

# The Future of the Convergence of Internet-scale Identity Systems

(an unconventional panel)

Digital Identity World 2007  
September 24, 2007

Moderator: Kaliya Hamlin, Identity Woman

<http://www.identitywoman.net>

## Community Participants

**Kaliya Hamlin**, Identity Woman [www.identitywoman.net](http://www.identitywoman.net)

**Phil Windley**, BYU [www.technometria](http://www.technometria)

**Johannes Earnst**, Net Mesh [www.netmesh.info/jernst](http://www.netmesh.info/jernst)

**Mark Wahl**, Informed Control [www.informed-control.com](http://www.informed-control.com)

**Mary Ruddy**, Parity

**Drummond Reed**, Cordance / Parity [www.equalsdrummond.name](http://www.equalsdrummond.name)

**Phil Becker**, DIDW [blogs.csoonline.com/blog/digital\\_id\\_world](http://blogs.csoonline.com/blog/digital_id_world)

**David Kearns**, The Virtual Quill [www.vquill.com](http://www.vquill.com)

**Charles Andres**, Parity/Higgins

We don't know what the future will hold.

We can work together to think about the future.

We used events that are  
concrete expressions of trends to think about the future.

The events we used and developed can be found here

[wiki.idcommons.net/moin.cgi/IdFutures](http://wiki.idcommons.net/moin.cgi/IdFutures)

EXIT

A large white sheet of paper is pinned to a wood-paneled wall, serving as a workspace for a brainstorming session. The paper is covered with numerous sticky notes in various colors (green, yellow, blue, and pink) and several larger handwritten cards. The notes and cards are organized into clusters, with some larger cards acting as central themes or sections. The visible text on the cards includes:

- Role of Government
- Simple Proposals for privacy
- Control Page Long
- Internet itself
- Community role
- Commercial Sector role
- Strong Auth
- Physical Devices
- Biometrics DNA
- And legal constructs & implications

The sticky notes contain smaller, less legible handwritten text, likely related to the themes on the larger cards. The paper is held in place by blue and yellow clips along its top edge.



## Centers of Gravity or Drivers we saw.

(C) **Commercial Sector Role?**

(D) **Physical Devices**

(G) **Role of Government - Legislative, Deployment**

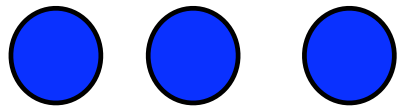
(I) **Internet Itself**

(S) ***Community/Social Role***

(A) Strong Authentication

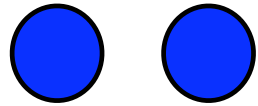
(B) Biometrics DNA

(L) New Legal Constructs and Implications



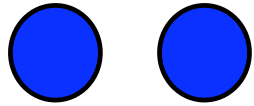
## (39) No ISP anonymity remains 2014±

US W. European countries and China all regulate that non anonymous internet connectivity allowed. Wireless access points must authenticate users, so rely on T-Mobile, AT&T, etc to perform authentication. Wifi no longer 'free'.



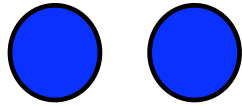
## (2) Networks of Trusted Individuals Compete with Corporations as Players in Identity Dependent Transactions. 2012±

A vigorous minority (>11% of US consumers, more or less in other countries) have disowned managed ID products and continue to use social networks operating over open, cooperative software technology to provide whatever degree of verification and authorization is legitimately required. Many forgo widely adopted consumer conveniences to maintain their relative privacy and personal values.



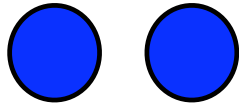
### **(3) Personal Data On US Citizens Must Be Tied To An Anchor Trustee/Purpose If It Could Be Used In EU Transactions. 2011±**

Businesses with strong ties to both the EU and US economies have pressured vendors to develop products and procedures that respect tighter EU regulations. These companies have evolved customer relationship policies that require opt in and restrict some of widely used techniques for data mining.



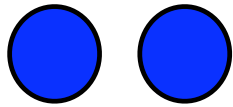
## (25) Long Established Virtual World “Addresses” are Accepted by Commercial Entities as Billing Addresses. 2009±

Owners of “land” in worlds like Second Life for more than 2 years who regularly participate “in world” are able to assert their virtual world address as a billing address for commercial transactions.



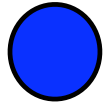
(27) Anonymity in even indoor “public” places (coffee shops) has been destroyed by cheap and portable face recognition tools. 2011±

Passive identity voyeurism has become widespread as laptop or phone based cameras and software with a net connection can identify via face recognition most of the people in a room.



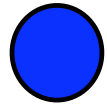
(47) Government-issued becomes meaningless as millions of fake ids circulate - illegal immigrants driver forgery market. 2020±

Mass "illegal" migration by millions of tech-savvy individuals escaping environmental / infrastructure failures causes a breakdown in trust in "government" issued authn/authz credentials, as there is far too high a % of forgeries, and government issued credentials can't be updated quickly enough.



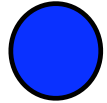
(49) Walgreens announces IdP profit center, expecting substantial profit margin contribution. 2012±

This follows the publication of numbers from eBay and Amazon that indicate that these companies generate substantial profits from asserting the identities of their existing users to others.



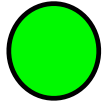
(44) DNA on Dating sites prevents potentially bad genetic matches before you start dating. 2025±

DNA profiles are routinely included in online dating profiles to facilitate identifying potentially adverse partners (eg. both carriers of sickle cell anemia) .



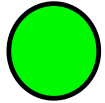
## (1) Database Owners Fined For Security Breaches Whether Or Not There Is Provable Theft Or Damage. 2009±

After hearings on the financial and personal losses following release of key data about individuals, Congress passed a law subjecting database owners to fines if they release or fail to adequately protect data about private individuals.



## (17) Display Ads Based on User's Social Network. 2011±

Given the prevalence of digital IDs and open access to social network data, many commercial websites use both individual and social network data in selecting and composing ads directed at individual users.



## (42) Biometric Cel phones get significant Adoption. 2009±

Nokia a makes available biometric cel phones (voice and fingerprint recognition.) Within a year these devices are 25% of new phone sales.

Where to continue diving into this content:

Identity Open Space on Wednesday 12-5

Identity Commons Working Group on Identity Futures

**Internet Identity Workshop December 3-5**

The whole “user-centric” identity community meets at this event and gets a lot of work done.

Thanks to John Kelly who worked with me to develop the “proto” scenario planning process we went through.