

# Trust in the Digital World

Vienna 7-8 April 2014

**Panel: Trusted Personal data Management**

**Organised by Digital Enlightenment Forum**



# Overview

1. Panel Agenda
2. What is Digital Enlightenment Forum
3. Personal Data Management (PDM)  
terminology, issues, a model
4. Building a context-aware PDM Ecosystem

# Panel Agenda

- *Chair:* Jacques Bus (Digital Enlightenment Forum)
- Personal Data Management - State of Affairs  
*Jacques Bus (DEF, BE)*
- Ethical Personal Data Management  
*Luk Vervenne (Synergetics, BE)*
- Privacy laws and pervasive sensing / big data:  
forever incommensurate?  
*Prof Max Mühlhäuser (Un Darmstadt, DE)*
- Electronic Identification, Privacy and Trust in  
eGovernment Services: the e-SENS Project  
*Lefteris Leontaridis (e-SENS)*



For a sustainable digital society in which:

- People enjoy the kinds of autonomy and freedom online that they have offline
- The position and rights of the individual in relation to society is supported
- Can develop and express their identity in context

To debate and develop technical and policy solutions that stimulate innovation and sustainable evolution and therefore are beneficial to all.

**[www.digitalenlightenment.org](http://www.digitalenlightenment.org)**

**Board:** George Metakides (President), Jacques Bus (Secretary General), Elly Plooijs– van Gorsel (Treasurer), Kim Cameron (Member)

**Honorary members:** Sir Tim Berners Lee (MIT), Ann Cavoukian (DPC Ontario), Masao Horibe (JP), Michael Kirby (AU)  
Hamadoun Touré (ITU)



# Digital Enlightenment - Activities

- Organise and provide leadership in discussions between science, technology, policy, law and industry representatives on a holistic approach
  - Propose principles, policy recommendations and activities for a sustainable digital society, ensuring democracy, human rights and freedom
  - Initiate and facilitate action where needed.
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- DEF Forum 2012 (Luxembourg), 2013 (Brussels)
  - DEF Yearbooks 2012 and 2013
  - Workshops, seminars and Yearbook in 2014

We **call for members** (persons and organisations) to participate in this movement and contribute to its mission.

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# Personal Data Management (PDM)

## Identity – Privacy - Personal Data Management

- **Identity:** total of “body and soul”, behavior, presentation, knowledge, ... of an individual (more than data)
- **Privacy:** being free from unreasonable constraints on the construction of the own **identity** in the Digital Society
- **(Context-dependent) PDM:** enables individual to control access and use of her PD in a way that preserves **privacy**, (and depends on the context of the transaction).

# Effective CPDM

Need to distinguish types of data:

- Actively collected PD (provided by user in transaction)
- Passively collected PD
  - Without user awareness in transaction
  - Without user awareness of the transaction
  - Inferred data from data-analysis (aggregated or not)

# PDM processing model

## 1. Infrastructure

Platform with governance, sticky policies, security rules, logging, compliance testing, API portal and the TTP services (storage provider, authentication provider, ...)

## 2. Data Management

Apps and Services to enable the individual to give access to her data and control use and flow.

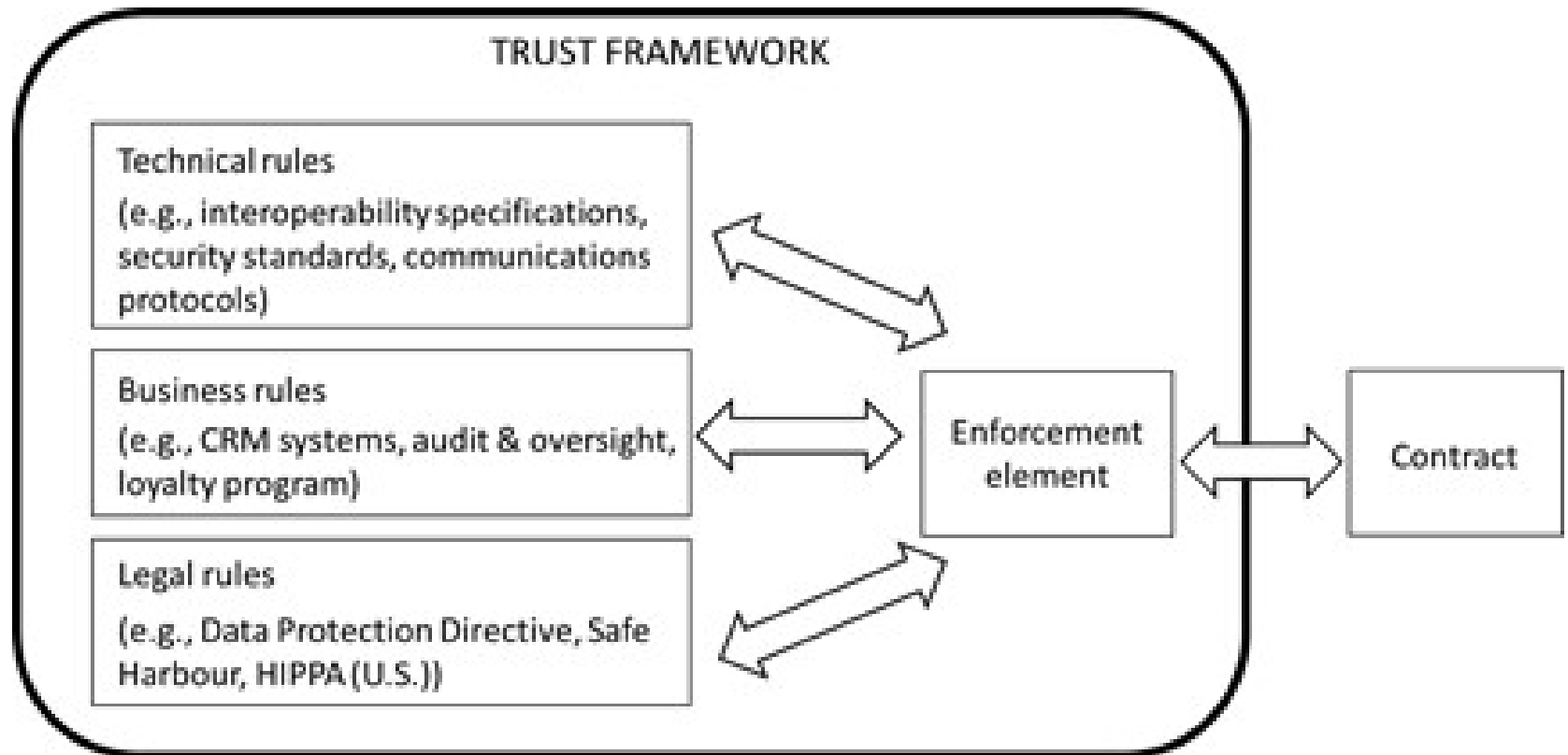
Includes governance aspects, data policies, audits, ...

## 3. User Interaction

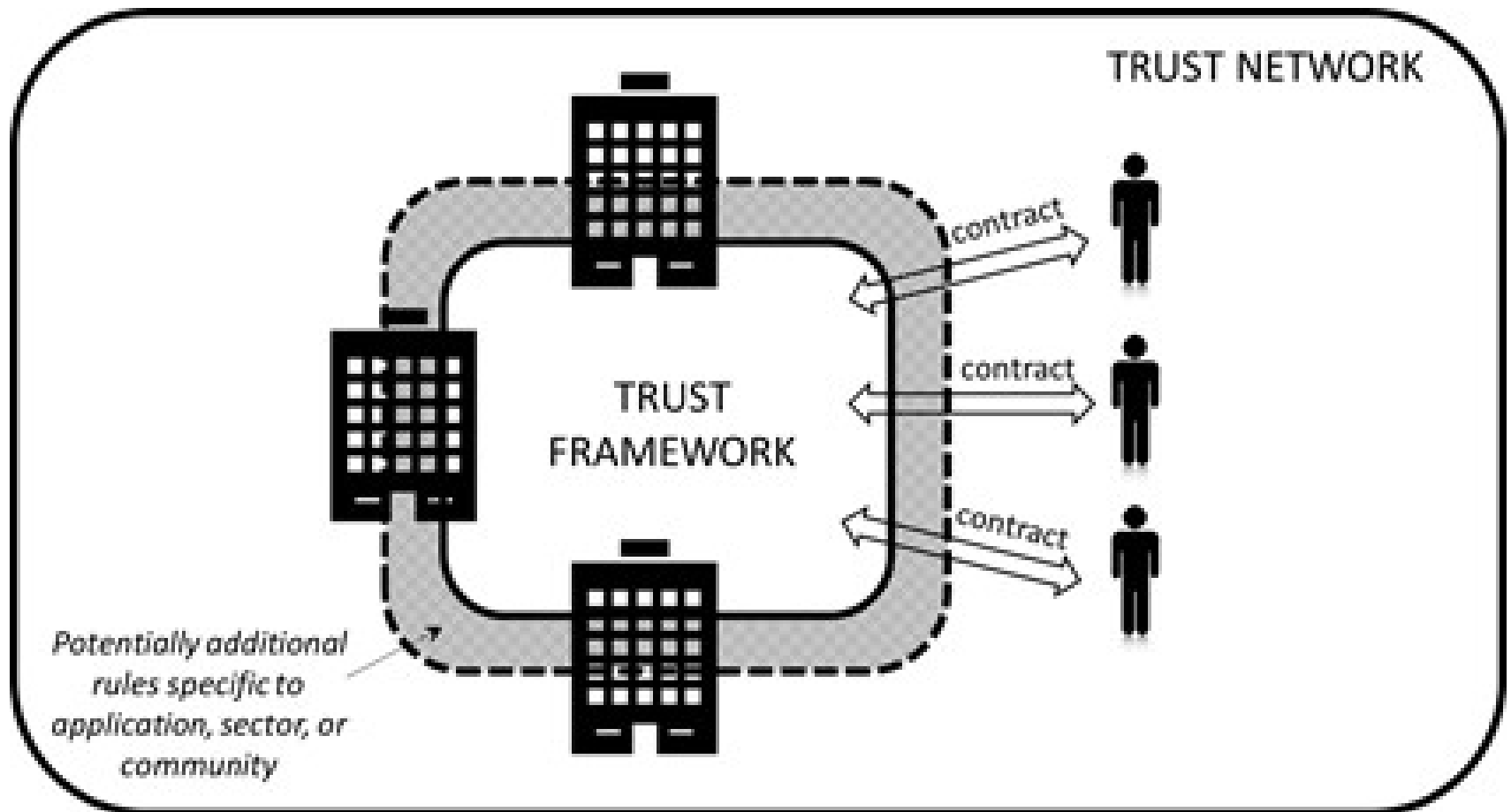
Actual activity using/controlling data for services in context and according to greed rules



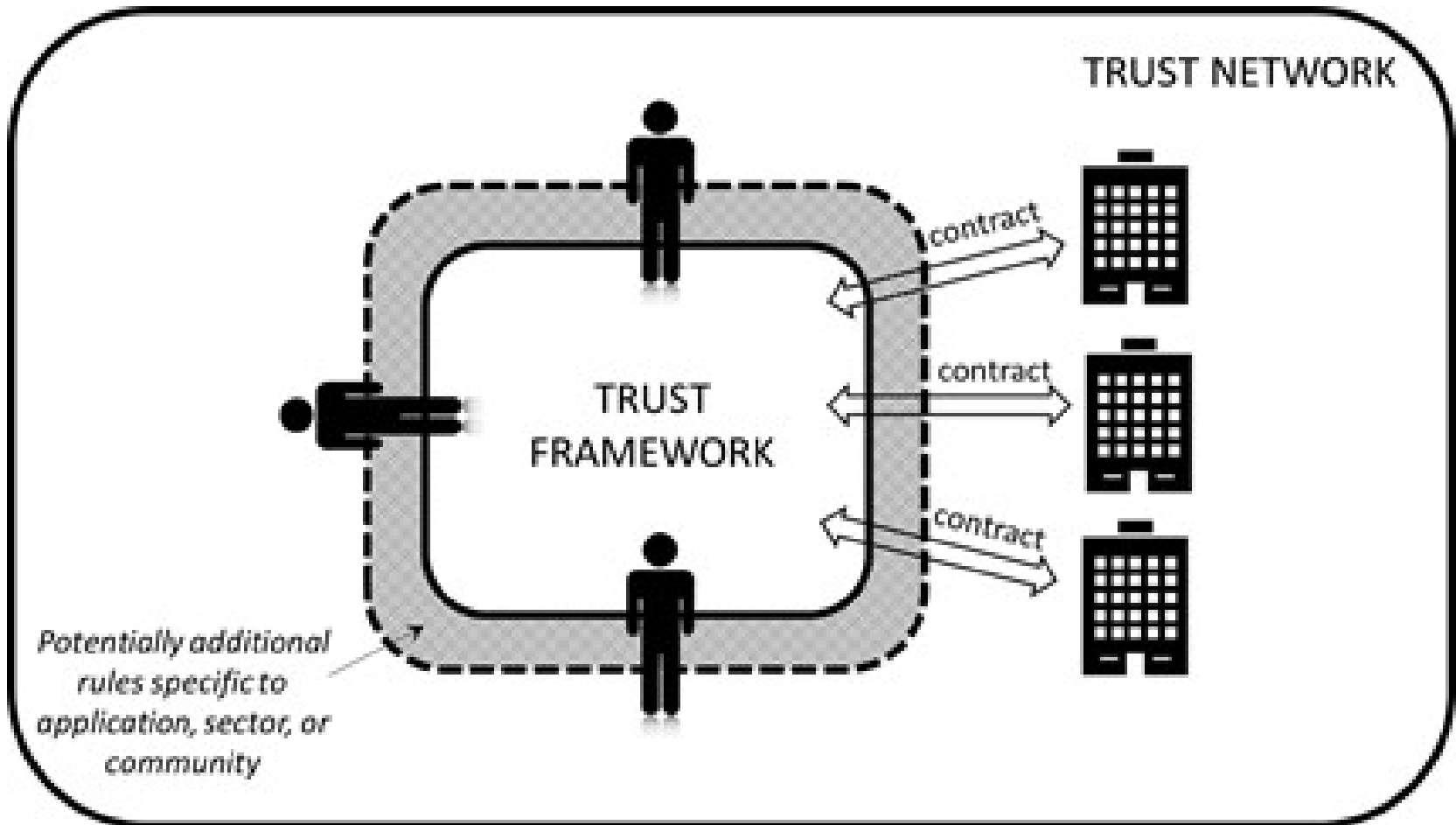
# Trust Framework



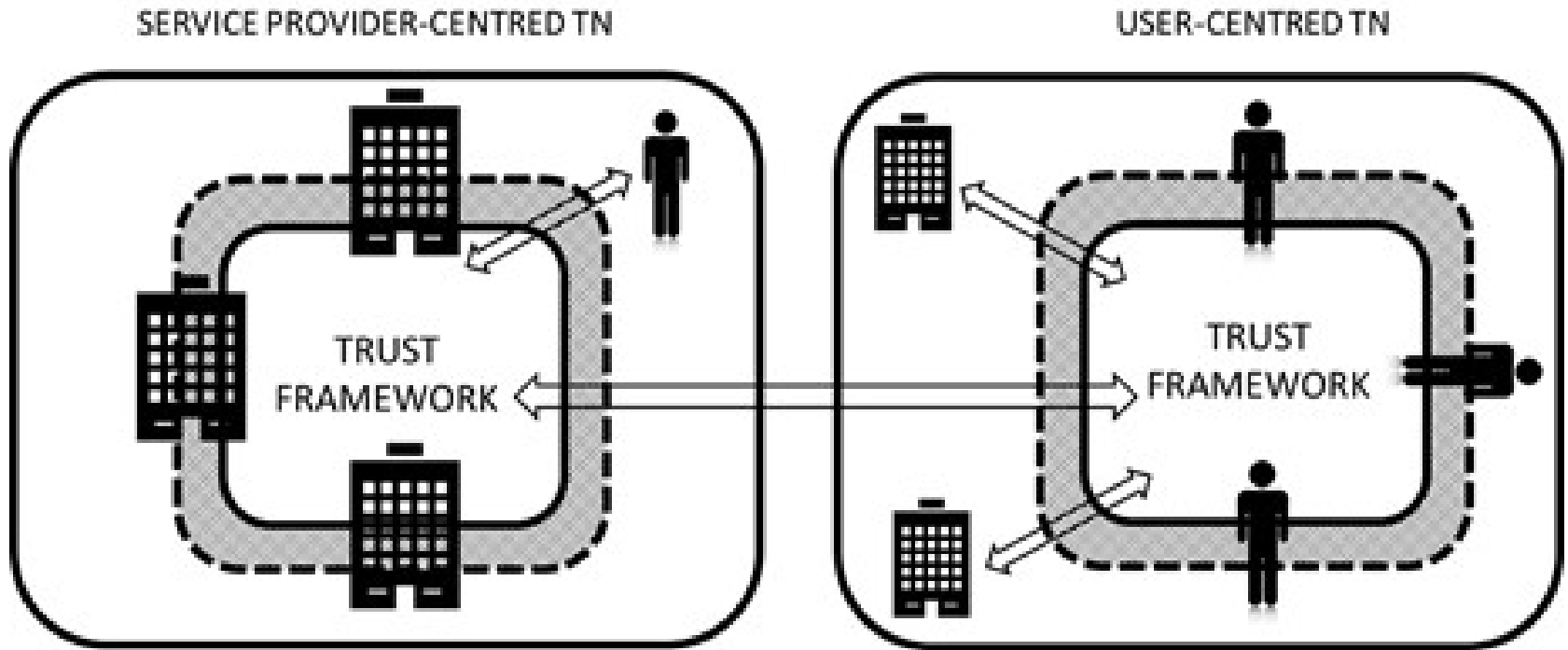
# SP-centric Trust network



# User-centric Trust network



# Trusted PD Ecosystem



Interoperable TN's of various type, in various sectors, competing for trust, connecting to competing TTPs (storage, ID, reputation providers) SP's and Apps providing sector specific and context dependent services

**Thank you  
for your  
Attention**

**QUESTIONS ?**