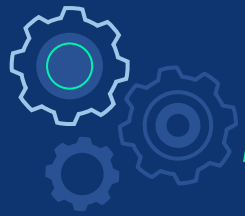
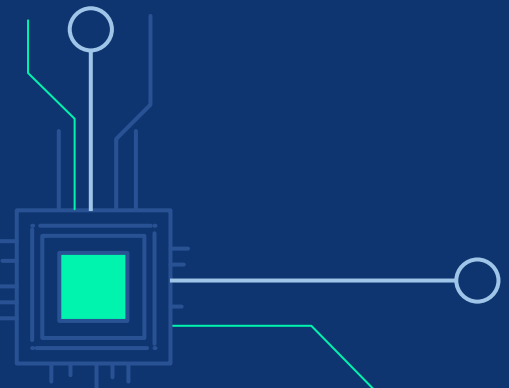


APPLYING FORMAL METHODS TO DETECT AND RESOLVE AMBIGUITIES IN PRIVACY REQUIREMENTS

Ioannis Agrafiotis, Sadie Creese, Michael Goldsmith, and Nick Papanikolaou



presented by Ioana Chelaru

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PRIVACY

- the term has no inherent definition
- increasing number of incidents where data has been lost, mistreated, or shared without authority

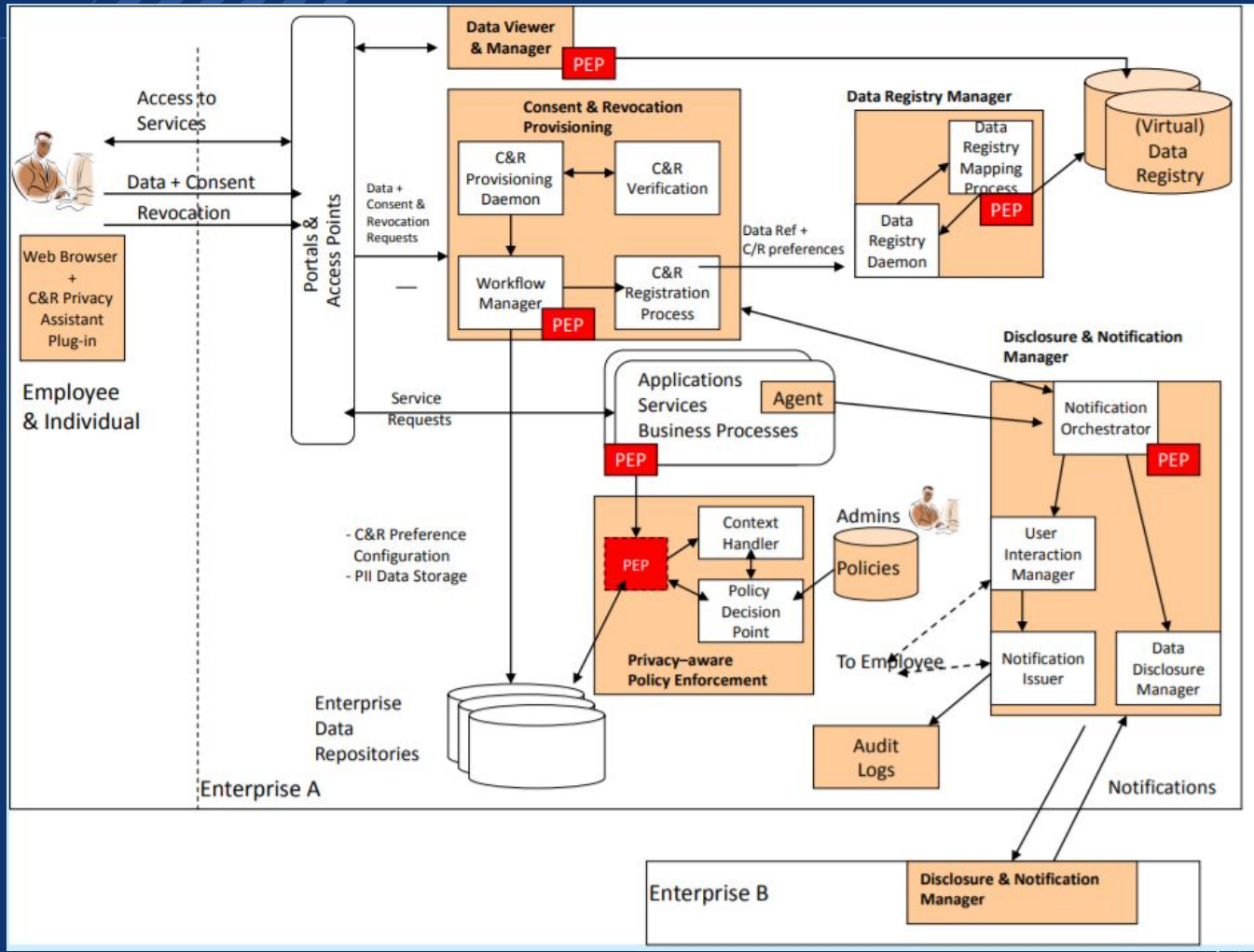
Don't let giraffes ruin your fun.

THE ENCORE PROJECT

- Ensuring Consent and Revocation
- June 2008 - November 2011
- £3.6 million

Press Briefing

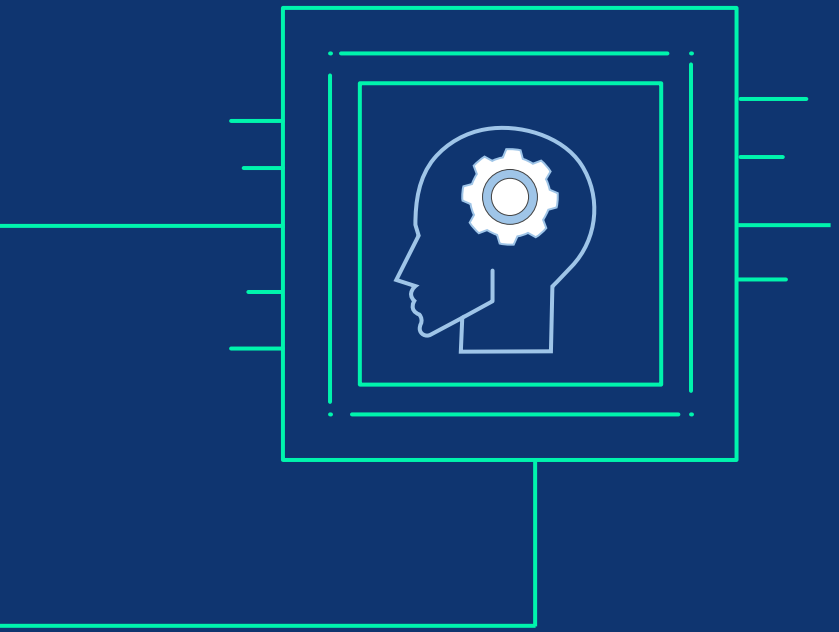
TECHNICAL ARCHITECTURE



ACCESS CONTROL MODEL

- uses labelled transition systems
- suited for expressing privacy preferences
- does not provide an intuitive language

HOARE LOGIC



- defines C&R processes with a set of rights
- it models C&R as the application of rights that allow certain permissions
- more intuitive to the way data subjects express themselves

CASE STUDY

- Enhanced Employee Data Scenario
- illustrates key points affecting the management of C&R
- the employee data scenario focuses on sensitive information

AMBIGUITIES IN REQUIREMENTS

FIRST CLASS

- details of the law
- regulations
- policy
- social factors

SECOND CLASS

- the complexity of the notion of privacy
- conflict between subjects and data controllers

CONCLUSIONS AND FUTURE WORK

THANK YOU!

Do you have any questions?