Personalized and privacy-aware route planning with Solid

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Ghent University - Internet & Data Lab - imec

W3C Workshop on Data models for Transportation

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What do we need to create a personalized route planning experience?

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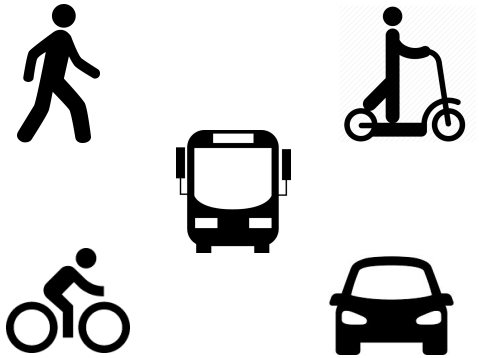
We need data about mobility…



Preferences

Subscriptions

Requirements

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How can these data be shared and consumed with privacy in mind?

Solid (Social Linked Data)

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The Solid ecosystem enables you to use the apps you need, while storing your data wherever you want.

***You own your data**, and share it with the apps and people you choose.*

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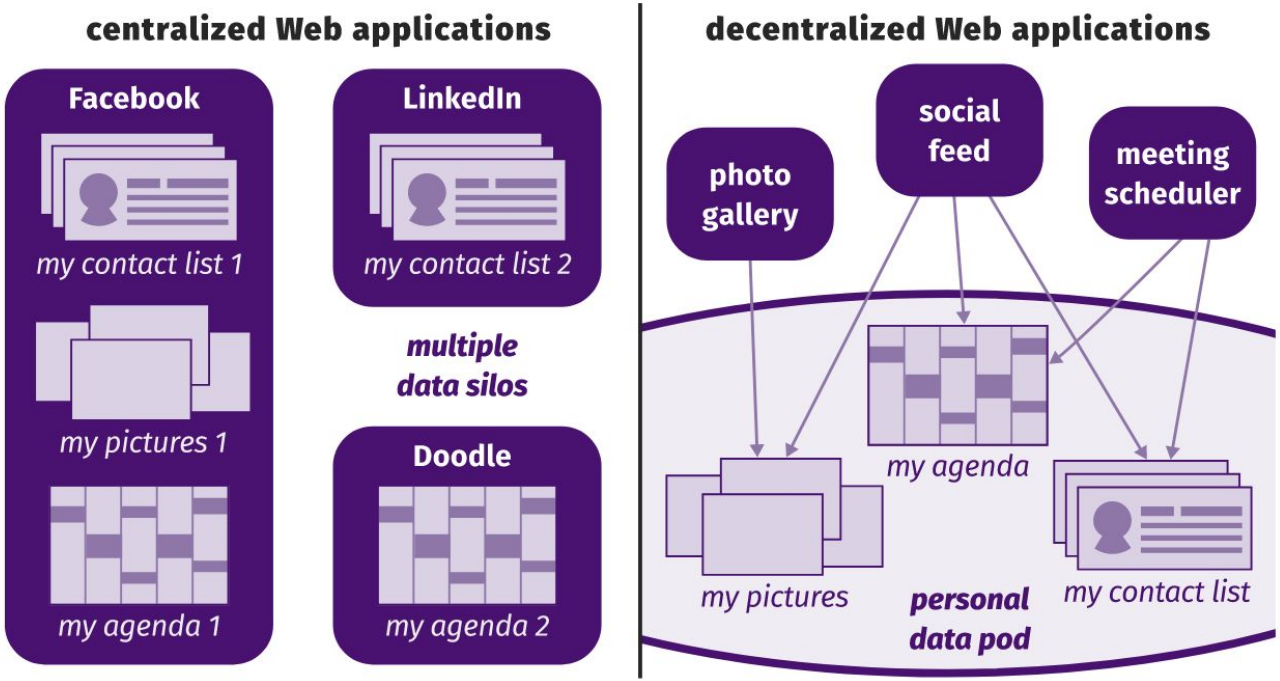
Solid is about data decentralization



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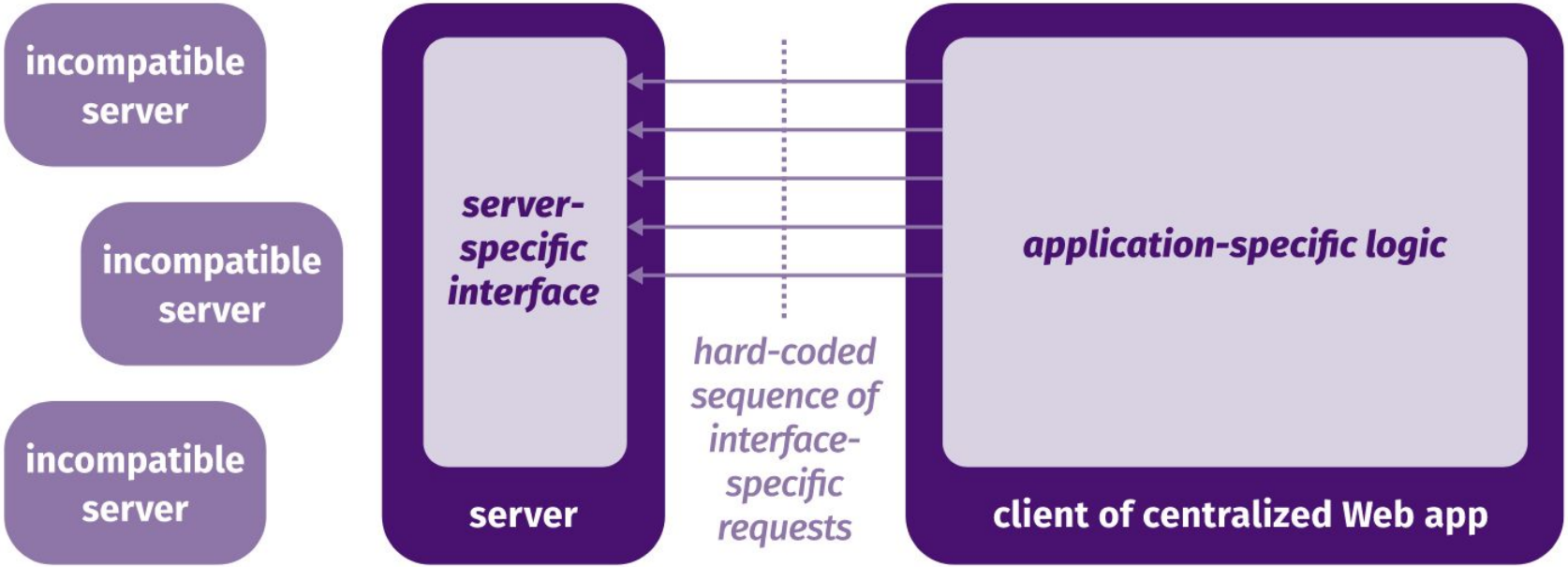
The traditional way of building apps does not work well with decentralization



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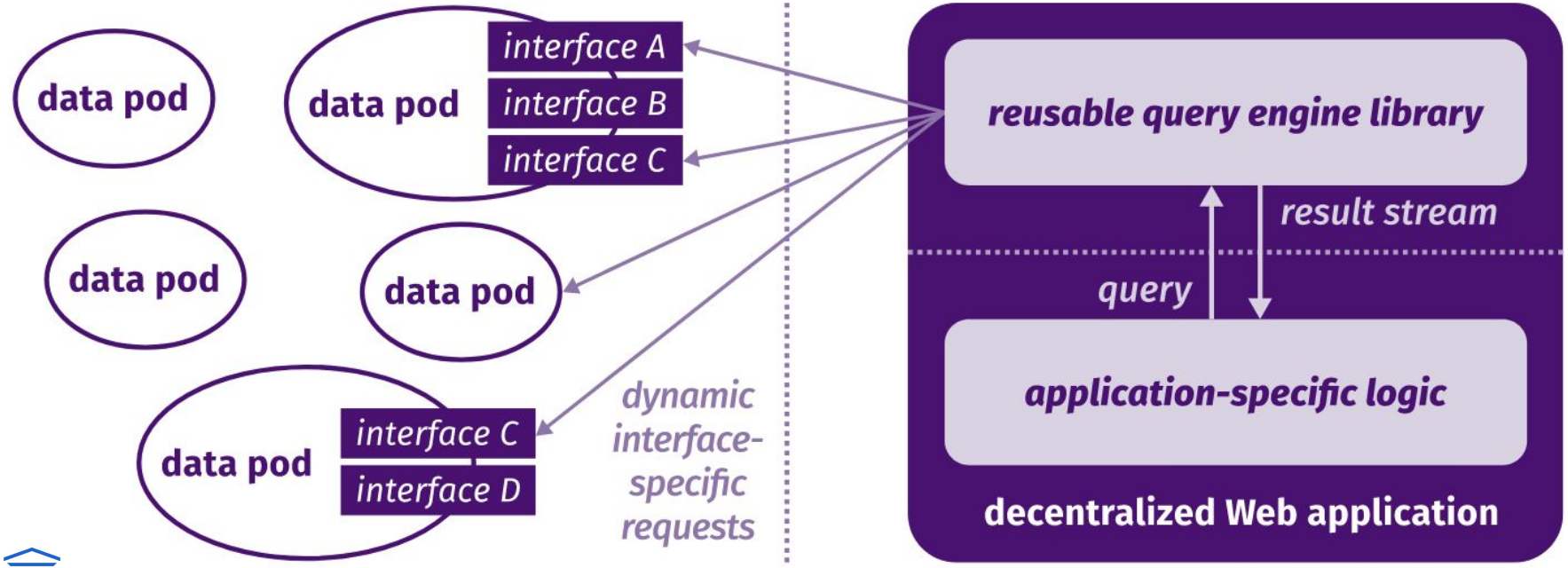
Decentralized apps require ubiquitous data access



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Solid defines a standard-based architecture to enable ubiquitous data access

- Data representation - **RDF**
- Universal identifiers - **WebID**
- Security and authentication - **WebID-TLS**
- Data access interfaces - **Linked Data Platform**

See Solid spec for more information: https://github.com/solid/solid#standards-used

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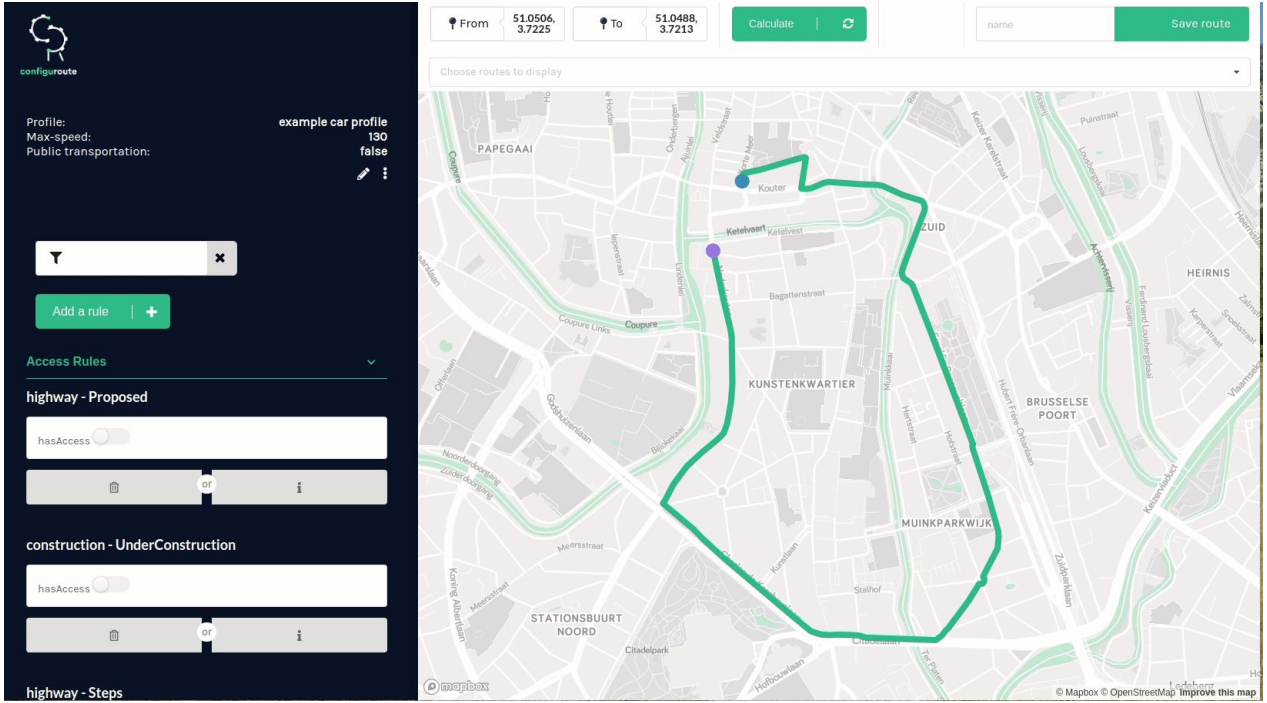
A first attempt on route planning with decentralized mobility profiles - http://configuroute.be/



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We are teaming up with De Lijn to build personalized and privacy-aware route planning applications

IDLab
INTERNET & DATA LAB

DE LIJN

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Solid provides the framework for creating decentralized and privacy-aware route planning applications

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Yet standardized ways to model and describe personal mobility are still needed

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Personalized and privacy-aware route planning with Solid

Thank you!

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