



INFORMATIE VLAANDEREN



OASC Minimal Interoperability Mechanisms (MIMs):

Personal Data Management (MIM4) applied to Solid

OASC | Ruben Verborgh and Raf Buyle











- 1. Challenges for public administrations
- 2. Solid: the user in control & decentralisation
- 3. Reference case Flanders: Solid & My Citizens profile
- 4. Solid en OASC MIM4



CHALLENGES FOR PUBLIC ADMINISTRATIONS

- Government administrations struggle to keep personal data of citizens up to date.
- Empower citizens to reuse their data stored in government information systems in a different context







CHALLENGES FOR PUBLIC ADMINISTRATIONS

General Data Protection Regulation (GDPR)

(European Commission, 2016, Article 43).

 The relationship between a government and a citizen is considered as an imbalanced relationship.

"In order to ensure that consent is freely given, consent should not provide a valid legal ground for the processing of personal data in a specific case where there is a clear imbalance between the data subject and the controller, in particular where the controller is a public authority and it is therefore unlikely that consent was freely given in all the circumstances of that specific situation."





MyData declaration

...to empower individuals with their personal data, thus helping them and their communities develop knowledge, make informed decisions, and interact more consciously and efficiently with each other as well as with organisations.



People choose where they store every single piece of data they produce

Author's name and latest profile picture stored in author's personal data pod

Work-related opinion about an article stored in data pod of author's company

Discussed article title and photo stored in news website's data pod

Likes on this post each one in different individuals' data pods

Comments on this post each one in different individuals' data pods



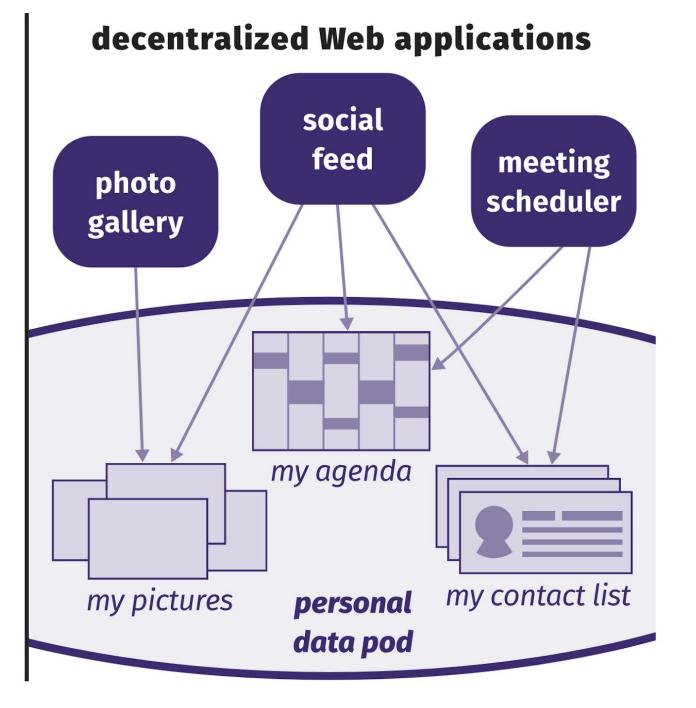


They can grant apps and people access to very specific parts of their data

centralized Web applications









Separating app and storage competition drives permissionless innovation

single market for centralized apps

Linkedin data+service

competition based on data ownership

Facebook data+service

Twitter data+service

innovative competitor

trouble entering market because of lack of data

separate data and app markets

social feed X

competition based on service quality

social feed Z

compatible with any data pod

social feed Y

app market

data market

data pod unlimited storage

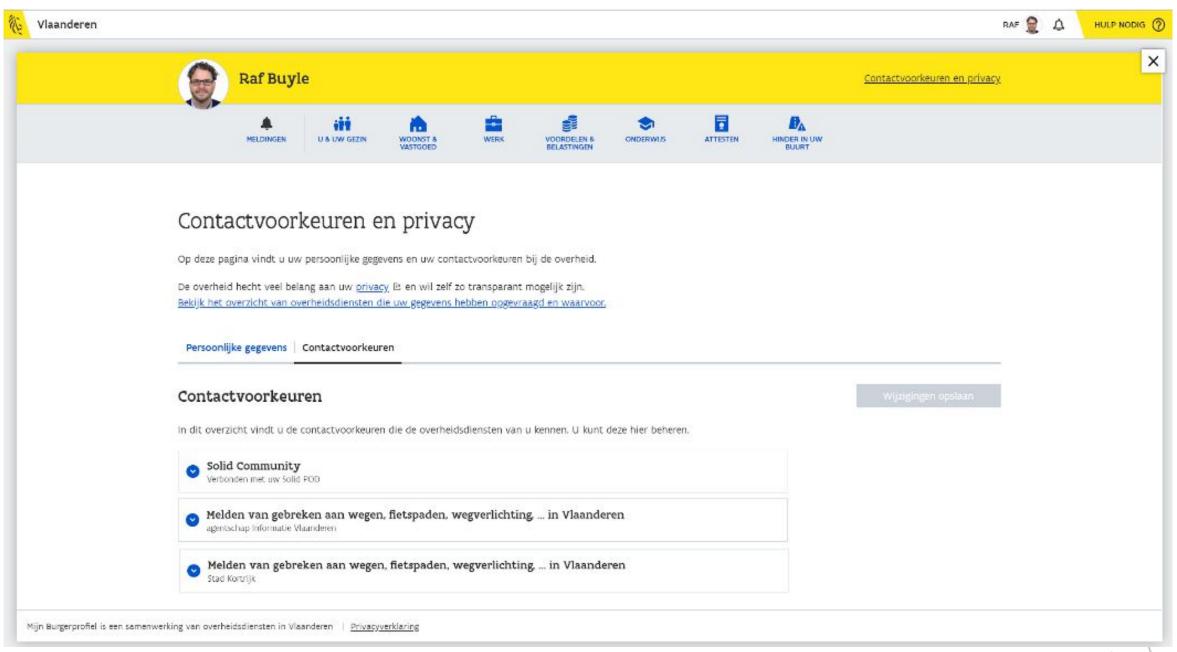
competition based on service quality

data pod secure backups





CITIZENS SHARE THEIR DATA WITH GOVERNMENT ADMINISTRATIONS

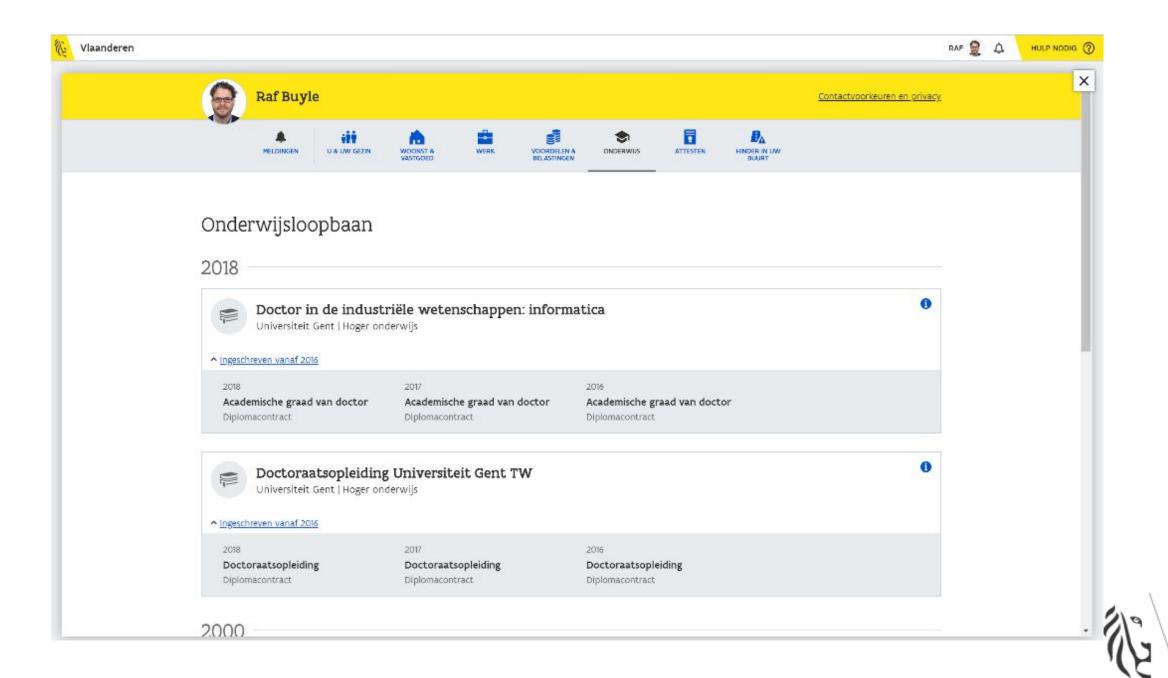






CITIZENS REUSE THEIR DATA STORED IN GOVERNMENT INFORMATION SYSTEMS

The data subject becomes the controller of the data.

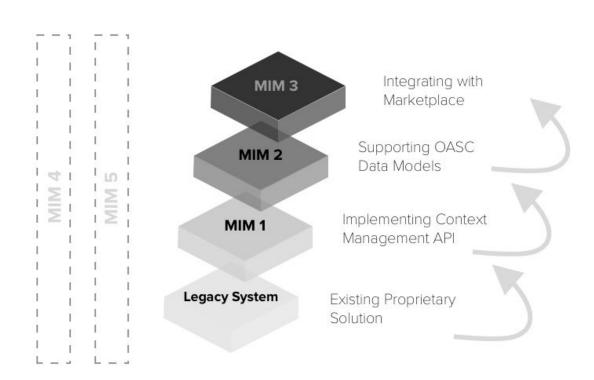




RAISING INTEROPERABILITY

MIM applied to Solid

Minimal Interoperability Mechanisms (MIMs)



MIM 1:

Context Information Management

MIM 2:

Common Data Models

MIM 3:

Ecosystem Transactions Management

MIM 4: Proposed by Helsinki Personal Data Management

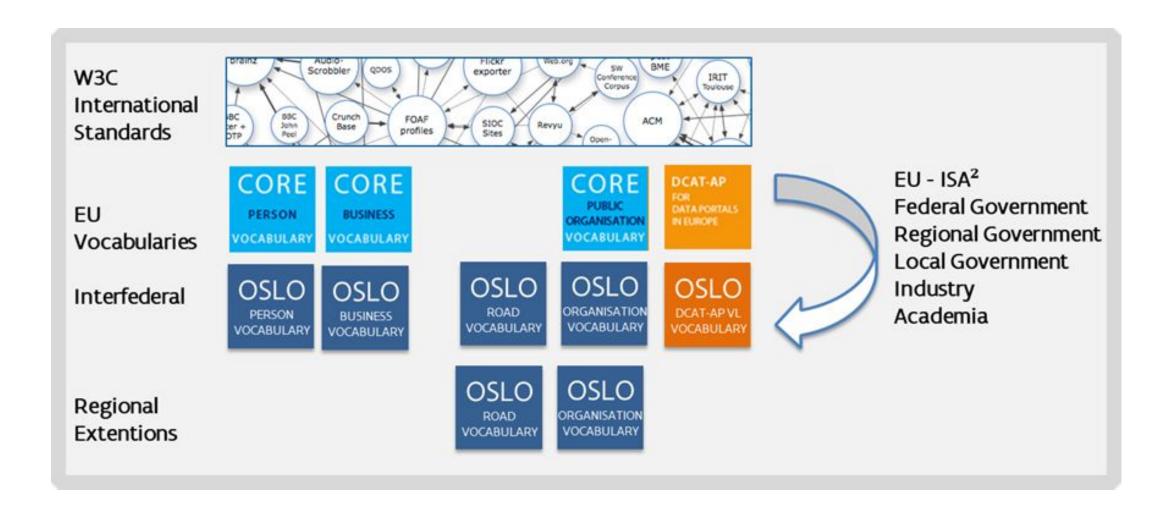
MIM 5: Proposed by Amsterdam Fair Artificial Intelligence





THE INTERFEDERAL INTEROPERABILITY PROGRAMME

It's about 'reuse of context neutral vocabularies'



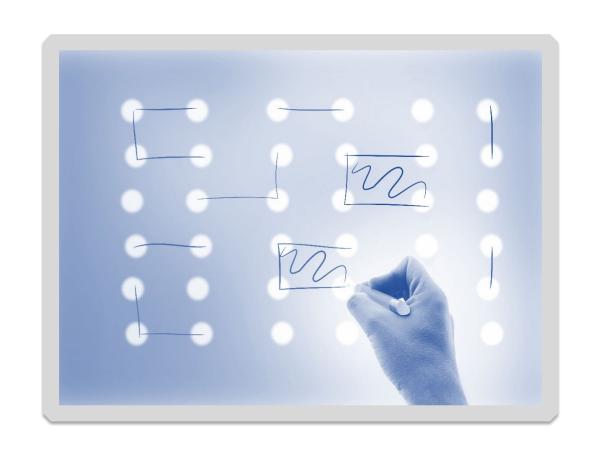




TAKEAWAYS

The MyData principles bring process innovation, which Solid puts into action with concrete technology.

Working integration of the Flemish Citizens Profile



Interoperability-first strategy (MIM).





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Are you interested in Solid? We are looking for partners to do further research!



