



# Identity Relations in the wild: DID and SSI



# Principles

(laws, design goals, ...)





# Principles, laws and goals

Design principles of IRM The Kantara Working Group on IRM

Design goals and principles of DID W3C Community report draft

Principles of SSI Christopher Allen

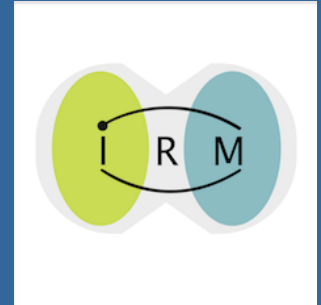
Laws of Identity Kim Cameron



# Design Principles of IRM

(Identity Relationship Management)

Provable  
Constrainable  
Mutable  
Revocable  
Delegable  
Scalable  
(Contextual)  
(Actionable)



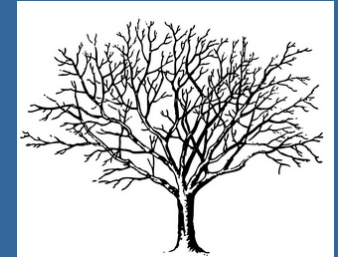
<https://kantarainitiative.org/kantara-initiative-unveils-design-principles-irm-report/>



# Design [...] principles of DID

Decentralization  
Self-Sovereign  
Privacy  
Security  
Proof-Based  
Discoverability

Interoperation  
Portability  
Simplicity  
Extensibility



<https://w3c-ccg.github.io/did-spec/>



# Principles of Self-Sovereign ID

Existence  
Control  
Access  
Transparency  
Persistence

Portability  
Interoperability  
Consent  
Minimalization  
Protection



<https://github.com/WebOfTrustInfo/self-sovereign-identity/blob/master/self-sovereign-identity-principles.md>



# The Laws of Identity

Control & Consent  
minimal disclosure  
justifiable parties  
directed identity

pluralism  
human integration  
consistent experience

<https://www.identityblog.com/?p=1065>



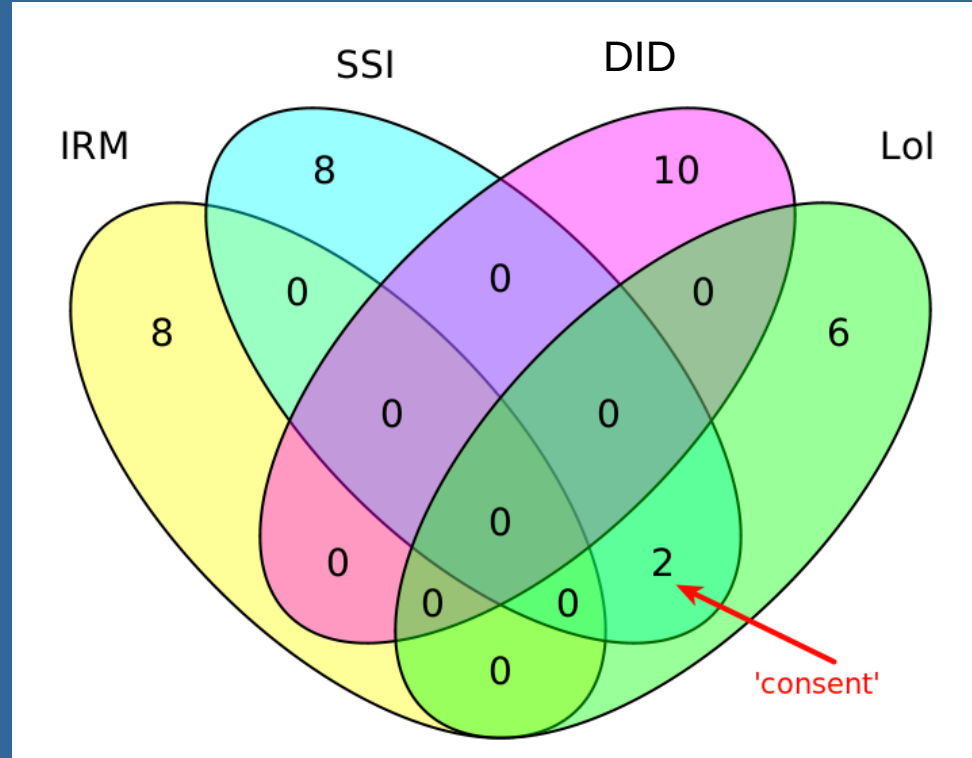




# What do they have in common?



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# „Universal Principle Names“



...for a completely different story...see my other sessions during this week !



# An Approach to normalization

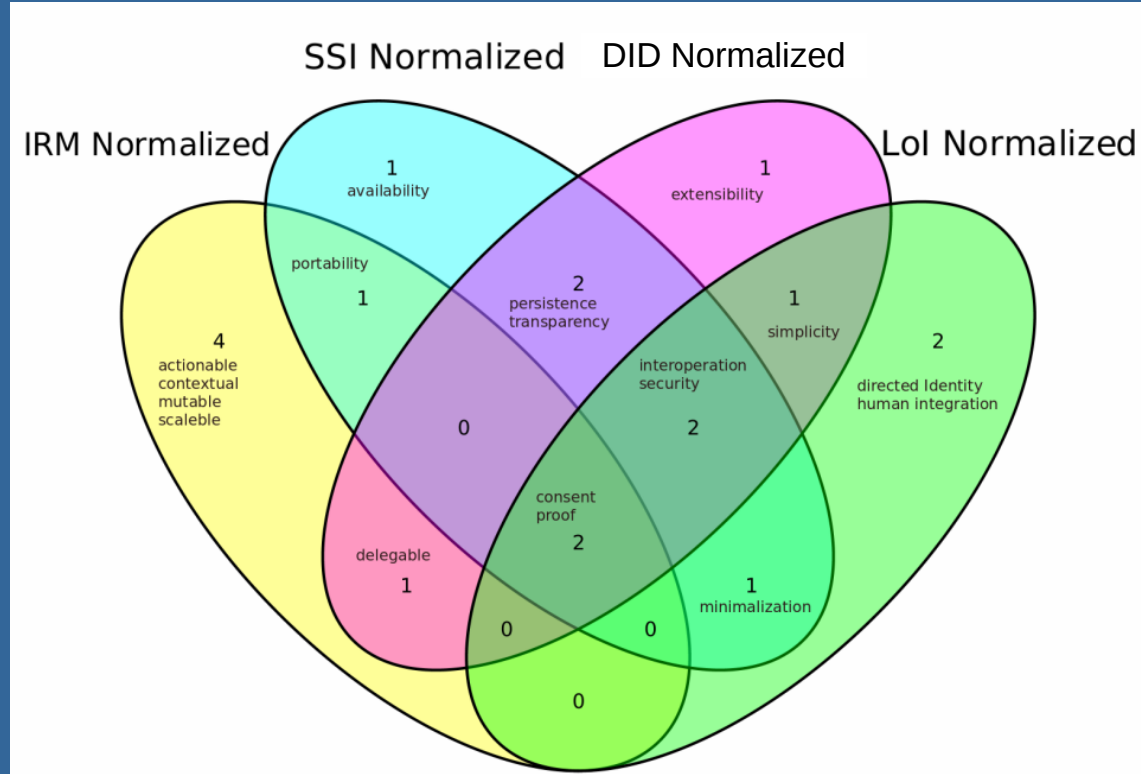
Proof  
Consent  
Mutable  
Portability  
Delegable  
Scaleable  
Actionable  
Contextual

Availability  
Transparency  
Persistence  
Interoperation  
Minimalization  
Security

Simplicity  
Extensibility  
Directed Identity  
Human Integration

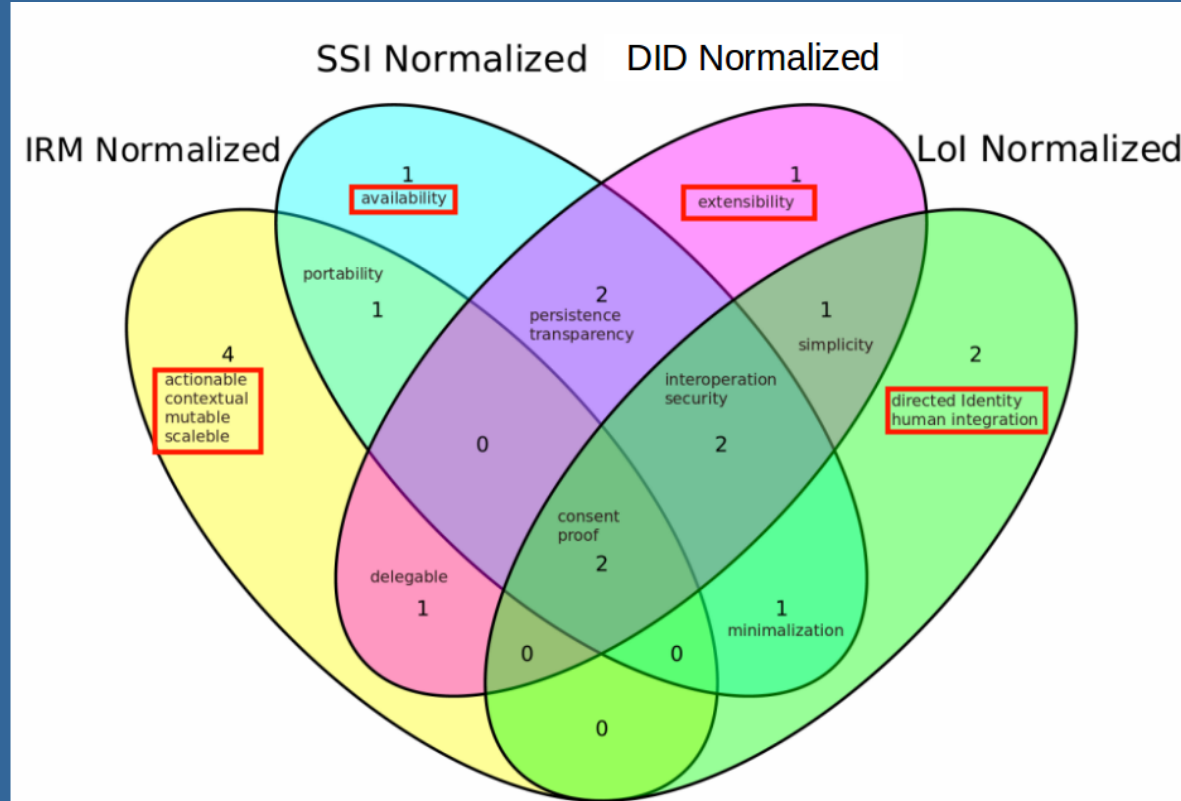


# What do they have in common?





# Lonely wolves

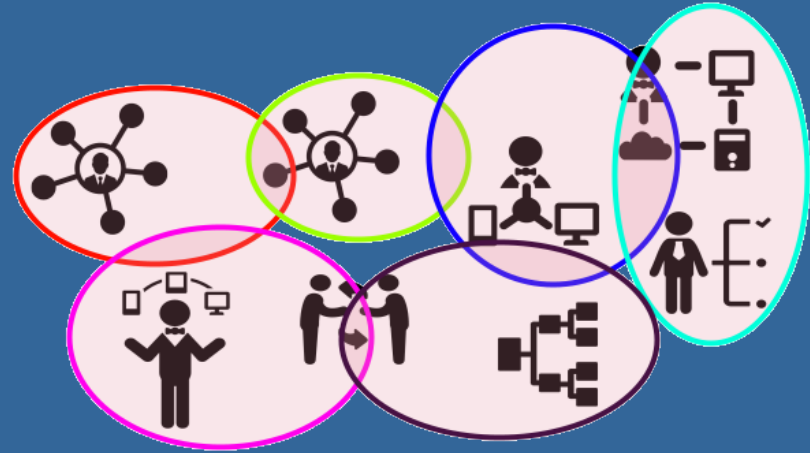




# Decentralized IDM

(aka Relationship Manager)

Human Integration  
Availability  
Extensibility  
Scalability  
Actionable  
Mutable

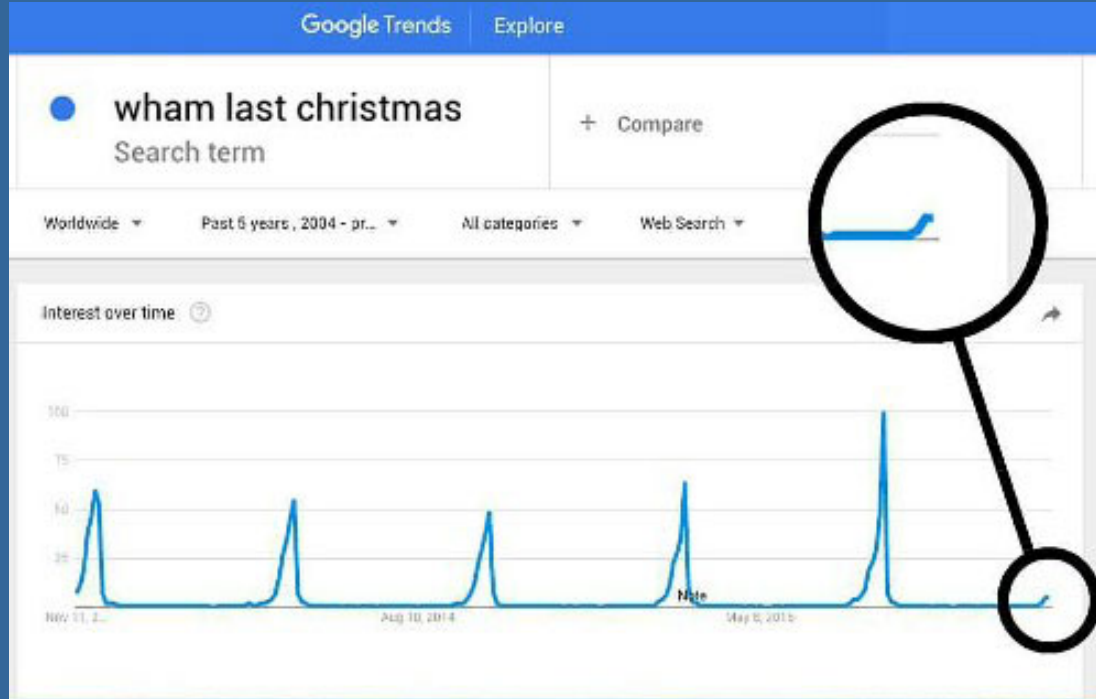


Icons ,designed by Freepik'

(Directed Identities are uni/omni-directional )  
(Context is everywhere)



# Please pay attention to...







# Decentralized Identity Management

The screenshot shows a search interface with the following elements:

- Search term: **decentralized identity management** (with a blue dot indicator and a vertical ellipsis menu icon)
- Search term placeholder: **Search term**
- Action: **+ Compare**
- Filters: **Worldwide** (dropdown), **2004 - present** (dropdown), **All categories** (dropdown), **Web Search** (dropdown)
- Section: **Interest over time** (with a help icon) and icons for download, expand, and share.
- Message: **Hmm, your search doesn't have enough data to show here. Please make sure that everything is spelled correctly, or try a more general term.**



# Where are we, honestly?

<https://pics.me.me/of-optimist-pessimist-realist-lia-physicist-surreaist-relativist-er-utopist-29109963.png>



# Point of view



# 7 Principles of DIDM

## Human Integration

- The human being, its fundamental rights and fundamental faults must be seen as an explicit and integral part.

## Availability

- The given functionality needs to be provided even when some of the actors or components are not available.

## Extensibility

- The solution must be able to be adaptable to new, currently unknown demands and to be connected to already available infrastructures and procedures.

## Scalability

- A DIDM needs to have a theoretical unlimited scale.

## Actionable

- DIDM Systems must enable and enforce actions based on authorizations and obligations.

## Mutable

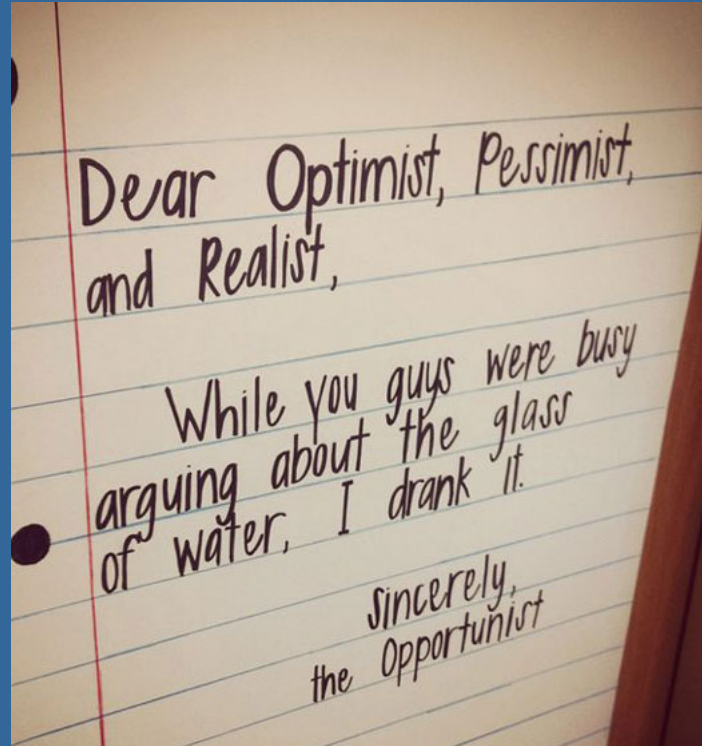
- The mutability and /or imutability of relations and entities must be respected.

## Semantical

- Any entity (which includes everything by definition) must be described in a semantical way to enable human/machine interaction.



# Thank you.



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