

TRUESSEC.EU

Towards the creation of a “European Trust Enhancing Label”

Internet Privacy Engineering Network 2017
Viena(Austria), June 9, 2017

José M. del Álamo, Yod-Samuel Martín
Departamento de Ingeniería de Sistemas Telemáticos
Universidad Politécnica de Madrid

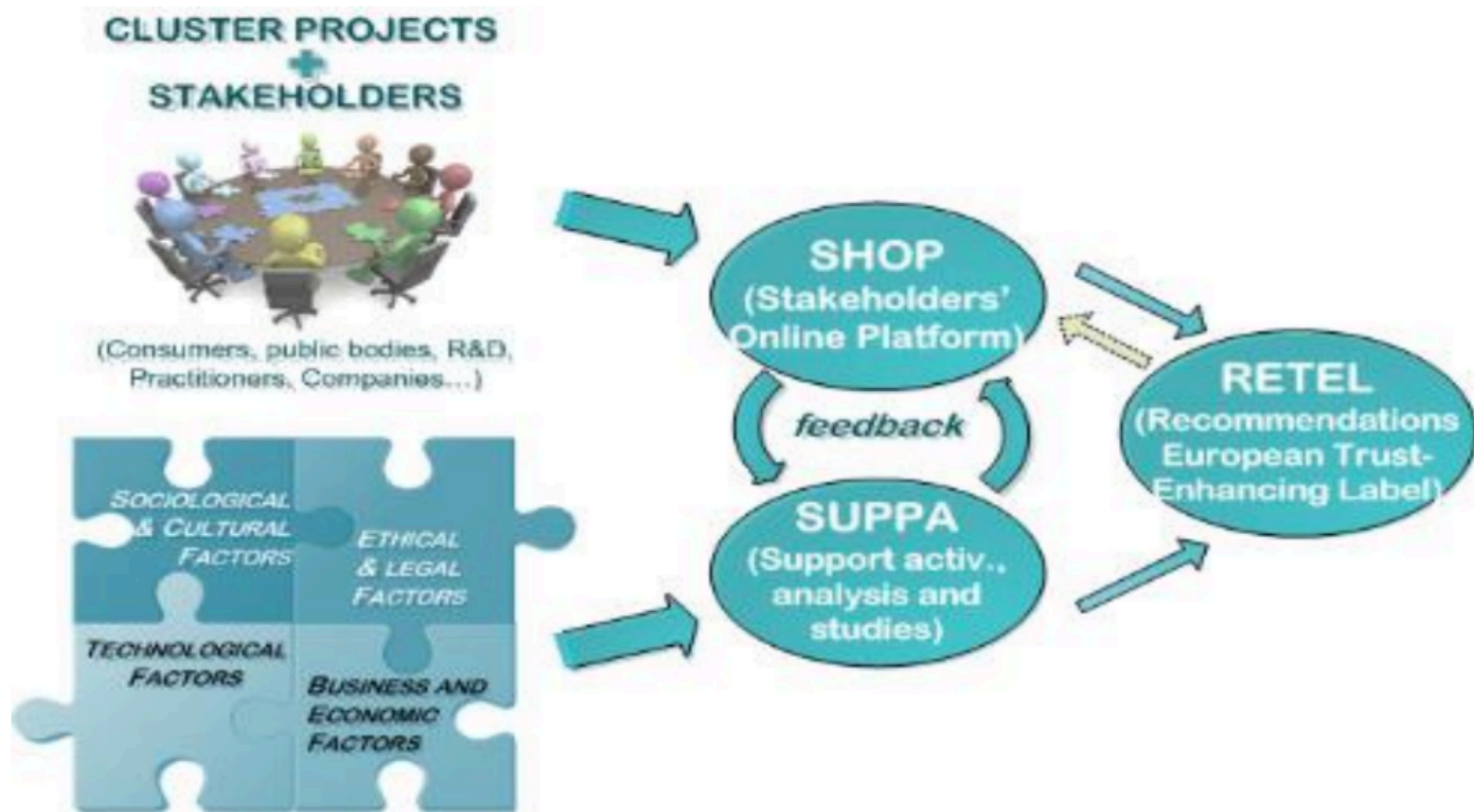
Certification

“A structured system by which an independent and impartial third party (*certification authority*), after performing an assessment of the system of interest at a point in time, issues the results in the form of a certificate, asserting that the system complies with public and standard criteria under specific conditions“

Challenges

- **Flexibility**
 - Domain
 - Organization
 - Product/Process/People
- **Scalability**
 - From self-assessment to 3rd party certification
- **Requirements**
 - Depend on domain/product
 - Might depend on stakeholder

TRUESEC.eu



Stakeholders Online Platform

[Login](#)[FUTURES](#)[IDEAS](#)[LIBRARY](#)[EVENTS](#)

CONSORTIUM PARTNERS

ABOUT TRUESSEC


TRUESSEC.EU is a CSA on certification and labelling of trustworthiness properties from a multidisciplinary SSH-ICT perspective and with emphasis on human rights.

- Project Summary
- WP Structure
- Advisory Board
- Consortium Partners

[ACTIVITY](#)

FUTURES

 **Test
Future 2**



04/05/2017 -
17:13

 0 Likes

 1
Comment

[+ Read more](#)

 **Test
Future**


04/05/2017 -
17:07

 0 Likes

 1
Comment

[+ Read more](#)

“Privacy Engineering”

- Books:



- Courses and training programs:

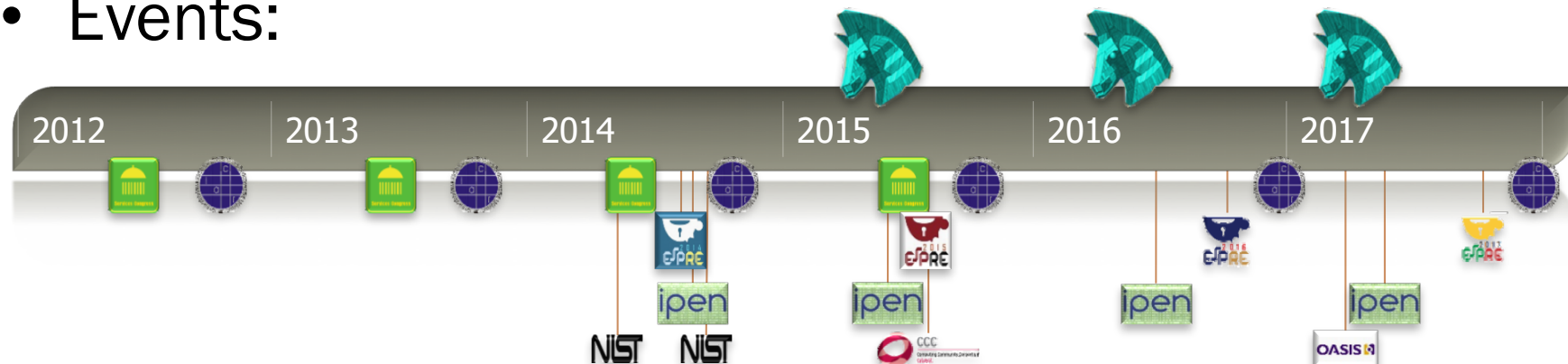


Carnegie Mellon University

Master of Science in
Information Technology



- Events:



“Privacy Engineering”

access accuracy address agents aggregation algorithm analysis analyze anonymization
applications applied approach architecture assessment association attacks attributes
authentication authors available business case challenges classification cloud clustering collaborative
collected combined communication compared complexity computing concerns confidentiality
content context control cost cryptography customers data database datasets decision demonstrate
describe design detection development devices digital directions disclosure distributed drm effective
efficient eid electronic enables encryption engineering enhancing environment evaluation
experimental experiments extract features framework frequent function fuzzy general health hiding https
identify identity image impact implementation individual information integrity intelligence interaction
international internet introduce inward issues item itemsets key knowledge learning legal level limited
location machine management measures mechanisms medical method mining mobile model
multi-party multiple needs network novel number objects online operations optimization order organizations original
outsourced participants parties partitioned patterns performance personal perturbation policy potential
power practical prediction present preserving principles privacy private problem
process product properties proposed protection protocol provide public publishing purpose
quality query random real recent recommender record regulation related release requirements
research reserved resources results rights risk rules scenario scheme science security selection
sensitive sensor server services sets several sharing sites smart social software solutions source specific
statistical storage structure study support survey systems task technical techniques technology
terms test theory threats tools transaction tree trust types used users utility values various webwork

Privacy Engineering landscape?



Christian Lopez (the garage) <https://www.flickr.com/photos/andidigress/4471100232>

A Privacy Engineering Methodology Metamodel



Justin de la Ornellas (avex2) <https://www.flickr.com/photos/ornellas/2835160463/>

Privacy Engineering

Privacy Engineering

*“Privacy engineering is an emerging research framework that focuses on designing, implementing, adapting, and evaluating **theories, methods, techniques, and tools** to systematically capture and address privacy issues in the development of sociotechnical systems.”*

(Gürses & Del Álamo, 2016)

Privacy Engineering revisited

Privacy Engineering contributions

define **Method(ologie)s** or Methodological elements (**Fragments**)

to systematically capture and address privacy issues

in the development of information systems

made of:

Producers (role, tool or team)

who perform some **Work Units** (process [goal], task [what], technique [how])

which **act upon** (reads, creates, modifies, deletes)

some **Work Products** (documents, models*, software items)

while at a **Stage** (at a milestone, or during a phase, build, or time cycle)

and using some **given Resources**

(languages, notations, guidelines and constraints).

*Models

are composed of Model Units,
conform to a Language,
and are expressed in a Notation

Conclusions

- Certification challenges
 - Diversity of approaches but lack of guidance and requirements
- Privacy engineering can deliver
 - A common conceptual framework
 - Methodologies defined in compatible terms
 - A reusable knowledge base
- TRUESSEC.eu is addressing these challenges
 - Organizing debates on different topics

Join and participate!!!

Thank you

jmdela@dit.upm.es

Slide 9: Christian Lopez (the garage)

<https://www.flickr.com/photos/andidigress/4471100232>

Slide 10: Justin de la Ornellas (avex2) <https://www.flickr.com/photos/ornellas/2835160463/>
licensed under [Creative Commons Attribution 2.0 Generic](#) license.