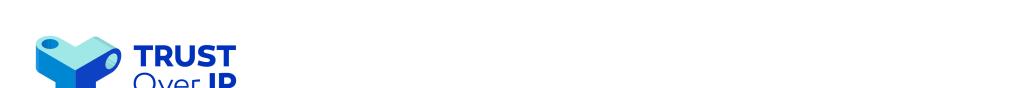


Data Governance

Beachhead of decentralized data management technologies



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- The legal framework of the "Theory of Spheres" provides
 - ⇒ a natural & solid link between Technology & Legal domains
 - → Data Governance Authority a component of DDE Data Sharing Engine
- Data Governance in the humanitarian sector is
 - **→** an urgent necessity
 - → a strong guide for new data governance paradigms





Building a bridge between Technology & Legal

On why we need to go back to first principles.

... a warm up exercise...

$$1 + 2 + 3 + \cdots = ?$$





Building a bridge between Technology & Legal

On why we need to go back to first principles.

... a warm up exercise...

$$1 + 2 + 3 + \cdots = \zeta(-1)$$





Building a bridge between Technology & Legal

On why we need to go back to first principles.

... a warm up exercise...

√ To reach meaningful results one needs to apply First principles in a consistent manner end-to-end

$$1 + 2 + 3 + \dots = -\frac{1}{12}$$

Building a bridge between Technology & Legal

On why we need to go back to first principles.

- ... a warm up exercise...
- ✓ To reach meaningful results one needs to apply First principles in a consistent manner end-to-end
- **→** Is there a "Legal" first principle?

Heinrich Hubman, Das Persönlichkeitsrecht, 1967

"Der Mensch ist nicht ein Exemplar seiner Gattung, er ist immer ein Exemplar seiner Selbst...."

Man is not a specimen of his species, he is a specimen of himself





Building a bridge between Technology & Legal

On why we need to go back to first principles.

... a warm up exercise...

- ✓ To reach meaningful results one needs to apply First principles in a consistent manner end-to-end
- ✓ Is there a "Legal" first principle ?
- No, but the legal theory of sphere has surprisingly strong ties with human centric decentralized data management.



Legal Doctrine

Individual unicity

Distinct Spheres (Intimate, private, public)

Lawfullness & Consent (Intimate, private, public)

Decentralized Data Principle

Data authenticity (self-certifying identifiers)

Context (decentralized semantic)

Data Governance Authority (decentralized governance)





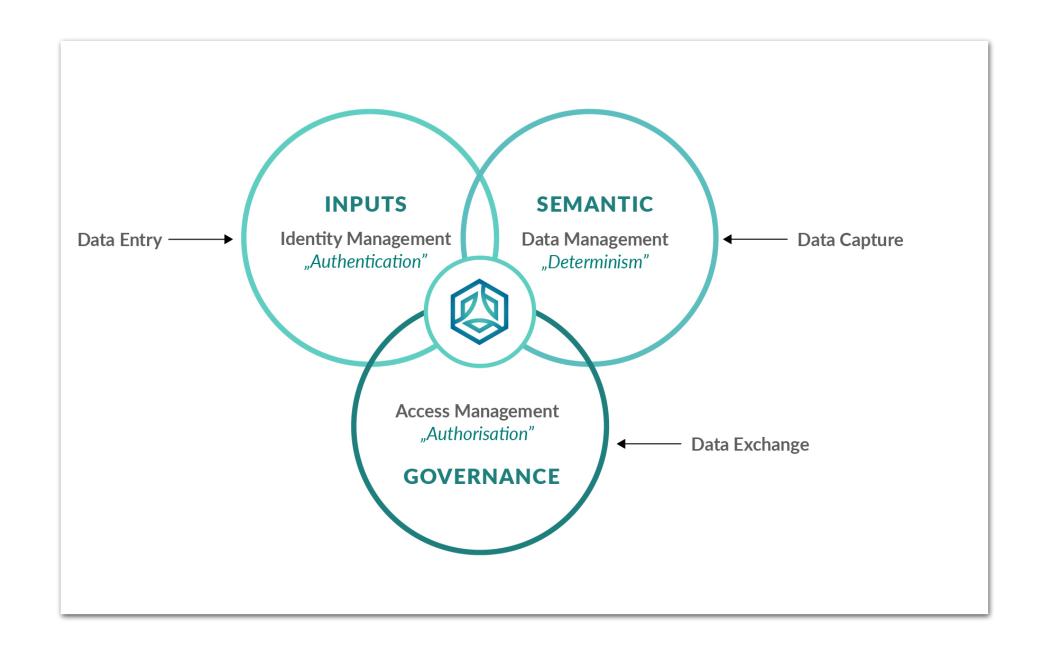


From "String Theory" to "Sphere Theory" to "Dynamic Data Economy"

Building a bridge between Technology & Legal

On why we need to go back to first principles.

- ... a warm up exercise...
- √ To reach meaningful results one needs to apply First principles in a consistent manner end-to-end
- √ Is there a "Legal" first principle ?
- ✓ No, but the legal theory of sphere has surprisingly strong ties with human centric decentralized data management
- → DDE can be seen as a functional instance of the legal "Sphere Theory"



Legal Doctrine

Individual unicity

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The inherent centralised characteristic of current data exchange models

Have forgotten the "individual" aspect

The privacy sphere is too often breached

With an armada of organisation to the rescue







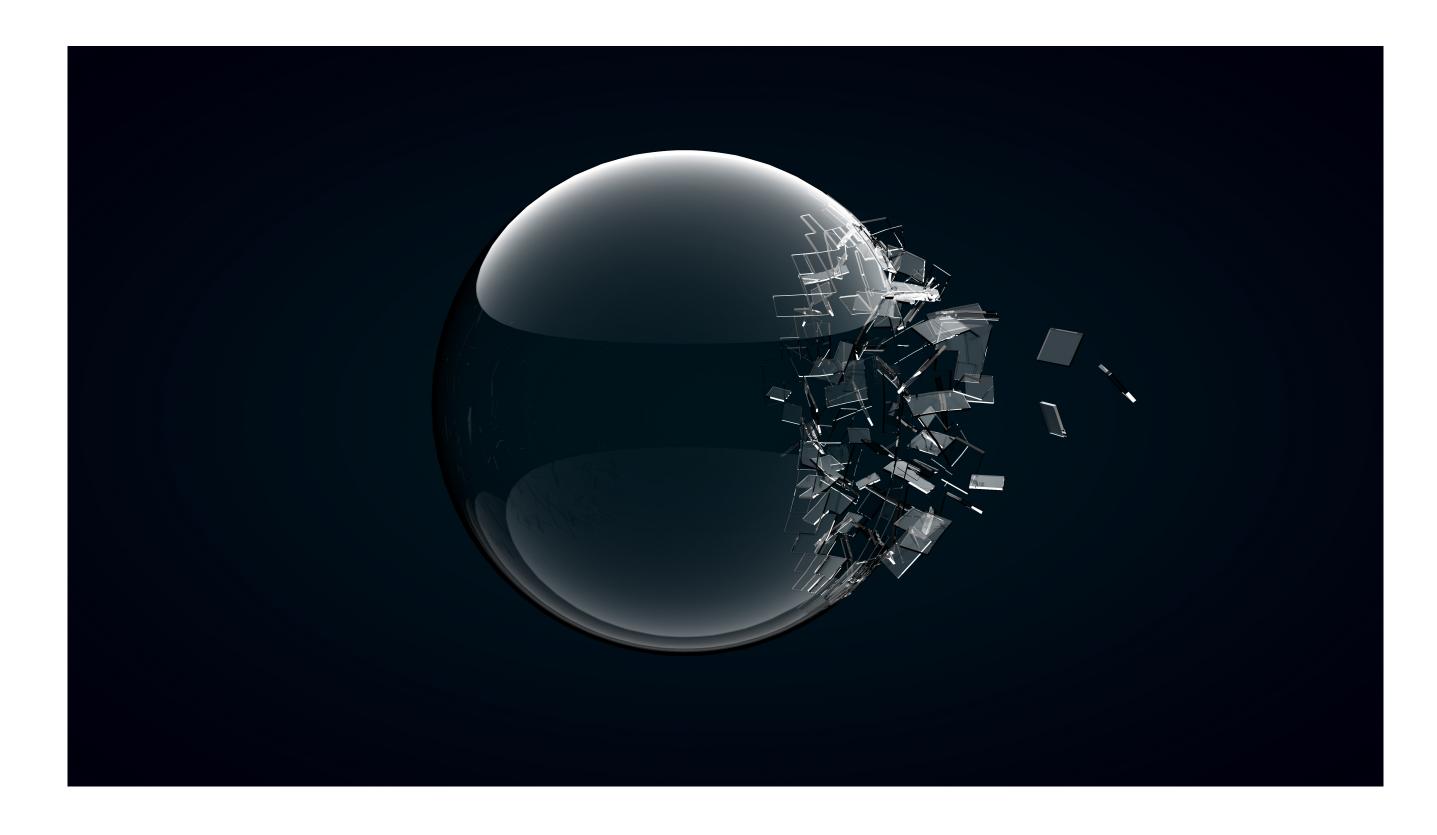














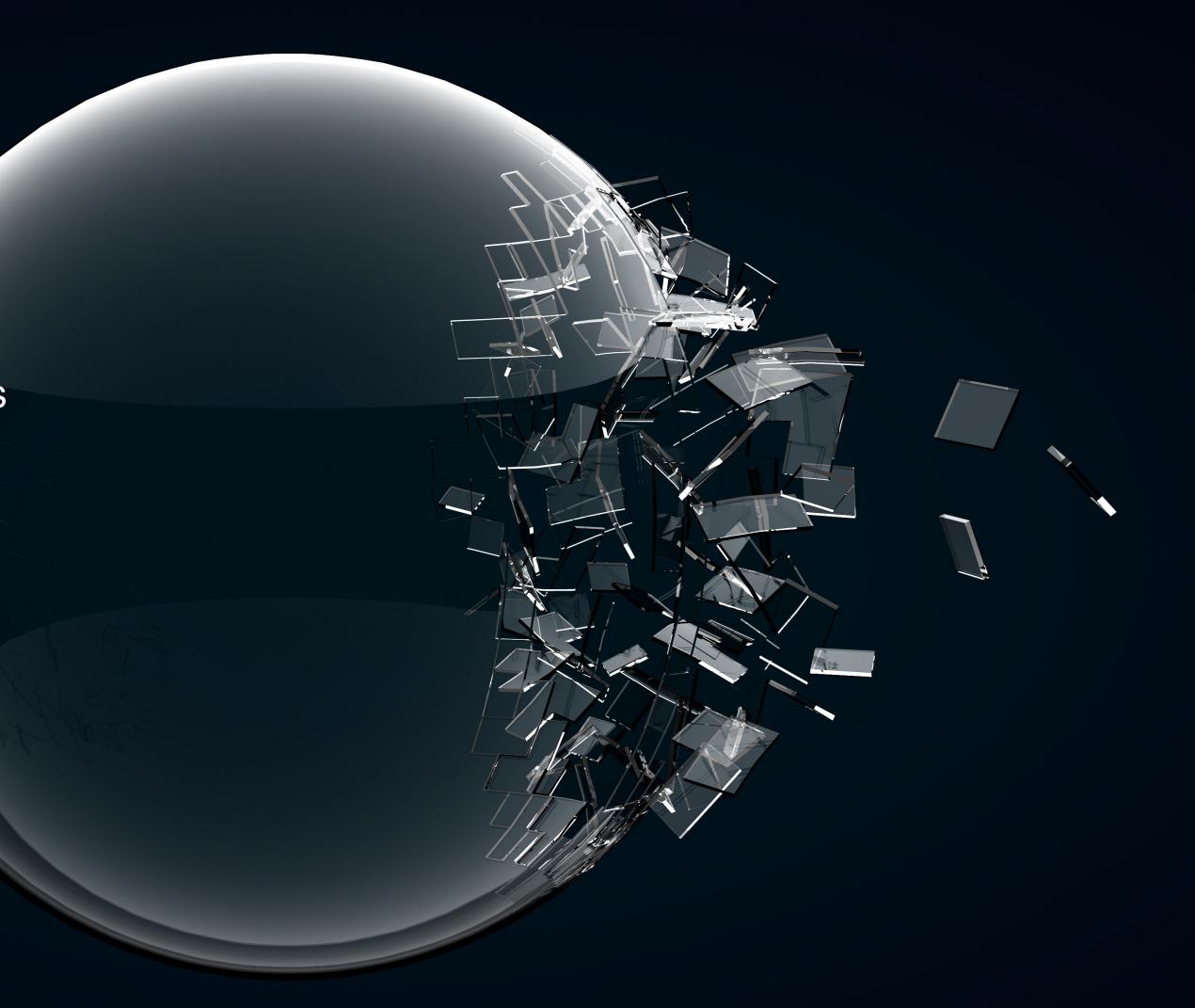
Data Governance in the Humanitarian sector

In harsh environments:

- Political / Economical instabilities
- Environmental instabilities

Individuals are not protected by traditional legal and society safety nets

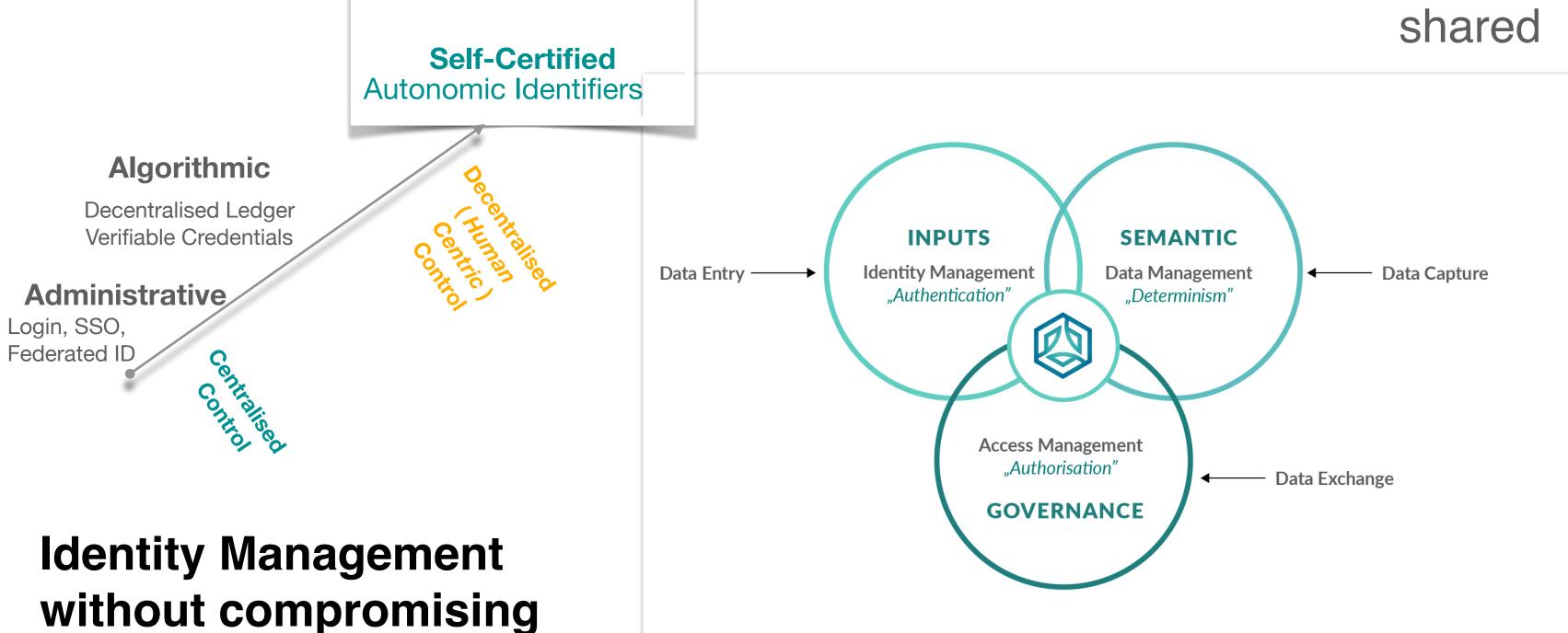
Data Governance must be build in the system





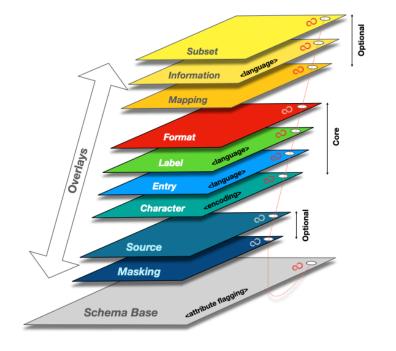
Authentication

cryptographic assurance to know who shares information



Data Harmonisation

Deterministic semantic to understand what information is shared

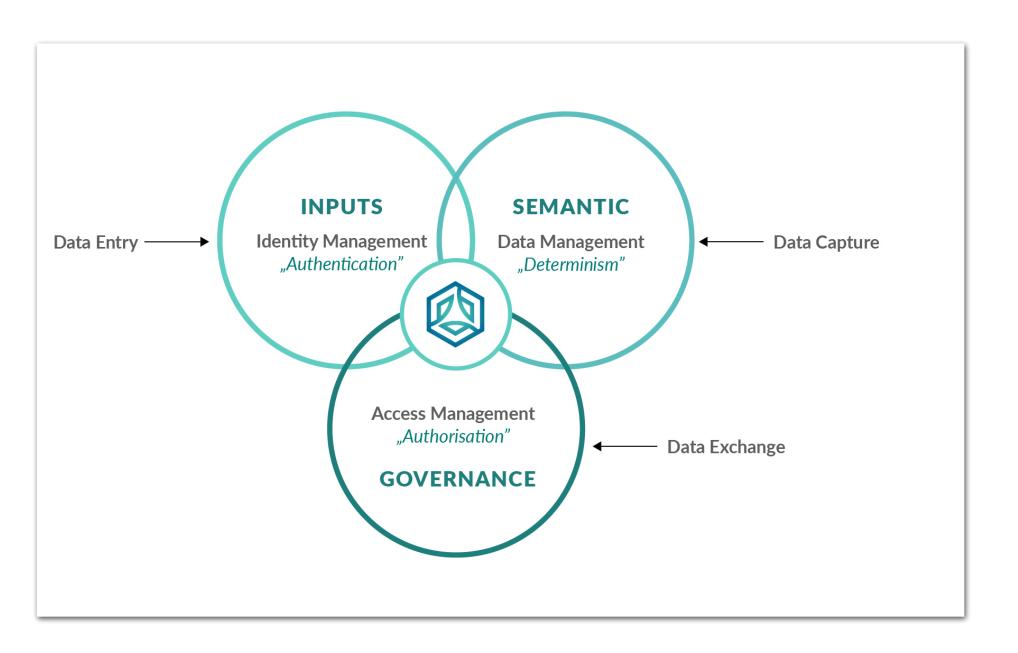


Context Management in adverse & critical conditions



individual safety





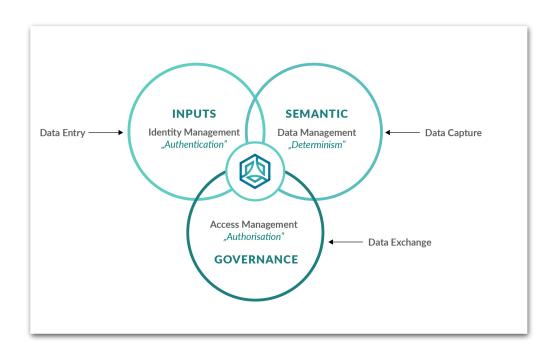




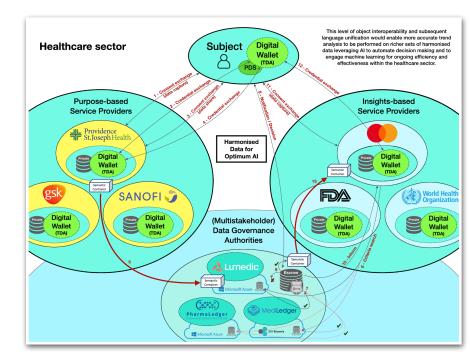
Data Governance Authority

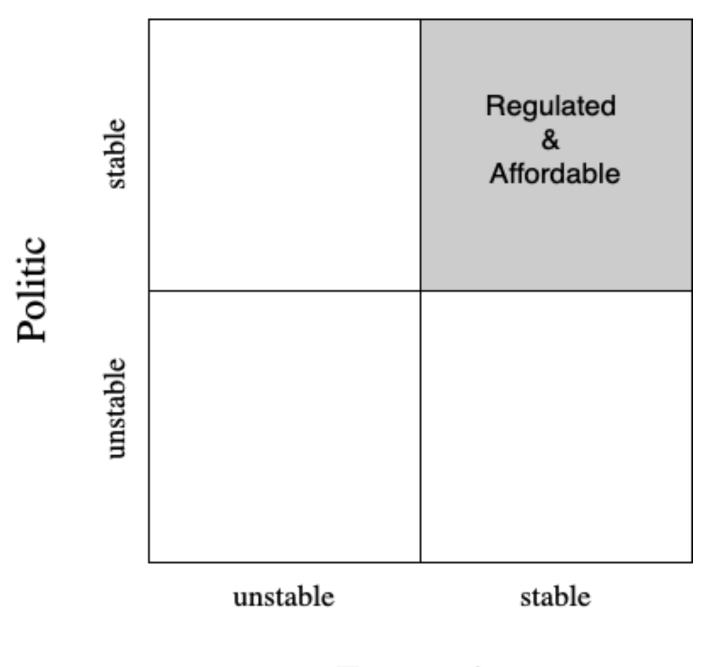
Under which governance(s) is data exchanged?

Call for an Humanitarian "Vertical" in ISWG



HCF "Social & Humanitarian Applications Program"





Economic