Panel discussion

A Standarized Open-Source Algorithm OR an Innovative Proprietary Solution?

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European Union Agency for the Operational Management of Large-Scale IT Systems in the Area of Freedom, Security and Justice

About me

• Biometric Product Owner

• Working at eu-LISA since 2012

• Over 10 years experience with Biometric Matching Systems
  • Responsible for the development of VIS BMS v2+
  • Evolution strategy, operational compliance and transition of sBMS to operations

• Past experience
European Union Agency for the Operational Management of Large-Scale IT Systems in the Area of Freedom, Security and Justice

Established in 2011, started operations on 2012-12-01

Agency's mandate was reinforced with Regulation (EU) 2018/1726

- Headquarters: Tallinn (Estonia)
- Operations: Strasbourg (France)
- Backup site: Sankt-Johann im Pongau (Austria)
- Liaison office: Brussels (Belgium)

The Schengen Area: 27 countries (23 are EU member states), with a population of ~420 million people

eu-LISA Core Business Systems and IO components - Core part of EU law.
eu-LISA's biometrics collaboration network

- **International collaboration** with external agencies and associations
- **Standardisation efforts** with ISO/IEC JTC1 SC37 Biometrics
- **Collaboration** with universities and research centers
Standardized Open-Source Algorithm

common basis for FI quality
• across multiple stakeholders and systems
• with clear interpretation and defined meaning of scores

vendor-agnostic
• expected solid performance,
• independent of matching system

open to contributions from community

can be tested thoroughly against the standard
• strict conformance tests

independent evaluation of prediction accuracy, bias, etc. possible
• with benefit for the community

cheap usage

standardisation process is lengthy and flexibility is limited
requires strict maintenance plan
Innovative Proprietary Solution

- likely very good fit for specific matching systems, in particular in homogeneous environments
- one responsible and liable supplier

- vendor-specific solution (vendor lock-in)
- cost
- transportability

security by obscurity for black-box solution
Thank you!

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