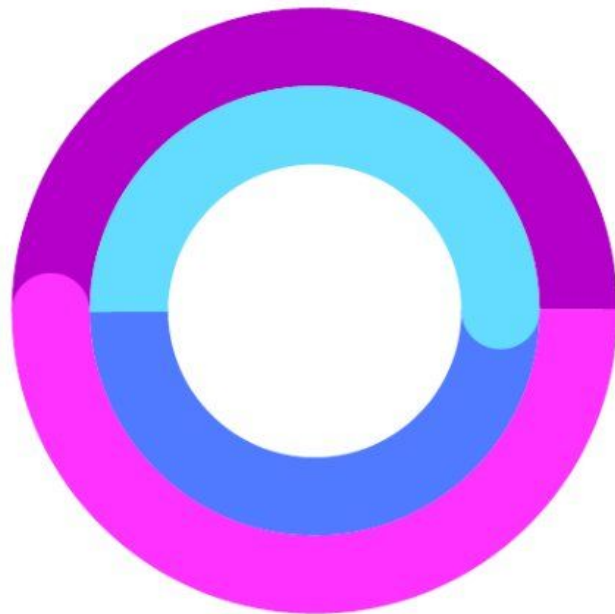




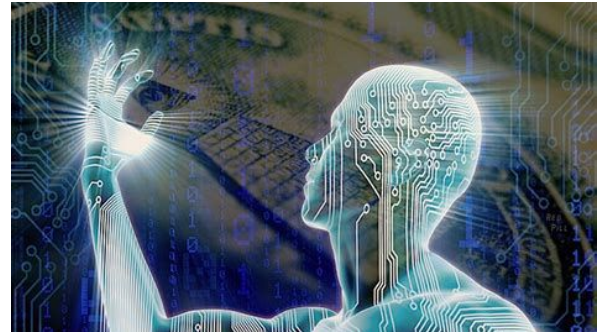
Steven Gort #nllgg

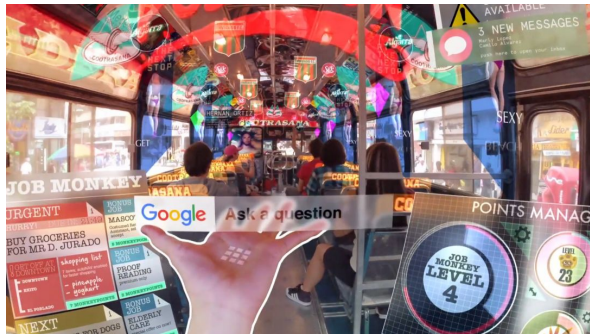
 @datafluisteraar

steven.gort@ictu.nl / +31 6 52 48 69 51



ICTU





DATA IS THE NEW OIL:

**DIRTY, MISUNDERSTOOD, POLLUTING THE WORLD
& PULLED FROM ALL THE WRONG PLACES.**

Data is a liability



BLACK MIRROR

Ethics?

WEAPONS OF MATH DESTRUCTION



Trust?

HOW BIG DATA INCREASES INEQUALITY
AND THREATENS DEMOCRACY

CATHY O'NEIL

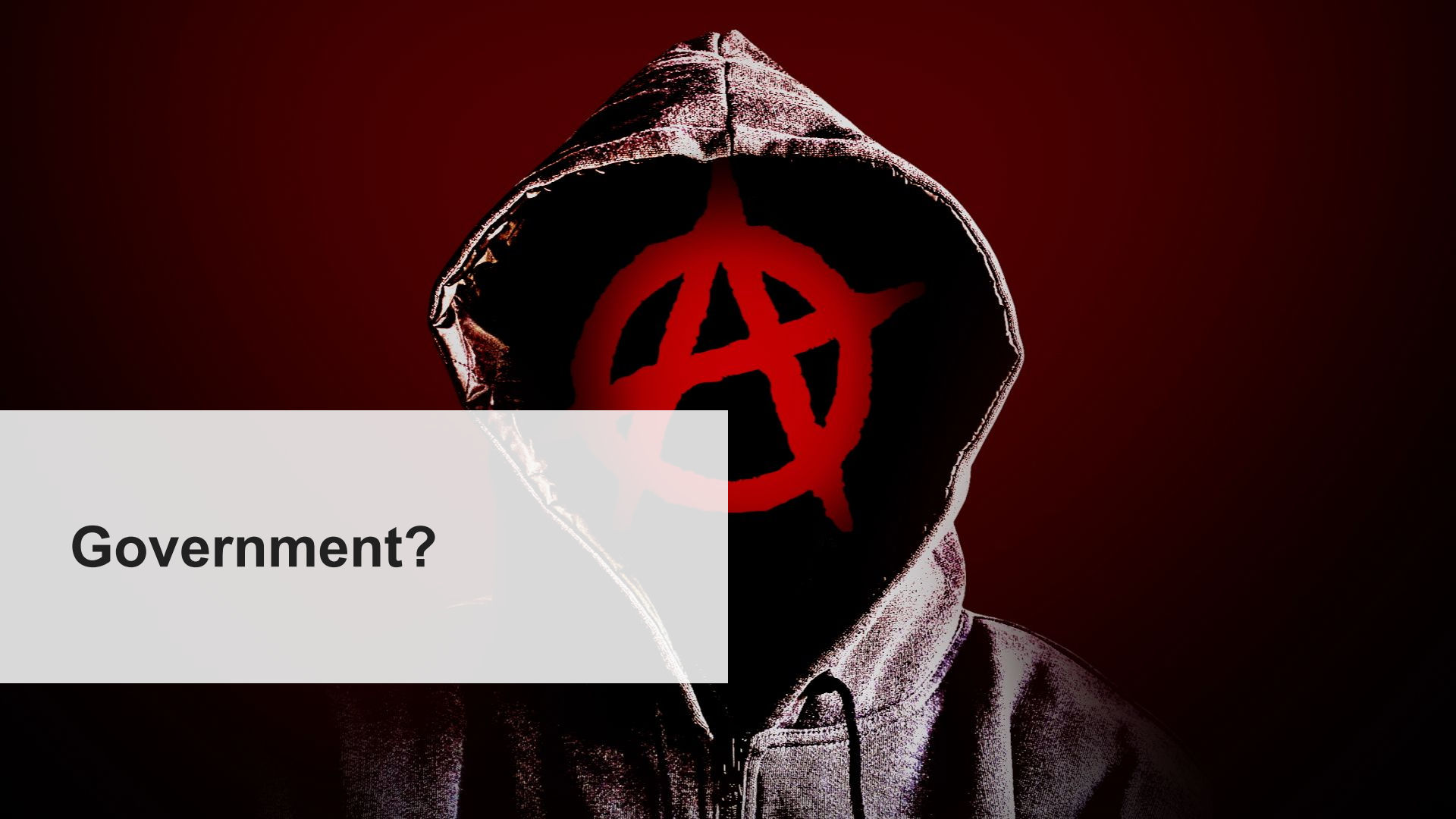
'Fascinating and deeply disturbing'



AUTOMATING INEQUALITY

HOW HIGH-TECH TOOLS PROFILE,
POLICE, AND PUNISH THE POOR





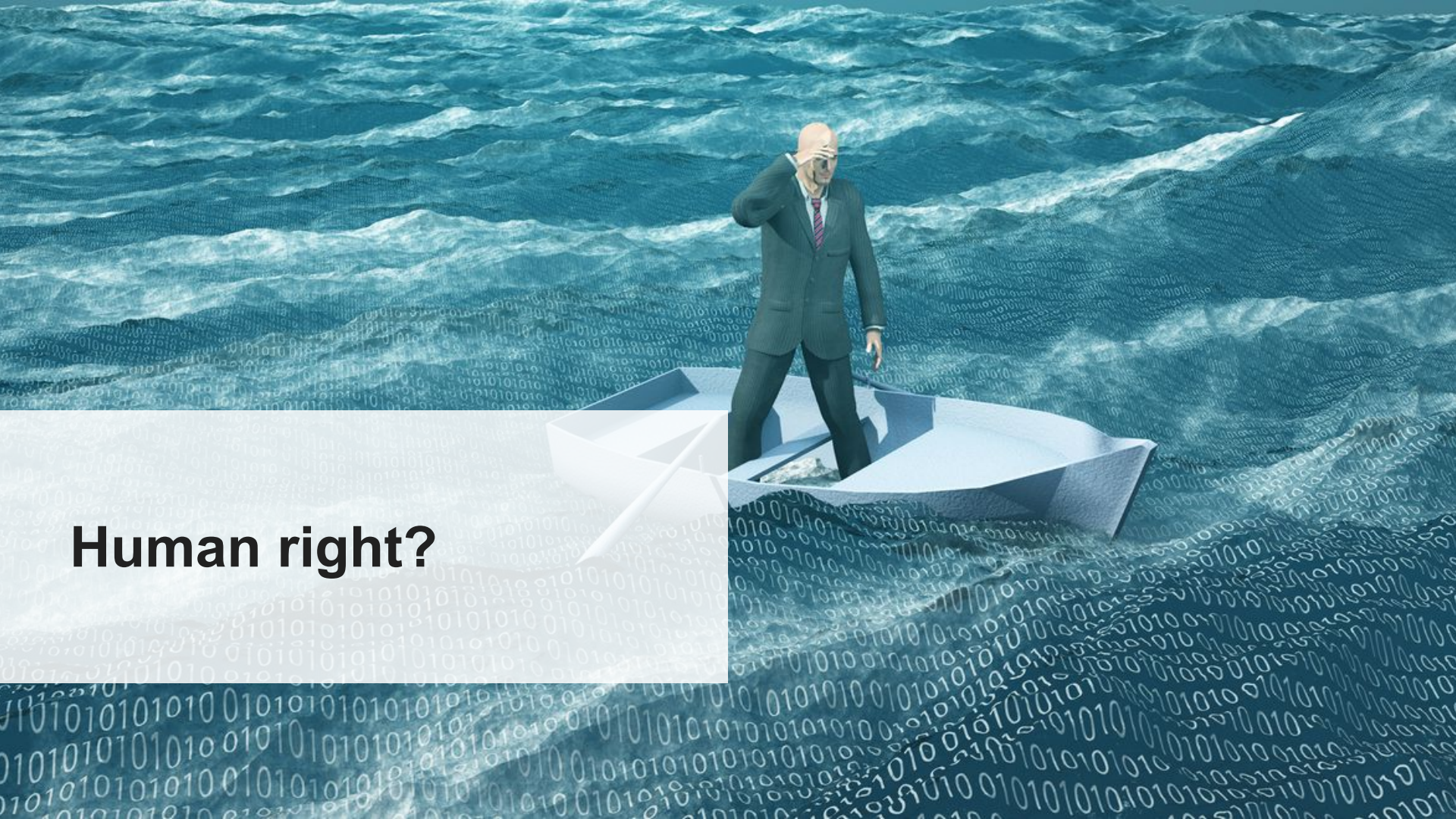
Government?

UNHCR



Freedom rights?





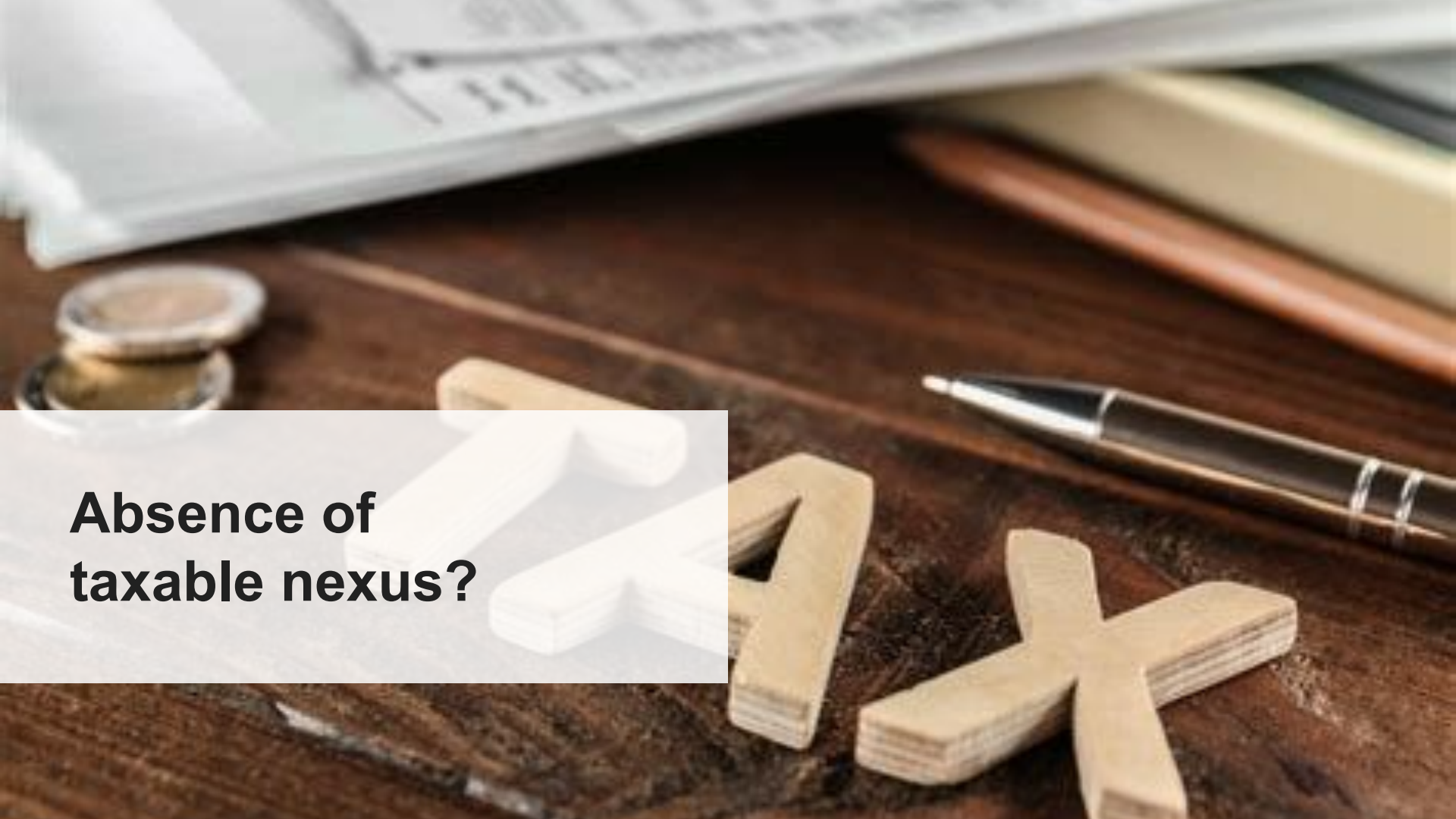
Human right?

A close-up photograph of a middle-aged man with a receding hairline, wearing a black headset with a microphone. He is looking slightly to his right with a thoughtful or concerned expression. He is wearing a white collared shirt and a dark tie. The background is dark and out of focus, showing some equipment racks with lights.

Rule of law



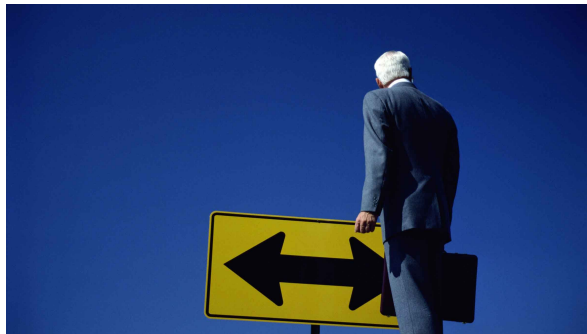
**Authorised
supervision**

A close-up photograph of a wooden desk. In the foreground, the letters 'TAX' are spelled out using wooden blocks. A silver pen lies horizontally to the right of the letters. In the background, a laptop keyboard is visible, slightly out of focus. To the left, there are some small, round objects, possibly coins or buttons. The overall scene suggests a professional or financial setting.

**Absence of
taxable nexus?**

Semantics

THE MAP IS NOT THE TERRITORY.





**Open World
Assumption**



©2015 Jiff Mallett Distributed by Universal Uclick



Self Sovereign Identity

Decentralized Identifiers (DIDs) v0.9

Data Model and Syntaxes for Decentralized Identifiers (DIDs)



Draft Community Group Report 02 April 2018

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 - 1.1.2 Motivations for DIDs
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- 2.1 Base Specifications

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- 3.1 The Generic DID Scheme
- 3.2 Specific DID Method Schemes
- 3.3 DID Paths
- 3.4 DID Fragments
- 3.5 DID Normalization
- 3.6 DID Persistence

Latest editor's draft:

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

Editors:

[Drummond Reed \(Evernym\)](#)
[Manu Sporny \(Digital Bazaar\)](#)

Authors:

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[Christopher Allen \(Blockstream\)](#)
Ryan Grant
[Markus Sabadello \(Danube Tech\)](#)

Participate:

[GitHub w3c-ccg/did-spec](#)
[File a bug](#)
[Commit history](#)
[Pull requests](#)

Copyright © 2018 the Contributors to the Decentralized Identifiers (DIDs) v0.9 Specification, published by the [Credentials Community Group](#) under the [W3C Community Contributor License Agreement \(CLA\)](#). A human-readable [summary](#) is available.

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 - 3.3 Healthcare
 - 3.4 Retail
 - 3.5 Professional credentials
 - 3.6 Legal identity
4. **User tasks**
 - 4.1 Issue claim
 - 4.2 Assert claim
 - 4.3 Verify claim
 - 4.4 Store / Move claim
 - 4.5 Retrieve claim
 - 4.6 Revoke claim
5. **User sequences**
 - 5.1 How a verifiable claim might be created
 - 5.2 How a verifiable claim might be used
- A. **Terminology**

Verifiable Claims Use Cases

W3C Working Group Note 08 June 2017

**This version:**

<https://www.w3.org/TR/2017/NOTE-verifiable-claims-use-cases-20170608/>

Latest published version:

<https://www.w3.org/TR/verifiable-claims-use-cases/>

Latest editor's draft:

<https://w3c.github.io/vc-use-cases/>

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[File a bug](#)

[Commit history](#)

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[Abstract](#)

Convergent facilitation




**Convergent
Facilitation**

Miki Kashtan

Global Digital Single Market



A blue, glowing lightbulb is the central focus, tilted diagonally. The words 'PERSONAL BRAND BOOST' are written in white, bold, sans-serif capital letters across its surface. The background is a dark grey grid with white technical sketches, including a line graph with points labeled '08' and '10', a circle with the number '25', and a percentage symbol '%'.


**Personal reputation
peer to peer**





Maternity Hospital

Certificate of Birth



This Certifies that Steven Kirk Girard
was born to Stephanie and Kirk Girard
in this Hospital at 0300 A.M.
the 6th day of June A. D. ' 66

In Witness Whereof the said Hospital has

signed this Certificate in its official capacity this



EUROPESE UNIE
KONINKRIJK DER NEDERLANDEN
PASPOORT

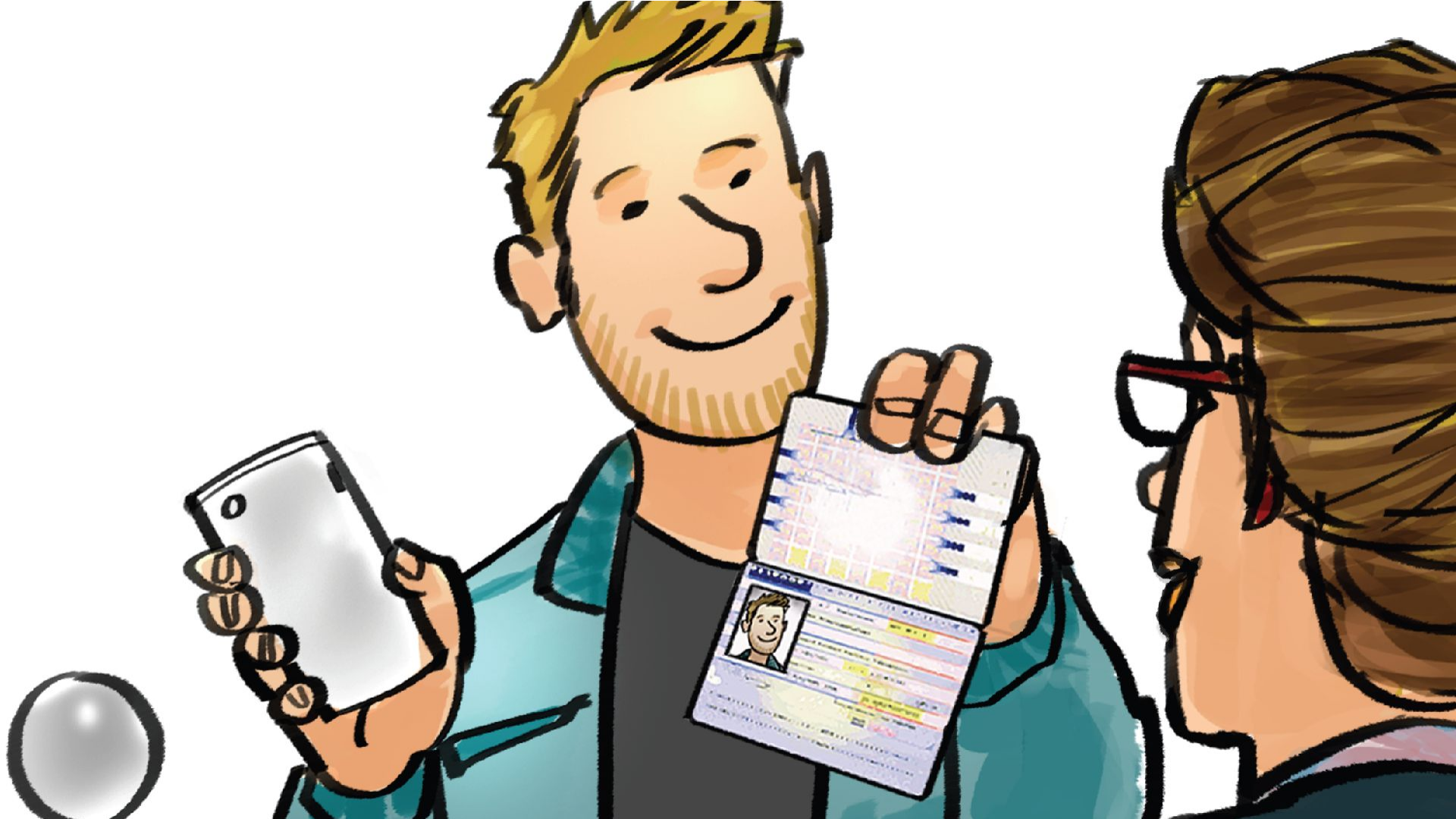


CITY HALL

EST.
1817

















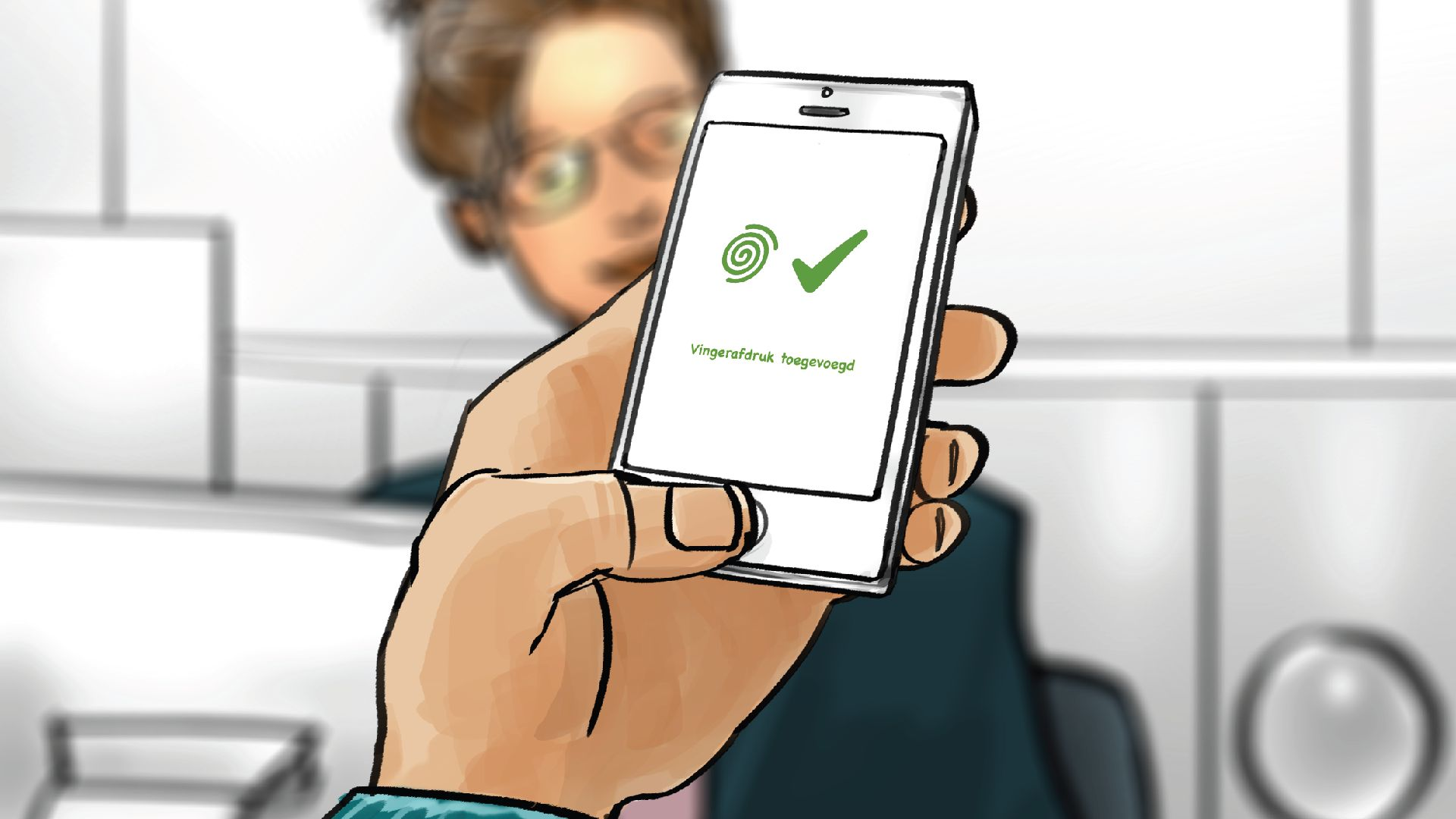


Vingerafdruk toevoegen

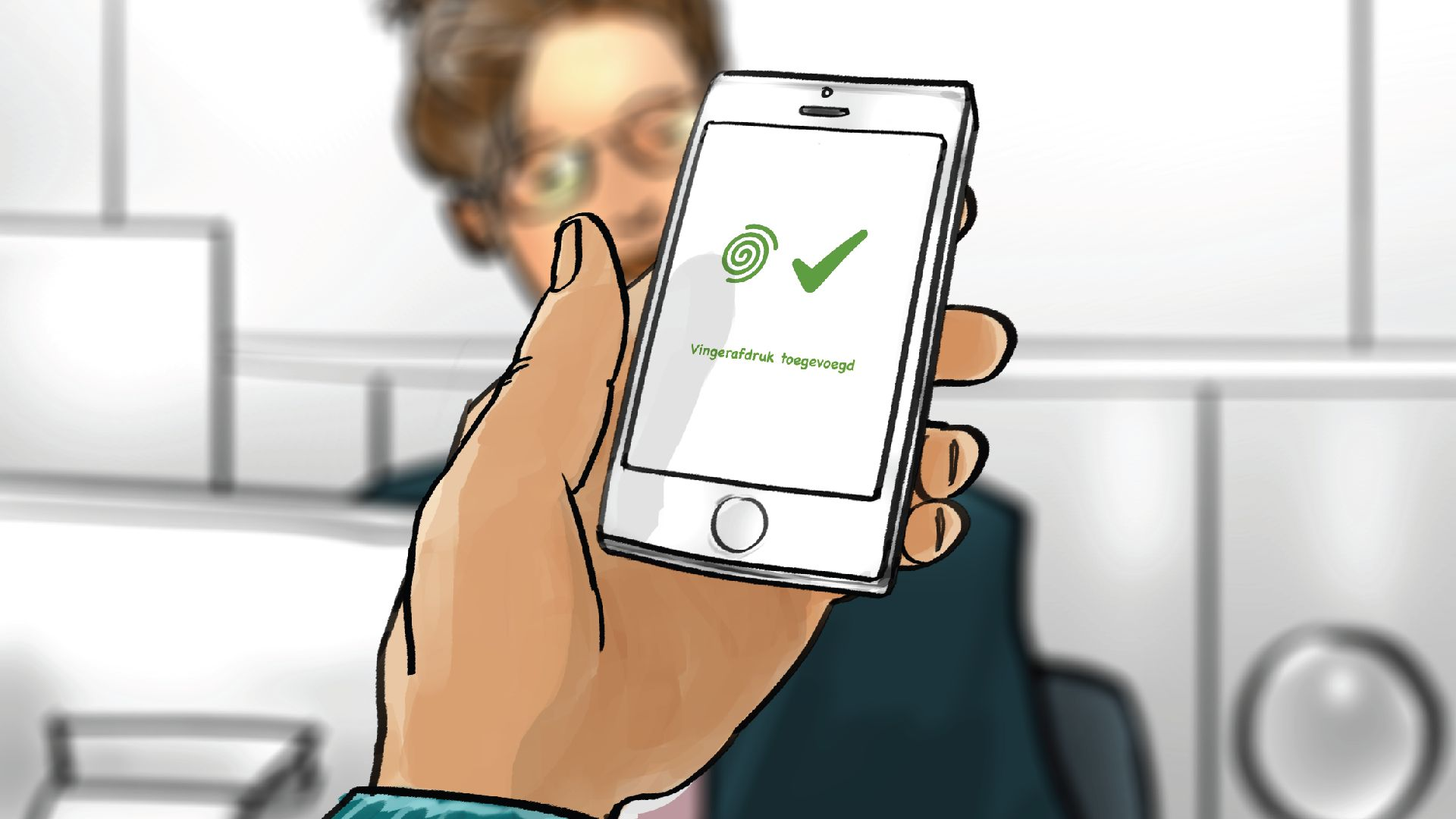




Bezig met toevoegen



Vingerafdruk toegevoegd



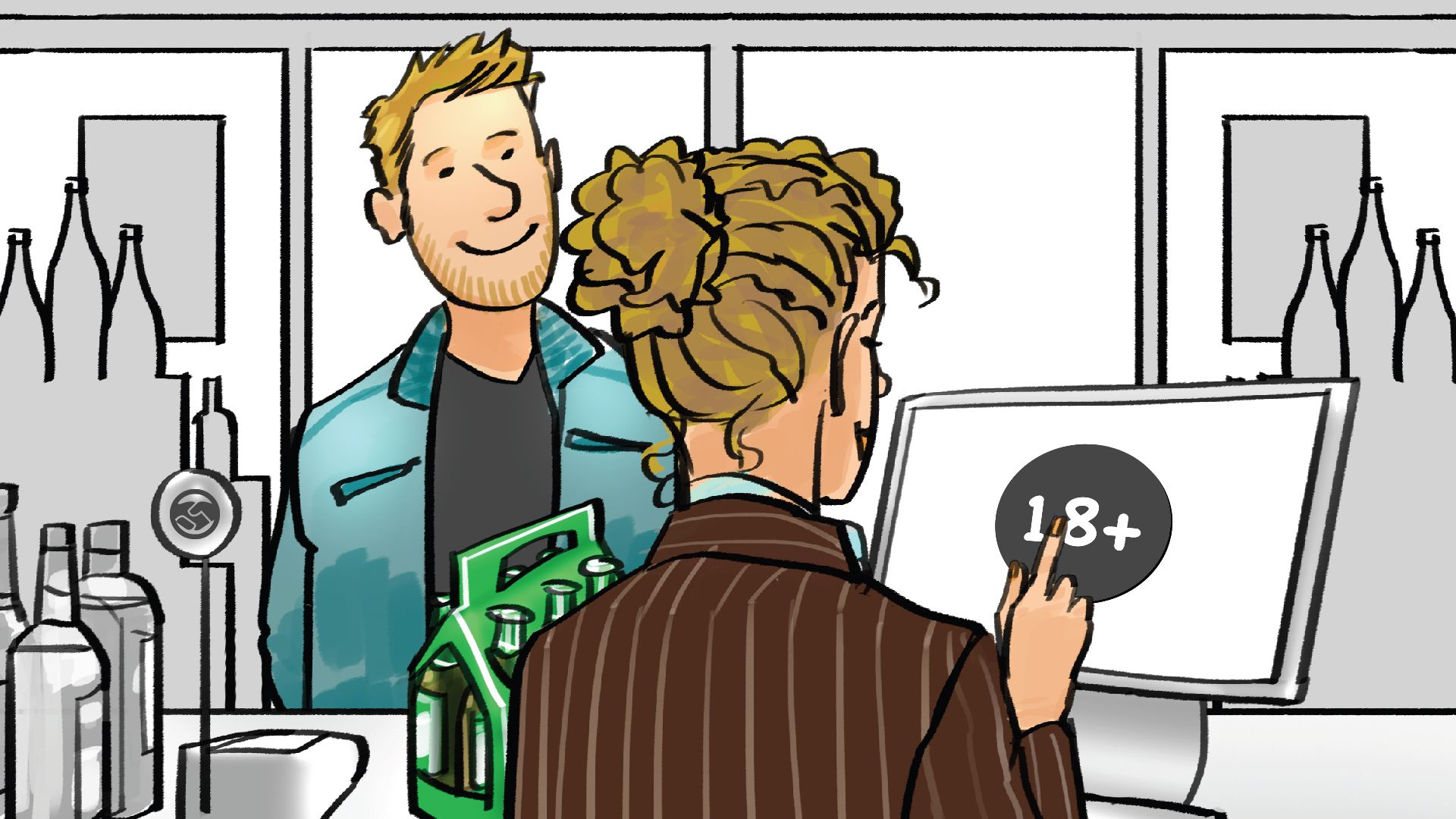
Vingerafdruk toegevoegd



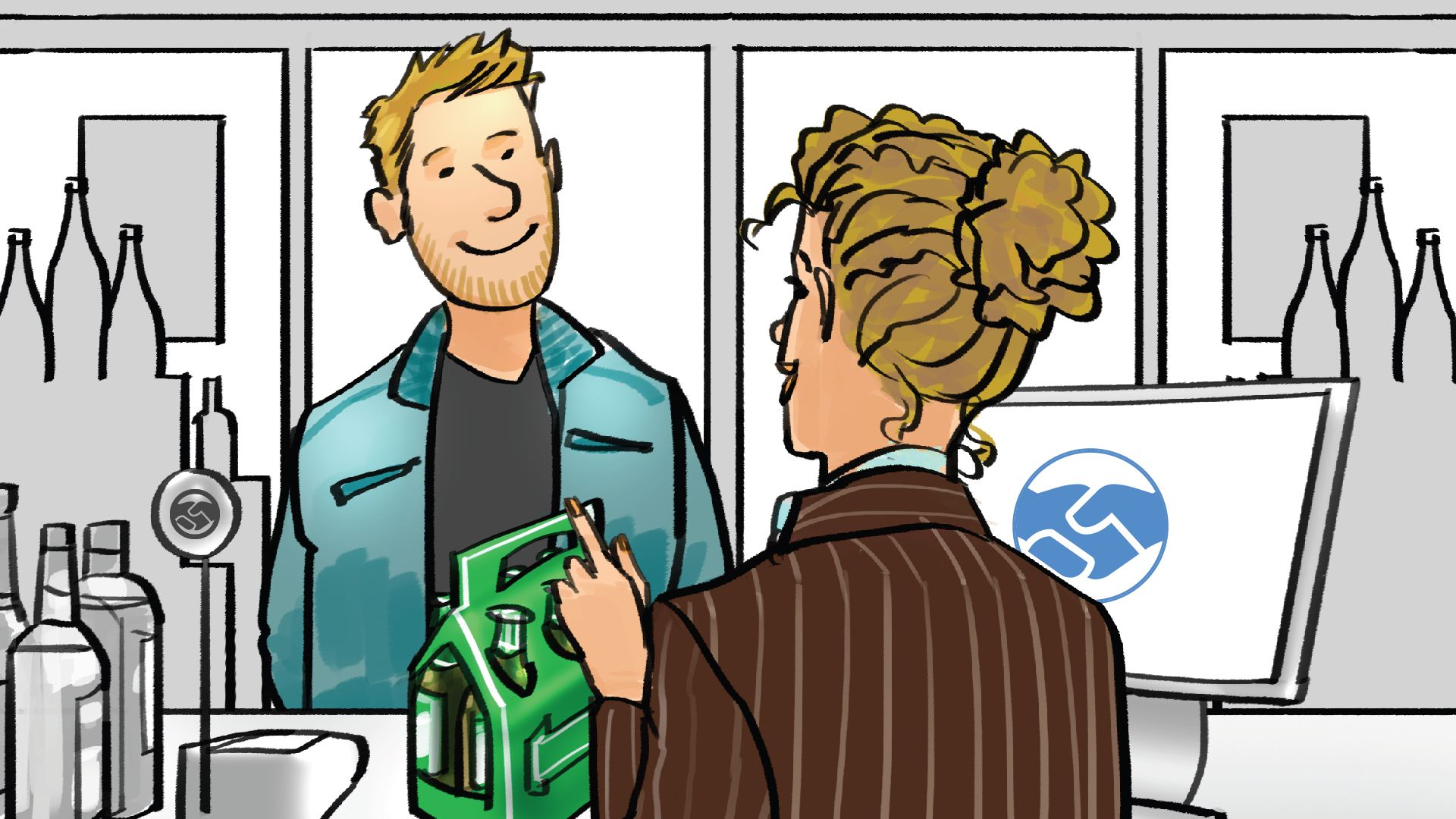








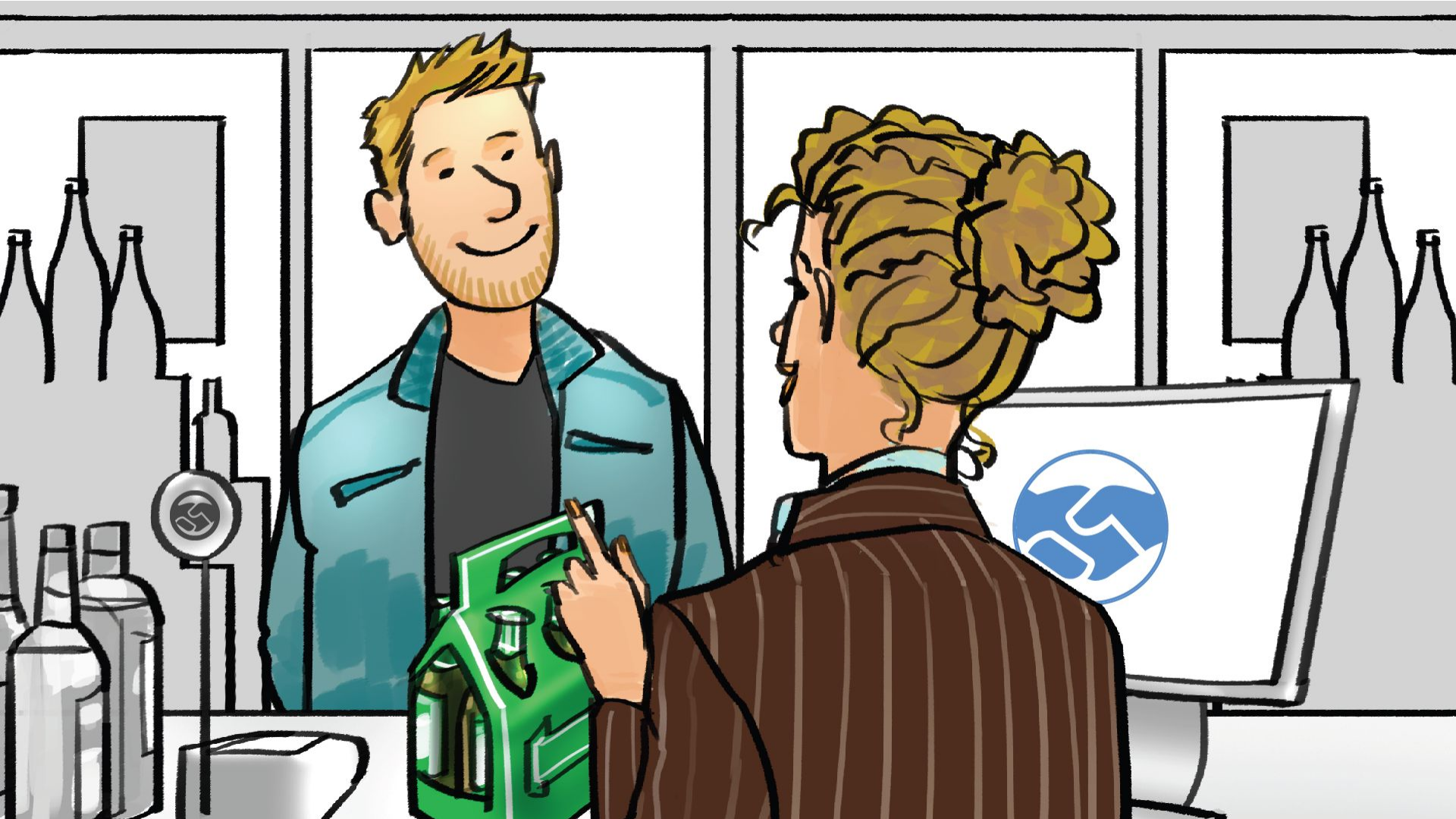
18+















Gall & Gall BV ✓

wil toegang tot deze informatie:

- U bent 18 jaar of ouder.

[Meer informatie >](#)

Doorgaan



< terug

U verleent [Gall & Gall BV](#) ✓
eenmalig toestemming om te
weten of u 18 jaar of ouder
bent. Deze informatie mag niet
door Gall & Gall BV worden
bewaard.

[Basisregistratie Personen](#) ✓
staat garant voor deze
informatie.



wilt
atie:

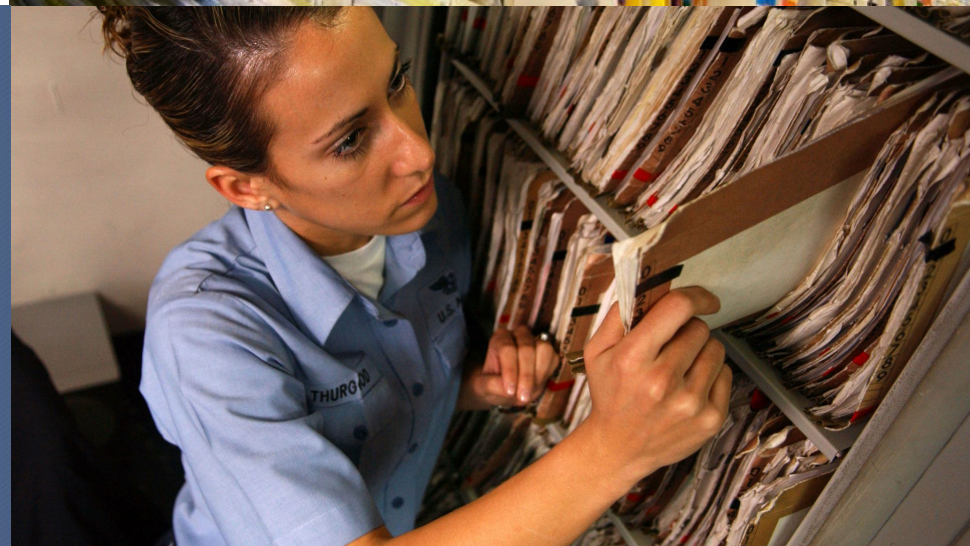
een moment geduld...

Doorgaan





















HULP
MODUS



HULP
MODUS



Gebruik vingerafdruk om
door te gaan



HULP
MODUS





Gebruik vingersdruk om door te gaan



HULP
MODUS



✓ Melding verstuurd
naar dochter "Margot"

 Bel Margot

- Bloedgroep AB
- Stoma aanwezig
- Oxazepam 20mg
- Niet reanimeren

Hennie van Stekelen
Dorpsstraat 42



Zuidhorn. Kindpakket

Welkom op de website van het kindpakket Zuidhorn. Het kindpakket is een jaarlijks ondersteunende regeling voor kinderen in de gemeente Zuidhorn.

[Lees meer over hoe het systeem werkt](#)

12 winkel(s) gevonden.

Klik op een winkel om de locatie en details te tonen.

PC Hulp Oldehove

Adres: Kerkpad, 3, 9883PK, Oldehove, Nederland
Telefoonnummer: 06 4975 2335

Openingstijden:

Ma: 09:00-17:00, **Di:** 09:00-17:00, **Wo:** 09:00-17:00, **Do:** 09:00-17:00, **Vr:** 09:00-17:00

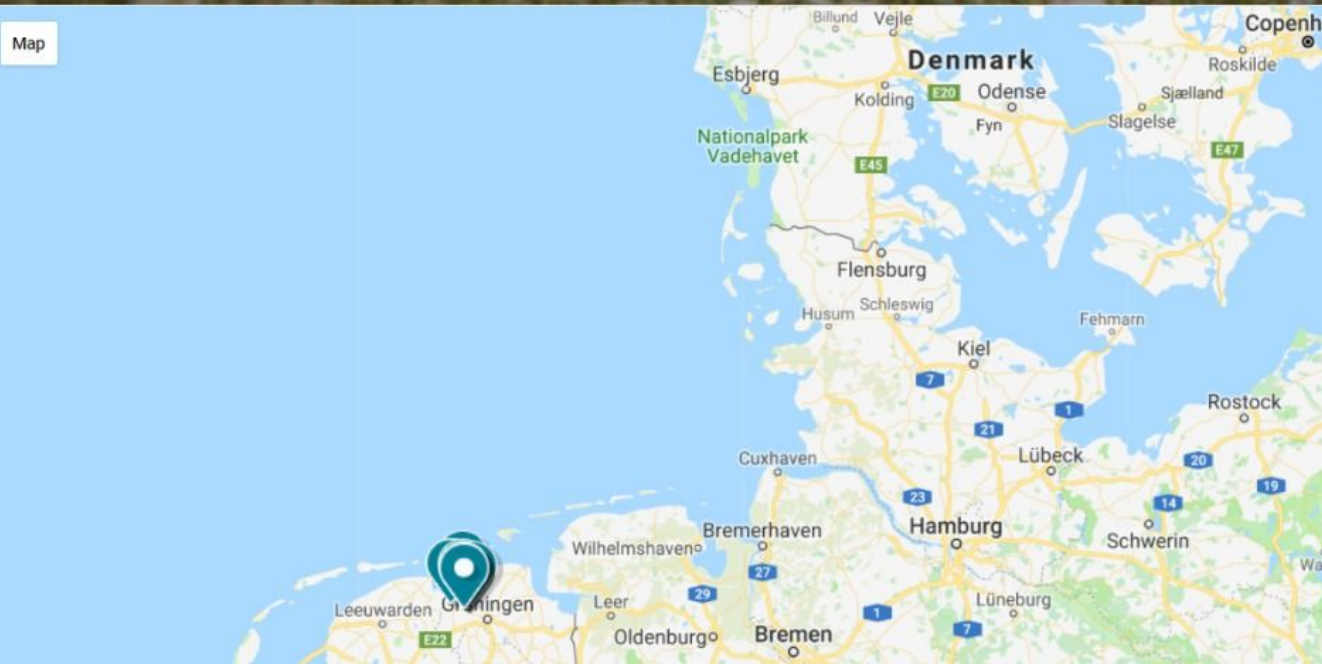
Joy House Of Brands

Adres: Dorpsvenne, 2, A, 9801DA, Zuidhorn, Nederland
Telefoonnummer: 0594-528980

Openingstijden:

Ma: 13:00-18:00, **Di:** 09:30-18:00, **Wo:** 09:30-18:00, **Do:** 09:30-18:00, **Vr:** 09:30-21:00, **Za:** 09:00-17:00

Map





Inloggen Kindpakket Zuidhorn

Scan de QR-code met de Forus



U kunt tot 14:55 uur (Nederlandse tijd) inloggen. Daarna verloopt uw sessie.

- » Lorem ipsum dolor sit amet, consectetur adipisicing elit
- » Eiusmod tempor incididunt ut labore et dolore magna aliqua
- » Laboris nisi ut aliquip ex ea commodo consequat.

De app wordt momenteel
alleen uitgeven via Android



kom op de website

ben 12 winkel
winkel om de locatie

PC Hulp Oudeho
Adres: Kennedylaan 1
Nederland
Telefoonnummer: 06

Openingstijden:
Ma: 09:00-17:00 Do:
17:00-17:00 Di: 09:00-17:00

Joy House Of Bra
Adres: Dorpsvenne 2
Nederland
Telefoonnummer: 0574-555555

Openingstijden:



Welcome to Me



Welcome to Me

Let's set up your identity

CREATE NEW

RESTORE IDENTITY



New profile

Fill in your first identity records

FIRST NAME

First name

LAST NAME

Last name

BSN

BSN Here

E-MAIL

Your E-mail

TELEPHONE NUMBER

Your Telephone number

ADD PROFILE

FILL DEMO

Records



Personal

5 records



Medical

Empty



Professional

Empty



Relations

Empty



Licences

Empty



Other

Empty



Wallet



Tokens

Assets

Passes

Search Token



46.86

Ether



385.51

BAT



0.00

Kindpakket Coins





Zuidhorn. Kindpakket

Welkom op de website van het kindpakket Zuidhorn. Het kindpakket is een jaarlijks ondersteunende regeling voor kinderen in de gemeente Zuidhorn.

Lees meer over hoe het systeem werkt

ben 12 winkel(s) gevonden.

en winkel om de locatie en details te tonen.

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Openingstijden:

Ma: 09:00-17:00, Di: 09:00-17:00, Wo: 09:00-17:00, Do:
09:00-17:00, Vr: 09:00-17:00

Joy House Of Brands

Adres: Dorpsvenne, 2, A, 9801DA, Zuidhorn, Nederland
Telefoonnummer: 0594-528980

Openingstijden:

Ma: 13:00-18:00, Di: 09:30-18:00, Wo: 09:30-18:00, Do:
09:30-18:00, Vr: 09:30-21:00, Za: 09:00-17:00

Map





Mijn Voucher Code



HUIDIG BUDGET

€900.00

Print Voucher

Stuur per e-mail



Gemeente
Zuidhorn

E-mailadres:
kindpakket@zuidhorn.nl

Openingstijden Gemeente:

Maandag: 8.30-12.30, 13.30-16.30, 18.00-19.30

Dinsdag: 8.30-12.30

Bent u een winkelier in Zuidhorn en wilt u
meer informatie?

Bent u een inwoner van Zuidhorn en wilt u
meer informatie?



Forus

<http://forus.io> info@forus.io

Repositories 9

People 18

Teams 15

Projects 5

Pinned repositories

me

An app for managing identity, assets and records.

★ 2 🍴 2

forus.io

An open platform for the conditional exchange of value.

● JavaScript ★ 2

research-and-development

A place for the shared learning of decentralized development.

● HTML ★ 18 🍴 5

Search repositories...

Type: All ▾

Language: All ▾

me-ios

An iOS app for managing identity, assets and records.

● Swift ★ 1 Updated 10 hours ago



Top languages

● JavaScript ● Kotlin ● Swift
● HTML

People 18 >



36 Backlog + ...

- Kindpakket 1.1**

Added by jamalv
- Database Connection Research**

3 of 5

service-implementation#14 opened by jamalv

zuidhorn
- DigiD Research**

service-implementation#13 opened by jamalv

zuidhorn
- Exploration conversations with stakeholders (St. leergeld, Jeugd sportfonds etc.)**

0 of 2

service-implementation#34 opened by jamalv

zuidhorn
- Deploy Kindpakket 1.1**

Automated as **To do** Manage

22 In progress: Week 16 | 16-04 - 20-04 + ...

- Development**

Added by jamalv
- Sponsor v2 wireframes**

12 of 15

forus.io#18 opened by jamalv

RFC
- Validator v2 wireframes**

0 of 6

forus.io#19 opened by jamalv
- Provider v2 wireframes**

0 of 8

forus.io#20 opened by jamalv

RFC
- Requester v2 wireframes**

9 of 22

forus.io#21 opened by jamalv
- Update financial dashboard**

6 of 7

service-implementation#9 opened by

26 Done! + ...

- make a separate repo me-ios**

me#25 opened by maxvisser
- Set up development environment**

2 of 2

forus.io#11 opened by jamalv
- Financial update: security notifications**

2 of 2

service-implementation#28 opened by jamalv

zuidhorn
- Migrate BUNQ integration to SDK**

service-implementation#37 opened by danrminds

zuidhorn
- Update csv-uploader (validator) dashboard**

3 of 3

service-implementation#8 opened by jamalv

enhancement zuidhorn

Automated as **Done** Manage

8 Messages

- 4 weeks To finish Kin**

Added by jamalv
- Tip!**

To see your assign search for: assign in the search-field click fullscreen and you have a nice p

Added by maartenf
- Guests: Team S**

Monday 16 April

Added by jamalv
- Driving less**

Tuesday 11:00 till

Added by maxvisser
- Meeting: DigiD**

19 April. 11.00 - 1



Privacy by Design Foundation

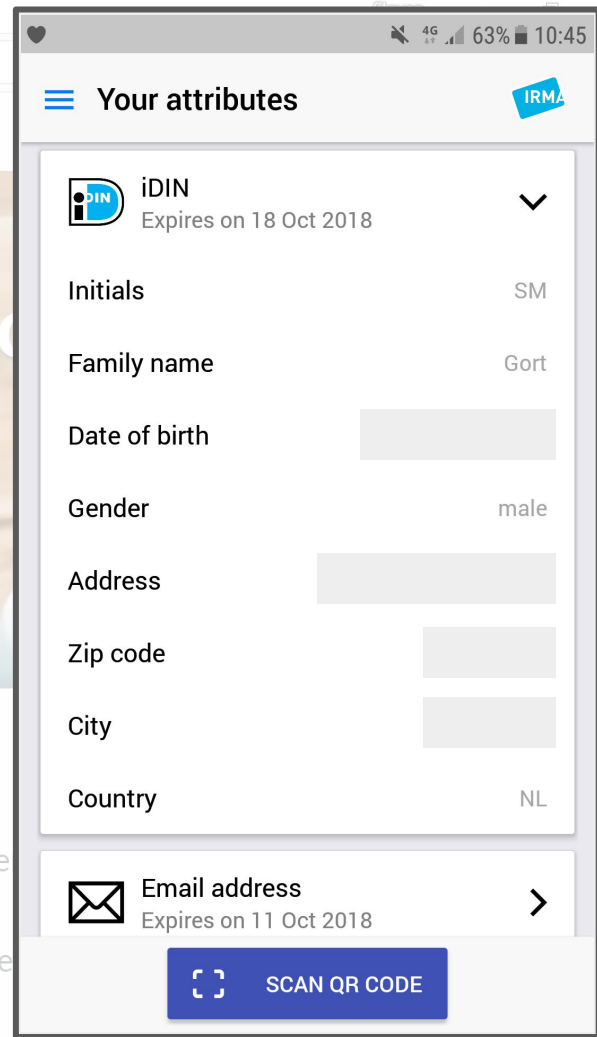
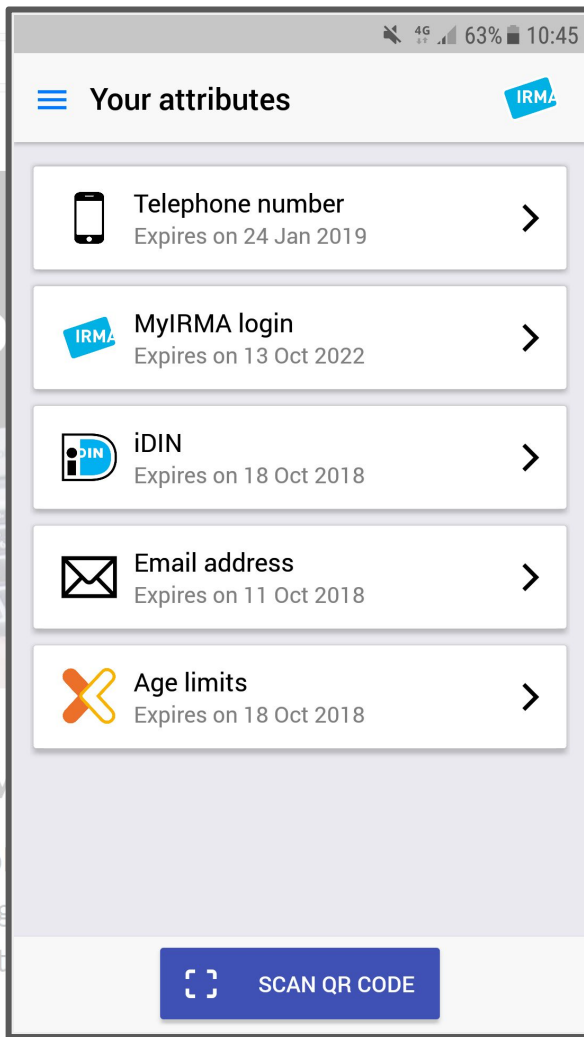
Over IRMA

IRMA biedt een oplossing om op een privacy-vriendelijke manier in te loggen. Bij dat inloggen onthult de gebruiker enkele relevante eigenschappen (attributen) van zichzelf, via een IRMA app op de eigen mobiele telefoon.



Over IRMA

IRMA biedt een op
loggen. Bij dat inlog
eigenschappen (att
mobiele telefoon.





IRMA Authentication

The Netherlands

<https://privacybydesign.foundation>

Repositories 26

People 0

Projects 0

Pinned repositories

irma_mobile

IRMA app for iOS and Android

JavaScript 2

irmago

IRMA client in Go that can receive, store and disclose IRMA attributes. Used by irma_mobile.

Go 1 3

irma_signature_app

An application for creating IRMA signature requests and sending them to an e-mail client

JavaScript

irma_js

IRMA web JavaScript library

JavaScript 3 2

irma_api_server

An IRMA verification and issuing server

Java 4 7

pbdp-schememanager

Credential definitions, issuer info and public keys of the Privacy by Design Foundation scheme manager

Search repositories...

Type: All

Language: All

irma_signature_app

An application for creating IRMA signature requests and sending them to an e-mail client



Top languages

- Java
- JavaScript
- PHP
- Go
- HTML

Inwoners en ondernemers

Stadsdelen

Bestuur

Zoek

Paspoort, rijbewijs en uittreksel

[Parkeren, verkeer en vervoer](#)

[Afval en milieu](#)

[Geboorte, huwelijk en overlijden](#)

[Meer onderwerpen...](#)



[Home](#) > [Inwoners en ondernemers](#) > [Paspoort, rijbewijs en uittreksel](#) > **Uittreksel persoonsgegevens**

Verstrekken bewijs inschrijving BRP

Gemeentelijk ambtenaar

Voer BSN in

Volgende



Haarlem

[Werken bij de gemeente](#)

[Contact](#)

[Nieuws en actualiteiten](#)

[Sitemap](#)

[Over deze website](#)





Search or jump to...



[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)



[discipl](#) / [waardepapieren](#)

[Watch](#) 4

[Star](#) 2

[Fork](#) 0

[Code](#)

[Issues](#) 29

[Pull requests](#) 0

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[Wiki](#)

[Insights](#)

[Settings](#)

project for consortium of municipalities digitizing PoE services

[Edit](#)

[Manage topics](#)

61 commits

12 branches

0 releases

3 contributors

GPL-3.0

Branch: [master](#)

[New pull request](#)

[Create new file](#)

[Upload files](#)

[Find File](#)

[Clone or download](#)

[pimotte](#) Merge pull request #43 from discipl/issue#39/Improving-user-interface

.github/ISSUE_TEMPLATE	Correct typo	
authorization-backend	a first naive untested implementation	
clerk-frontend	Update ephemeral to render new QR code	
client-frontend	a first naive untested implementation	
mock-nlx	Update mock data, table structure	18 days ago
revoke-service	a first naive untested implementation	3 months ago
validator-frontend	a first naive untested implementation	3 months ago

Clone with HTTPS [Use SSH](#)

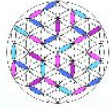
Use Git or checkout with SVN using the web URL.

`https://github.com/discipl/waardepapie`

[Download ZIP](#)

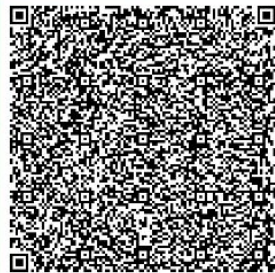
File Edit View Search Terminal Help

```
datafluisteraar@HP-EliteBook-Folio-1040-G3:~/Code/waardepapieren$ sudo docker-compose up
Starting waardepapieren_mock-nlx_1 ... done
Starting waardepapieren_waardepapieren-service_1 ... done
Starting waardepapieren_clerk-frontend_1 ... done
Attaching to waardepapieren_mock-nlx_1, waardepapieren_waardepapieren-service_1, waardepapieren_clerk-frontend_1
mock-nlx_1
mock-nlx_1      > mock-nlx@0.1.0 start /app
mock-nlx_1      > node index.js
mock-nlx_1
waardepapieren-service_1
waardepapieren-service_1 > waardenpapieren-service@0.1.0 start /app
waardepapieren-service_1 > node --require @babel/register src/index.js
waardepapieren-service_1
waardepapieren-service_1 | Ephemeral server listening on 3232!
```



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 Claim) 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



Verstrekken bewijs inschrijving BRP

Gemeentelijk ambtenaar

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

[Vorige](#)
[Dit klopt niet!](#)
[Dit klopt!](#)


Scan



T

Text

12 Mar 2019 20:40

```

{"did:discipl:ephemeral:QbspXAvtc5XLWB
HDDAZwdsO8M2HsaKB+txJzf34VhMY=":
[{"link:discipl:ephemeral:AQXLX/EeYd9+/
AF0hNqTcyrfNArpcw+b9GqGJ0jskorQ
uQpzyQMxrmFdlgHsZE65chhub4N9i8z/
HuQ3CmNSCg=="{"Gewaarmerkt
digitaal afschrift van gegevens uit de
basisregistratie personen (BRP)":
{"did:discipl:ephemeral:cjL/Lc9vQYbwt8N
p0ImSEobZTEbqAo4274LYMSMGq78=":
[{"link:discipl:ephemeral:pjjW8TebTpEHPy
eGkjmuqH4momTiGOwkEBiMD8GPKLhbL/
9ez2EGofe4nKBlrVgMGv4gNaDR2bes47G
nclHTAg=="{"0":{"voornamen":"Frans"},"1":
{"geslachtsnaam":"Hals"},"2":
{"straatnaam":"Groot Heiligland"},"3":
{"huisnummer":"4"},"4":{"postcode":"2011
ES"},"5":{"woonplaats":"Haarlem"}}}}}}]}

```



Web search



Share

```
> my-new-project@ android /home/datafluisteraar/Code/waardepapieren/validator-frontend
> expo start --android
```

```
Starting project at /home/datafluisteraar/Code/waardepapieren/validator-frontend
```

```
Expo DevTools is running at http://localhost:19002
```

```
Opening DevTools in the browser... (press shift-d to disable)
```

```
Starting Metro Bundler on port 19001.
```

```
Tunnel ready.
```

```
Couldn't start project on Android: Error running adb: No Android device found. Please connect a device and follow the instructions here to enable USB debugging:
https://developer.android.com/studio/run/device.html#developer-device-options. If you are using Genymotion go to Settings -> ADB, select "Use custom Android SDK tools", and point it at your Android SDK directory.
```

```
exp://192.168.43.18:19000
```

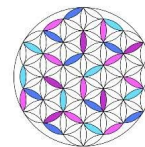


```
To run the app with live reloading, choose one of:
```

- Scan the QR code above with the Expo app (Android) or the Camera app (iOS).
- Press **a** for Android emulator.
- Press **e** to send a link to your phone with email/SMS.
- Press **s** to sign in and enable more options.

```
Press ? to show a list of all available commands.
```

```
Logs for your project will appear below. Press Ctrl+C to exit.
```



Development mode is enabled, your app will be slower but you can use useful development tools.

[Learn more](#)

Welkom bij de waardepapieren app!

Hulp nodig met het gebruik van deze app? [Klik hier!](#)



Home



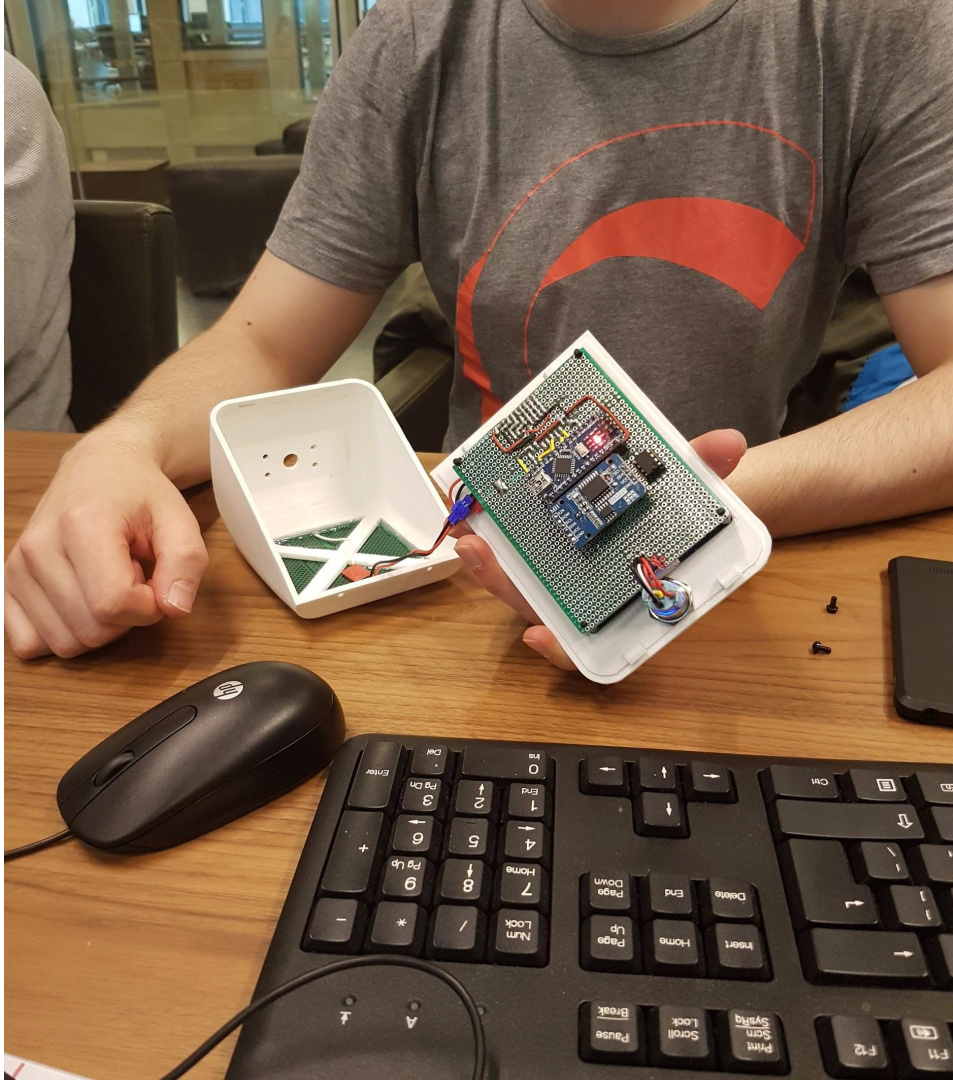
Scan



Wallet









This repository

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discipl / logiesbelasting

Watch 2

Star 0

Fork 0

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Insights

Settings

POC Logiesbelasting Rotterdam

Edit

Add topics

10 commits

1 branch

0 releases

3 contributors

GPL-3.0

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download



bkaptijn Merge branch 'master' of git@github.com:discipl/logiesbelasting.git

Latest commit c6947f6 12 days ago



Hardware ontwerpen/event paaltje/...

Added remaining 3d files + first arduino testcode

14 days ago



arduino code/event_pole

Added remaining 3d files + first arduino testcode

14 days ago



bezoekersapp/derp

Heb wat aanpassingen gedaan om te kijken of het zou gaan werken

a month ago



pot

add start of uc6, add a node check in uc1

12 days ago



LICENSE

Initial commit

2 months ago



README.md

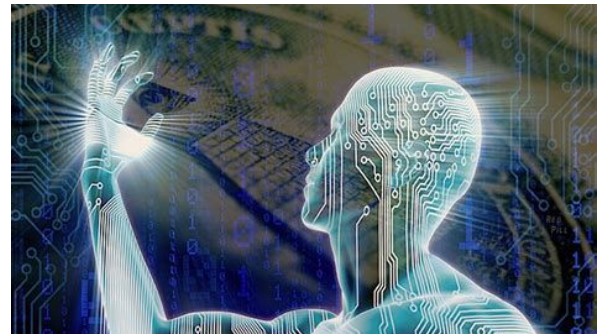
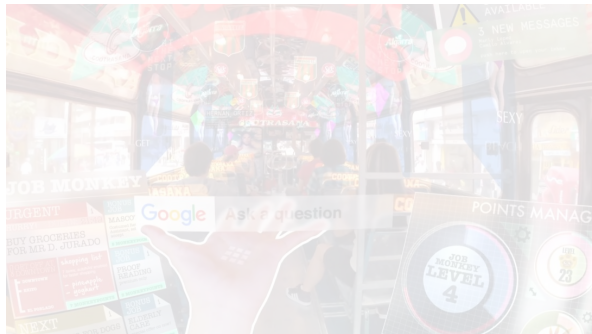
Update README.md

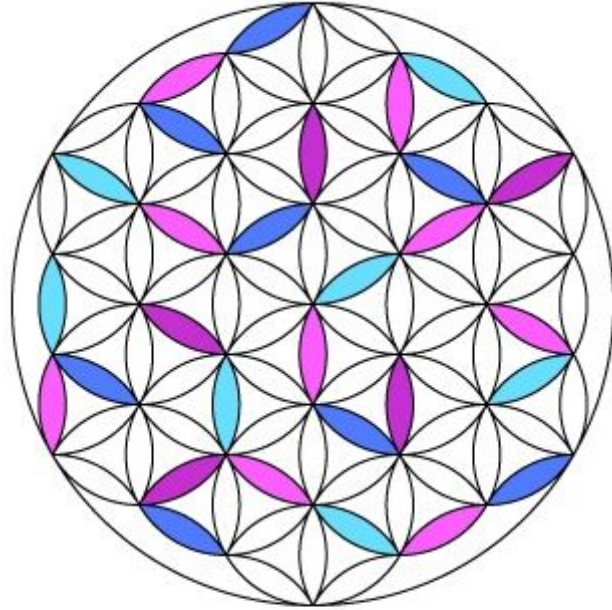
2 months ago



README.md

logiesbelasting





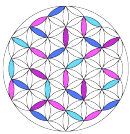
D I S C I P L

DIStributed Collaborative Information PLaatform



discipl.org

Belief in set of values that are important for a information commons infrastructure for tomorrow's society



READY FOR A NEW WORLD

Discipl is ready for a Not-So-Scary new world that is enfolding right now.

READY FOR THE IOT

Discipl is ready for the internet of things in which small devices transact with each other in automated fashion at the edges of the network.

READY FOR POST-SCARCITY ECONOMIES

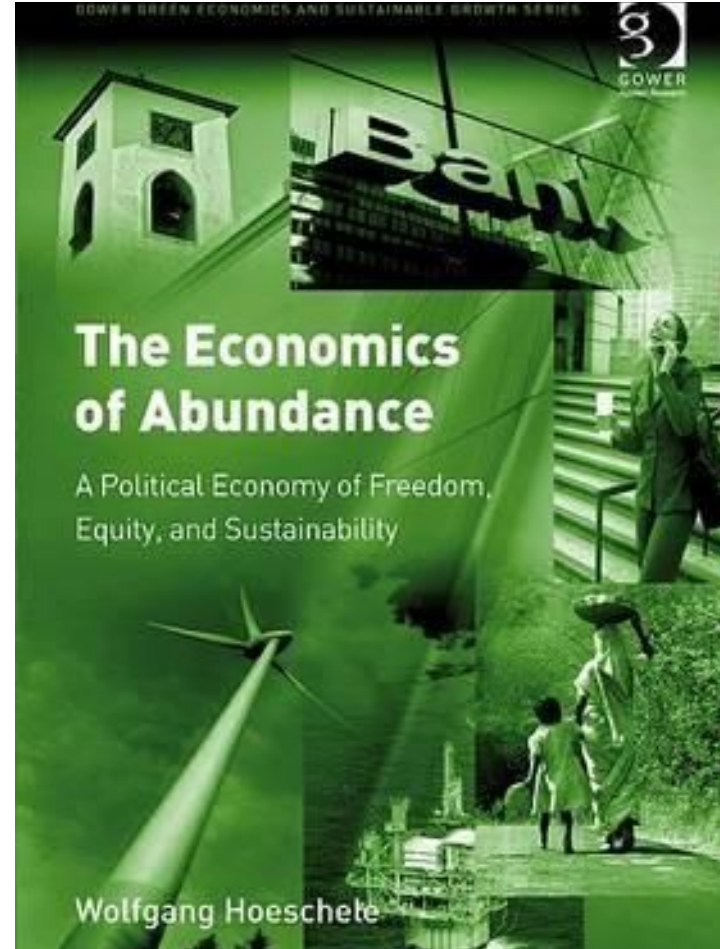
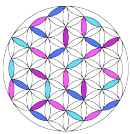
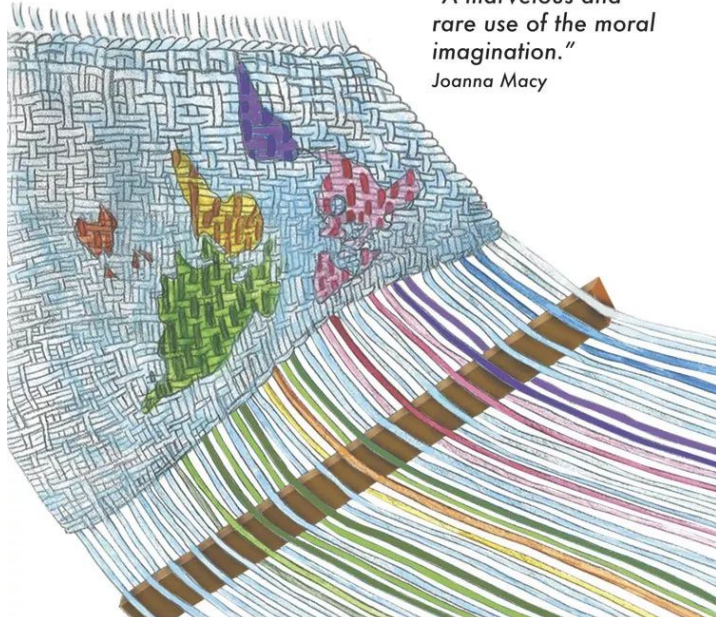
Discipl is ready for new economies in which money is actually not that important anymore and transactions are more about fulfilling all needs in an efficient and sustainable way.

Reweaving Our Human Fabric

Working Together to Create
a Nonviolent Future

Miki Kashtan

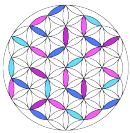
*"A marvelous and
rare use of the moral
imagination."
Joanna Macy*



Discipl

What is it?

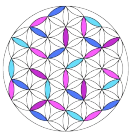
1. third horizon project by ICTU for NORA
2. vision of a future society with economy of abundance
3. inspired by Wolfgang Hoeschele, Miki Kashtan and others
4. embracing automation to fulfill all needs of self sovereign people not to impose upon



Discipl Pattern

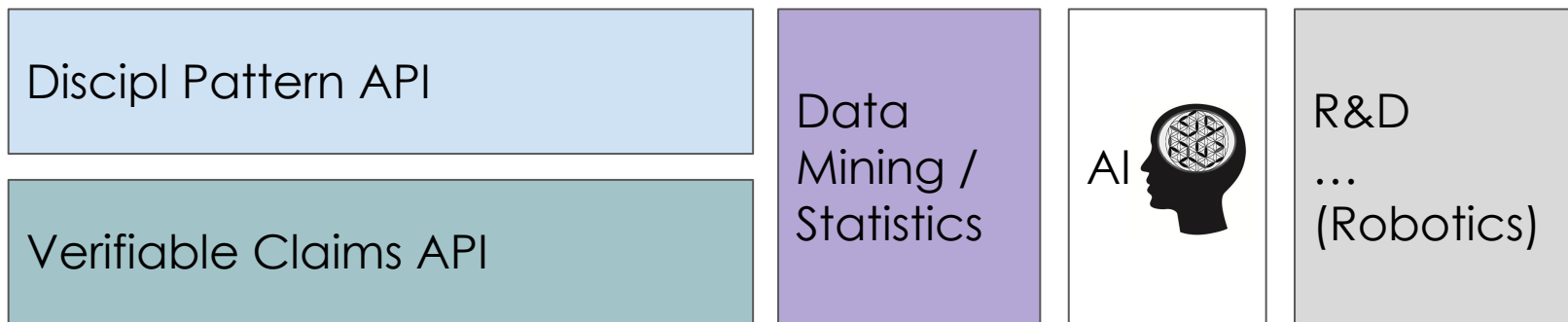
A conflict resolution pattern based on Convergent Facilitation Consensus Method:

1. prosumers have needs and can provide (which is actually also a need)
2. mismatch between needs, is dealt with through a:
 - a. Convergent Facilitation (CF) process
 - b. escalation and jurisdictional feedback process

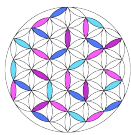


Discipl Core

Solutions Store



Legacy Application(s), RDBM(s), NLX, LoRaWAN™, Distributed Ledger Platform(s), etc.



A different single information landscape used by all



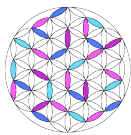
Entity
(human, thing, community)

privately governed
“wallet” with personal
information claims (as
single source).

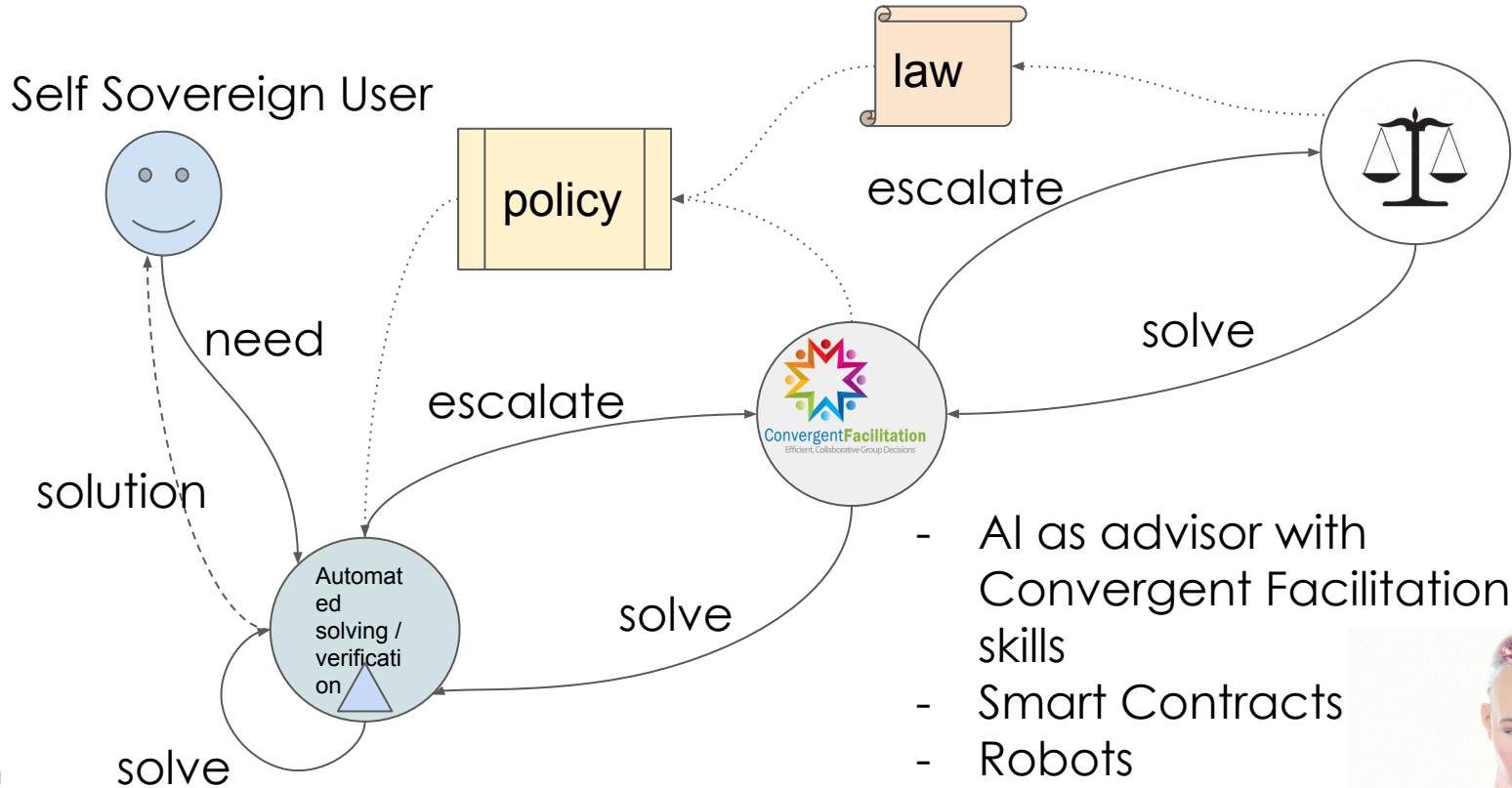
<<links to>>

A claim is a linked data triple: (did, predicate, object)
where did is a self sovereign identity id: a self generated
pubkey belonging to a private key owned by an entity that
should be the only one that can make the claim (provable
with signatures): a verifiable claim

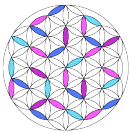
public claims with
unlinkable anonymous
information in some public
platform



Discipl Pattern (research 2019)



- AI as advisor with Convergent Facilitation skills
- Smart Contracts
- Robots



CALCULEMUS: Towards a Formal Language for the Interpretation of Normative Systems

Robert van Doesburg and Tijs van der Storm and Tom van Engers¹

Abstract. In this paper we will introduce a method for creating computational models of normative systems deduced from sources of norms in natural language.

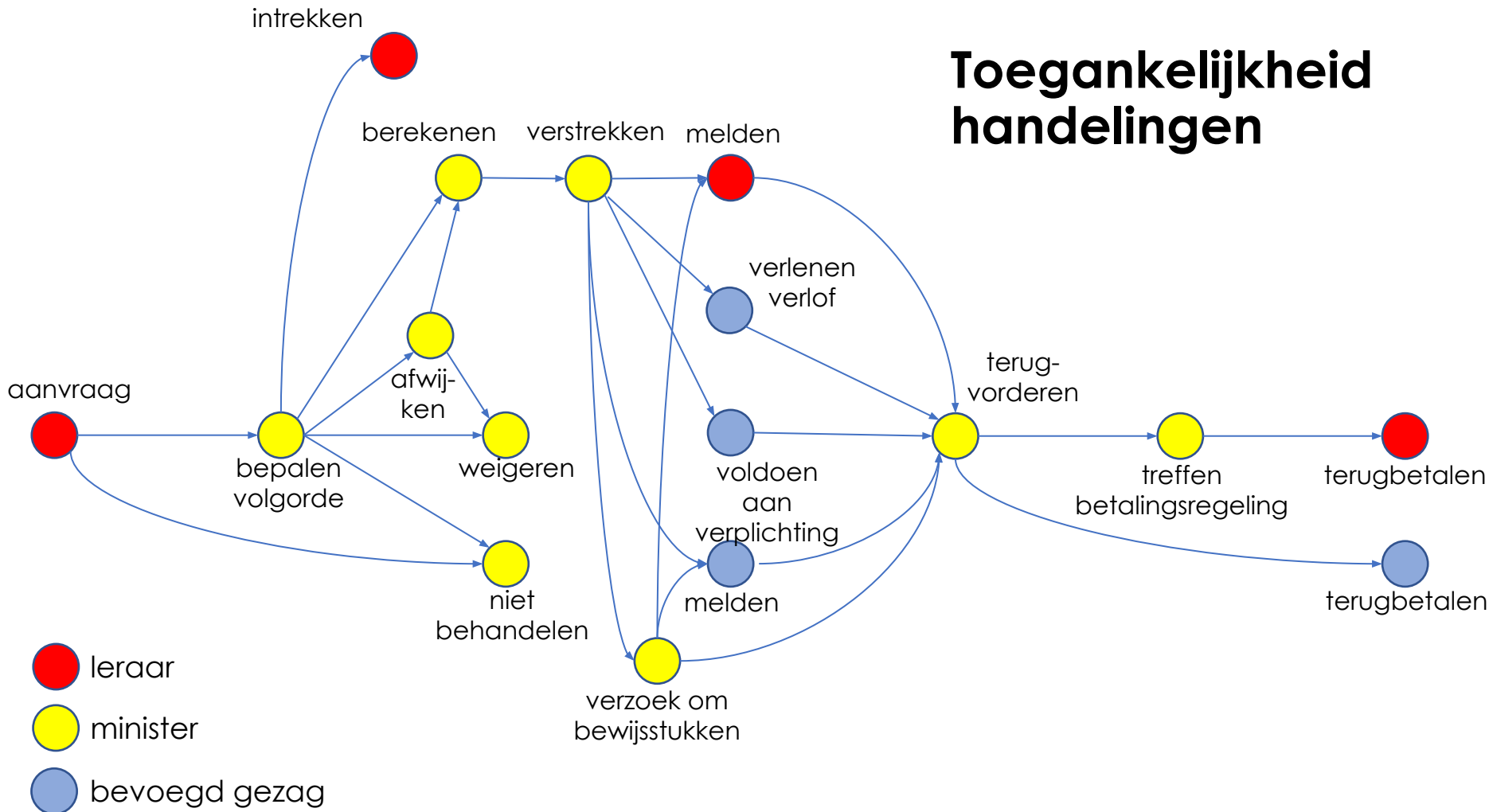
The authors show how to make formal interpretations of normative sources in natural language that result in a computational model, which includes explicit references to all sentences of sources of norms that are considered relevant by the interpreters to constitute a computational model. The models produced can easily be held in sync with these sources.

The method presented is focused on the translation of laws in natural language into an executable computational form that can be easily validated by legal experts that have to decide on the desired interpretation of the source text. The model is tested in a prototype of a reasoner build in a newly developed domain specific language: FLINT. The model is based on Hohfeld's fundamental legal concepts.

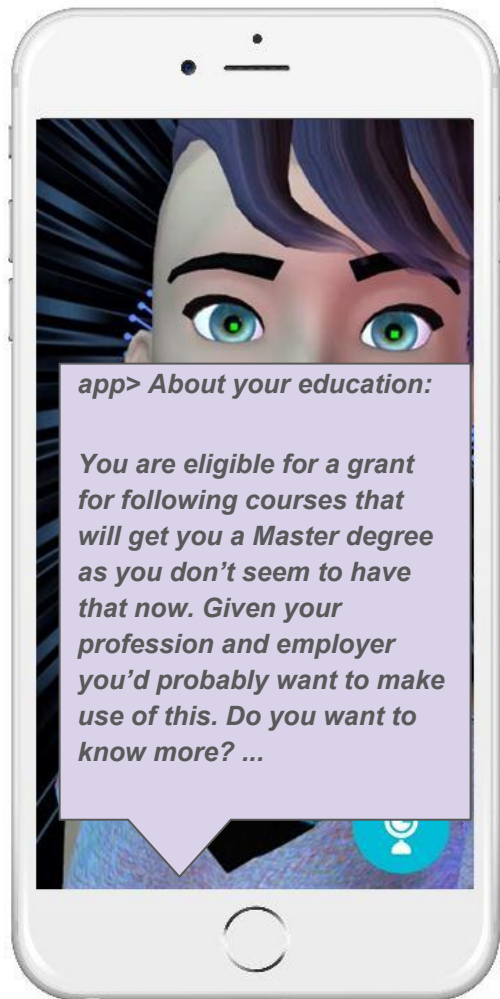
In the early nineties and the first decade of the twenty-first century solutions for this problem were presented [1][16][17], but none of these methods are presently being used on production scale within governmental organizations or industries. In this paper we will shortly describe the difference between our approach and early work. An elaborated overview of the various earlier approaches and the relation to our work will be published as a separate paper, this paper is too short for that exposé.

In this paper we present our approach, called CALCULEMUS, after the ideas of Leibniz who was the first that aimed at solving legal problems by means of calculation. We will demonstrate how it can be applied on actual legal sources with an example from Dutch Immigration Law. The resulting model is expressed in a domain specific language (DSL), FLINT (Formal Language for the Interpretation of Normative Theories). This DSL is specific in so far that it is targeted towards the specific way we express norms. We will illustrate this by giving an example of FLINT expressions.

Toegankelijkheid handelingen

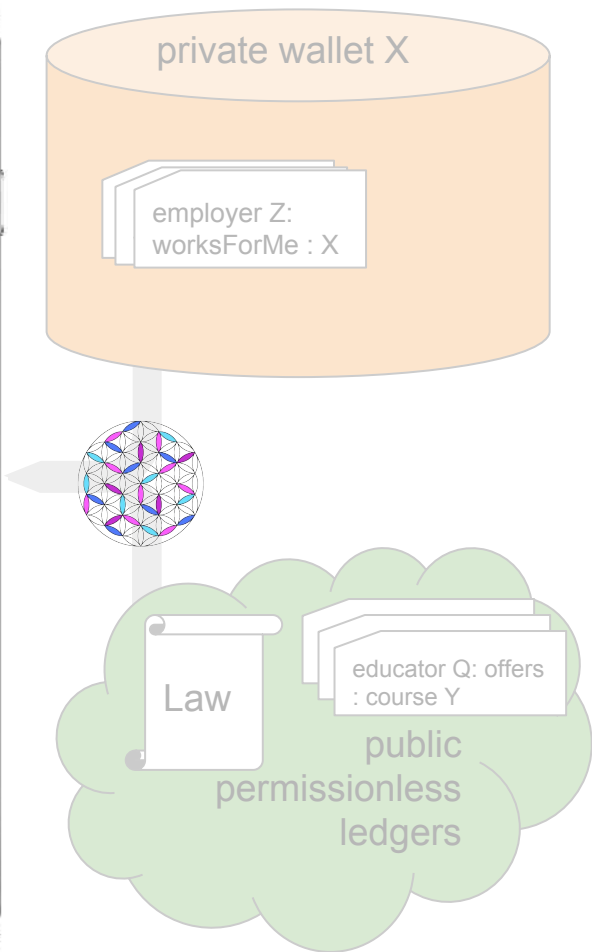


Platform agnostic AI Advisors

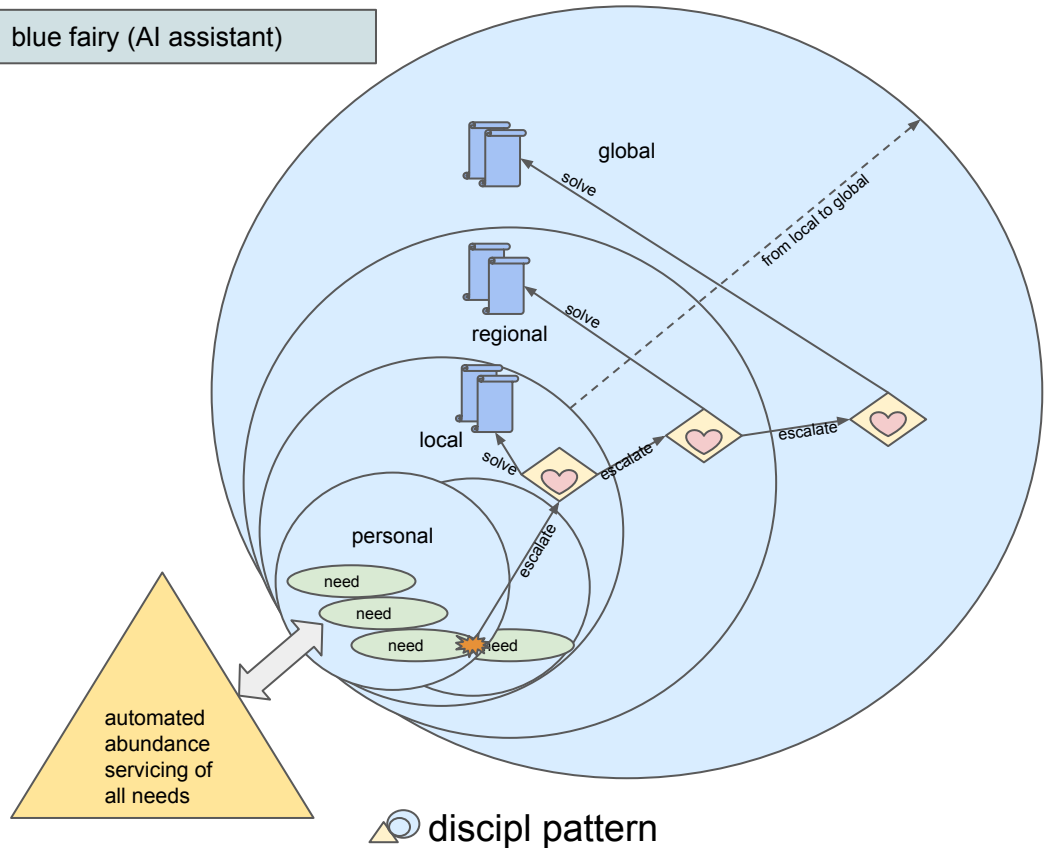
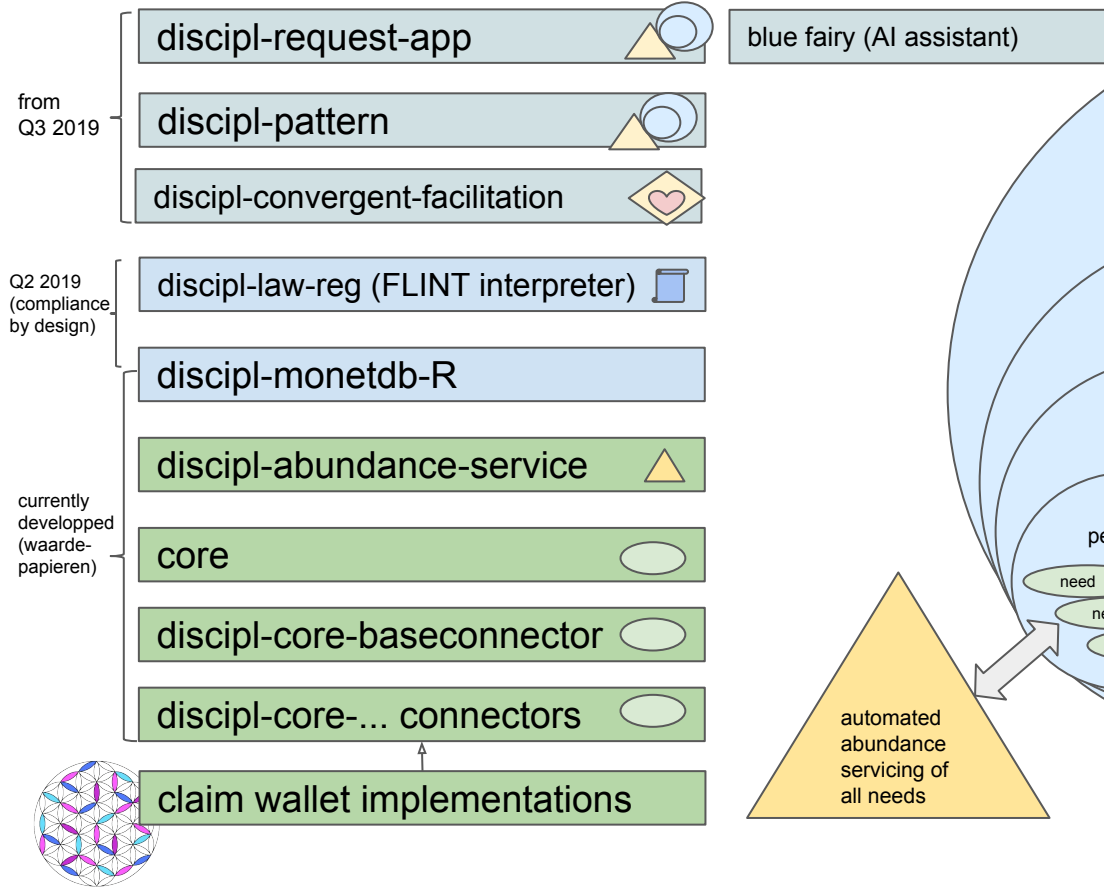


app> About your education:

You are 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? ...



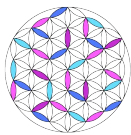
Discipl software stack (with implementation status / roadmap Q1 2019)



Discipl core

A client side ES6 library that implements the following API:

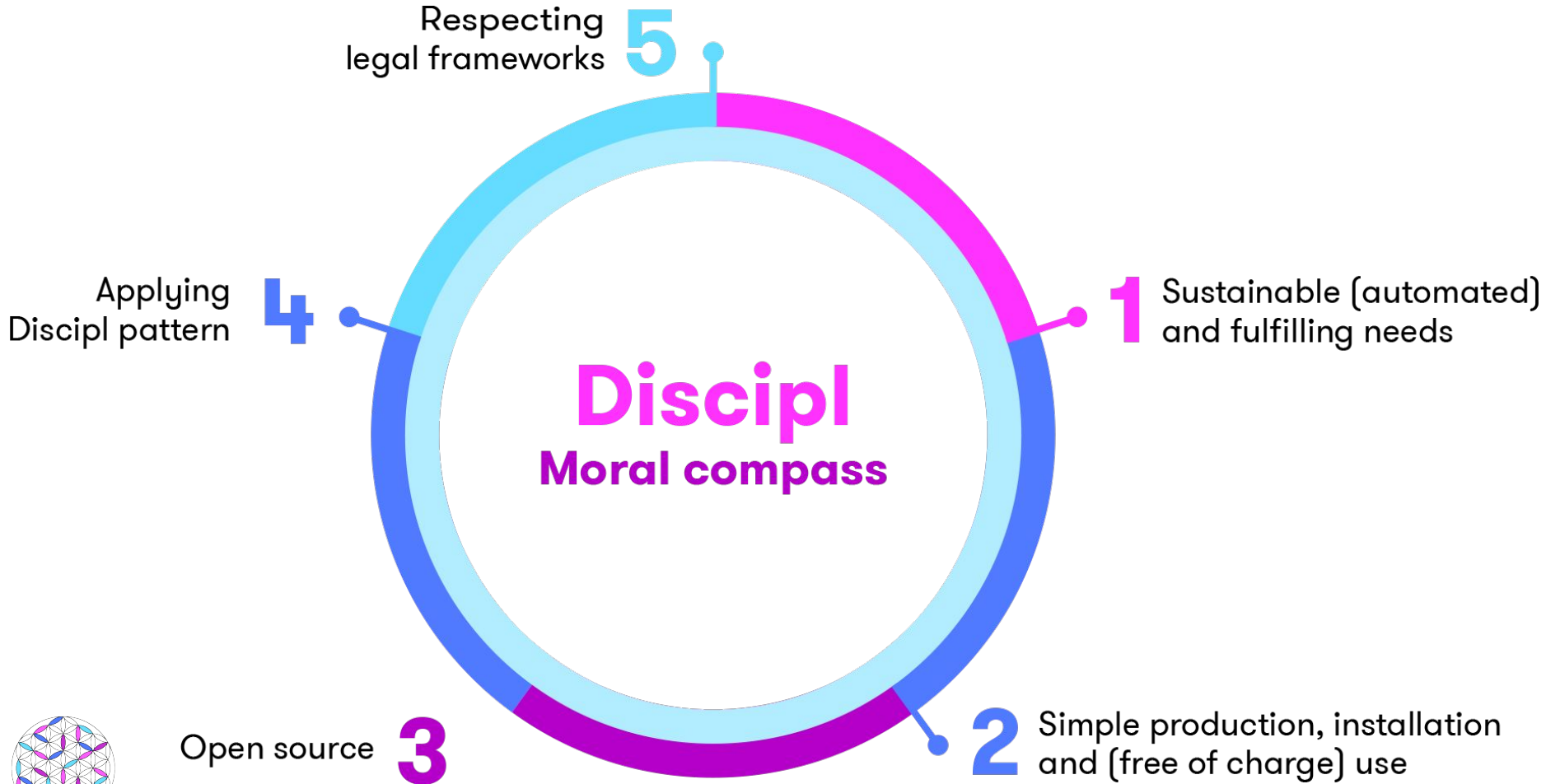
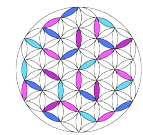
- `newSsid` : locally create a new ssid; a public, private keypair for a given platform
- `claim` : store a linked data claim in the channel of a ssid, get a link in return
- `attest` : claim something about another claim (given a certain claim link)
- `get` : retrieve a linked data claim given a link
- `revoke` : claim a claim-revocation
- `validate` : validate a (non-revoked) claim to have been attested
- `importLD` : import linked data claims (over multiple channels/platforms)
- `exportLD` : export linked data claims (over multiple channels/platforms)
- `observe` : let's you observe creation of certain claims on a given platform
- `allow` : claim read access rights to the owned channel for a given other ssid



Wat heb je nodig?

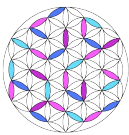
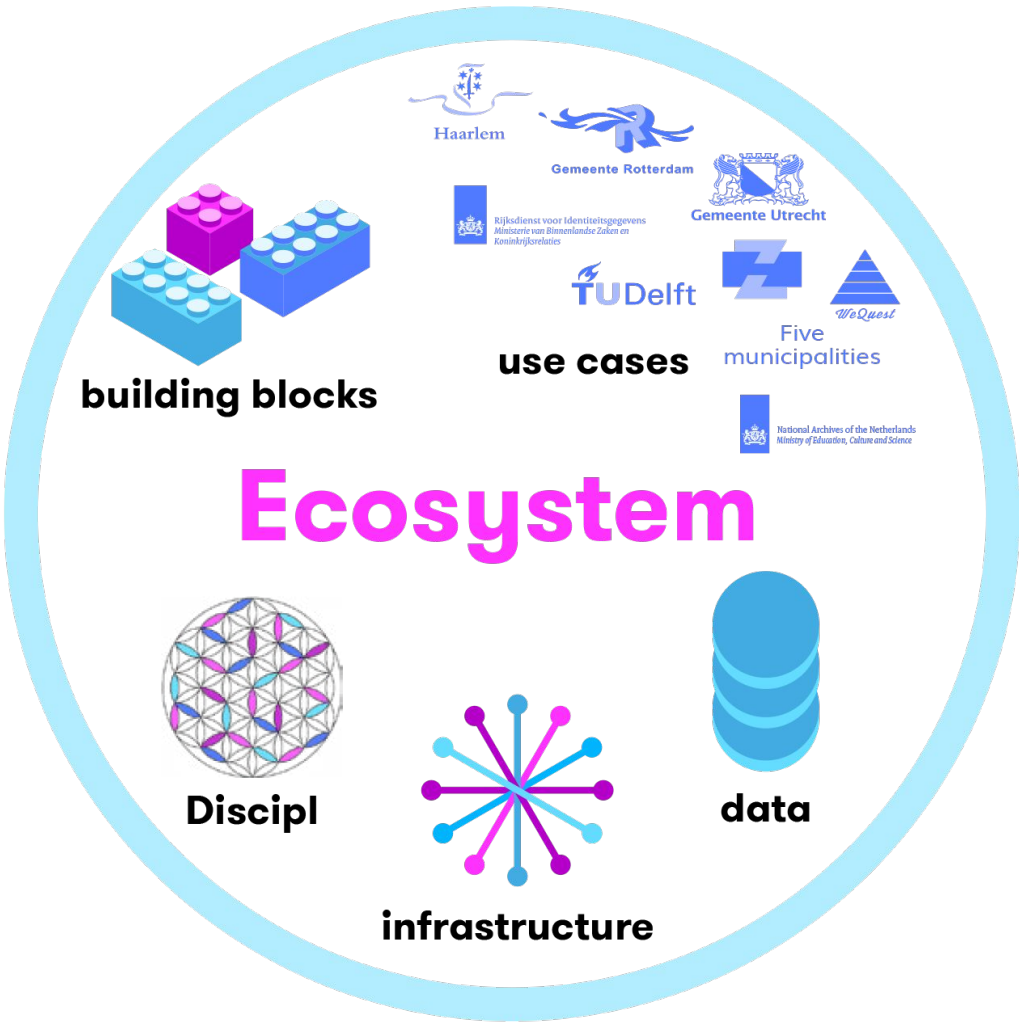
Ik zoek hulp bij financiering mantelzorg. Of iets anders. Maakt niet uit.
Vraag!

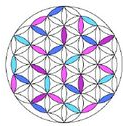
Help me





Tech Team





Discipl

Building a society that works for everyone

<http://discipl.org>

Repositories 57

People 44

Teams 7

Projects 0

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Customize pinned repositories

core

Discipl Core

JavaScript ★ 8 4

field-work

waardepapieren

project for consortium of municipalities digitizing PoE services

CSS ★ 2

Find a repository...

Type: **All** ▾

Language: **All** ▾

New

waardepapieren

project for consortium of municipalities digitizing PoE services

CSS ★ 2 GPL-3.0 Updated 20 hours ago



discipl-paper-wallet

library for creating paper wallets consisting of a QR holding an attested claim as a verifiable credential

JavaScript GPL-3.0 Updated 2 days ago

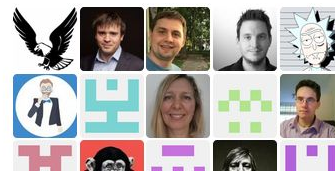


Top languages

JavaScript TypeScript HTML
 Ruby Java

People

44 >



File Edit View Search Terminal Help

datafluisteraar@HP-EliteBook-Folio-1040-G3:~/Code/waardepapieren\$ npm search discipl

NAME	DESCRIPTION	AUTHOR	DATE	VERSION	KEYWORDS
@discipl/core-baseconnect	Discipl Core...	=bkaptijn...	2019-03-06	0.2.0	
@discipl/core-nlx	Discipl Core NLX...	=bkaptijn...	2019-03-06	0.2.0	
@discipl/core-ephemeral	Discipl Core...	=bkaptijn...	2019-03-06	0.4.0	
@discipl/paper-wallet	library for...	=bkaptijn...	2019-03-14	0.3.0	
@discipl/abundance-service	API for expressing...	=bkaptijn...	2019-03-14	0.3.0	
discipl-core	Discipl Core API	=bkaptijn	2018-05-23	0.3.3	
@shieldsbetter/sejr	Disciplined...	=shieldsbetter	2018-12-27	0.0.4	json seriali
fbi-intelligence-disciplines	Intelligence...	=zeke	2016-02-08	1.0.0	FBI data GIS
node-overwatch-discipline-tracker	Overwatch League...	=shaunidiot	2018-12-28	0.1.0	
@discipl/core-untegrity	Discipl Core API Discipline videos...	=bkaptijn... =l1lith	2019-03-06 2018-12-14	0.7.0 1.0.7	video integ
notas-universitarias-util-discipline	Biblioteca para... Validates object...	=hugo... =gausby	2017-03-07 2013-11-21	0.0.1 0.0.2	nota materia input object
ufrgs-vagas-hodlog	Efetua o parsing da... Multi-disciplinary...	=franciscokneb... =dgieselaar...	2019-02-19 2017-07-04	1.0.3 0.4.1	ufrgs parser
iscoolparser_fga	A parser for...	=lucaslrt	2017-06-24	1.0.0	
disciplina-demo-api	Демо апи для UI...	=evgeniylukash...	2017-04-14	1.0.19	
ljesp-discipline	A simple...	=lje	2019-01-31	1.0.0	

Components/tooling choices #12

[Edit](#)[New issue](#)[Open](#) pimotte opened this issue on Dec 14, 2018 · 14 comments<https://github.com/discipl/core/issues/12>

pimotte commented on Dec 14, 2018 · edited ▾

Member + 🗨️ ⋮

This is a non-exhaustive list of components and tooling we could use to improve maintainability and sustainability of discipl libraries, organized per topic in suggested rough order of priority. Feel free to edit this post/add remarks in comments.

Libraries and Applications:

- Test framework (#13, #14)
- Continuous Integration (#9)
- Style guide (and linter) (#16)
- Documentation (#21)
- Code coverage (#17)
- Badges
- Quality Gate (a19e428 , #19)
- Publishing to npm (and using semver)
- Contributor Guidelines

Applications:

- i18n
- Containerization
- end-to-end tests

Test Framework

Possibilities:

- Jasmine
- Mocha+Chai

In both cases Karma is the de-facto test runner used by many projects.

Assignees



No one—assign yourself

Labels



None yet

Projects



None yet

Milestone



No milestone

Notifications

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3 participants

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✓ **v0.7.0** Merge pull request #36 from discipl/refactor/dids-to-basecor #119 passed

Propagating the refactoring of did logic to core Ran for 1 min 44 sec

27 10 days ago

Commit 06a168e [↗](#)

Compare v0.7.0 [↗](#)

Tag v0.7.0 [↗](#)

bkaptijn

`</> Node.js: lts/*`

Job log

View config

Raw log

```
▶ 1 Worker information worker_info
▶ 6 Build system information system_info
413
414
▶ 415 $ git clone --depth=50 --branch=v0.7.0 https://github.com/discipl/core.git discipl/core git.checkout 0.72s
430
431
432 Setting environment variables from repository settings
433 $ export SONAR_TOKEN=[secure]
434
▶ 435 $ nvm install lts/* nvm.install 3.45s
441
442 $ node --version
v10.15.0
110 v10.15.0
```

Top

As a potential new developer I want a documented build process ... #3

[Edit](#)[New issue](#)

[Open](#) pimotte opened this issue on Jan 9 · 0 comments



pimotte commented on Jan 9

Member



... such that I can get up to speed easily.

Acceptance criteria

- Build process is documented in CONTRIBUTING.md

Definition of ready

- Acceptance criteria have been formulated
- Everyone on the team understands the story
- Desired functionality is clear and described
- Is small enough (at most 1/3 of sprint)
- The method of demonstration should be clear
- User story has been analyzed (with architecture, data model and technical decisions)
- Recorded in GitHub and moved to Ready column

Definition of done

- Story satisfies acceptance criteria
- Implementation of story has been code reviewed
- Story has been automatically tested
- Story can be demonstrated using code on master branch
- Story has technical documentation
- Relevant functionality has been described in implementation guide
- Story implementation has been checked against non-functional requirements (e.g. security)
- Story implementation has been checked against architectural principles

Assignees



No one—assign yourself

Labels



None yet

Projects



 Backlog in Waardepapieren 2019

Milestone



No milestone

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1 participant



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 [Transfer issue](#) [Beta](#)

As discipl developer I want an initial architecture to have been documented conform ICTU standards in a lean way

Edit New issue

#1

Open bkaptijn opened this issue on Jan 9 · 0 comments



bkaptijn commented on Jan 9 • edited

Member + 🗨️ ⋮

... such that we can check stories against irt Definition of Ready and Done.

Acceptance criteria

- a Solution Architecture conform ISO 42010 with a NORA five layer model exists
- for software components a Software Architecture conform ISO 42010 following a Kruchten 4+1 or Rozanski/Woods (viewpoints and perspectives) model exists
- NFR's are documented conform ISO 25010
- Architecture is documented in a lean way

Assignees

bkaptijn

Labels

None yet

Projects

In progress in Waardepapieren 2019

Milestone

No milestone

Notifications

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1 participant



bkaptijn changed the title ~~As developer I want [functionality]...~~ **As discipl developer I want an initial architecture to have been documented conform ICTU standards in a lean way** on Jan 9

bkaptijn added this to **In sprint** in **Waardepapieren 2019** on Jan 9

bkaptijn moved this from **In sprint** to **In progress** in **Waardepapieren 2019** on Jan 29

bkaptijn self-assigned this on Jan 29

{GET INVOLVED}