Ruben D'Hauwers

Willingness to grant data control in a Solid mobility ecosystem

Ruben D'Hauwers









Gefinancierd door de Europese Unie

Barriers Organisations Solid Adoption

UNSURE VALUE

1. Uncertain **Return SOLID**: revenue models & SOLID adoption

3. Unsure access to data: Willingness to share of users (3.1)/ data providers (3.2)

UNCERTAIN COST and RISK

2. Unsure **IT investment cost:** technology maturity

4. Data-as-an-asset: data security and data asset control

COMPANY INVESTMENT DECISION SOLID



Research Question

- What are the **business dimensions** influencing data providers' willingness to grant access control to data subjects?
 - What are the **relative preferences of data providers** for this decision in a mobility personal data ecosystem?
 - How can these insights be applied to inform MAAS and C-ITS use case data ecosystem setups?



METHODOLOGY

Exploratory interviews in the Solid Ecosystem Flanders



AHP analysis in Solid Mobility Profile experiment

Determine business dimensions in Solid Ecosystem Flanders

- 25 interviews in the Solid ecosystem in Flanders, Belgium
- Axial coding of interviews

Pairwise comparison to identify preferences of data providers



Expert workshop on three Solid Mobility Profile ecosystem setups

- Pairwise AHP comparison of dimensions
- Telephone interviews with 21 data and mobility experts

- Solid Mobility workshop with 7 experts
- Assess utility value of 3 use cases in MAAS and C-ITS ecosystem setups



Business (sub)Dimensions Granting Data Control





SOLID MOBILITY PROFILE





STATIC PREFERENCES (dimensions)

VALUE Value Creation 25,96%

Value Capturing 22% CONTROL

Level of Data Competitiveness 20%

Actor Relationship 17,87%

> Privacy Risk 14%



STATIC PREFERENCES (subdimensions)

VALUE 48%

Value Capturing 22,37%

End-User Value 14,8%

Ecosystem Value 11,15%

CONTROL 52%

Coreness Data 14,05%

Privacy Risk 13,98%

Level of Competition 9,49%

Level of Collaboration 8,18%

Level of Processing 5,98%



STATIC PREFERENCES (sector difference)





MAAS Sample : 12 respondents, Consistency Ratio 0,05 Traffic Data Sample : 5 respondents, Consistency Ratio 0,049 Automotive Sample : 3 respondents, Consistency Ratio 0,0,096

Orchestrator Strategies – Ecosystem set up

Dimension	Strategy	Weight
Value creation & Capturing	New revenue models Use Case development Enable reciprocity	48%
Level of data competitiveness	Trustworthy aggregators Shared control competitive data	20%
Actor Relationship	Determine which actors to include Ecosystem Collaboration Strategies Ecosystem agreements	18%
Privacy Risk	Decentralized and interoperable storage solutions	14%



Thank you Ruben.dhauwers@vub.be







DEPARTMENT OF ECONOMY SCIENCE & INNOVATION



Gefinancierd door de Europese Unie NextGenerationEU