


Privacy by Design Identity Architecture Using Agents and Digital Identities

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Posted Resources: <http://www.sovereignimage.com> 

Narrated Video of Presentation: <http://www.sovereignimage.com/video/>

List of Questions and Answers: <http://www.sovereignimage.com/q&a/>

Technical Papers and Patents: <http://www.sovereignimage.com/publications/>

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Introduction



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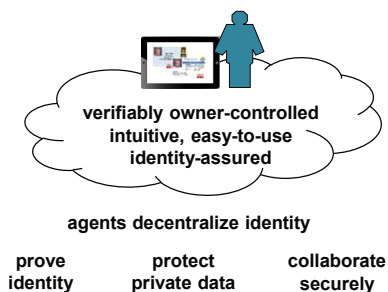
- ☐ Internet: layered architecture ... missing identity layer
- ☐ Patchwork of identity schemes ... undermining privacy
- ☐ Dick Hardt: user-centric identity, rich personas, single protocol
- ☐ Propose new architecture for identity on the Internet:
 - organically establishes identity layer
 - progressively deploys identity agents controlled by owners
 - satisfy principles of privacy by design
 - issue digital identities according to needs

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Presentation Outline

Boosting Solution Strength
 Issues and Opportunities
 Leveling the Playing Field
 System Concept
 Privacy by Design
 Design Elements
 Capabilities

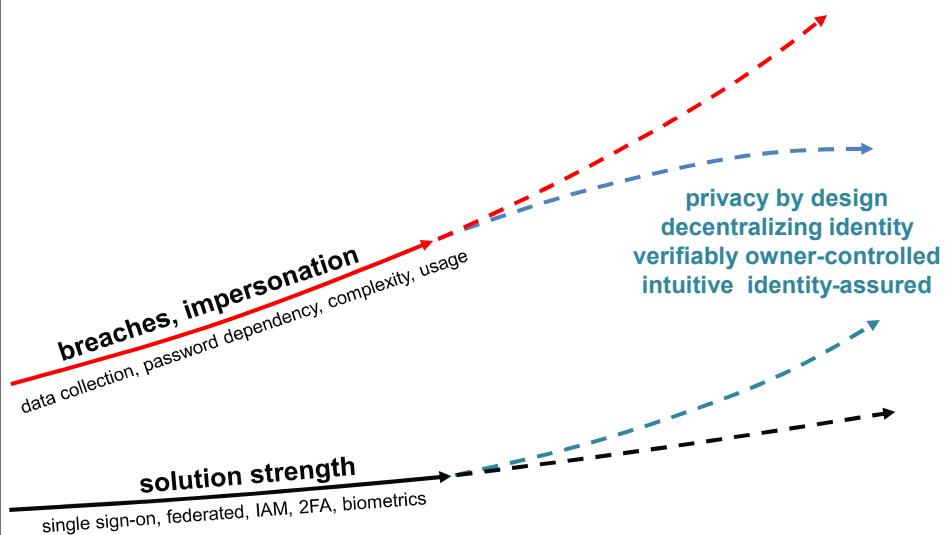


see list of papers and patents at end of this video including our APF 2020 paper

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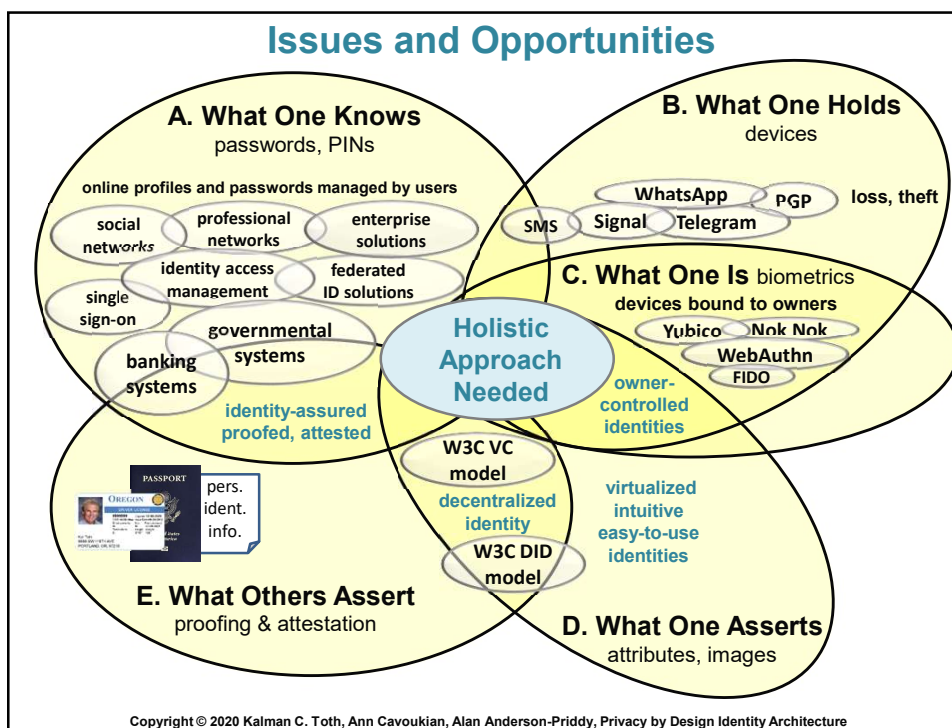
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Boosting Solution Strength, Flattening the Curve

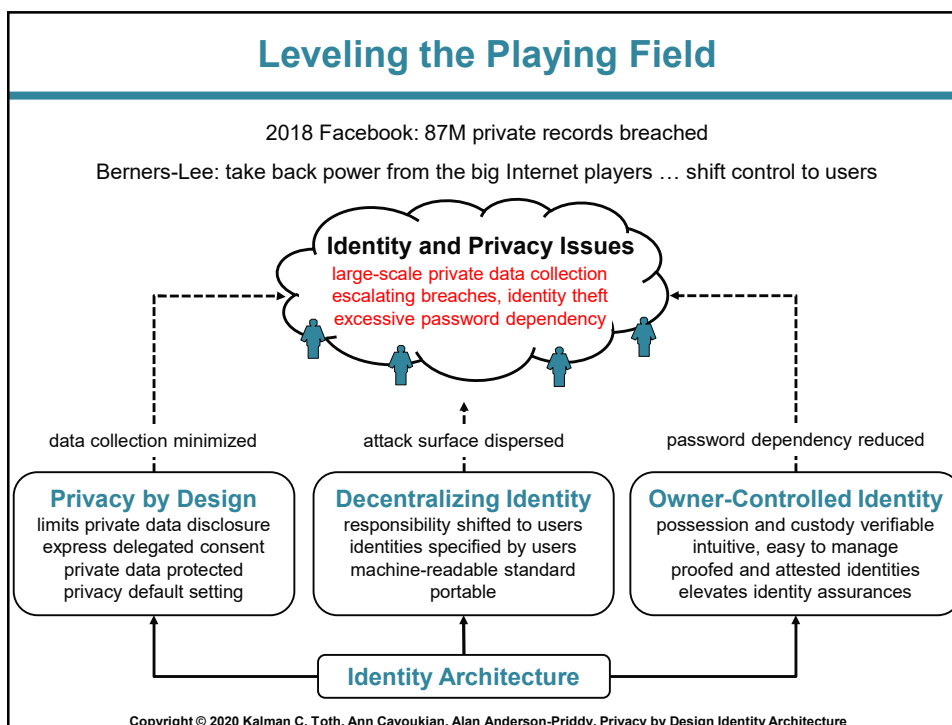


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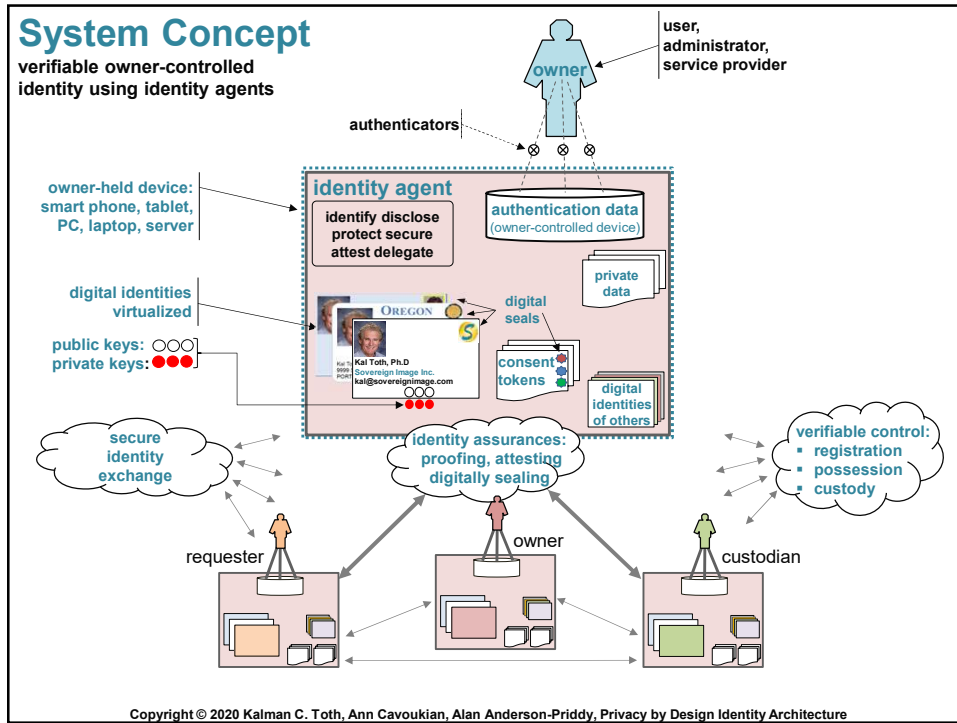
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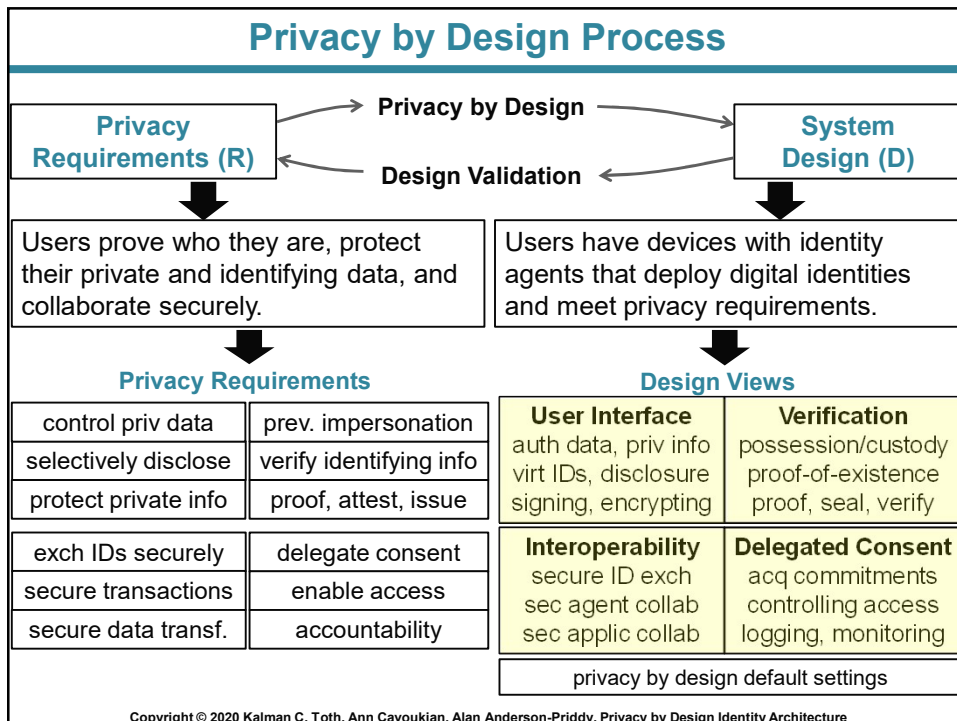
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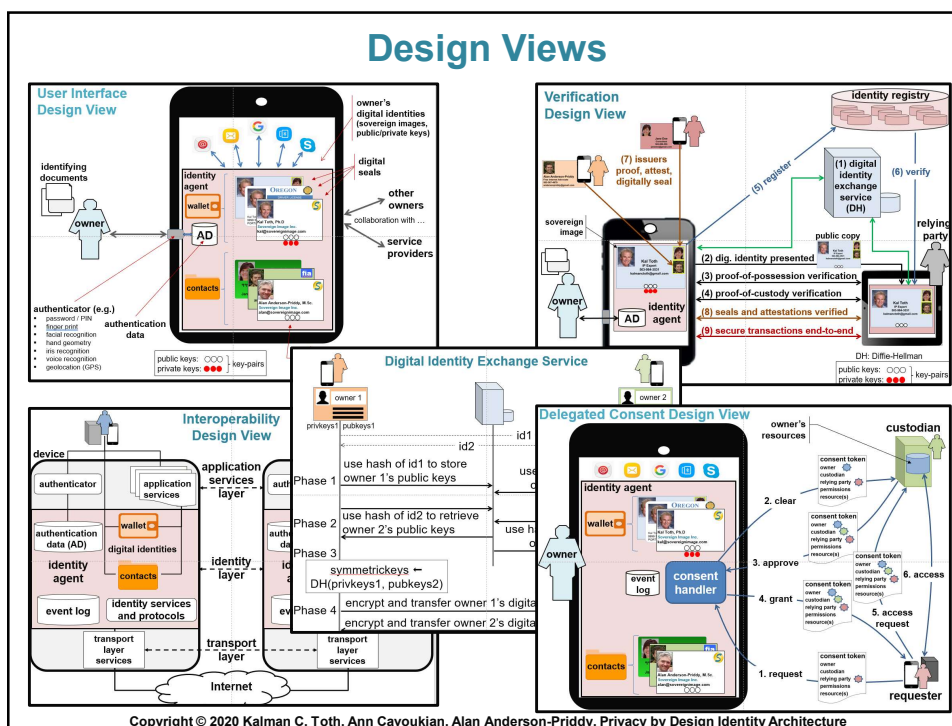
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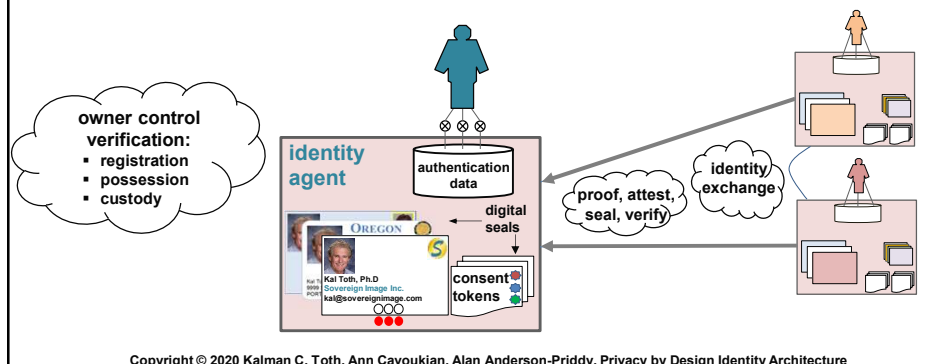
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Capabilities, User Empowerment

- ✓ **Empowerment** - usability, privacy, security, prevent impersonation
- ✓ **Virtualized digital identities** - intuitive, easy to use, reduce friction
- ✓ **Digital identity exchange** – identities transferred securely, conveniently
- ✓ **Encapsulating authentication data** - enable and ensure owner control
- ✓ **Impersonation prevention** - registration, possession and custody tests
- ✓ **Identity assurances elevated** - proofing, attesting and digitally sealing
- ✓ **Acceptability** - identity agents verify affixed digital seals and attestations




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Closing Remarks

- users control their identities
- identities verified by others
- intuitive, easy to use
- identity-assured by others





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Thank You!

Narrator: Connie Kirk

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Relevant Technical Publications and Presentations

Annual Privacy Forum, Lisbon, Oct. 2020

Identity North Virtual Annual Summit, Toronto, June 2020

Open Identity Summit, Copenhagen, May 2020

IFIP Conference on Information Security and Privacy Protection, Lisbon, June 2019

IEEE Security and Privacy Magazine, May 2019

Computer Applications in Industry and Engineering, New Orleans, Oct. 2018

Pacific Northwest Software Quality Conference, Portland OR, Oct. 2015

US Patents

Electronic Identity and Credentialing System, 2017

Methods for Using Digital Seals for Non-Repudation of Attestations, 2018

Systems and Methods for Registering and Acquiring E-Credentials using Proof of Existence and Digital Seals, 2018

Architecture and Methods for Self-Sovereign Digital Identity, 2020

Methods for Identity-Proofing, Attestation and Replacing Passwords with Digital Identities, 2020 (pending)

Commercialization Plan

Benefits, Competitive Landscape, Market, Business Potential, Roadmap

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