



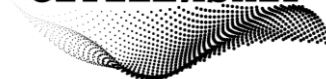
Finding blind spots

Investigating identity data matching in transnational commercialized security infrastructures and beyond

Public PhD Defence
Wouter R. Van Rossem

July 15, 2024,
University of Twente

PROCESSING
CITIZENSHIP



UNIVERSITY
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European Research Council
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MEET THE TEAM



**Wouter Van
Rossem**



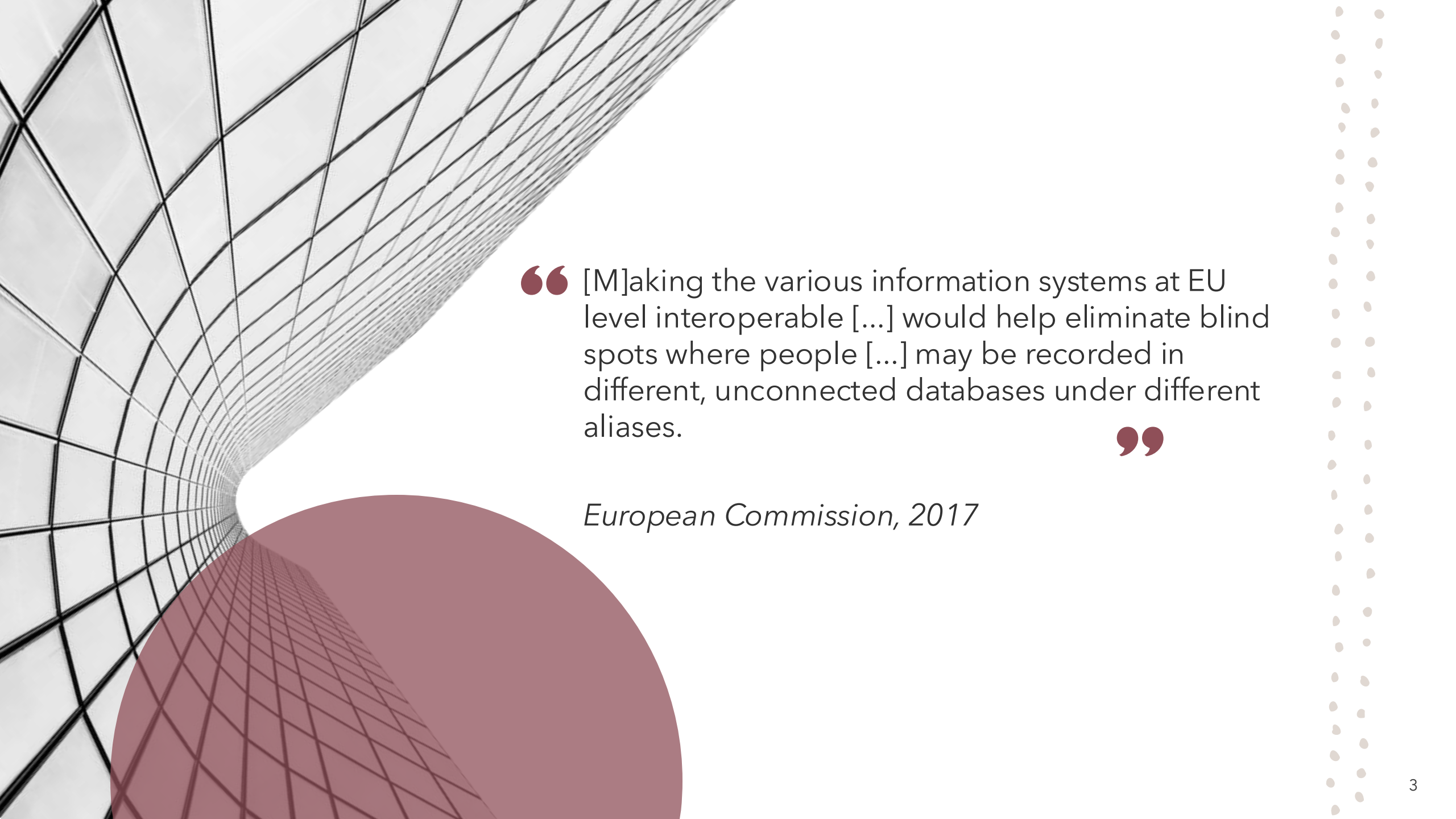
**Prof. Dr. Stefan
Kuhlmann**



**Prof. Dr. Annalisa
Pelizza**



**Prof. Dr. Ir.
Maurice van
Keulen**

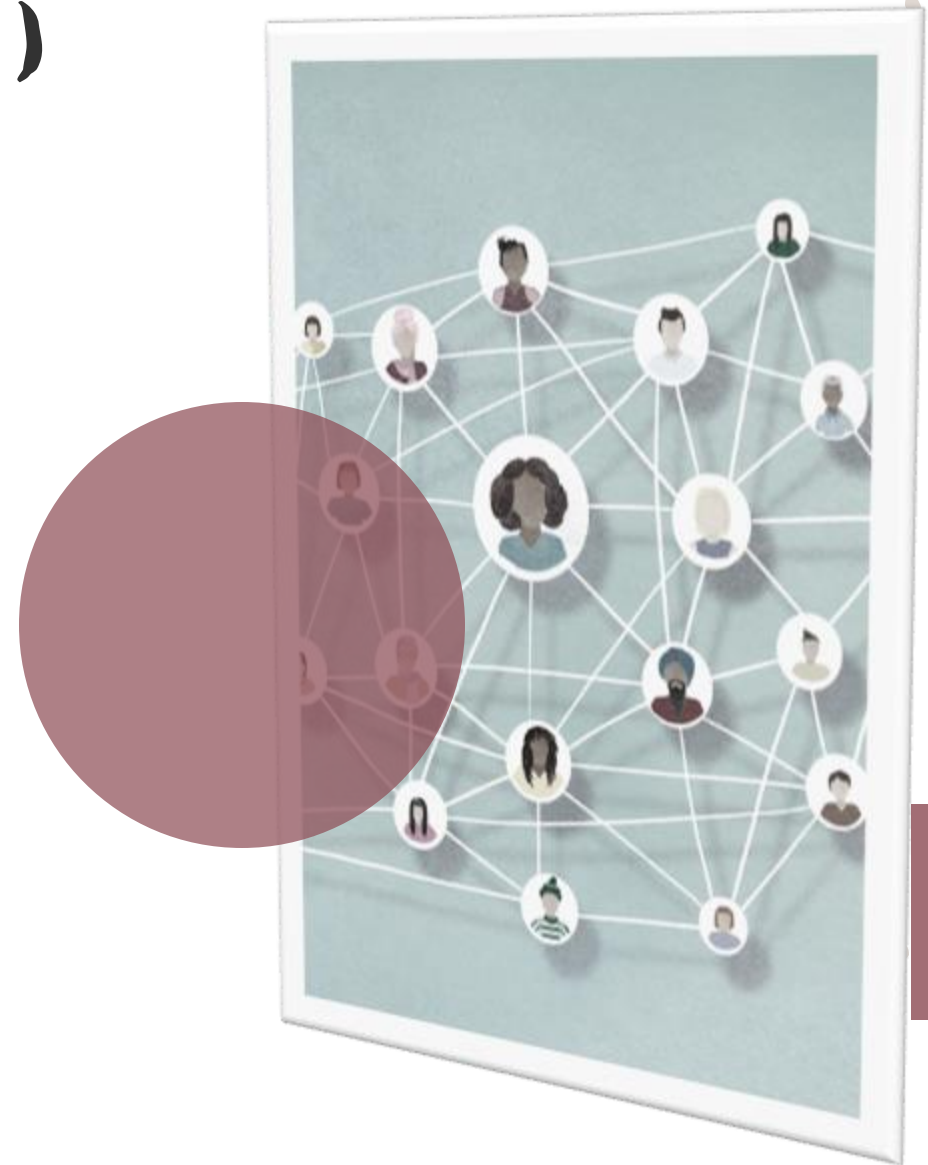


“ [M]aking the various information systems at EU level interoperable [...] would help eliminate blind spots where people [...] may be recorded in different, unconnected databases under different aliases. ”

European Commission, 2017

Matching identity data (names)

- Differences in naming practices
 - W.R. **v**an Rossem
 - Van Rossem Wouter Rudi
- Typos, variants
 - W.R. van Rossum
- Transliteration variants
 - Wouter ↔ 워우터 / 바우터 / ... ?
- Nicknames, changes in names, etc. Etc.



Key concepts



Internationalization



Commercialization



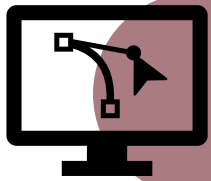
Securitization



Infrastructuring

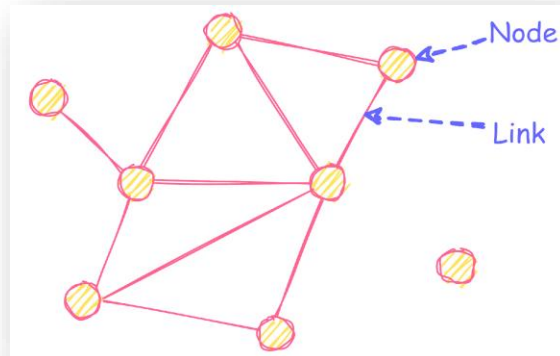
... of identification

Research methods



COMPARING DATA MODELS

New method & software

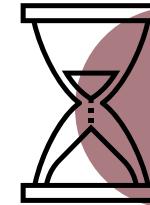


DATA MATCHING PRACTICES

Fieldwork, interviews, desk research



Immigratie- en Naturalisatiedienst
Ministerie van Justitie en Veiligheid



SOCIOTECHNICAL CHANGE



ONTOLOGY EXPLORER

- Method for making visible knowledge and expectations about people.
- Impacts on data matching across systems.



Re-identification



- Matching identity data across multiple databases repeatedly.
- Varying needs for applicant search and matching at IND.
- Re-identification can fail, causing duplicate records that need to be fixed.

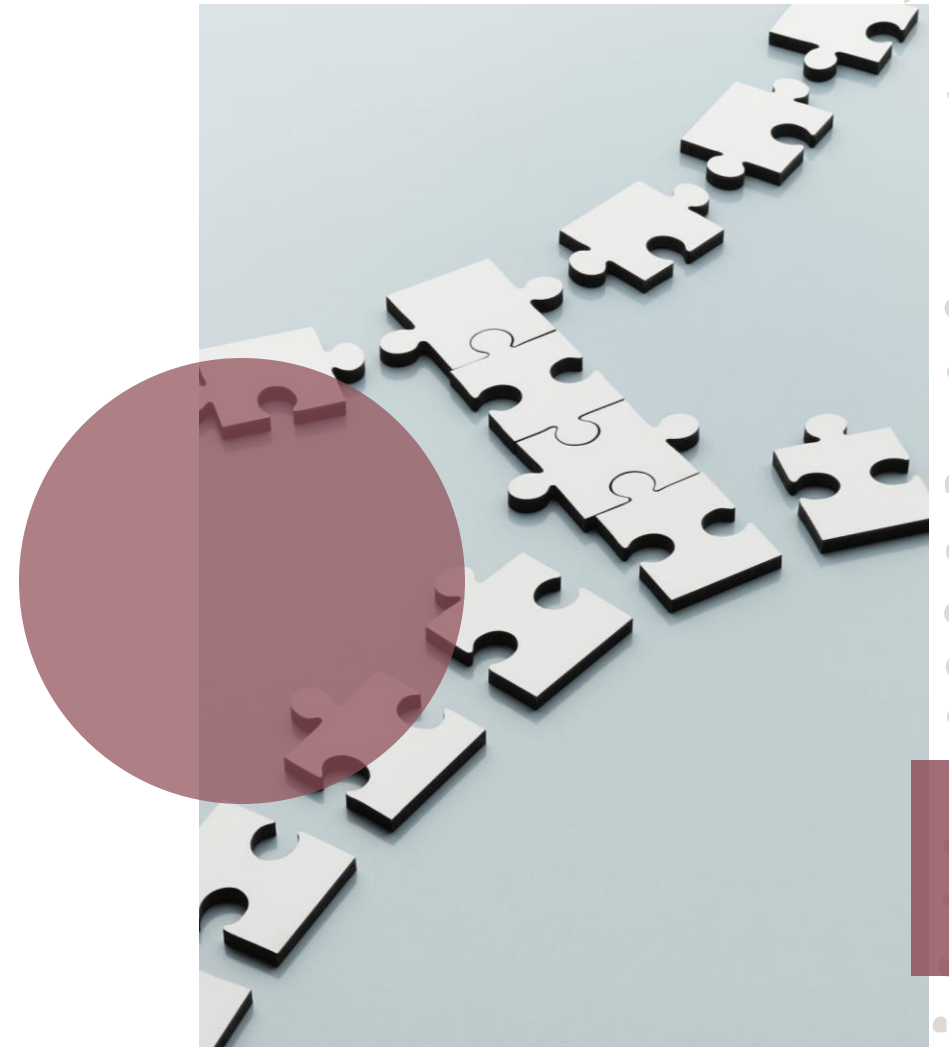
Sociotechnical change of WCC's ELISE system

System's flexibility for different data matching scenarios.

Shifts in identification problems and solutions (e.g., multicultural name matching, biometrics)

Challenges in data matching system integration (e.g., backwards compatibility)

Data matching knowledge transfer varies by context



IMPACT & CONCLUSIONS

- Data models reflect authorities and impact cross-system data matching.
- Integrating data matching systems can add complexity to searches.
- Complex histories of commercial identification systems can impact identification practices.





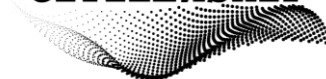
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