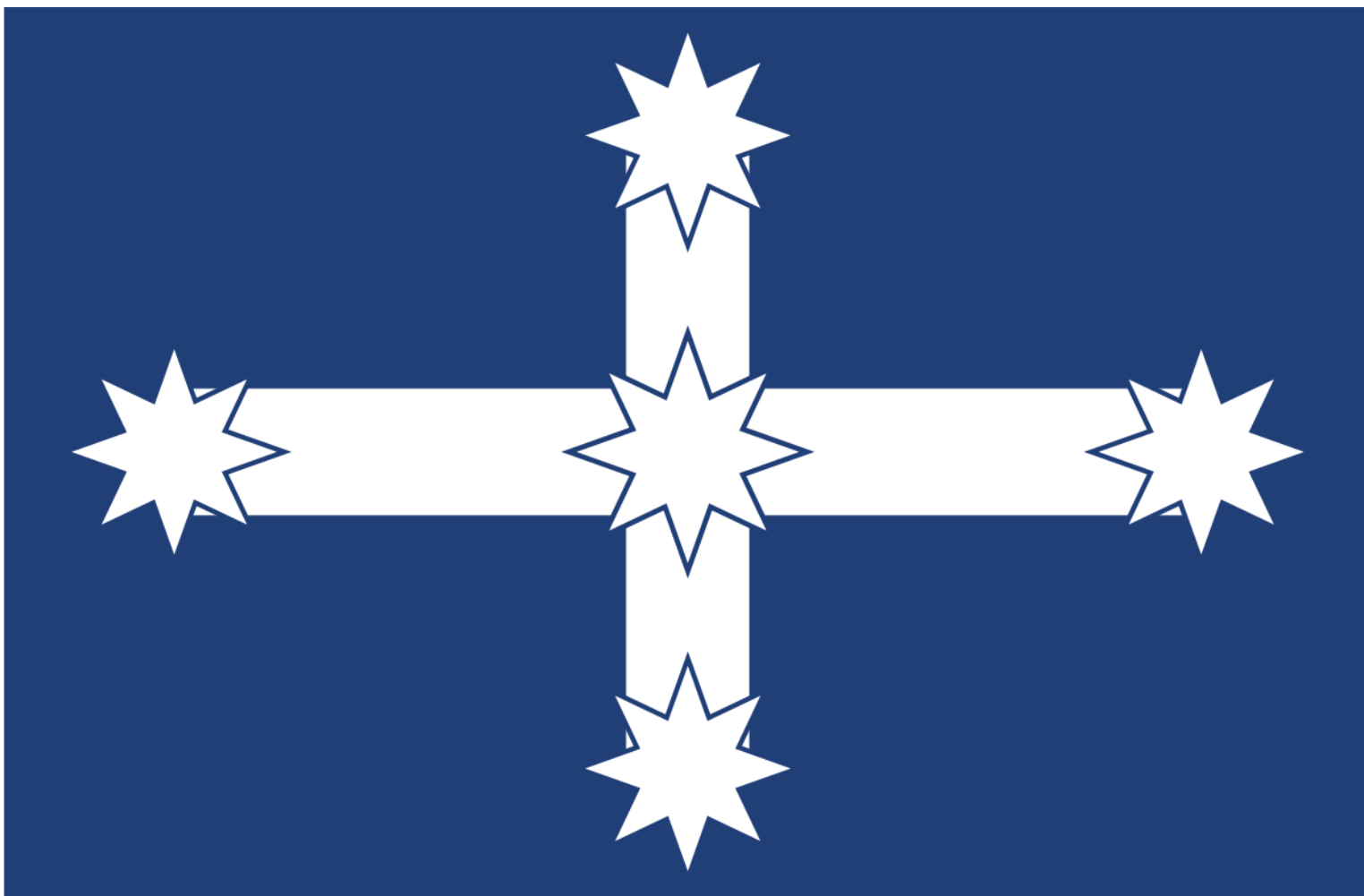






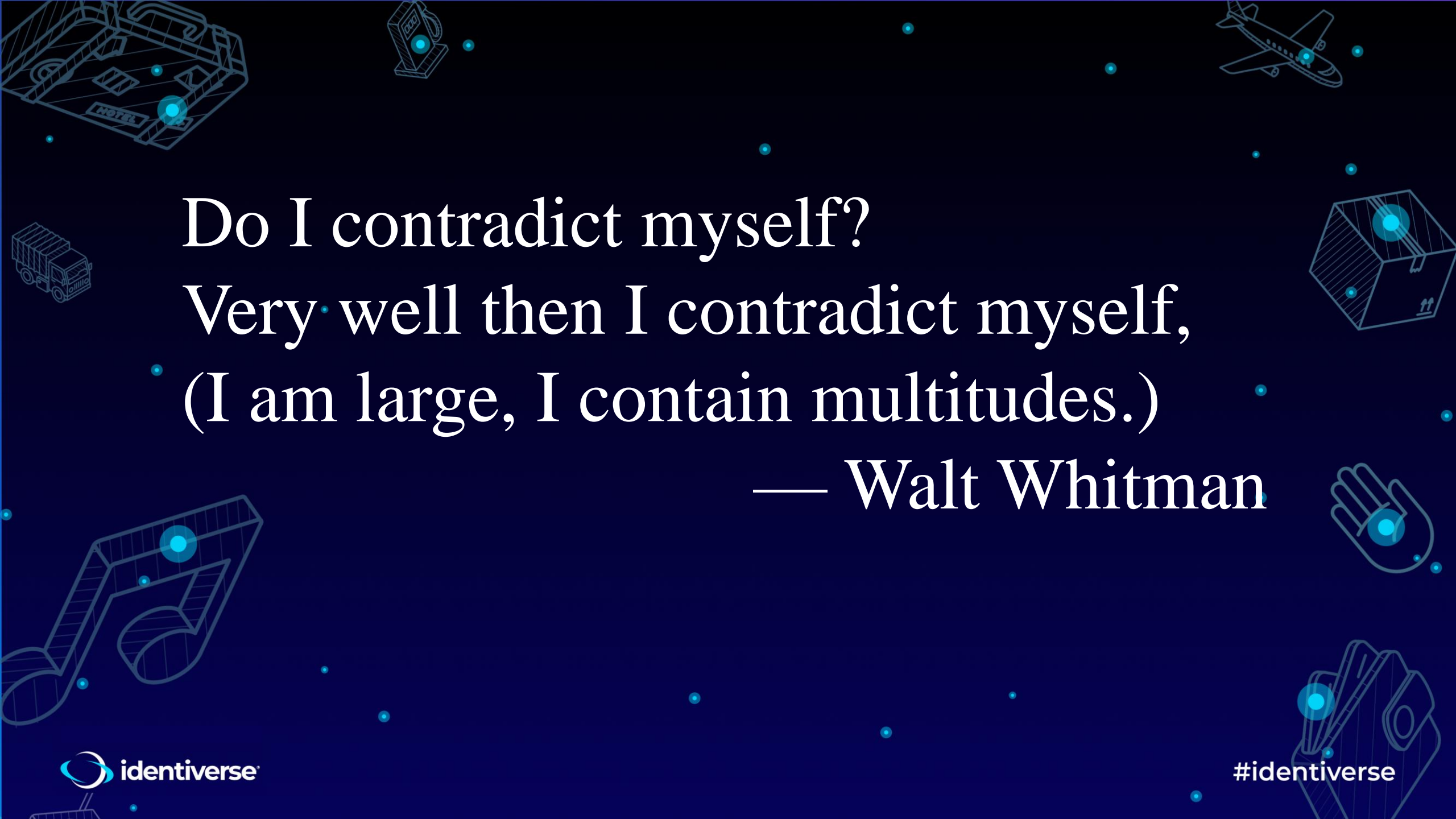












Do I contradict myself?  
Very well then I contradict myself,  
(I am large, I contain multitudes.)  
— Walt Whitman





## Title

“We are getting nowhere on digital identity, while identity fraud continues to spiral out of control and we are drowning in fake news.”

— Dave Birch



# Our magnificent obsession





Hello, Identity service?  
Send up more identity!

Kim Cameron's

# Laws of Identity

## 1 User Control and Consent

Technical identity systems must only reveal information identifying a user with the user's consent.

## 2 Minimal Disclosure for a Constrained Use

The solution which discloses the least amount of identifying information and best limits its use is the most stable long term solution.

## 3 Justifiable Parties

Digital identity systems must be designed so the disclosure of identifying information is limited to parties having a necessary and justifiable place in a given identity relationship.

## 4 Directed Identity

A universal identity system must support both "omni-directional" identifiers for use by public entities and "unidirectional" identifiers for use by private entities, thus facilitating discovery while preventing unnecessary release of correlation handles.

## 5 Pluralism of Operators and Technologies

A universal identity system must channel and enable the inter-working of multiple identity technologies run by multiple identity providers.

## 6 Human Integration

The universal identity metasystem must define the human user to be a component of the distributed system integrated through unambiguous human-machine communication mechanisms offering protection against identity attacks.

## 7 Consistent Experience Across Contexts

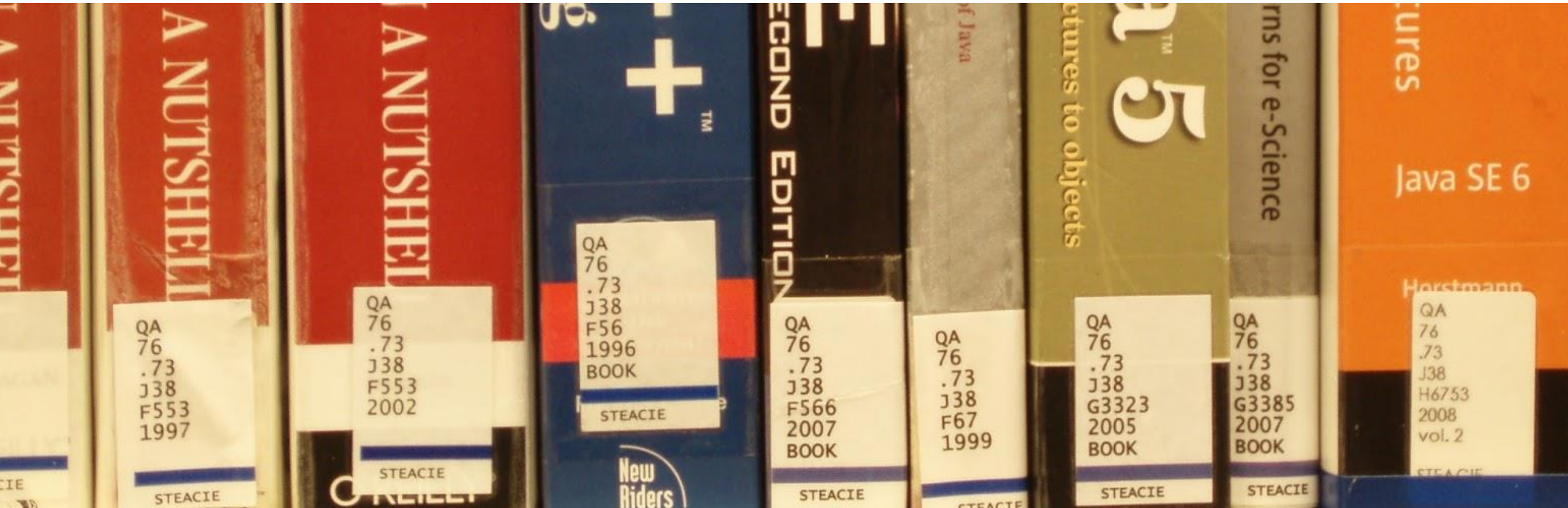
The unifying identity metasystem must guarantee its users a simple, consistent experience while enabling separation of contexts through multiple operators and technologies.

## Our physics





# Identifiers are not identities



## “Less identity”

“I want my identity to be **less** than the real me”

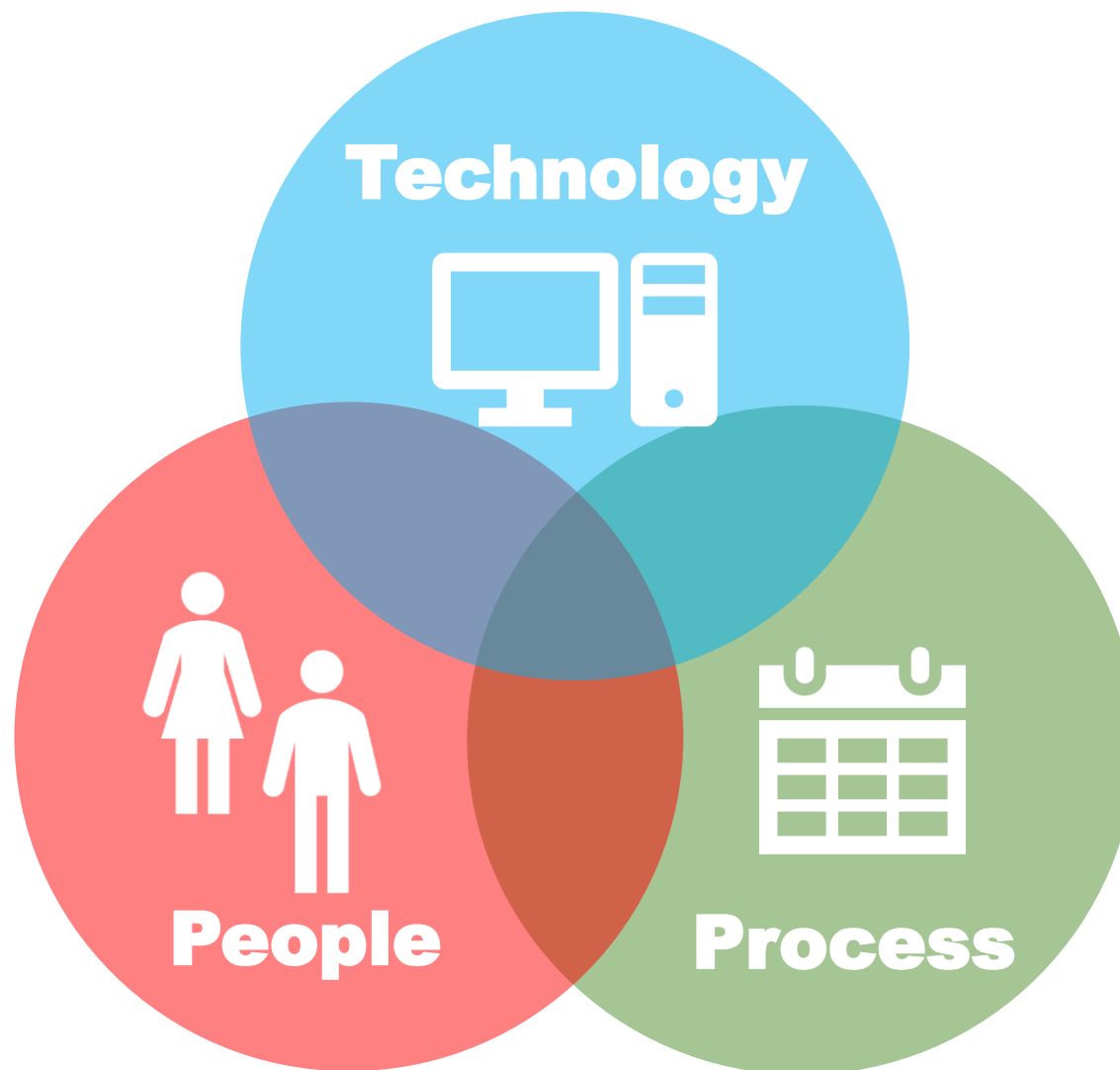
— Tim Bouma  
Medium, Dec 9, 2018



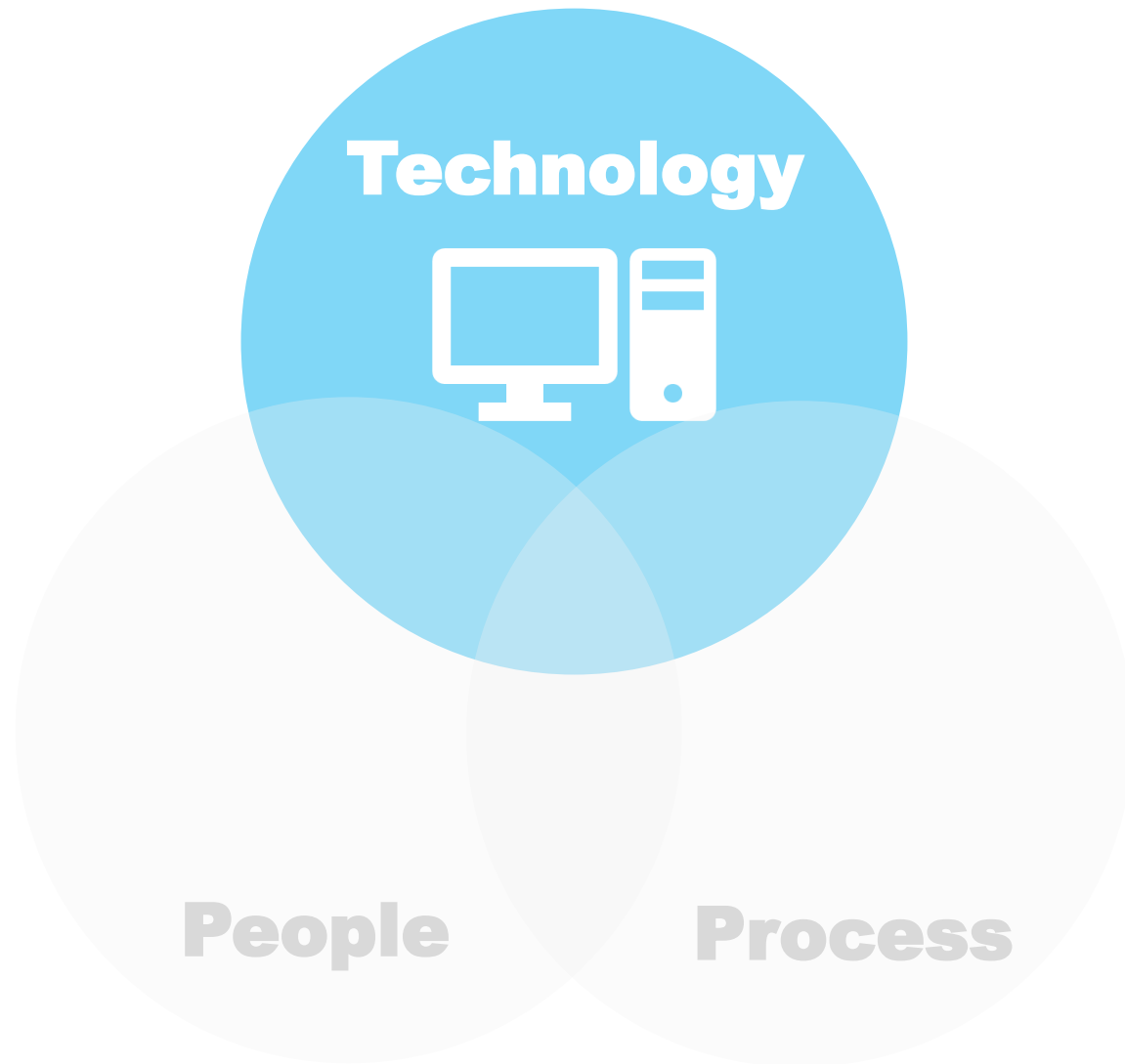
LESS IS MORE.



# Zero Trust



# Zero Trust



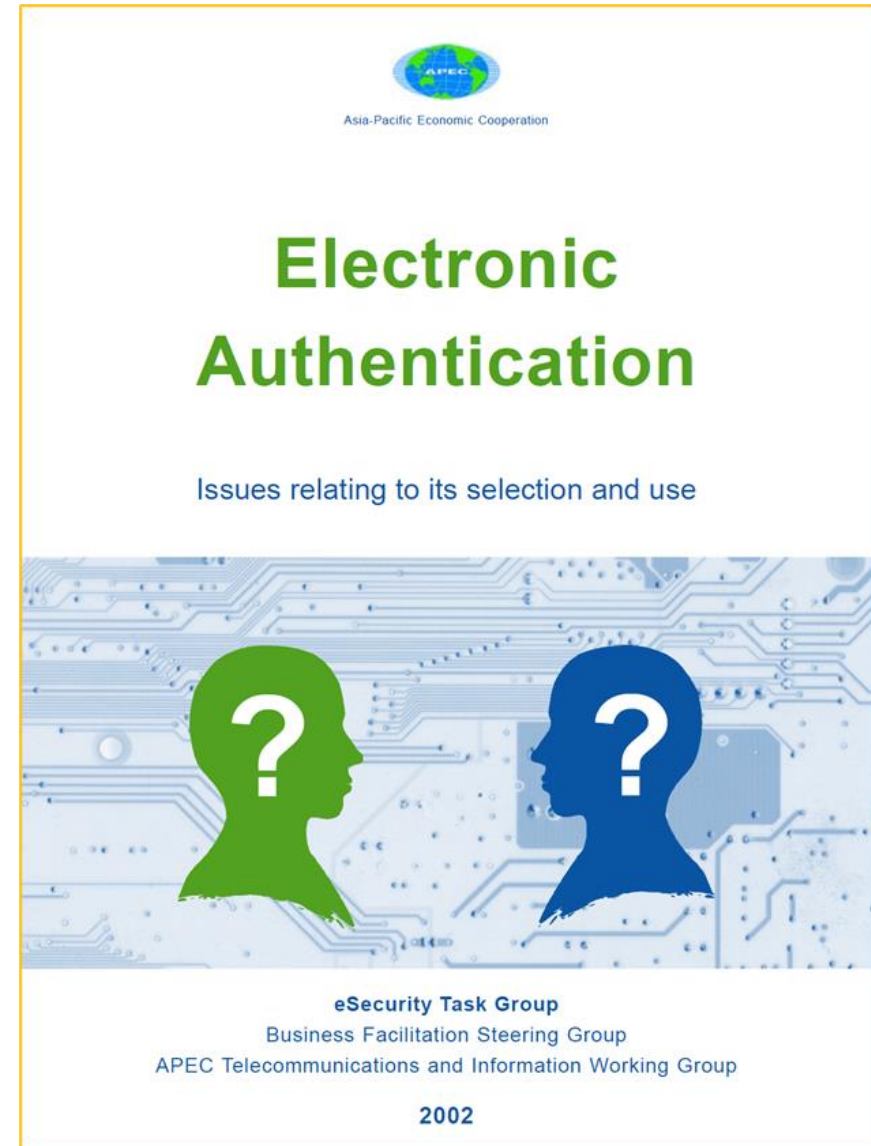
# Design Thinking



# Authentication

*The means by which [we decide] to accept or reject a transaction or message.*

— APEC 1997.



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*Google University of Medicine*

*This certifies that Dr. \_\_\_\_\_ on recommendation of  
the faculty of the Google University of Medicine has conferred the degree of:*

**Internet Doctor of Medicine**

*Who has honorably fulfilled all the requirements prescribed by  
the university for that degree.*



*President* \_\_\_\_\_  
*Director* *Nesta H. Demand*  
*Date* \_\_\_\_\_

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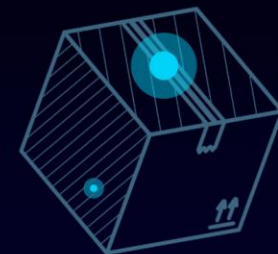
*This certifies that Dr. \_\_\_\_\_ on recommendation of  
the faculty of the Google University of Medicine has conferred the degree of:*

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*Who has honorably fulfilled all the requirements prescribed by  
the university for that degree.*

- 1. What do you need to know?**
- 2. Where will you get the data?**
- 3. How will you tell if it's fit for purpose?**





## Identification

*Instead of couching [permissions and authorisations] as an issue of identity, we should use identification or verification.*

— NAB roundtable 2023.





# The grammar of identification





# The grammar of identification

A1 Given name 90%

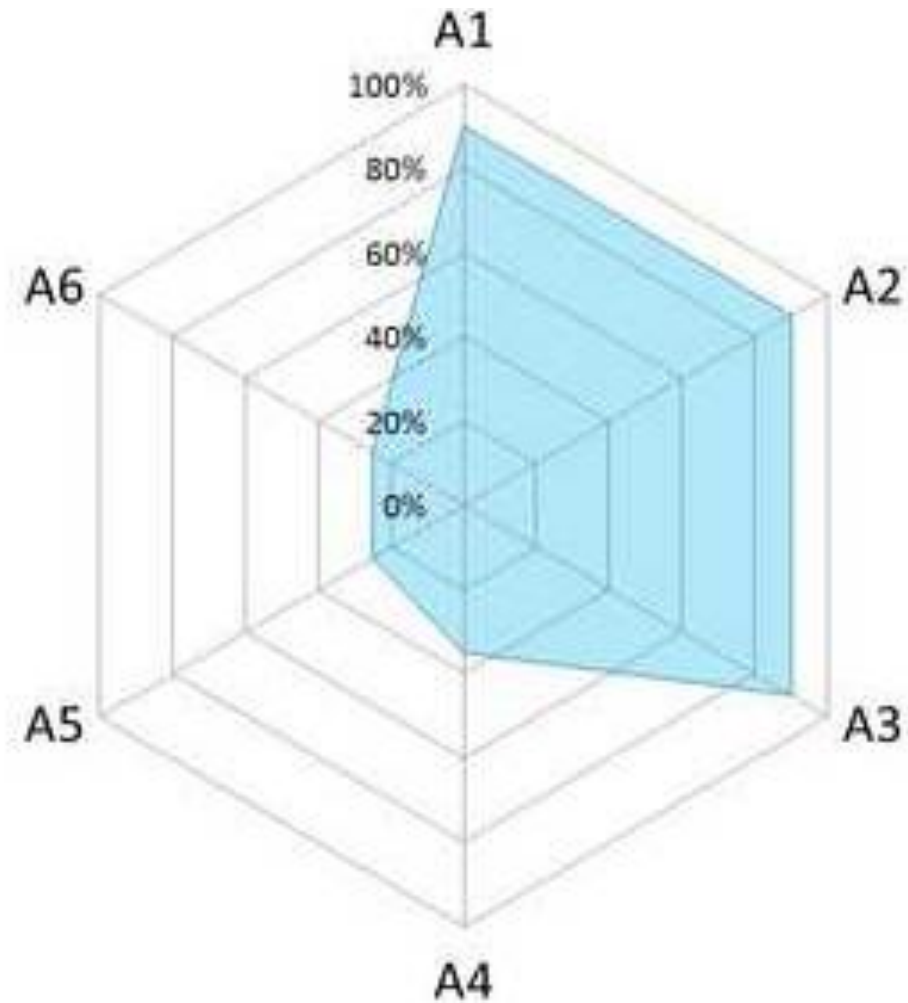
A2 Address 90%

A3 DOB 90%

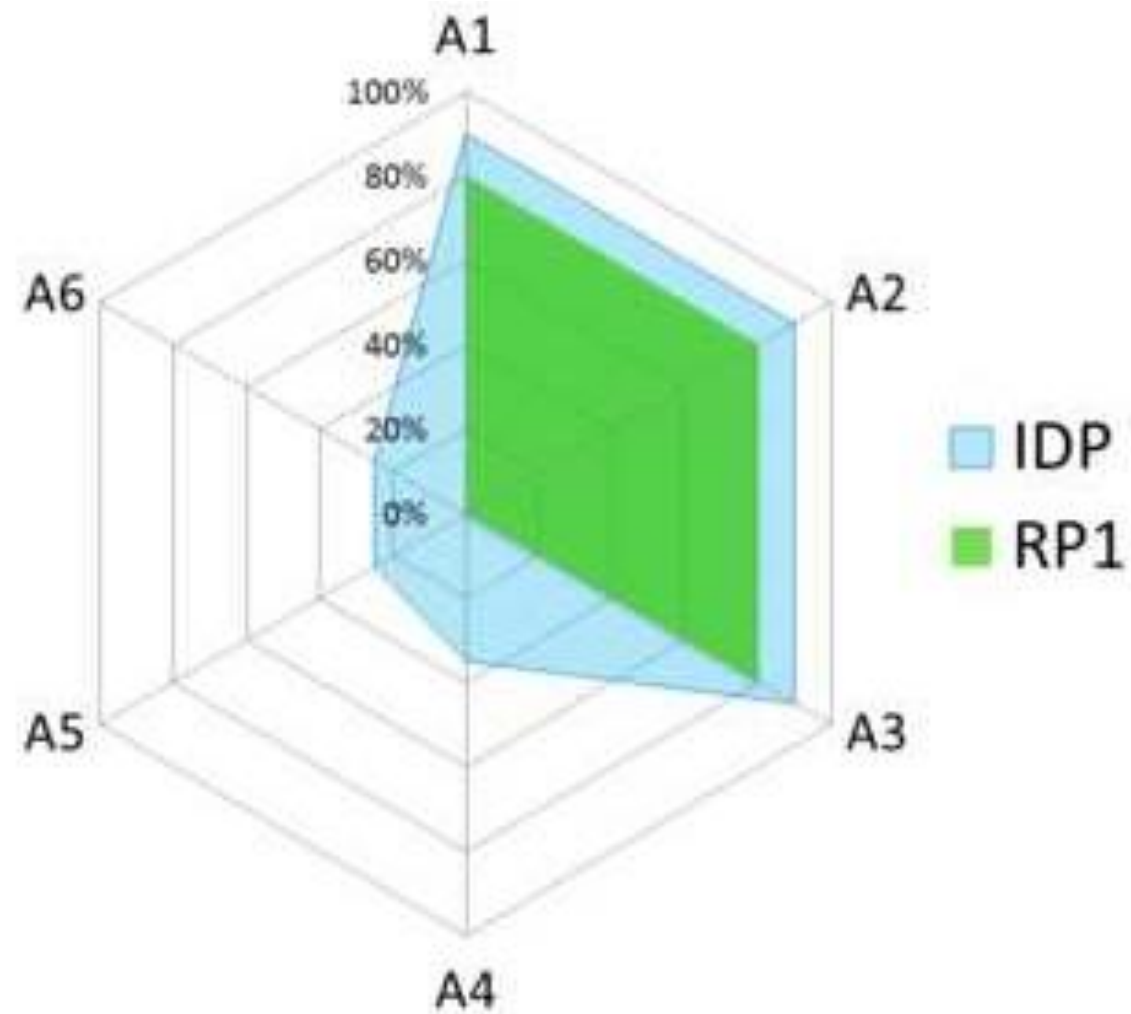
A4 Gender 35%

A5 Qualifications 25%

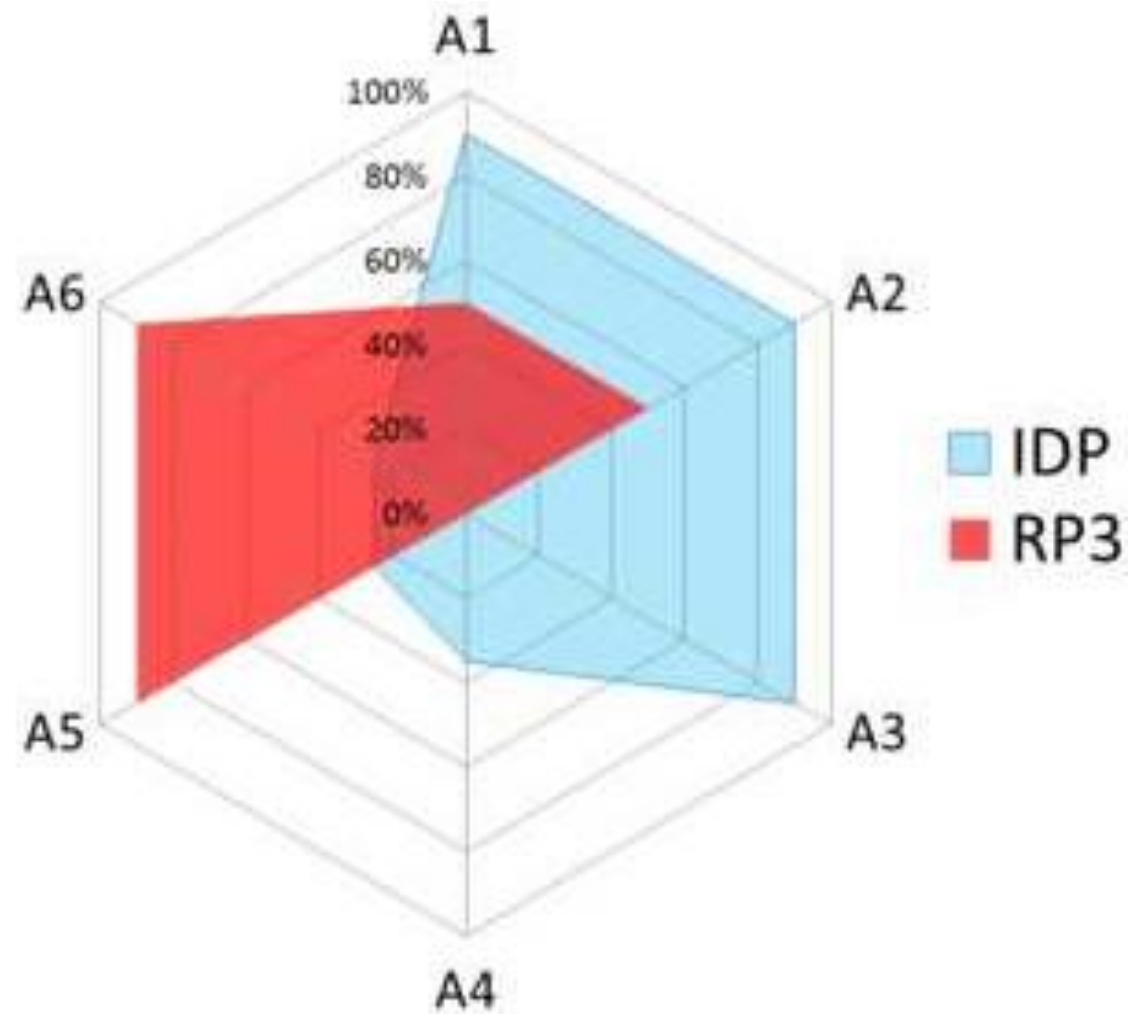
A6 Residency 25%



# The grammar of identification



# The grammar of identification





**Our profession**



**IDPRO**

# A bigger idea

**Data Security** *Confidentiality, Integrity, Availability*

**Data Protection** *Provenance, Authenticity, Permissions ...*

# Verifiable credentials

Signed data  
about any thing

## Verifiable Credential

Subject Data

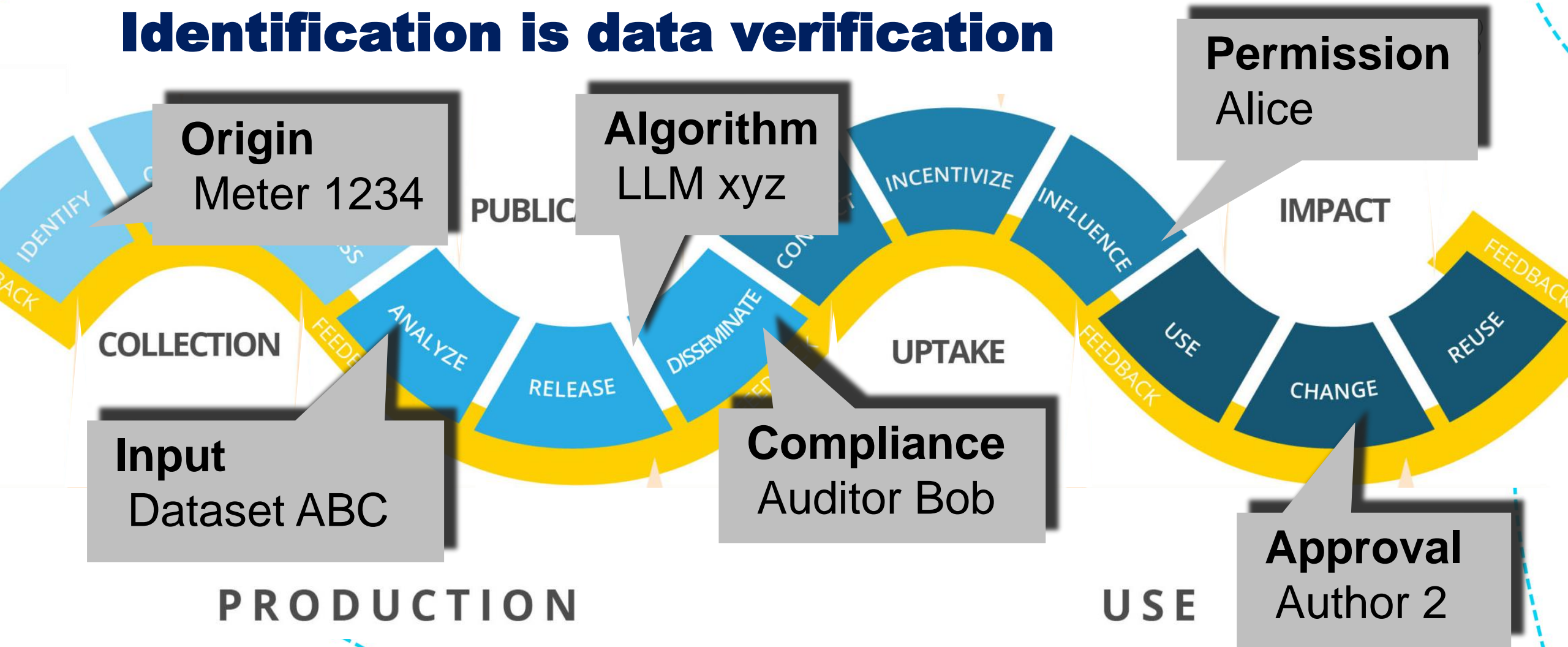
Metadata

Subject Public Key

Origin Signature



# Identification is data verification



# Zero identity – maximum value





# THANK YOU!





# Stephen Wilson

Principal

Lockstep Consulting

[www.lockstep.com.au/DVP](http://www.lockstep.com.au/DVP)