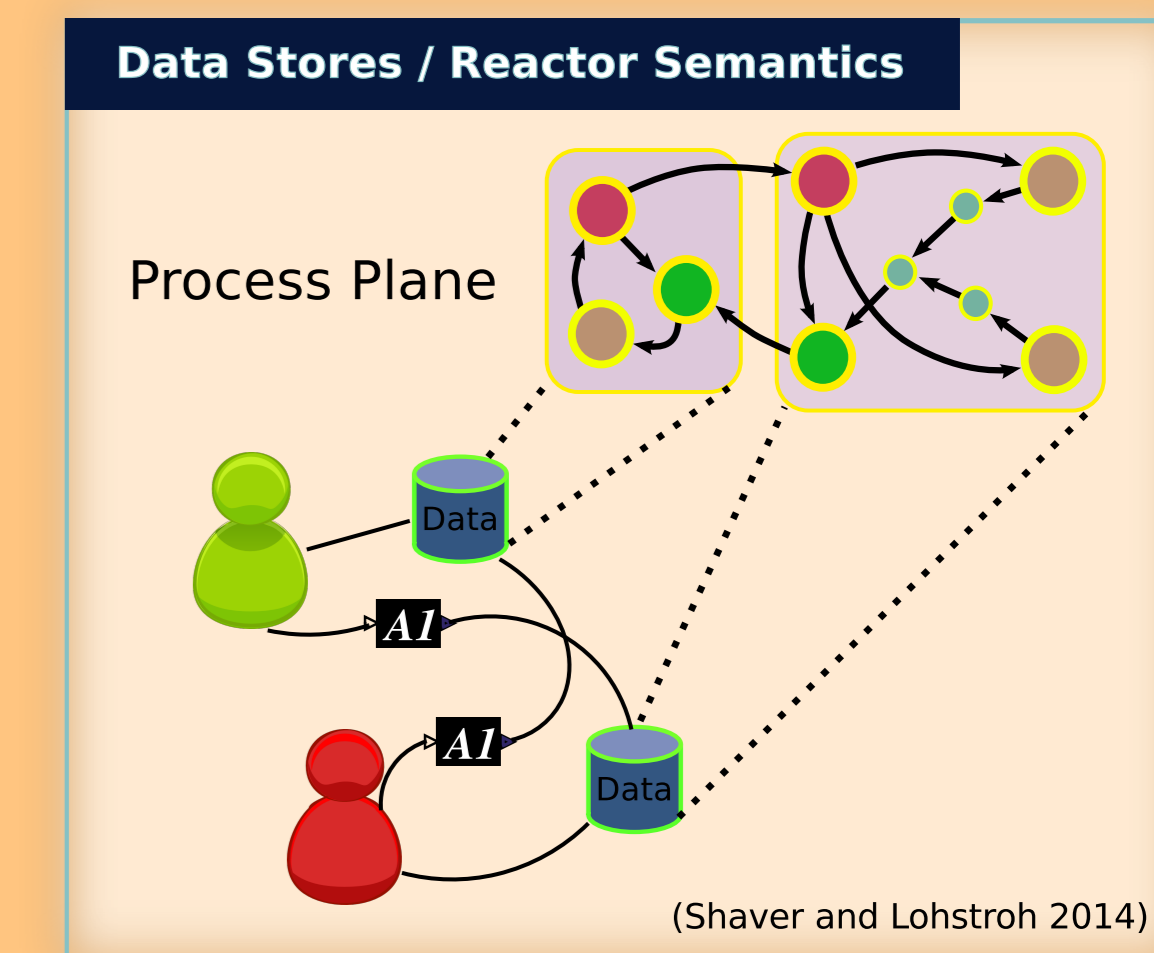
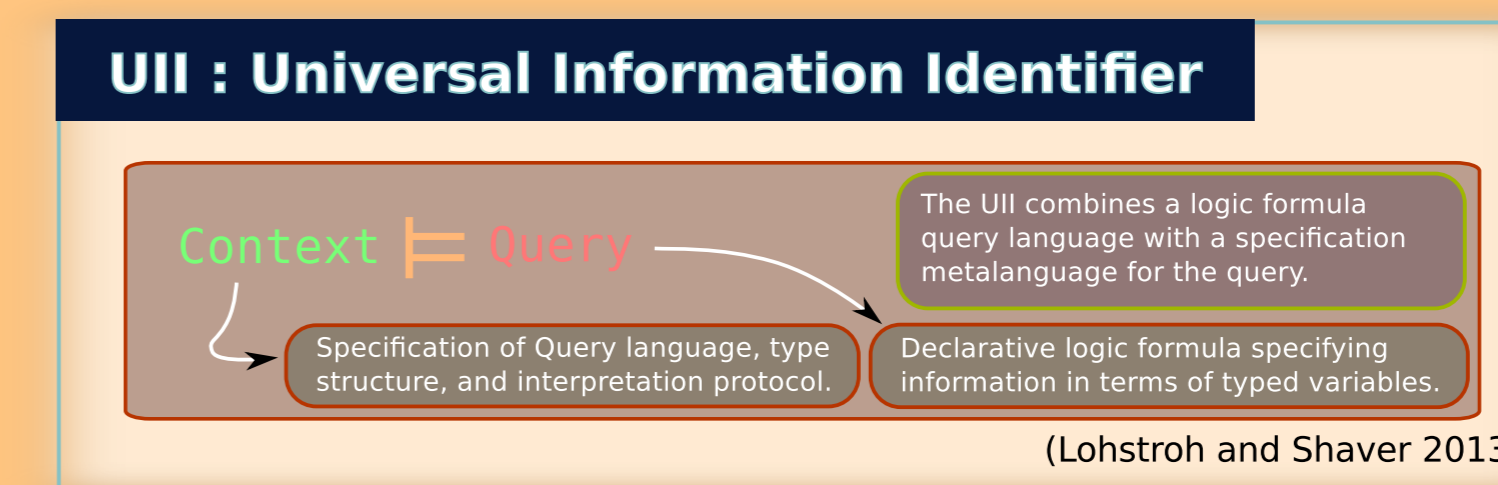
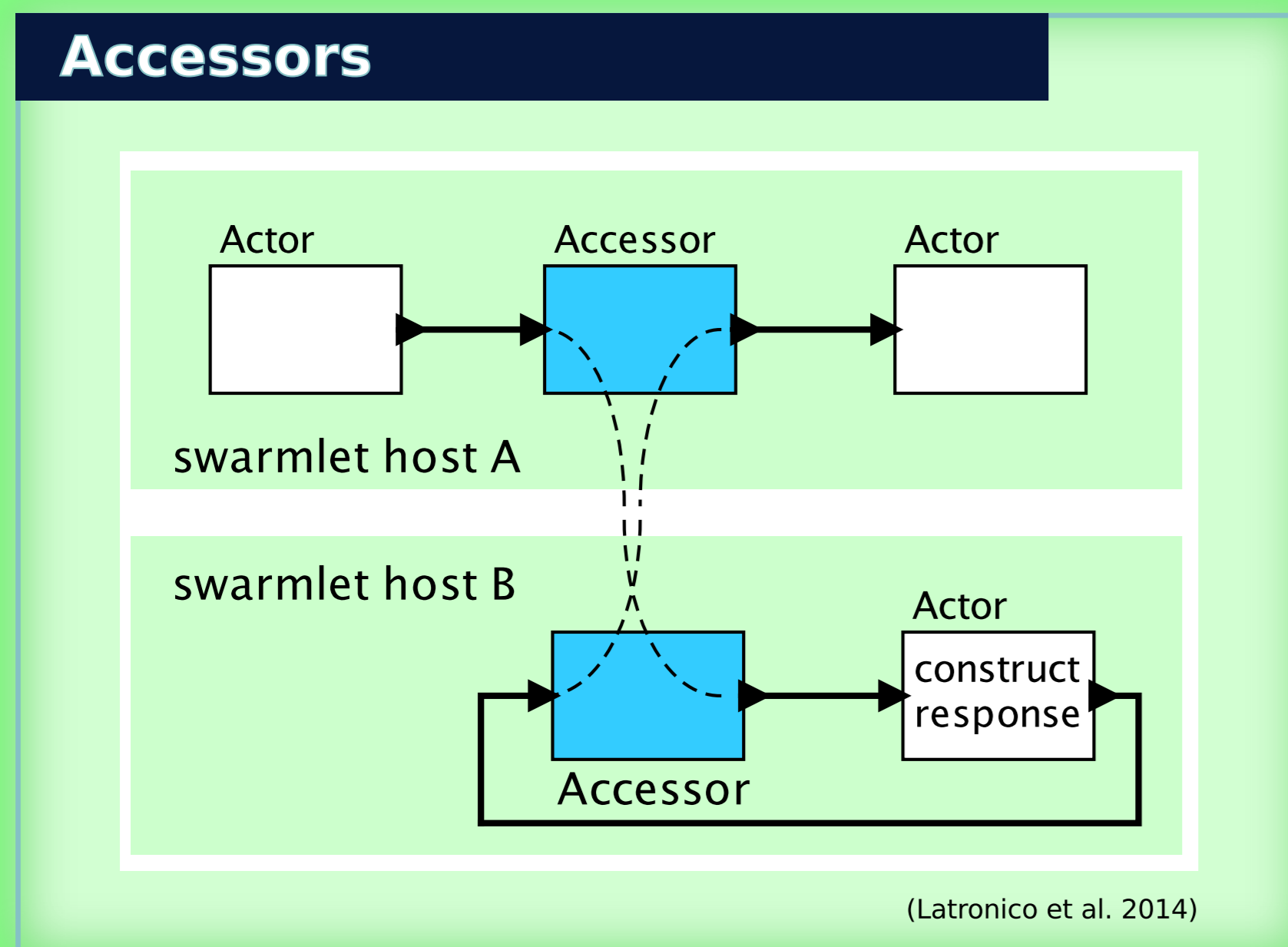


Volition

Adaptation

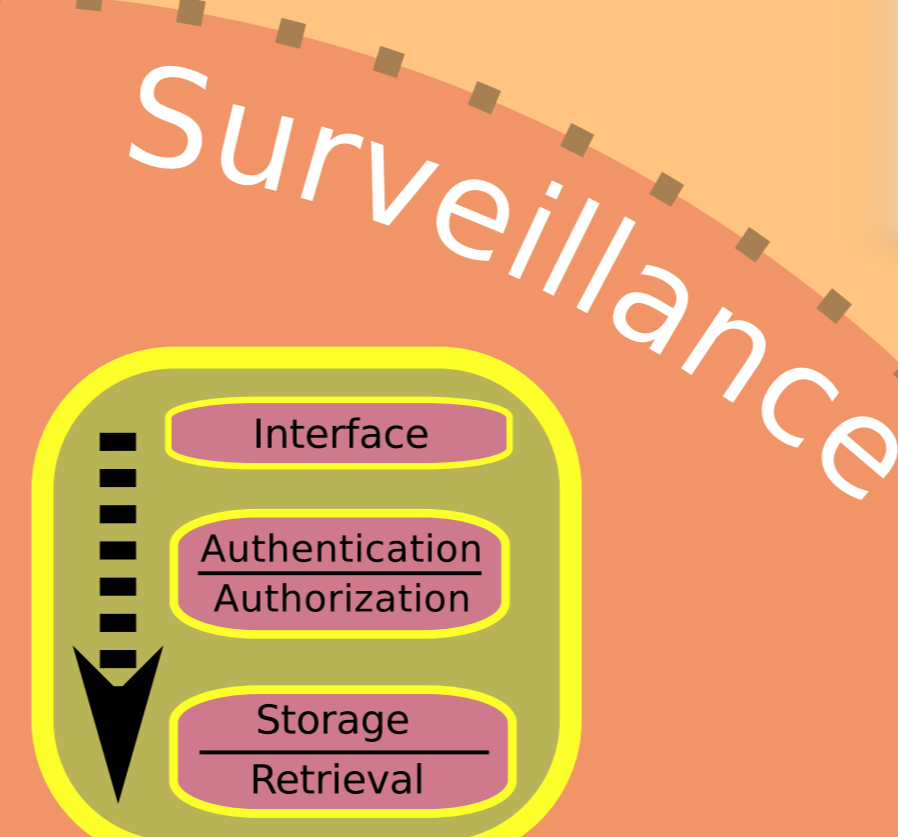
Control



what? **voluntary** access

when? access **witnessed**

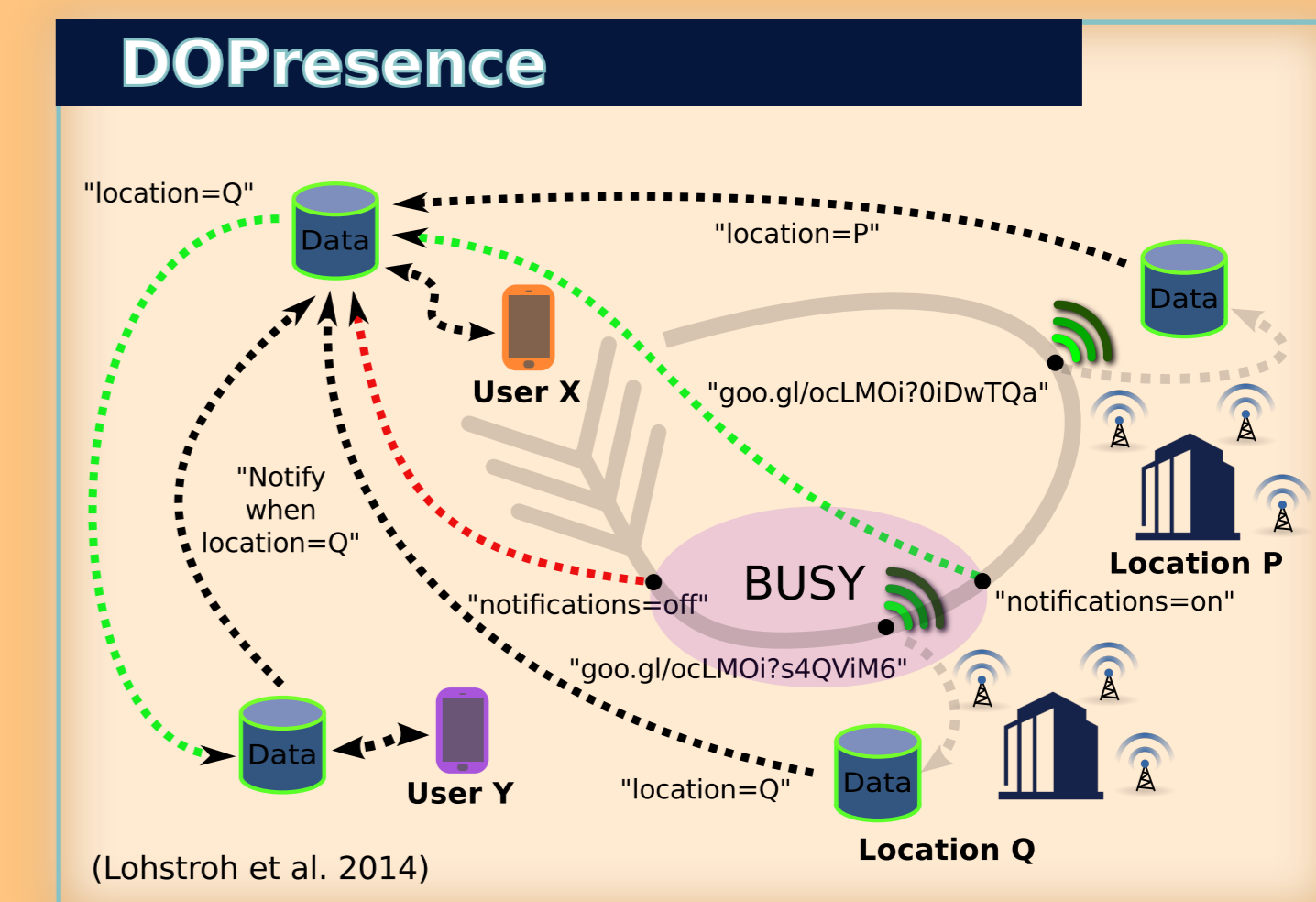
whom? observer **known**



what? **unvoluntary** access

when? access **unwitnessed**

whom? observer **unknown**



Sharing

Consent

Proof

Service-oriented
Legal Judgements

Monolithic / Centralized
Black Box

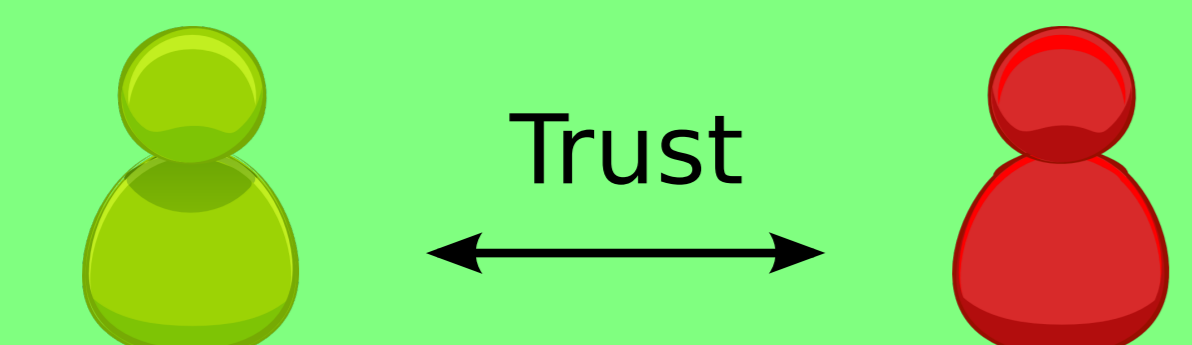
Promises

Modular / Distributed
Contract-based Design

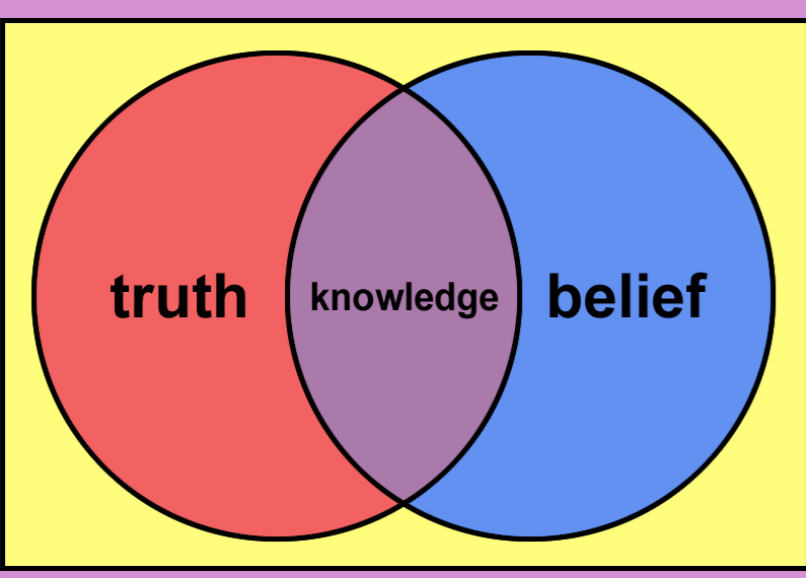
Accountability

Verification

Experimentation



Actor-oriented
Logical Judgements



Contract-Based Design of Control Protocols for Privacy-Critical Information Systems?