



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
OF TWENTE.



MEET THE TEAM



**Wouter Van
Rossem**



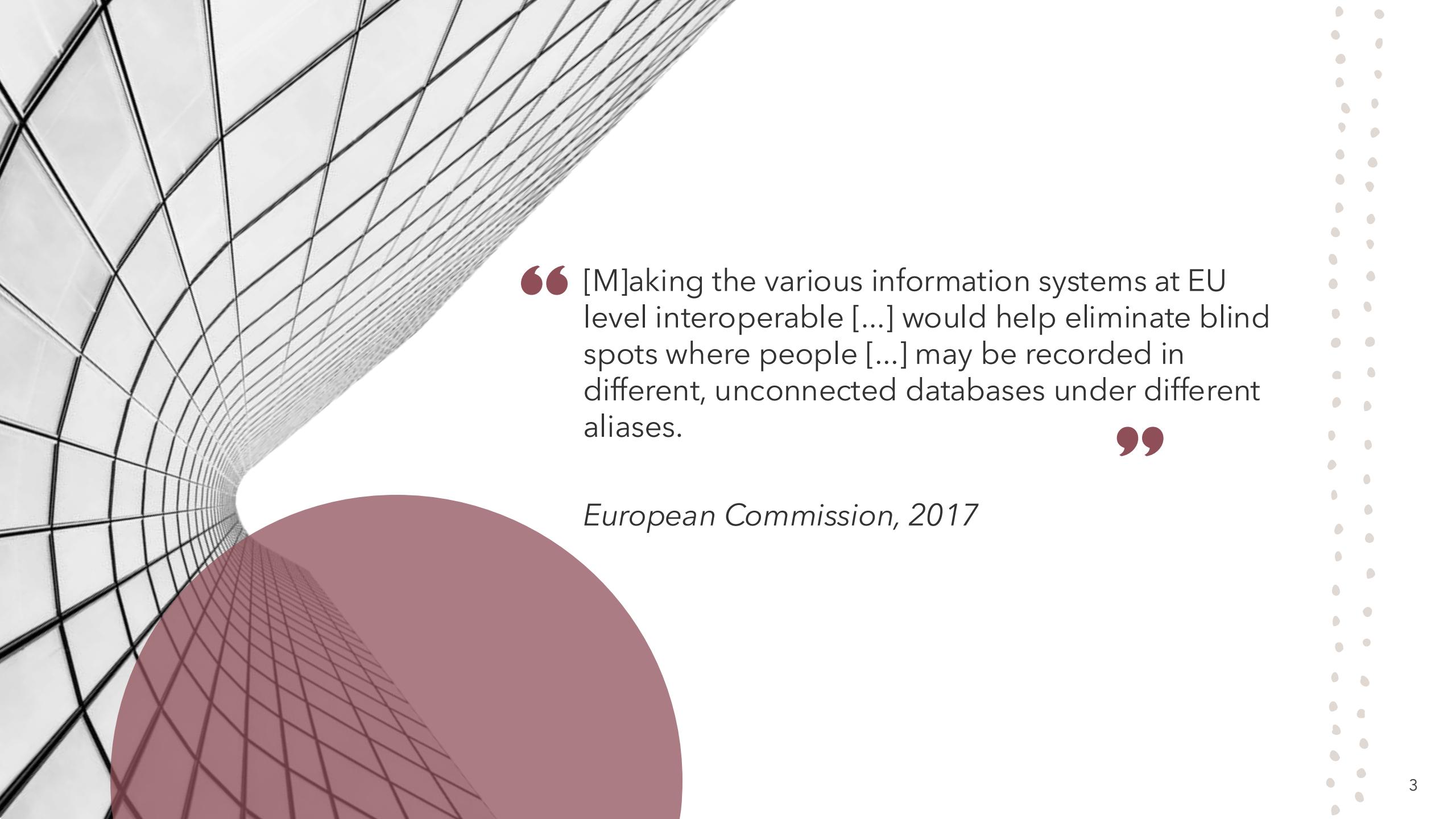
**Prof. Dr. Stefan
Kuhlmann**



**Prof. Dr. Annalisa
Pelizza**



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



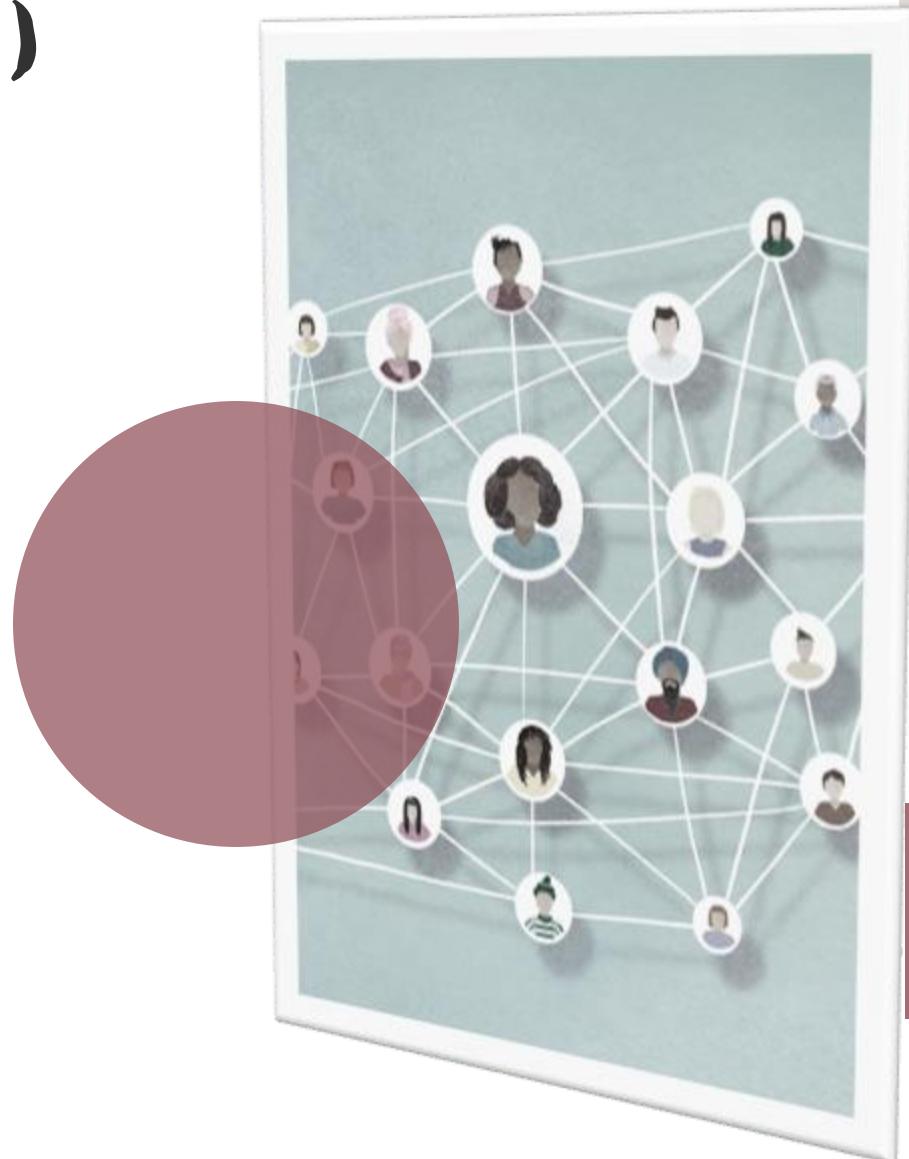
“ [M]aking the various information systems at EU level interoperable [...] would help eliminate blind spots where people [...] may be recorded in different, unconnected databases under different aliases.

”

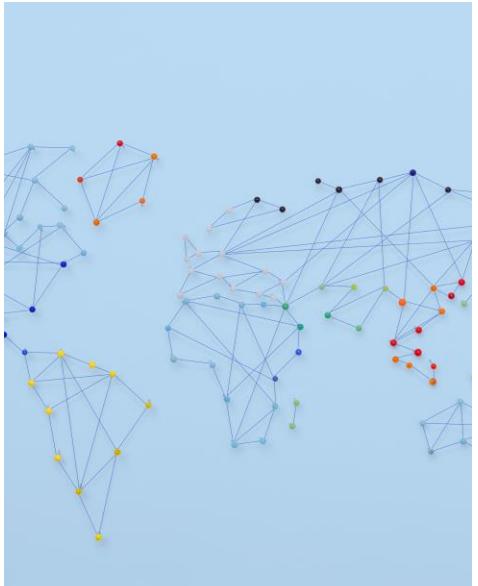
European Commission, 2017

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



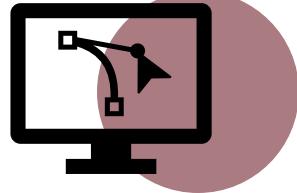
Securitization



Infrastructuring

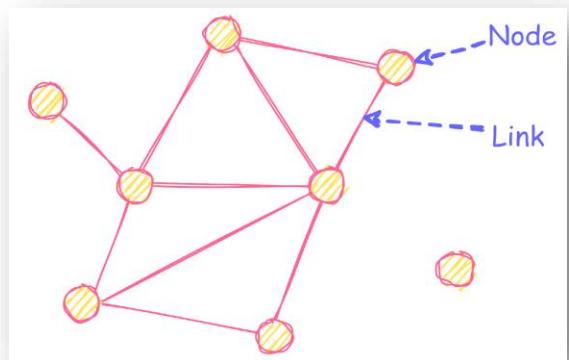
... of identification

Research methods



COMPARING DATA MODELS

New method & software



DATA MATCHING PRACTICES

Fieldwork, interviews, desk research



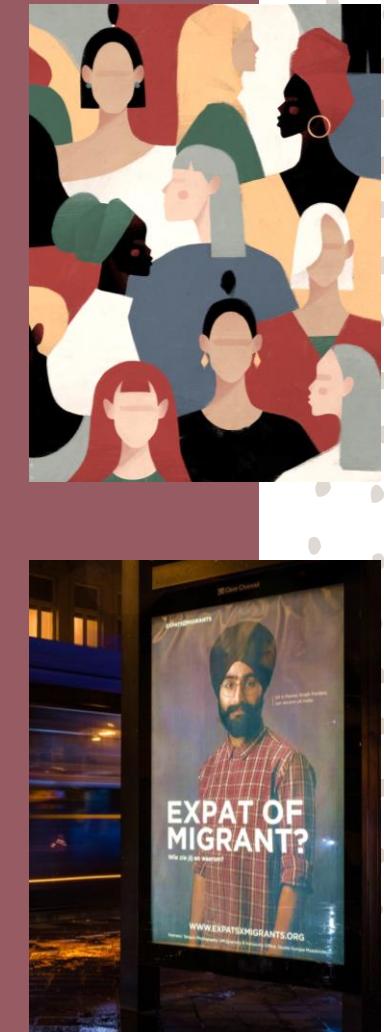
Immigratie- en Naturalisatiedienst
Ministerie van Justitie en Veiligheid

universiteit en hoger onderwijs



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.





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
OF TWENTE.

