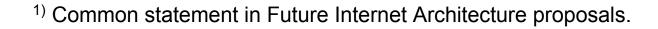
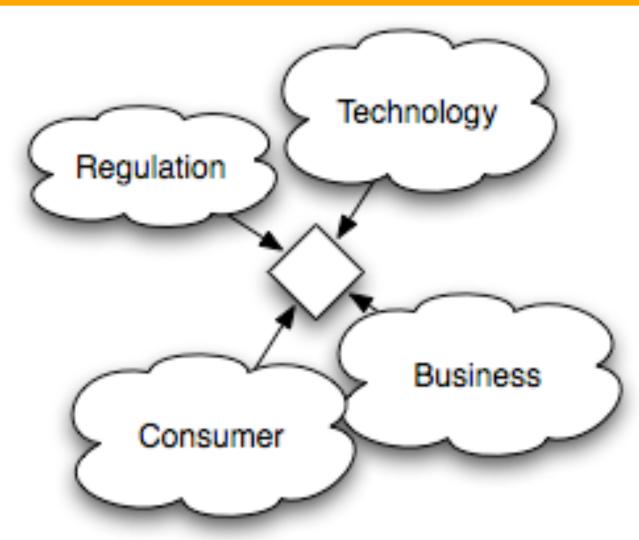
Hannes Tschofenig

# "The Internet was not designed with Privacy in mind. We need to redesign it."





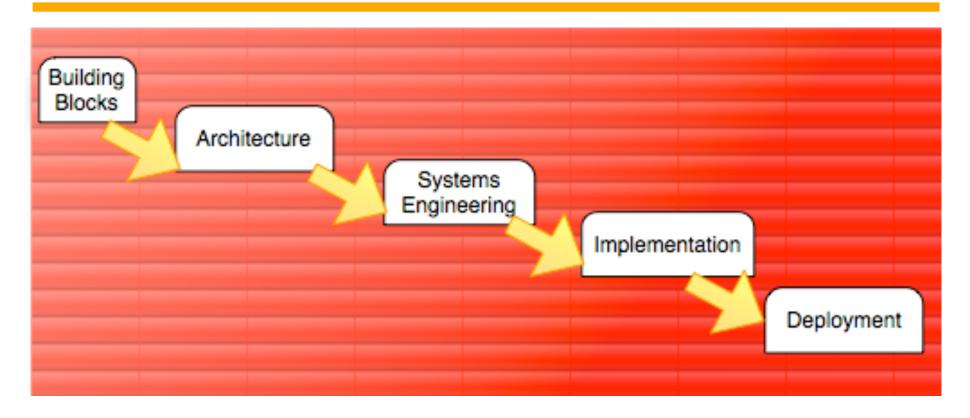
## **Complex Eco-System**



**Business > Consumer Interest > Policy Makers > Technology ?** 



# **Understanding Privacy Principles in a Technology Context**



#### Example: Notice and Consent"

 Before the collection of data, the data subject should be provided: notice of what information is being collected and for what purpose and an opportunity to choose whether to accept the data collection and use.



#### Role of SDOs

- The consensus process of standards development is time consuming
- To ensure speed of innovation focus is on building blocks rather than specific standards
  - See Web development
- Considering privacy in SDOs requires a certain governance structure and commitment.
  - Example: W3C geolocation API
- Privacy communities are present not in SDOs
  - Education and awareness problem.



### Is Data Minimalization the Wrong Paradigm?

 Idea: Make only a limited amount of information available to other communication partners.

#### Steps:

- Do a privacy impact assessment on the application (e.g. road pricing)
- 2. Analyze what information needs to be exchanged (e.g. location)
- Design Communication Architecture appropriately (multi-party computation)

#### Problems:

- Standards are getting more generic → difficult to do the PIA
- Voluntary sharing of data increases (see also cloud computing)
- Web architecture is not helping
- Not in the business interest



#### Outlook

- With privacy we are still at an early stage of the process.
  - Compare with security
- No agreement in the standards community what to design for
- Themes designed by lawyers are not well understood
  - Example: Privacy by Design<sup>TM</sup>
- IAB Approach: Community-wide discussion about privacy needed
  - Speaking the same language: Privacy Terminology
  - Helping protocol designers: Public Policy / Privacy Considerations for Internet Protocols
  - Education: Getting the privacy community involved
  - What can technology do? Internet Privacy workshop (8<sup>th</sup> and 9<sup>th</sup> December, 2010) organized by MIT, IAB, ISOC and W3C.

