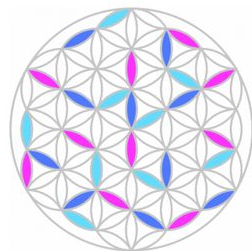


# discipl

as a global society architecture





Contact us  
[discipl@ictu.nl](mailto:discipl@ictu.nl)

DIStributed Collaborative Information PLaatform.

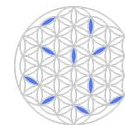
We work from the conviction that together we can build solutions that  
contribute to a better society for everyone.



**Inclusive society**



**Human centered technology**



**Open collaboration**



## Society of today and tomorrow

A changing society, technological innovations. With issues such as privacy, ethics and trust. Discipl works on solutions that contribute to an answer to these issues. From [a set of coherent principles](#). Solutions that contribute to a better society for today and tomorrow. [Read more...](#)

# Pilots, projects and products

Discipl works on pilots and practices in projects.



## Waardewisselaar

Focused on the automatic support of the implementation of selected legislation traceable to the law. Together with Manifestgroep (Grant scheme for teachers' grants).



## Waardepapieren

Focuses on the development of the basic Discipl building blocks with which the provision of, for example, signed certificates can be digitized and automated.




# Discipl



- not a religion
- not a single project
- not a single product
- not a political view
- not bitcoin nor blockchain
- not AI
- nor any specific hype
- nor any specific technology, ... well ...

# Discipl is a programme for facilitation on a (global) society level

- 
- A society architecture
  - Attending to all the needs of all as core (organising) principle
  - A set of concrete building blocks
  - An innovation programme
  - Multidisciplinary
  - Holistic

# Society Architecture

Following ISO 42010-2011 a “society architecture” would describe:

- an architecture for society facilitation as system of interest
- how this system continuously identifies all people’s and autonomous systems needs (stakeholder concerns) within a society
- how this system continuously helps people and autonomous systems attend to those needs

# In a society architecture:

- Stakeholders are a variable
- Needs are a variable
- Solutions to conflicting needs in the form of agreements (constitution, laws, policies, contracts, etc.) are a variable

With discipl we focus on non controversial needs (which is a relatively limited list of types of needs) of anyone and a framework that focuses on getting them all attended to effectively, continuously, all the time.

# Supports a changing world

## Guiding philosophies

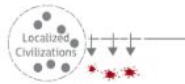
| Pre-modernism  | Modernism  | Post-modernism  | Relationalism  |
|--|--|---|--|
| (Western) belief that deities and spirits determine the future and hereafter | Deterministic utopian visions driven by technological progress | Relativism and the acceptance of multiple truths - constant try-out and experimentation | Being thoughtful, and increase awareness, knowledge and intuition about the relationships of all phenomena in complex open dynamic systems |

## Earth geological epochs

Holocene → Anthropocene

## Socio-economic paradigms

Agricultural → Industrial → Experience → Knowledge



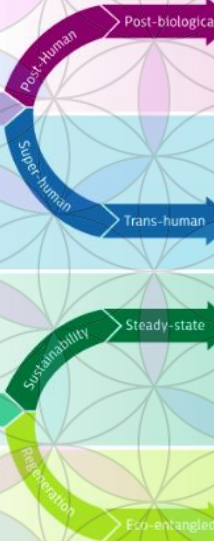
Recurring Localized Civilization Extinctions

Probable Global Existential Consequences

Climate Change  
Environmental Decline  
Declining Global Governance

Disruption

## Emerging Futures Directions



## Underlying myths / values

**Sentio-centrism**  
Valuing intelligence above all

**Anthropo-centrism**  
Valuing human progress above all

**Resource-centrism**  
Valuing sustainable prosperity

**Eco-centrism**  
Valuing biodiverse ecosystems

## Premise

Abandon biology as carrier of intelligence (beyond nature)

Shape the earth for human civilization (on top of nature)

Adapt human civilization for sustainable production & consumption (next to nature)

Adapt human life to nurture a healthy planet (part of nature)

## Philosophy

Singularity

Utilitarianism

Egalitarianism

Holism

## Mindset

Post-identity  
Hive-mind

Individualistic  
Opportunism

Cooperative  
Pragmatism

Ecologically embodied and thoughtful

## Approach

Boundless knowledge immersion & assimilation

Control human evolution and optimise human habitat

Manage & sustain a steady flow of resources for human exploitation

Strive for geo- & bio-diversity & quality of the natural & human environment

## Metaphor

**Etherea**

**Immortalia**

**Habitania**

**Gaia**

## Chronological Timeline

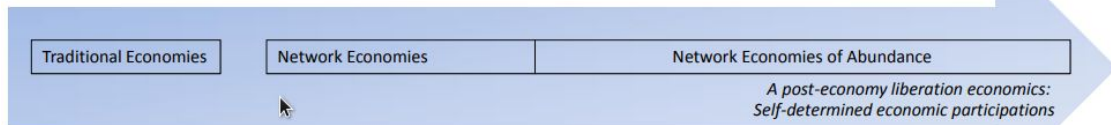




# ... with a changing economy ...

## Network Economies of Abundance

*A transformational philosophy of economics*



### 1) Paradigms

*Organizing parameters:*

#### Traditional Economies

Scarcity, control

*Measurement:*

GDP

*Definition of Economics:*

Production and consumption

#### Network Economies of Abundance

Abundance, access, availability, *yes-and* collaboration

Fulfillment (actualization, connection, purpose, meaning)

Discovery and exchange, interaction, acknowledgement, creation

### 2) Evolving Positions in Network Economies of Abundance

|                        | Network economy  | Resource grid economy  | Crypto-economy  | Needs-based economy  |
|------------------------|--|--|---|--|
| <i>Features:</i>       | <p>Information flows<br/>Access not ownership<br/>Interactable content</p> <p>Peer-produced commons goods<br/>Gift economy, Sharing economy<br/>(Uber, Airbnb), crowdsourcing,<br/>eLance, time banks, freemium, <a href="#">QS</a></p> <p>Multi-currency society:<br/>reputation, authority, attention,<br/>intention, time, ideas, creativity,<br/>health, presence, empathy</p> | <p>Ubiquitous on-demand<br/>resource grids (URGs):<br/>communications, logistics, energy, water,<br/>roads, convenience stores, delivery,<br/>digital goods (Etsy), transportation (Uber),<br/><a href="#">fresh produce</a>, micro-coaching (<a href="#">Piano+</a>),<br/>social interaction (Meetup), dating/sex<br/>(Tinder), emotional support (empathy<br/>buddies), oxytocin flows (healing touch)</p> <p>Economic model plurality:<br/>hierarchical, decentralized, hybrid</p> <p>Automation economy<br/>Big data era (Hadoop, R)</p> | <p>Post-scarcity<br/>Basic Income<br/>Automation<br/>Emergent <a href="#">self-determined economies</a><br/>Community token<br/>Personal cryptocurrencies<br/><a href="#">Demurrage</a> programmable<br/>redistributable currencies<br/>Smart property, smart<br/>assets, smart contracts<br/>Dapps, DAOs, DACs, datt.co<br/>Smartnetwork consensus</p> | <p>All persons matter<br/>All needs matter<br/>Needs freely met<br/>through willingness</p> <p>Universal <a href="#">needs</a>:<br/>connection, contribution,<br/>understanding, mattering</p> <p>Human-technology entity<br/>collaboration in<br/>blockchain-based<br/>smartnetwork cloudminds</p> <p>Capacity</p> <ul style="list-style-type: none"> <li>• Miki Kashtan</li> <li>• John Kinyon</li> <li>• Gandhi/Buddha</li> </ul> |
| <i>Trust based on:</i> | Identity   | Reputation   |   |  |
| <i>Proponents:</i>     | <ul style="list-style-type: none"> <li>• Yochai Benkler</li> <li>• Don Tapscott</li> <li>• Elinor Ostrom</li> </ul>  | <ul style="list-style-type: none"> <li>• Kevin Kelly</li> <li>• Jeremy Rifkin</li> <li>• Paul Mason</li> </ul>   | <ul style="list-style-type: none"> <li>• Friedrich Hayek</li> <li>• Jacques Derrida</li> <li>• Rika Preiser</li> </ul>  |  |



**... but what needs do they attend to ?**

NIEUWS DIGITALE SAMENLEVING 10 MEI 2017

# Digitale tijdperk vereist nieuwe mensenrechten

▢ ROBOTS ▢ MENSENRECHTEN

[Home](#) • [Digitale samenleving](#) • [Digitale tijdperk vereist nieuwe mensenrechten](#)

In een vandaag gepubliceerd rapport pleit het Rathenau Instituut voor een nieuw Europees verdrag dat de mensenrechten aanpast aan de digitale samenleving.

Robots, kunstmatige intelligentie en het internet-of-things leggen steeds meer druk op onze mensenrechten, zoals het recht op privacy, op vrijheid van meningsuiting en op bescherming tegen discriminatie. Het behoud van de menselijke waardigheid vereist bovendien twee nieuwe mensenrechten: het recht niet gemeten, geanalyseerd of



## Adviesrapport De bestuurlijke verantwoordelijkheid voor systemen

Systeemverantwoordelijkheid; een begrip waarover recent veel gepubliceerd is. In gesprekken tussen Rijksoverheid en andere overheden wordt het begrip vaak gebruikt om aan te geven dat de uitvoering weliswaar buiten de Rijksoverheid is belegd, maar dat de eindverantwoordelijkheid nog steeds onveranderd bij een minister berust. De Raad voor het openbaar bestuur pleit voor een herbezinning op de vraag wat systeemverantwoordelijkheid in deze tijd nog behelst.



**Download 'De bestuurlijke verantwoordelijkheid voor systemen'**

PDF document | 40 pagina's | 193 kB

Publicatie | 07-11-2016



### 3. Legal status / protection of data

---

- **Data as such** are not regarded as property but can be protected via trade secrets, copyright, and other means
- For structured **databases**, a sui generis database right was created by the **EU Database Protection Directive (29/9/EC)** which protects the  
"substantial investment in either the obtaining, verification or presentation of the contents" [Art. 7(1)]  
– but data as such are not content!
- Similarly, pro-arguments for ownership and trade in data often rely on "**return on investment**" justifications
- But: who invests, and who pays – with what? Many different stakeholders and "currencies"!

## 4. Property in data?

- challenges traditional concepts of civil law
- data are **intangible** goods
- match the public good character of information and knowledge (Arrow 1962; Nelson 1959), at least with respect to non-rivalry in use
- a **non-rivalrous good** to be used **infinitely** by **multiple actors** even **simultaneously without** being “used up” → “overuse” can never occur!
- questions of collection, access and exclusion of data are strongly associated with distribution of **power**
- **4 Models to be scrutinized**

|               | NON-EXCLUDABLE  | EXCLUDABLE   |               |
|---------------|---|--|---------------|
| RIVALROUS     | <b>COMMON-POOL<br/>(or COMMON-PROPERTY)<br/>RESOURCES</b> <ul style="list-style-type: none"><li>- land / land surface</li><li>- the atmosphere</li><li>- water</li><li>- irrigation systems</li><li>- fishing grounds, fish stocks</li><li>- wild game</li><li>- pastures</li><li>- forests, timber</li><li>- coal, ore, iron</li></ul> | <b>PRIVATE GOODS</b> <ul style="list-style-type: none"><li>- food</li><li>- clothing</li><li>- newspapers</li><li>- cars</li><li>- gasoline</li><li>- personal electronics</li></ul>       | RIVALROUS     |
| NON-RIVALROUS | <b>(PURE) PUBLIC GOODS</b> <ul style="list-style-type: none"><li>- unencoded radio</li><li>- free-to-air television programming</li><li>- street lights</li><li>- lighthouses</li><li>- national defense</li></ul>  | <b>CLUB GOODS</b> <ul style="list-style-type: none"><li>- cinemas</li><li>- private parks</li><li>- cable and satellite TV</li><li>- pay websites</li><li>- most social services</li></ul> | NON-RIVALROUS |
|               | NON-EXCLUDABLE  | EXCLUDABLE   |               |

# Public administration

Ingrid Schneider (political science professor at U Hamburg) described four main proposals around the economics of a data society:

- Individual data ownership + micropayments (Jaron Lanier, 2015).
- Data as public goods, managed by the state (Evgeni Morozov , 2017).
- Data as commons (Elinor Ostrom, 1990), managed by communities.
- Fiduciary trust (David Winickoff (2003 & 2005), where people commit their data to fiduciary trust, who governs the system.

Schneider discussed the relative merits of these four models, and made a case that Europe is currently “squeezed” between a Lanierian-dystopian America and a Morozovian China, but maybe Europe could (and should) develop a third way.

# Synopsis

|  | Private good             | Public good         | Commons                            | Charitable trust                |
|--|--------------------------|---------------------|------------------------------------|---------------------------------|
|  | Lanier                   | Morozov             | Ostrom                             | Winickoff                       |
| Main actor                             | user                     | state               | community                          | fiduciary                       |
| Funding                                | platforms                | taxes               | communitarian                      | fees                            |
| Administration                         | user                     | state               | community                          | fiduciary                       |
| Legitimate goals of use                | economic and social good | benefit to society  | benefit of community, if consented | Ex-ante declared purposes, i.c. |
| Who decides - legitimacy and purpose   | user                     | IRB                 | Community of users                 | IRB                             |
| Supervision & Sanctions                | state                    | state               | community of users                 | fiduciary                       |
| Participation/ Access                  | All those paying         | Companies academics | community of users                 | Everyone who applies for        |
| Precondition for legitimacy of purpose | Legality                 |                     |                                    |                                 |





Discipl main focus is attending to all the needs of all continuously

- A lot of conflicts are wicked : a siloed approach / limited scope will not work
- **Human centered** : everything starts with needs of people, not with law and regulations
- ... because laws and regulations are established solutions for typical conflicts in needs
- ... because laws and regulations are a variable and produced in conflict resolution processes

In essence it aims at facilitating society through continuous agile architecture by design

But this means:

- knowing all needs
- facilitation of continuous true dialogue between people about their needs
- automate attending to needs as much as possible
- real conflict resolution if anyone is not happy
- applies from local to global level

# DISCIPL

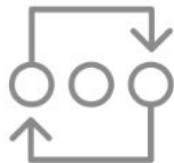
architectural pattern



(1) People with needs ..



... (2) create or deliver abundance services attending to needs ...



... (3) that match and attend to needs as they see fit guided by known guidelines to attend to all relating needs as best as possible ...



For more information, start here:  
<http://discipl.eu/principles/>

... (6) and publish these solutions as principle based law, policy and or contracts to be interpreted as guidelines for attending to all needs

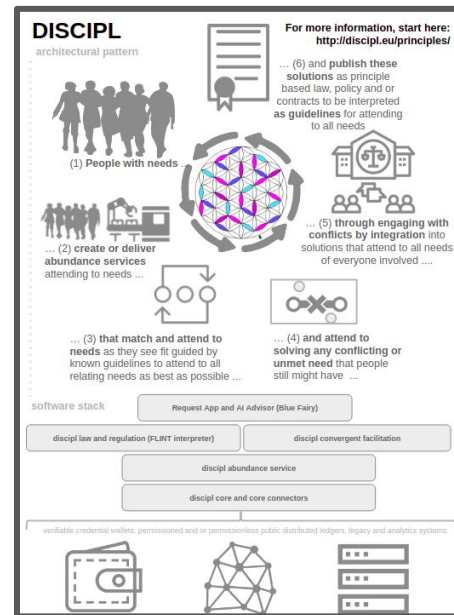


... (5) through engaging with conflicts by integration into solutions that attend to all needs of everyone involved ...



... (4) and attend to solving any conflicting or unmet need that people still might have ...

## NORA 5 layer model:



## software stack

Request App and AI Advisor (Blue Fairy)

discipl law and regulation (FLINT interpreter)

discipl convergent facilitation

discipl abundance service

discipl core and core connectors

verifiable credential wallets, permissioned and or permissionless public distributed ledgers, legacy and analytics systems





# CALL FOR REVIEW: VERIFIABLE CREDENTIALS DATA MODEL 1.0 IS A W3C PROPOSED RECOMMENDATION

5 September 2019

The [Verifiable Claims Working Group](#) has published a Proposed Recommendation of [Verifiable Credentials Data Model 1.0](#). Credentials are a part of our daily lives; driver's licenses are used to assert that we are capable of operating a motor vehicle, university degrees can be used to assert our level of education, and government-issued passports enable us to travel between countries. This specification provides a mechanism to express these sorts of [credentials](#) on the Web in a way that is cryptographically secure, privacy respecting, and machine-verifiable.

Comments are welcome through **3 October 2019**.

## Post navigation

← [Updated Candidate Recommendation for CSS Writing Modes Level 3](#) | [Blog home](#) | [First Public Working Drafts: Pronunciation](#) →

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|                                    |
|------------------------------------|
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| <a href="#">Deliverables</a>       |
| <a href="#">Coordination</a>       |
| <a href="#">Participation</a>      |
| <a href="#">Communication</a>      |
| <a href="#">Decision Policy</a>    |
| <a href="#">Patent Policy</a>      |
| <a href="#">Licensing</a>          |
| <a href="#">About this Charter</a> |

# Decentralized Identifier Working Group Charter

URL-based identifiers (URIs) in use on the Web today (2019) require that the identifier be leased from an authority such as a Domain Name Registrar. A Decentralized Identifier (DID) is an identifier that does not need to be leased; its creation and use is possible without a central authority to manage it. The advent of Blockchains and Decentralized Ledger Technologies have led to other innovations that support this new type of decentralized URI. DIDs have various benefits over more traditional URIs:

- DIDs are controlled by individuals, organizations, and machines.
- DIDs enable cryptographic authentication of a DID controller (e.g., DID-based website login using a WebAuthn/FIDO token).
- DIDs provide discovery information for bootstrapping into secure and privacy preserving communication protocols (e.g., encrypted messaging endpoints).
- DIDs provide a path to service-agnostic data portability (including, but not limited to, switching between Verifiable Credential digital wallet providers).

W3C Members that would like to learn more about the motivations that led to this work may find the [Primer for Decentralized Identifiers](#) useful. There are also a set of [Decentralized Identifier Use Cases](#) that have been curated by the various organizations implementing and deploying this technology in commercial environments, resulting in a set of [requirements](#) to guide this work. Finally, there are a set of [Self-Sovereign Identity Principles](#) that have influenced the direction of this work.

The **mission** of the [Decentralized Identifier Working Group](#) is to standardize the DID URI scheme, the data model and syntax of DID Documents, which contain information related to DIDs that enable the aforementioned initial use cases, and the requirements for DID Method specifications.

[Join the Decentralized Identifier Working Group.](#)

|                         |  |
|-------------------------|--|
| <b>Start date</b>       | September 2019   |
| <b>End date</b>         | September 2021   |
| <b>Chairs</b>           | Daniel Burnett (Consensys)<br>Brent Zundel (Evernym)   |
| <b>Team Contacts</b>    | <a href="#">Ivan Herman</a> (0.2 FTE)  |
| <b>Meeting Schedule</b> | <b>Teleconferences:</b> 1-hour calls will be held weekly<br><b>Face-to-face:</b> we will meet during the W3C's annual Technical Plenary week; additional face-to-face meetings may be scheduled by consent of the participants, usually no more than 3 per year. |

# Discipl Core, a single interface to :

- Ephemeral
- NLX
- IOTA
- Solid
- IRMA
- Trustchain
- Sovrin
- uport
- (L)BTC
- Smilo
- ....

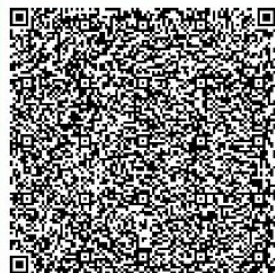




**Gewaarmerkt digitaal afschrift van gegevens uit de basisregistratie personen (BRP)**

Onderstaand persoon is bij de gemeente Haarlem ingeschreven

voornamen: Frans  
geslachtsnaam: Hals  
straatnaam: Groot Heiligland  
huisnummer: 4  
postcode: 2011 ES  
woonplaats: Haarlem



Dit is een automatisch gegenereerd document en daarom niet ondertekent.

De gegevens zijn verkregen via NLX en geborgd in de QR-code

U kunt de echtheid van dit document controleren via een bijbehorende app of online

Private information held and distributed in  
(Verifiable Credential) Wallets like:

- Paper Wallet
- IRMA
- Apple Wallet
- Sovrin
- etc.



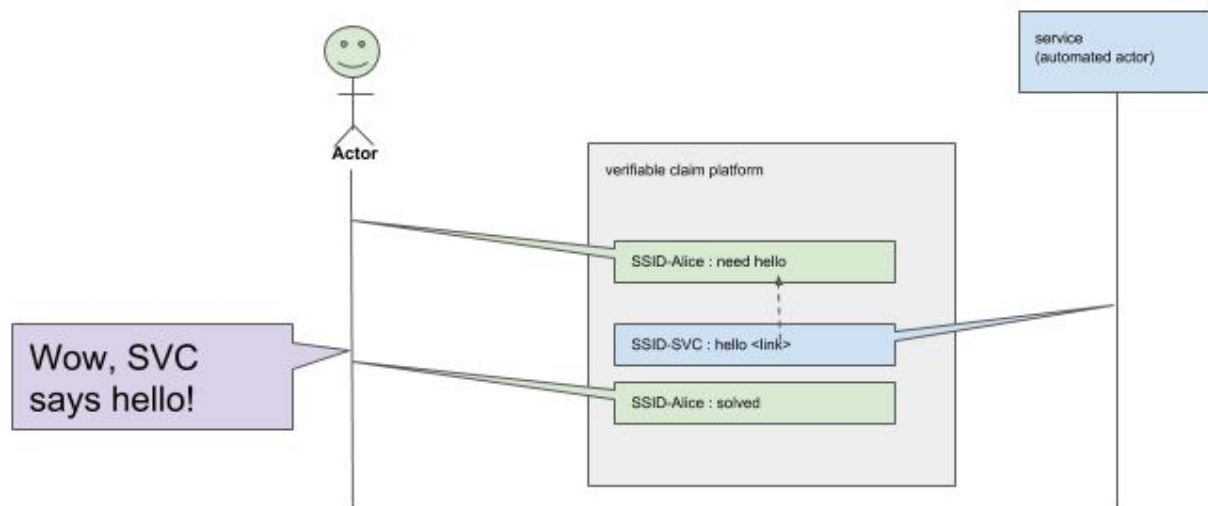
Read and validated by discipl validation app.

Using information from services through  
NLX.io, signing proofs with your NLX.io key



# Verifiable Claims Sequence Diagram

- Like a UML sequence diagram but with added conversation in spoken language and / or verifiable linked data claim channels as information layer

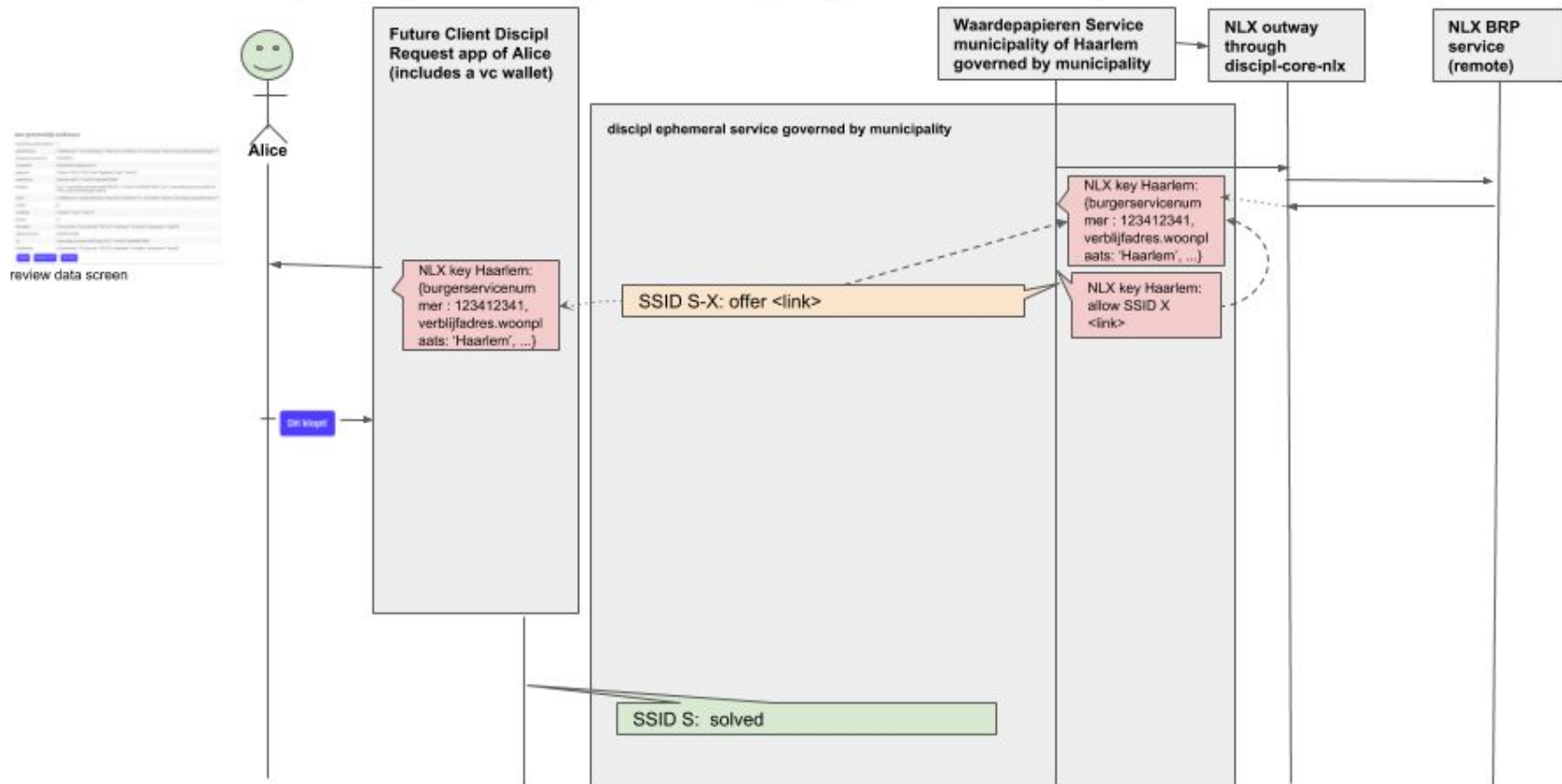


A channel is the list of verifiable linked data claims signed by the same SSID being the subject of those linked data triples (same color in diagrams), stored on a given platform (text boxes within platform area).

Verifiable claims can link to SSID's (through it's DID) or other claims making them linked data. (denoted by a dashed arrow)



# Alice - Municipality through discipl (part 2 of 2) - SOLL



# FLINT-LD

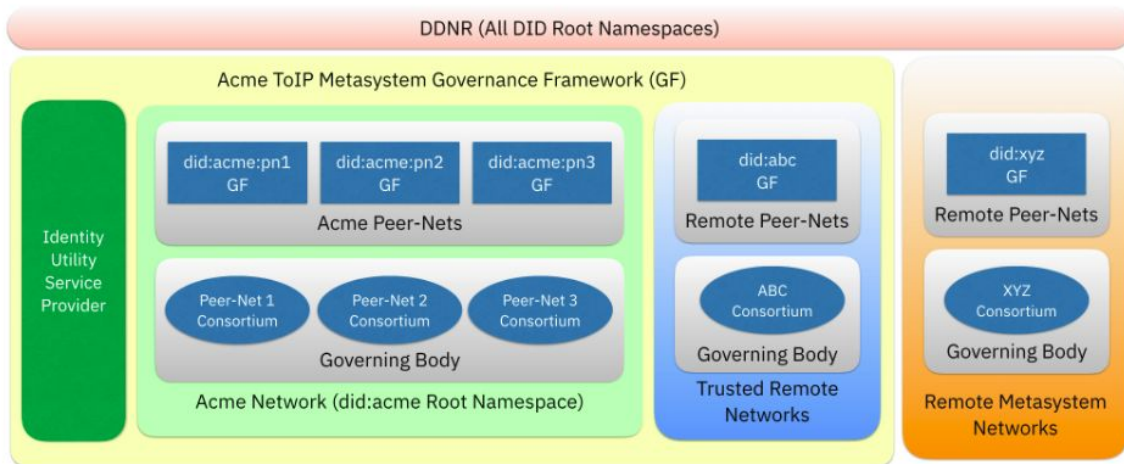
@prefix bag <did:discipl:jci1.3:c:BWBR0023466&z=2018-07-28&g=2018-07-28...>

did:discipl:ephemeral:234973298... “bag:woonplaats” “Den Haag”

## Envisioning a Network of Decentralized Identity Ecosystems

As ToIP Architecture is adopted, the flexibility of Layer One and Layer Four concepts will allow for ecosystems of interoperable and trustworthy DID Ledgers to co-exists at scale. These DID Ledgers, or *Peer-Nets*, represent distinct systems of domain specific ledgers operated by decentralized peer nodes and are associated with a DID root or sub namespaces (i.e.: did:xxx, did.xxx.yyy). Each Peer-Net is managed by a specific organization or consortium that establishes the governance framework. While these Peer-Nets may be operated by different governing bodies and leverage different governance frameworks, they may adhere to a common ToIP Metasystem Governance Framework, the set of business, legal and technical governance documents that describe how members of a distinct ToIP Metasystem will operate. New opportunities may also reveal themselves whereby governing bodies may outsource the operations and maintenance of a Peer-Net to *Identity Utility Administrator*, service providers that specialize in the implementation of governance frameworks at Layer One.

In ToIP Architecture the topic of *trust* is handle at Layer One with respect to cryptographic keys and at Layer Three with respect to data. As independent yet interoperable Peer-Nets emerge, the topic of trust is also addressed at Layer Four whereby governance frameworks at the metasystem level can declare which Peer-Nets are trusted.



## A Hyperledger Aries RFC ...

<https://github.com/hyperledger/aries-rfcs/blob/master/concepts/0289-toip-stack/README.md>

# FLINT

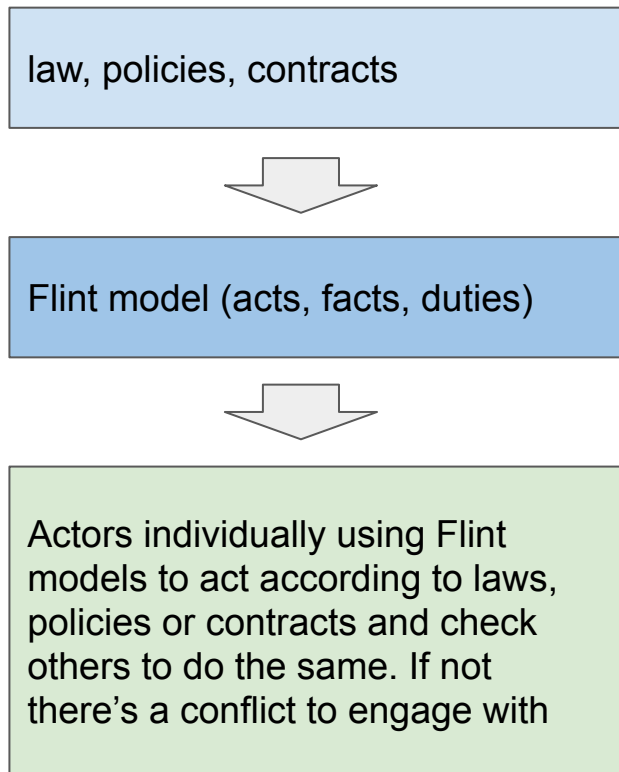
Every law, policy, contract can be seen as a set of:

- **acts** (every atomic action an actor can do)
- **facts** (actor identification, a criteria , ...)
- **duties** (acts actors are held to do in the future)

All these are simple easy to follow interpretations of referenceable citations of little fragments of the original text of the law, policy or contract.

Interpretation is only a matter of direct references between acts, facts and duties and limited usage of boolean and sometimes simple arithmetic logic.

This together is what a FLINT model is made out of. It seems to be possible to automatically generate them using narrow AI techniques.



# bronnen van normen



Juridische bronnen (wet- en regelgeving)  
en beleidsregels



bronnen voor andere normen, zoals  
ethische, sociale, culturele, religieuze



## interpretatie van bronnen (FLINT)



*interpretatie*



**generatieve normen** (handelingen)  
(actor, handeling, object, voorwaarden, resultaat,  
belanghebbende)

handelingen zijn geldig of ongeldig



**situationele normen** (rechten en plichten)  
(plichthouder, aanspraakhouder, creërende,  
terminerende en corrigerende handeling)

**feiten** (propositie of predicaat)

## beschrijving van zaken

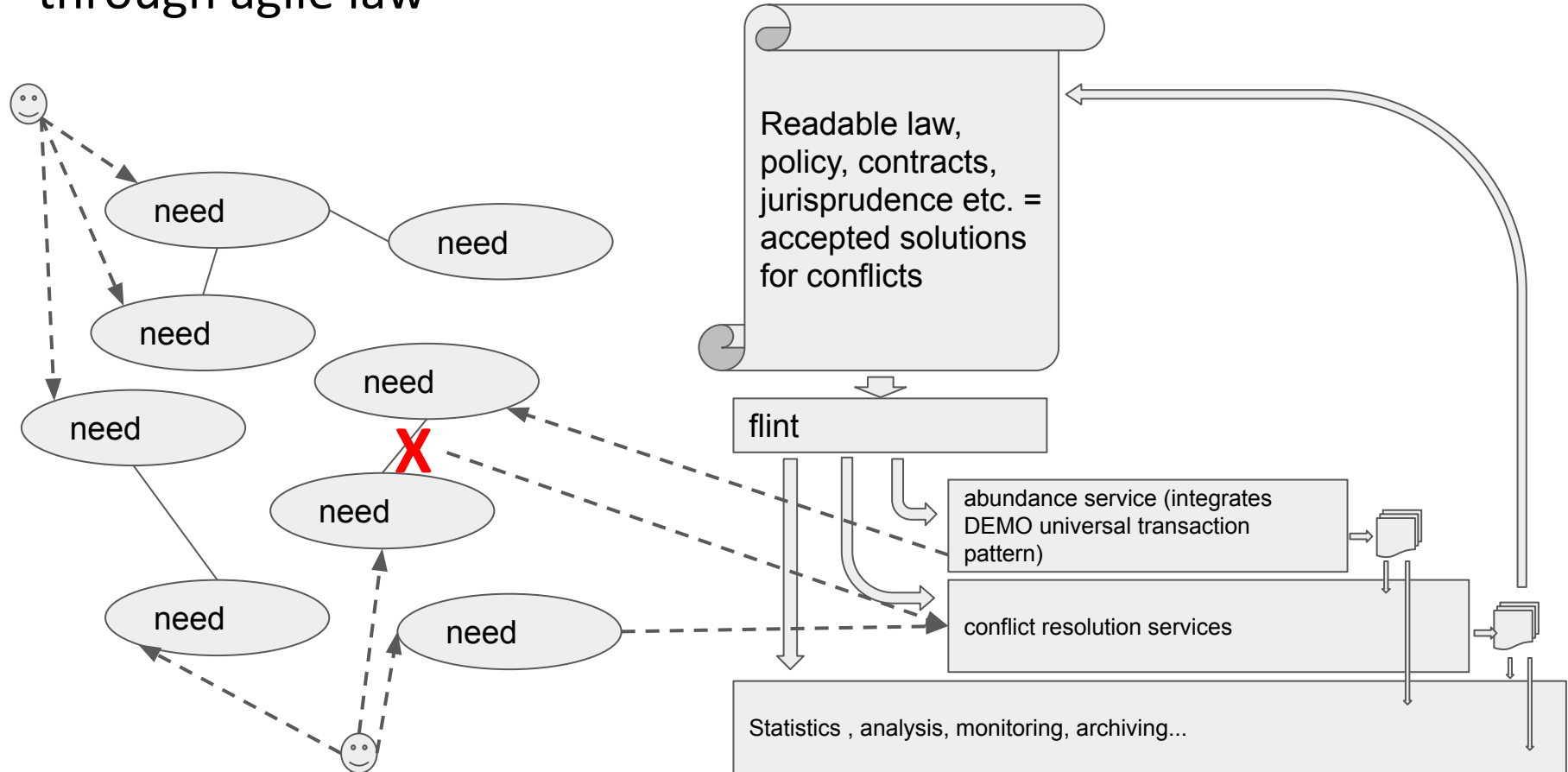


*kwalificatie*

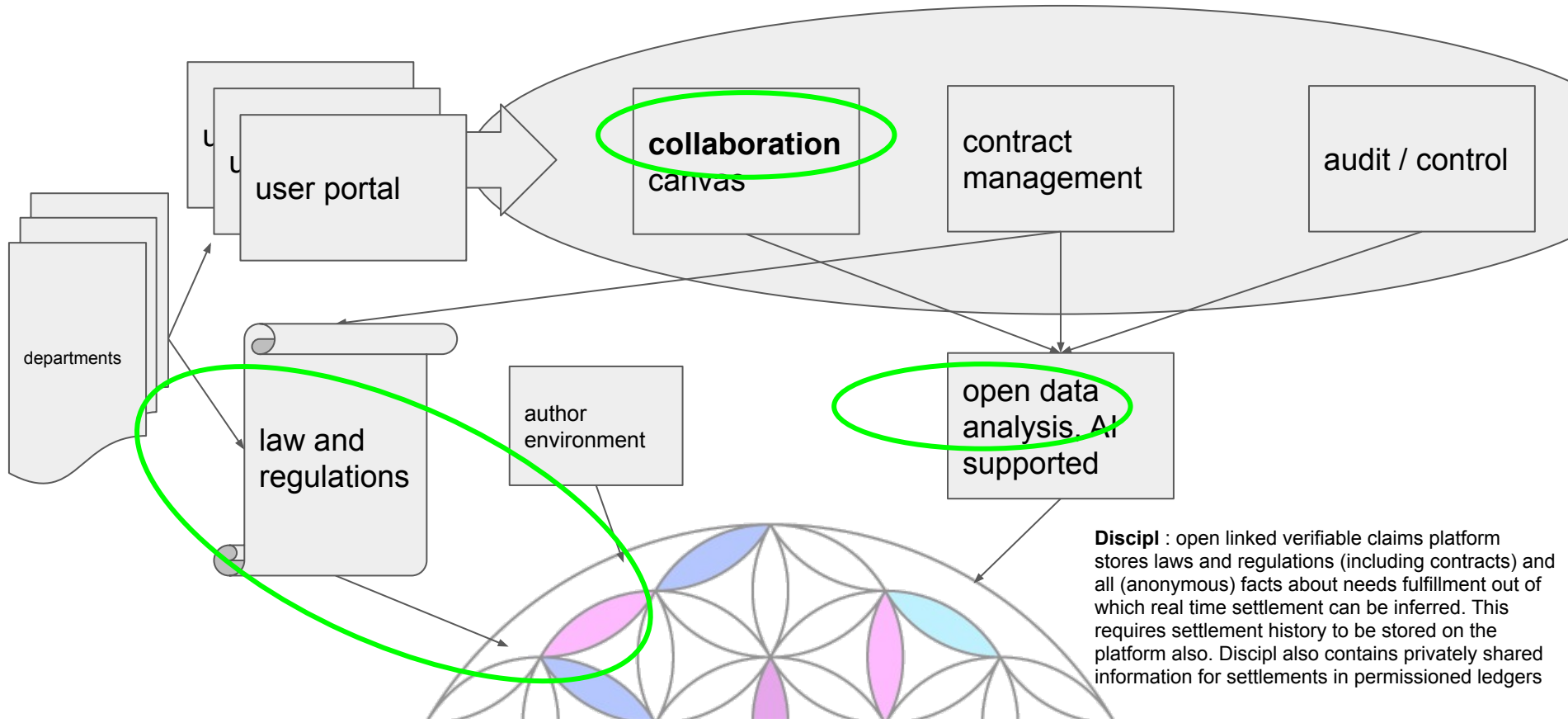


1. verklaringen (schriftelijk of mondeling)
2. andere bewijsmiddelen

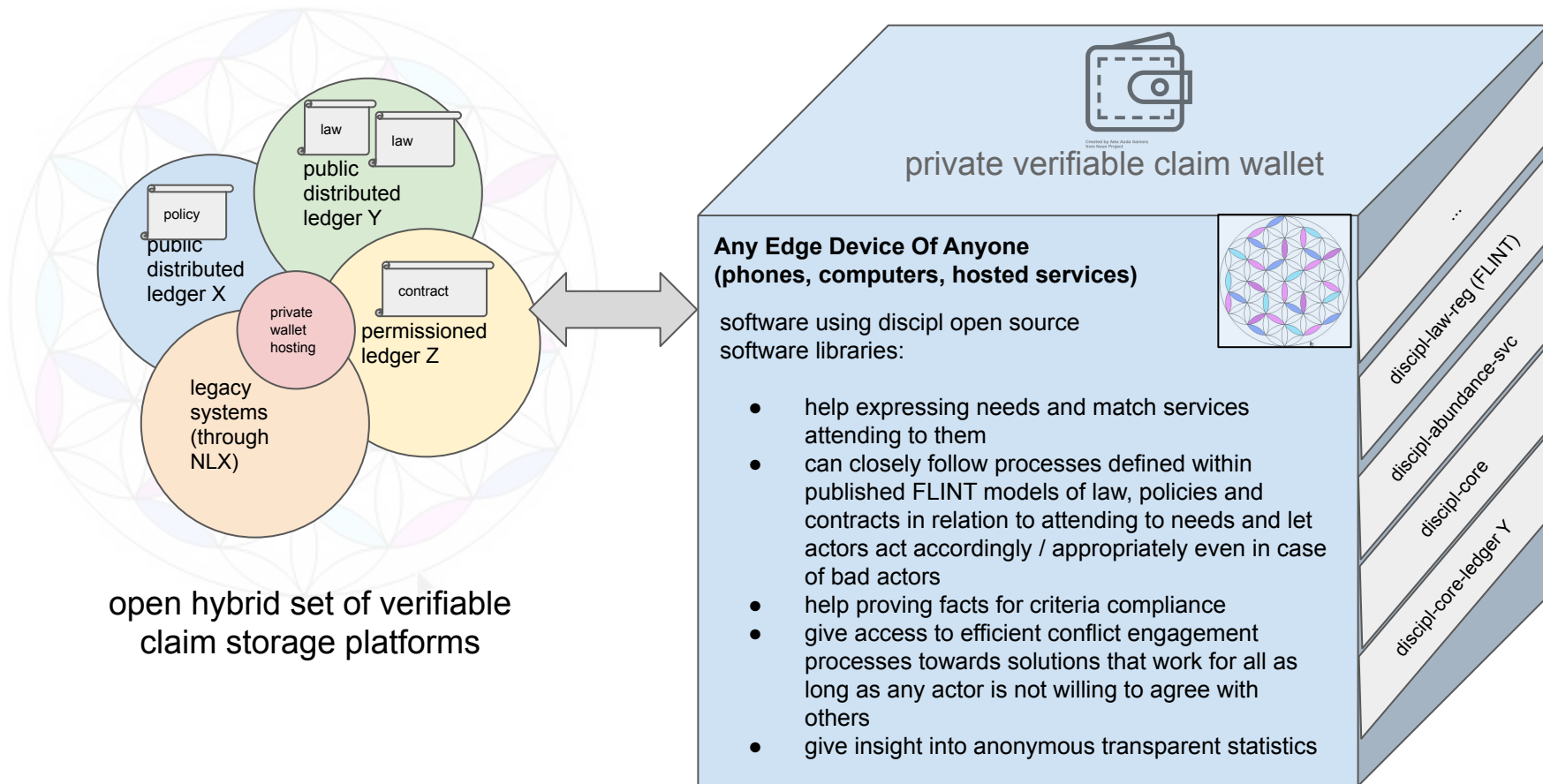
# Needs as organising principle. All aspects by design guided through agile law



# GFI with discipl T+10

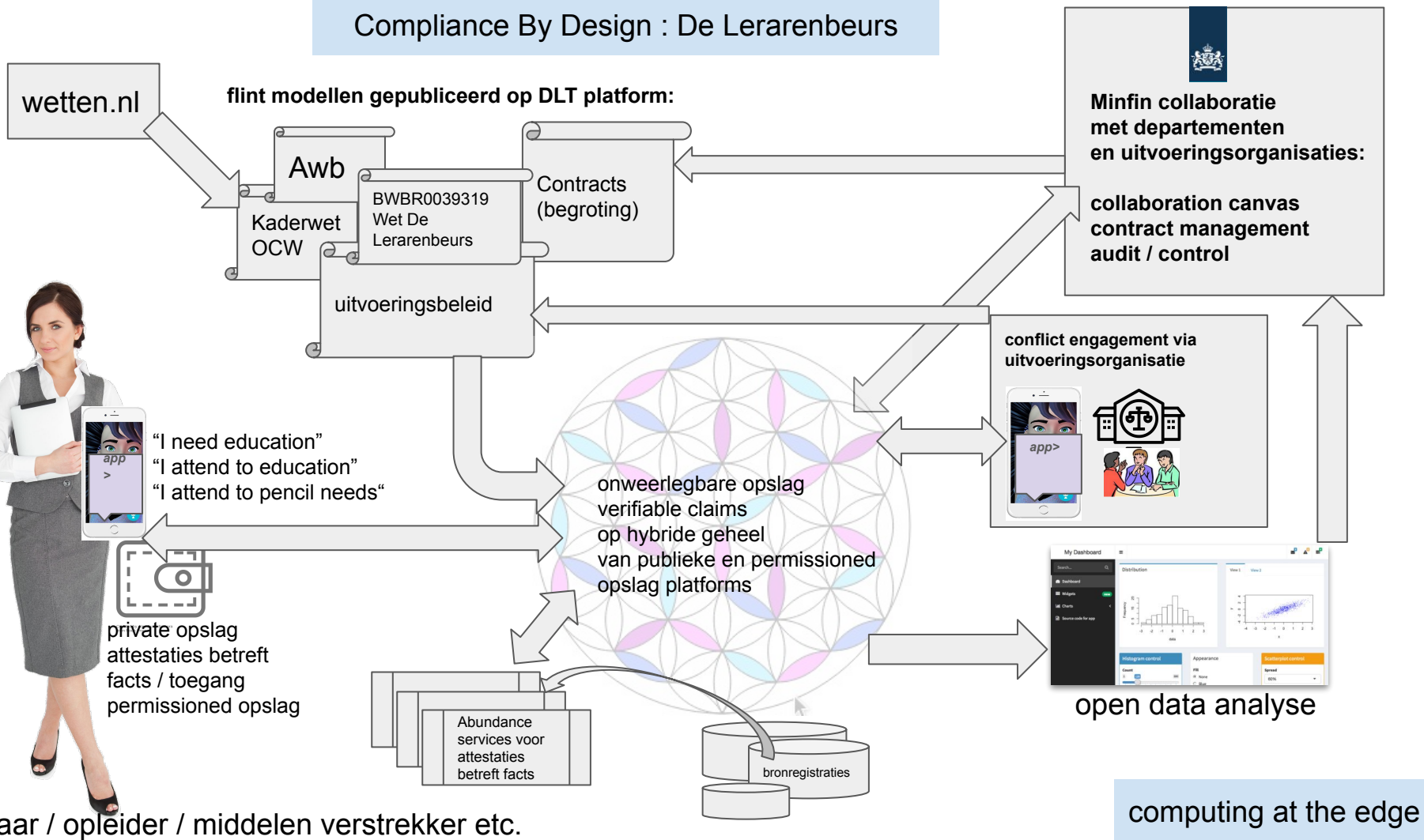


# Compliance by design in Discipl (discipl.eu)

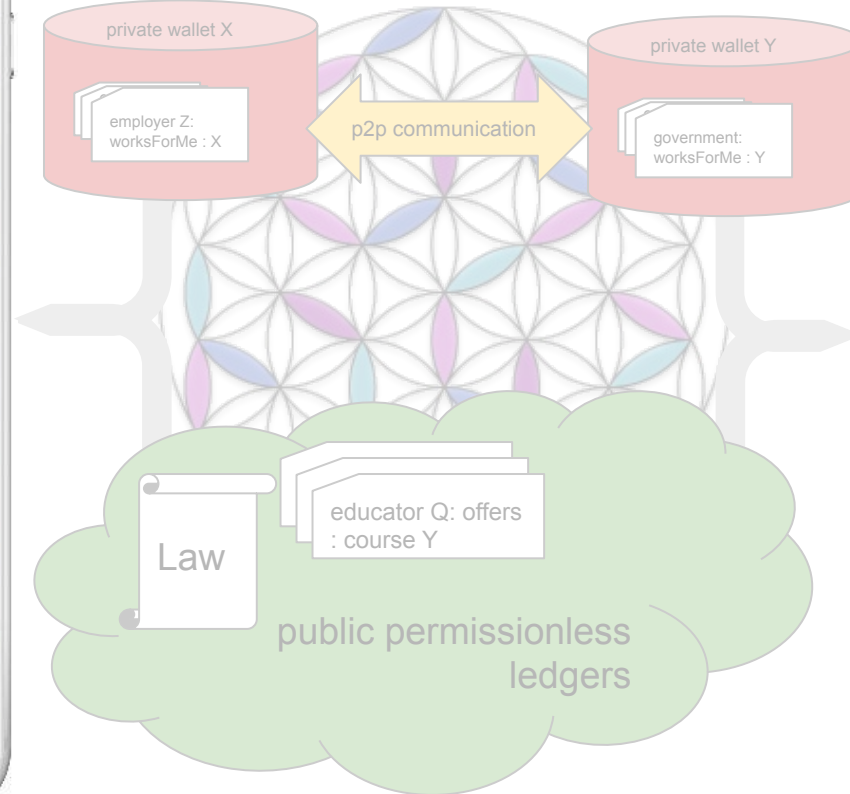




# Compliance By Design : De Lerarenbeurs



# Near future



app> About your need for education:

You seem to be eligible for a grant for following courses that will get you a Master degree as you don't seem to have that now. Given your profession and employer you'd probably want to make use of this. Do you want to know more? ...

app> I'm still servicing needs relating to law "De Lerarenbeurs"(\*) to help you attend to them. No such needs currently exist and nothing to do for you as official government representative in respect of making decisions or engaging with conflicts in this context

\*)  
[ici1.3.c:BWBR0039319&z=2019-04-01&q=2019-04-01](https://www.ici1.3.c:BWBR0039319&z=2019-04-01&q=2019-04-01)

# Deep integration possibilities

*Bestellen in drie eenvoudige stappen!*

| Winkelwagentje  |          |
|---|----------|
| • Texas Instruments TI-84 Plus CE-T<br>Desktop Grafische rekenmachine<br>Zwart calculator |          |
| Totaal artikelen (1)  | € 114,99 |
| Verzendkosten ⓘ   | Gratis   |
| <hr/>   |          |
| Nog te betalen  | € 114,99 |


1. Bestelling


2. Betaling


3. Bevestiging

### Kies een betaalmethode


Heb je een kortingscode of cadeaukaart?




 [Air Miles inwisselen](#)

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Klik op Bestelling plaatsen om de bestelling definitief te maken.

# Virtual society

We introduce the Digital Twin to be able to develop solutions for society more efficiently. The Digital Twin is a digital replica of a living or non-living physical entity. By bridging the physical and the virtual world, data is seamlessly transferred, allowing the virtual entity to co-exist with the physical entity.

This concept take us far beyond the limitation of interpretation of statistical data on which we regularly make decisions within the current system. By means of Discrete event simulation (DES) we can test the many interactions between probabilities in the system far beyond the statistics. Where we now remain stuck in solving problems within the many technical silos, we can now integrally solve complex problems across the organizational boundaries through simulations.



# Digitale identiteit (Simulatie) Levensloop



# Discipl, Society Architecture & NORA

Why these principles ? What problem do they solve? What conflicting needs do they solve?

How do current principles relate to already established solutions (constitutional law, EU law, SDG's, NORA, Discipl)? But how do all those relate to real needs?

How do current principles relate to needs and what could be a better system that continuously finds and helps apply solutions for conflicts in them?

How to get principles (as solutions) continuously implied and applied by design from established solutions that get maintained through an agile conflict resolution system?



# discipl





# Convergent Facilitation

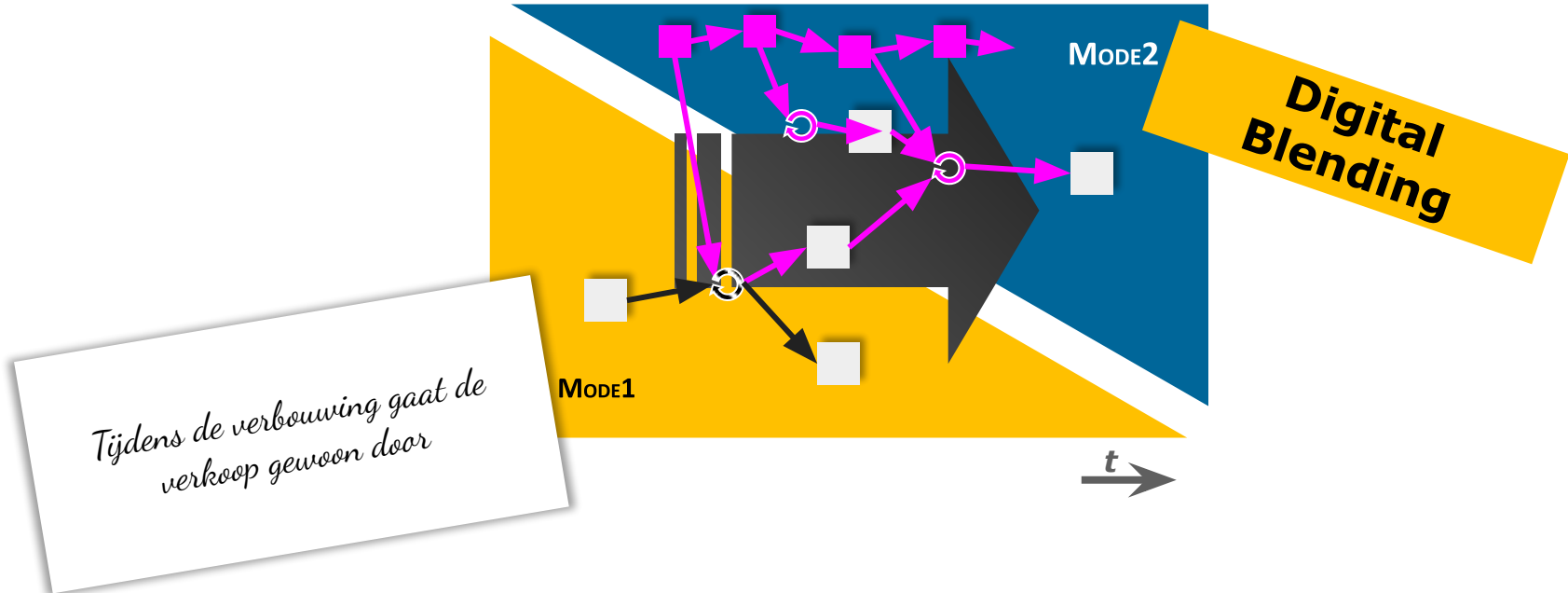
1. Identify all different kinds of non controversial needs anonymously, especially those kept silent. **These are your principles**, make them visible to all.
2. Find solutions for specific conflicting needs, that adhere to ALL principles and every stakeholder is willing to accept.
3. If it can not seem to be found: some of the non controversial needs did not yet surfaced, known to all stakeholders: start over
4. If time is too limited, shift into finding a temporary solution to make time

Requires good facilitation skills to make this effective



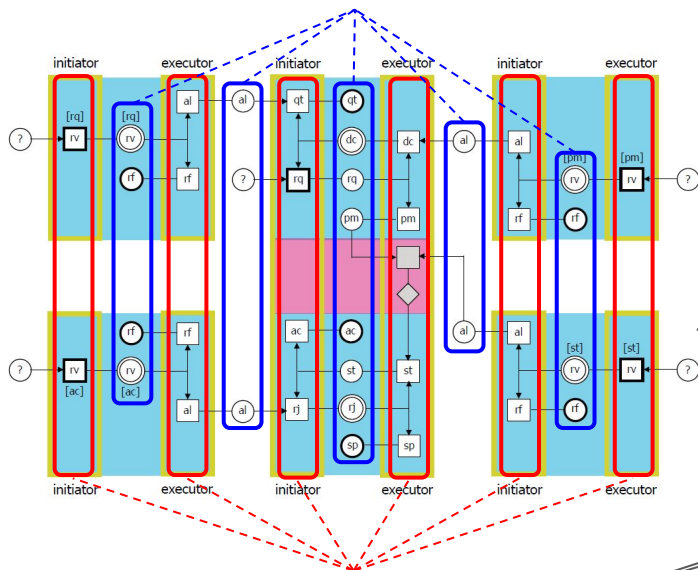
## Transitie innovatie en realisatie

 Innovatie =  
kennisontwikkeling  
 Realisatie =  
productontwikkeling

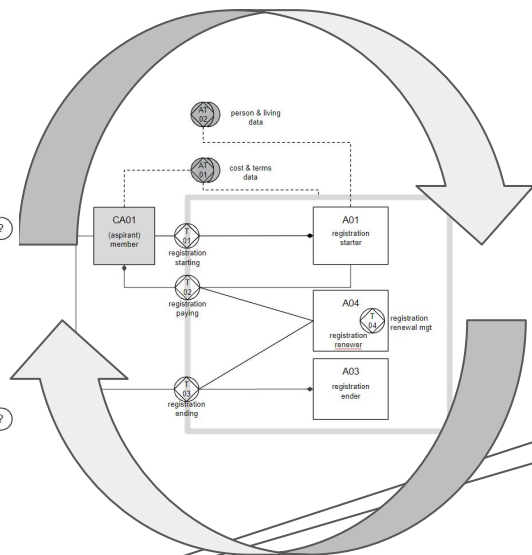


# Implying API's from DEMO model (a stepping stone)

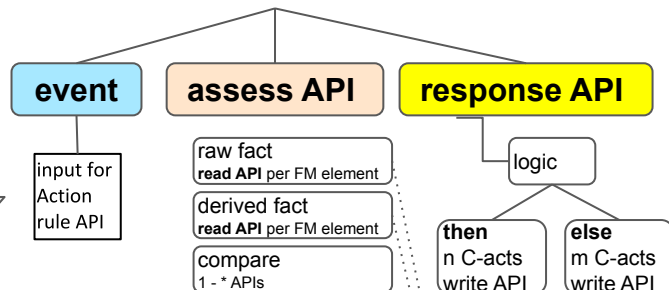
**Operational cycle API**, based on action rules  
E.g. "Show actionable C-facts for this actor role"



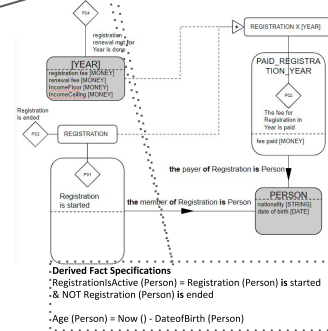
**Write API: 1 per type of C-act**



## Action rule API



**Read API: 1 per fact**  
(original and derived)



# Discipl, Society Architecture in relation to...

- **API** : in the end, business logic specific API's designed by hand will vanish, but focus on API's is a stepping stone towards a distributed collaborative information platform based on verifiable claims in general.

=> An answer to API request (through NLX) can be signed and held as attestation in a SSI wallet.

=> This transitions to attests based on other attestations locally provided by end users

This is our API strategy

- **Privacy, RoG, IRMA, Discipl** : Self Sovereignty in holding data, privacy by design guided by agile law. And in a same way as other aspects (like also inclusion, UX, trust, ethics, non-bias ...)

# On Trust, Privacy, Bias, Ethics, Identity, Inclusion, UX...

You can not deal with these topics separately, they are all highly interconnected!

**Needs are not things that you want, but why you want things, a why a child could have**

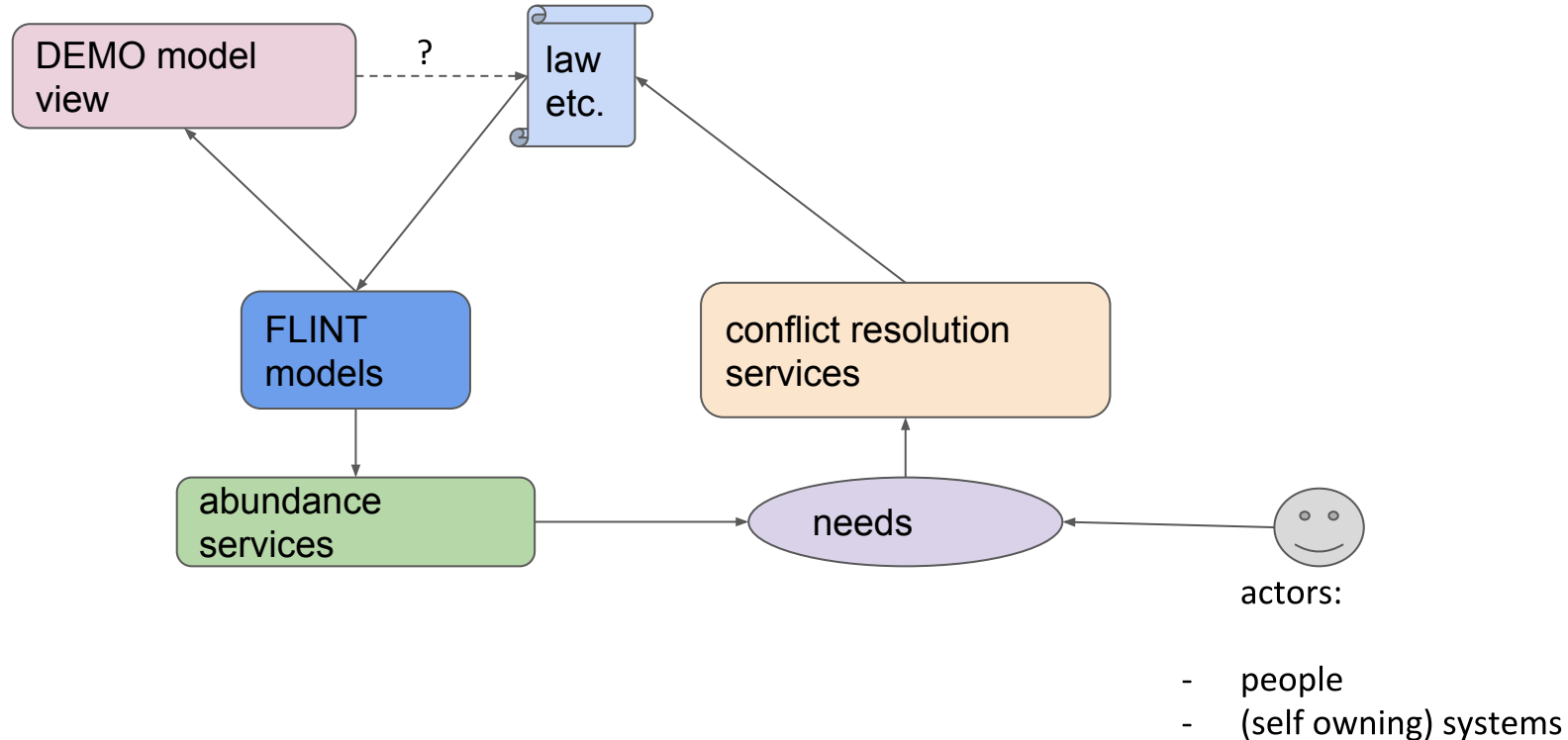
**Trust can not be induced through control. People need to have to experience they and their needs matter and are attended too unconditionally and timely. Babies die when they don't have that. And we still need this once grown up.**

**People are not inherently bad.**

**We see societies as groups of people that can collaborate non violently always open and available for true dialogue between people and facilitate this. True dialogue requires a willingness to be changed by it.**

# Soll: Abundance services guided by 'law' through FLINT

When need focussed:





Next up: self-owning wind farms. And, self-owning power grids. This is a nice one to think about because we can inject incentives to be carbon-neutral. This is all possible with today's technology.



# Discipl Principles

- Attend to all the Needs
- Nonviolent Collaboration
- Open Free Knowledge
- Anonymous Transparency
- Virtual Society
- Sustainable Nature 2.0



# Starting 2020 : Discipl Innovation Hubs

- @The Hague Tech (with Digicampus)
- @Dutch Innovation Factory (with Haagse Hogeschool and Wigo4IT)
- ...

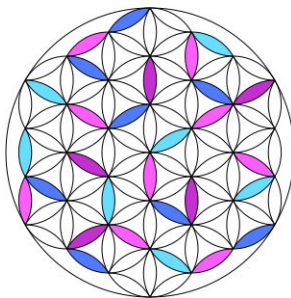
and anyone can start one!

Discipl Toolkit:

- Discipl Society Architecture
- Discipl Solution Stack
- Discipl Quadruple Innovation Hub



**NATURE 2.0**



**DIGICAMPUS**