

Building Trusted Transactions Identity Authentication & Attribute Exchange In Public and Private Federations

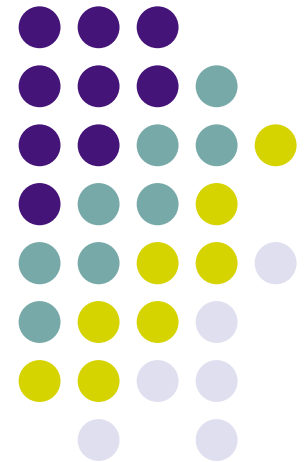
*Kantara Initiative
OrangeFT Paris 2010*

Joni Brennan, Kantara Initiative



Kantara Initiative Overview

Open and Agile...



Kantara Initiative is Born (mid-2009)



Kantara (kan-TAR-a): Swahili for "bridge";
Arabic roots in "harmony"

Primary focus to foster:

- industry coordination
- interoperability
- innovation
- broad adoption



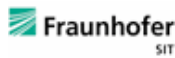
...through the development of:

- technical specifications
- operational frameworks
- deployment best practices
- compliance programs

Trustees



Members





Kantara Initiative enables Harmonization

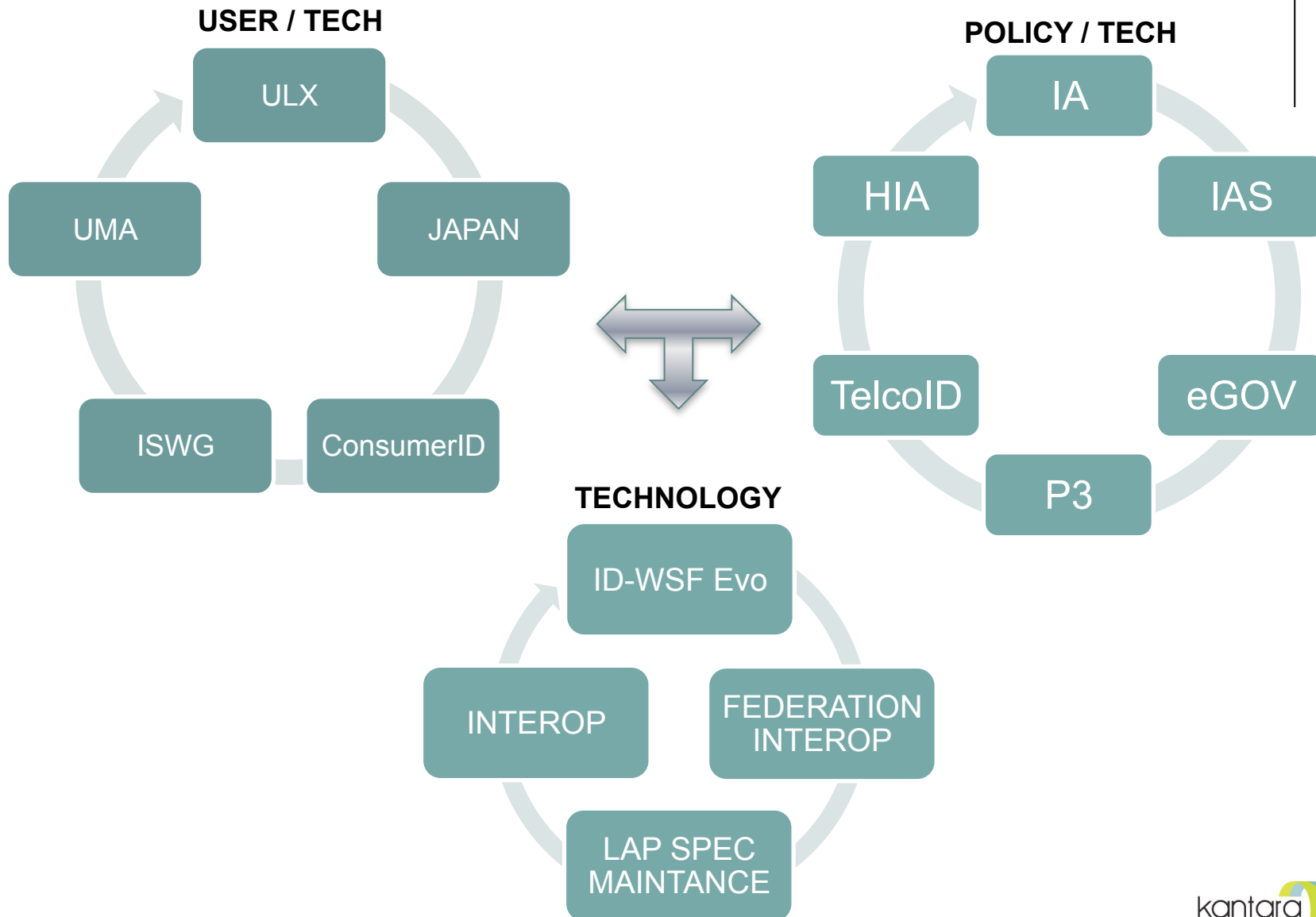
Bridging and harmonizing the identity community with actions that will help ensure secure, identity-based, online interactions while preventing misuse of personal information so that networks will become privacy protecting and more natively trustworthy environments.

It is our mission and goal to work openly with the Identity community to develop and harmonize real value solutions to solve issues facing Identity Access Management today...

<http://kantarainitiative.org>

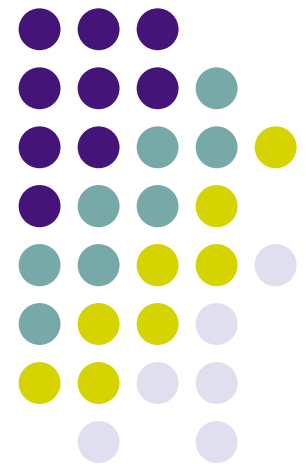


KI Work Group Ecosystem



Trust Frameworks Overview

What are Trust Frameworks?



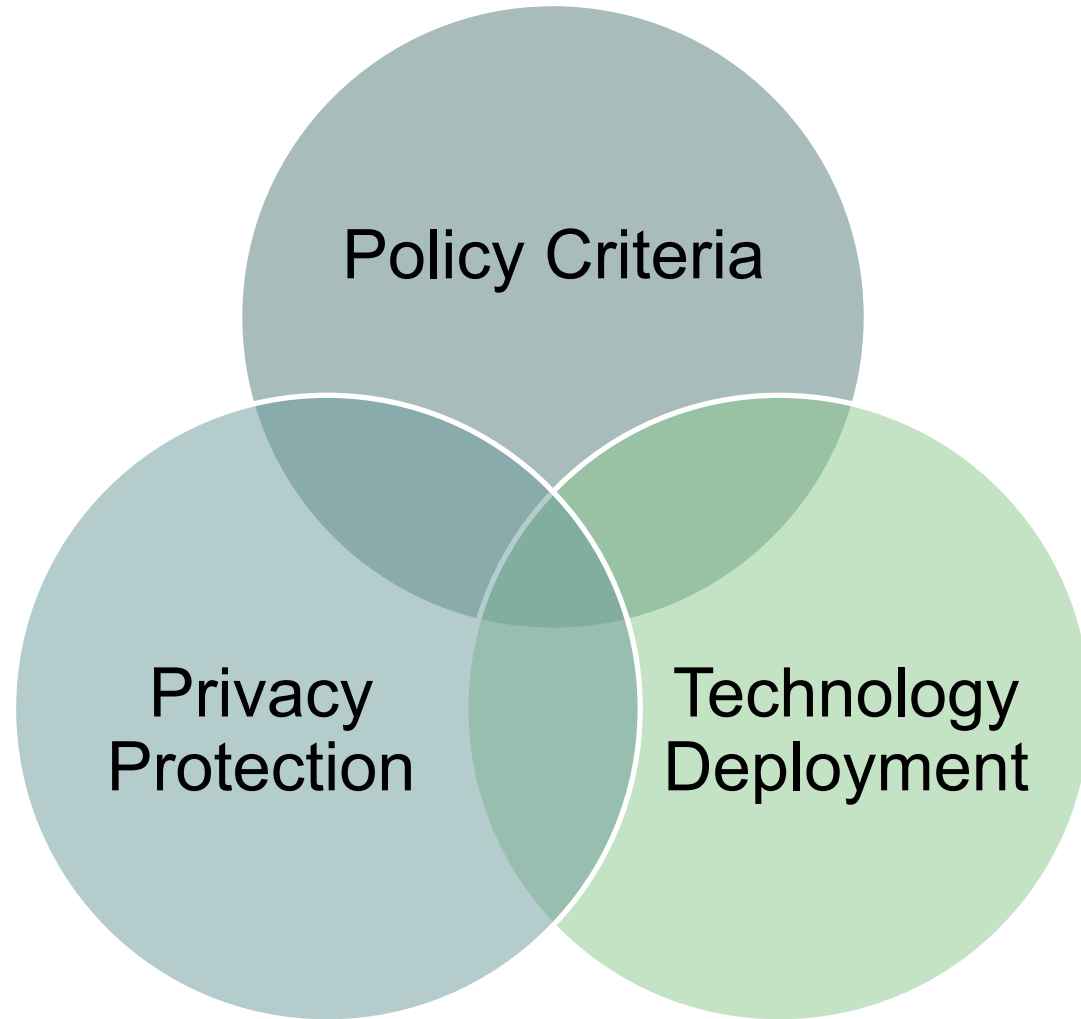
What do Trust Frameworks do?



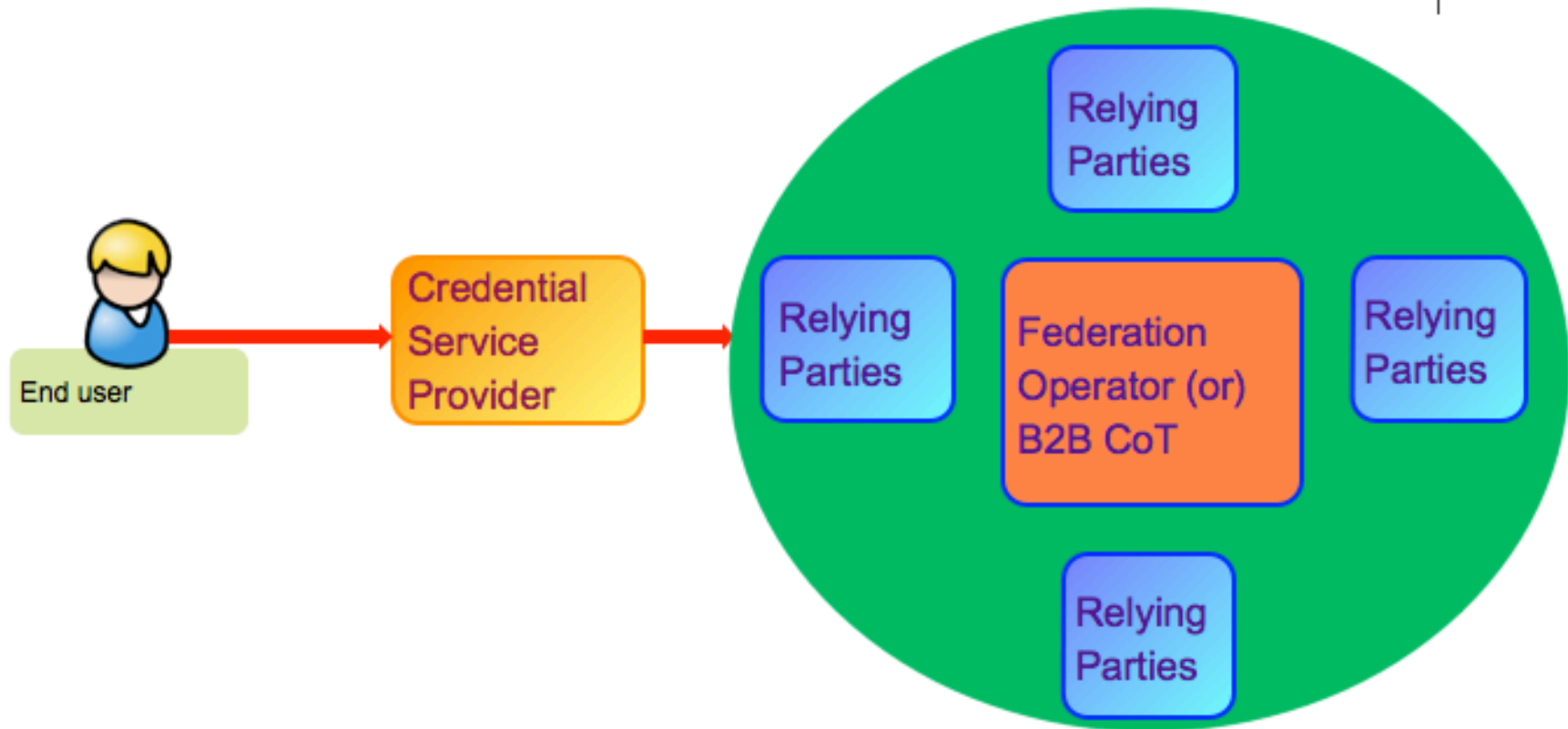
The Trust Framework model enables internet scale interoperability and trust in entities and their authentication systems through trusted and certified credentials.



Three Main Components



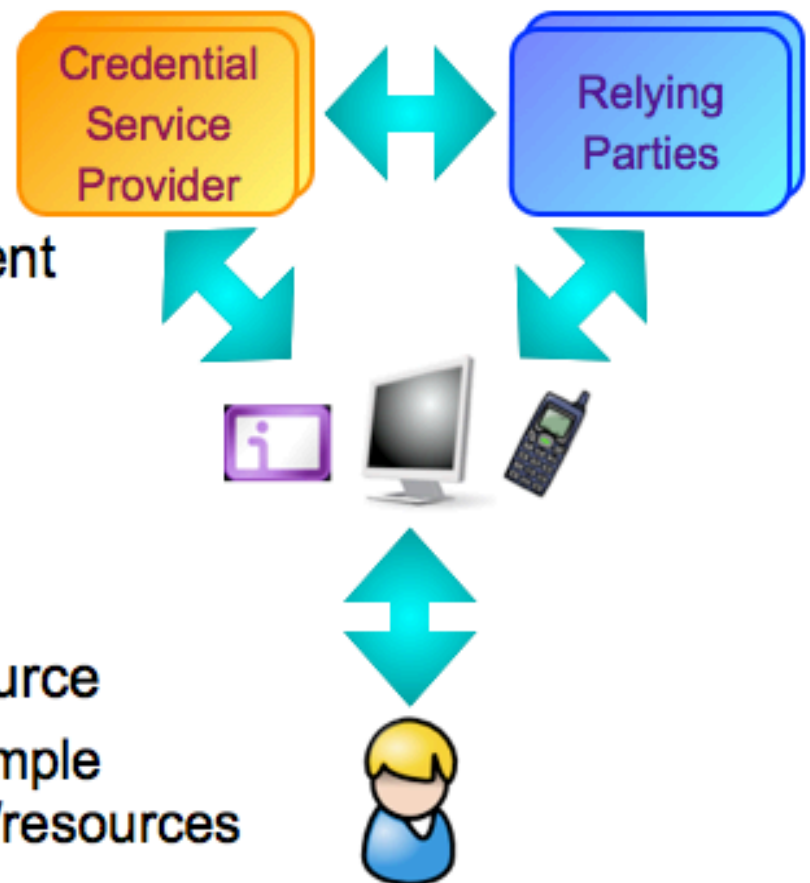
Identity Ecosystem: All About Trust





Federated Identity requires Technical & Policy Interoperability

- Credential Service Provider (CSP)
 - Identity Proofing
 - Credential Lifecycle Management
 - Operational Criteria for Trust
- Relying Party (RP)
 - Assesses Risk of Application
 - Complies with Best Practices
 - Provisions the Service or Resource
- User gets great experience: safe, simple access from any device to services/resources





Interoperability & Assurance:

- **Technical Interoperability**
 - Does the system that authenticates me (vouches for me) “talk” to the systems that protect the resources I want to access?
- **Operational Interoperability via: Standard Assurance Levels**
 - Do the CSP and RP management entities “trust” each others' systems, operating procedures, vetting practices, audit reports, etc.?

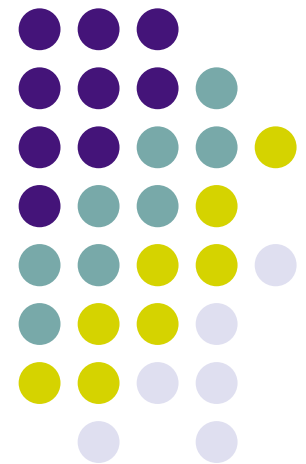
United States Government: Open Identity Solutions for Open Government (from GSA)



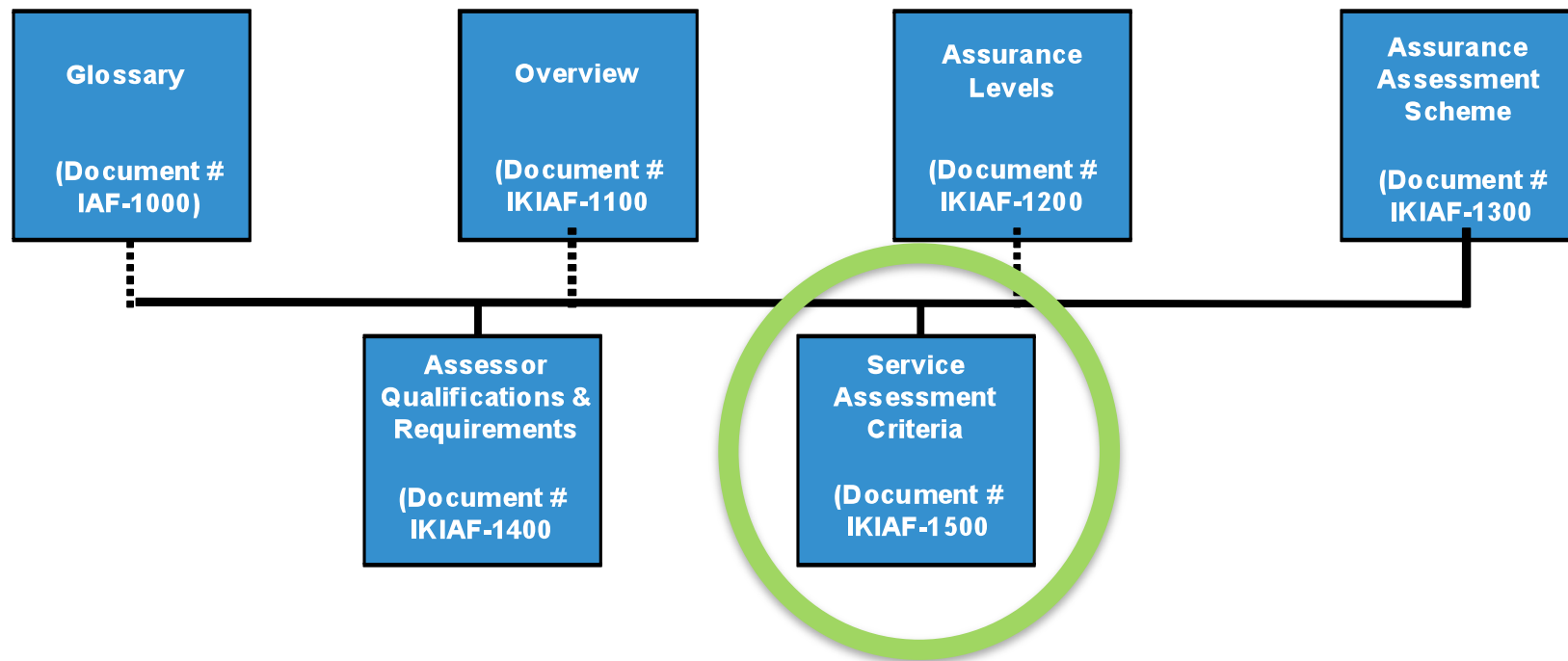
- The Open Identity Initiative seeks to leverage existing industry credentials for Federal use. The Initiative approves credentials for government use through our Trust Framework Providers who assess industry Identity Providers (IDPs).
- The Trust Framework Provider Adoption Process outlines the process that the ICAM community uses to sanctify organizations that assess commercial identity providers.

Kantara Initiative approach to Federated Identity

*Identity Assurance Framework –
one stop policy shop...*



Identity Assurance Framework Components



How to achieve operational interoperability at Internet scale



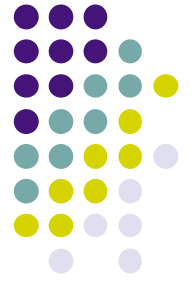
How to achieve operational interoperability at Internet scale



Kantara Initiative Accreditation and Certification



- Who should apply and how?
 - Assessors / Auditors
 - Credential Service Providers, Identity Providers
- For More Information
 - Visit our Assurance Certification Center:
http://bit.ly/assurance_certification
 - Connect with me: joni@ieee-isto.org



What's Next?

- Profiles, profiles and more profiles
 - Jurisdictional (governments), HealthCare, Financial, Telecommunications, etc
- Federation Interoperability Work Group (FIWG)
 - With input from international stakeholders FIWG developing tools for Federations to use for Interoperation.
 - Enabling communication of Meta-Data between Federations
 - Open for adoption by communities world-wide via Creative Commons IPR

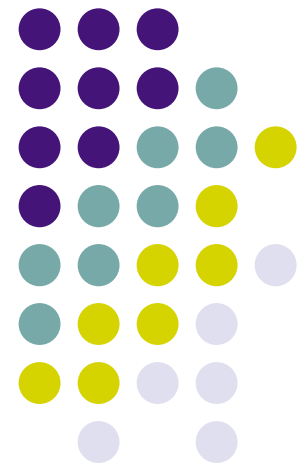


Benefits of Adoption

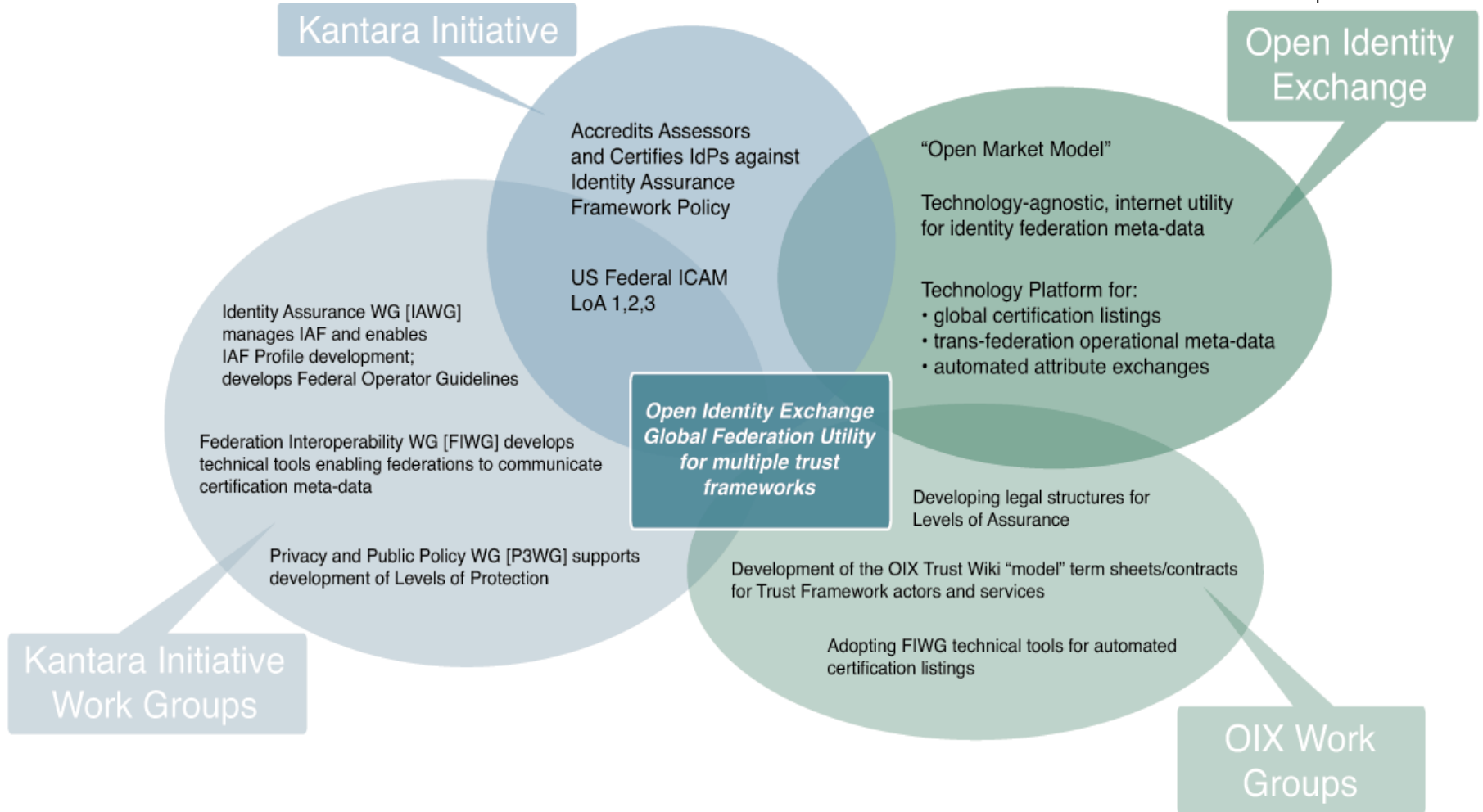
- US Government ICAM Adopted Level 1, 2, 3 non-crypto
- Identity Assurance Framework (IAF) is technology Agnostic
 - Can be adopted as organizational policy framework regardless of the technology protocol in place.
 - Lowers cost to jurisdictions and entities enabling eased transition in to Trust Framework Model
- Has Kantara Initiative international community input
 - Austria, Canada, Denmark, France, Japan, New Zealand, Sweden, United Kingdom, United States – the list keeps growing
- Enables Inter-federation through trusted and certified credentials
 - Could be applied across jurisdictional federations like the European Union.
- Enables Government entities to leverage private-sector activities

Working Together

Building Trust...



Collaboration



Kantara Initiative Work Groups



Kantara Initiative –

Identity Assurance (IAWG)

<http://kantarainitiative.org/confluence/display/idassurance/>

eGovernment (eGovWG)

<http://kantarainitiative.org/confluence/display/eGov/>

Federation Interoperability

<http://kantarainitiative.org/confluence/display/fiwg/>

Privacy and Public Policy (P3WG)

<http://kantarainitiative.org/confluence/display/p3wg/>

Open Identity Exchange (OIX) Work Groups



Telco Data Work Group

Verizon, AT&T, TNS, Pacific East, etc.

Public Media

National Public Radio, Public Broadcasting Service, etc.

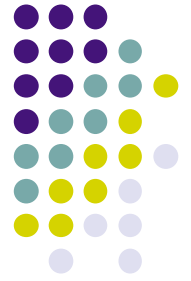
Librarians, Authors, Publishers

National Institute of Health, National Library of Medicine, ORCID, APA, etc

Identity Attributes Trust Framework

Google, Yahoo!, AOL, Hot Mail, etc.

OIX/Kantara Collaborative Work Groups



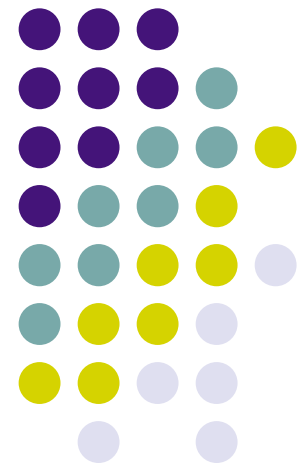
US ICAM Higher Levels of Assurance

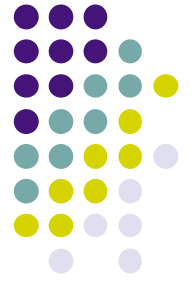
OIX, KI, US GSA, US NIH, etc.

- *A public private partnership to define new technical /policy profiles for higher levels of assurance (NIST LoA 2 and 3)*
- *A forum and forcing function to map policy and legal issues to government and citizen interaction over the web*
- *A collaboration among leading industry organizations to break new ground in trust framework development*

Introduction to OIX

A Market Solution to Online Identity Trust...





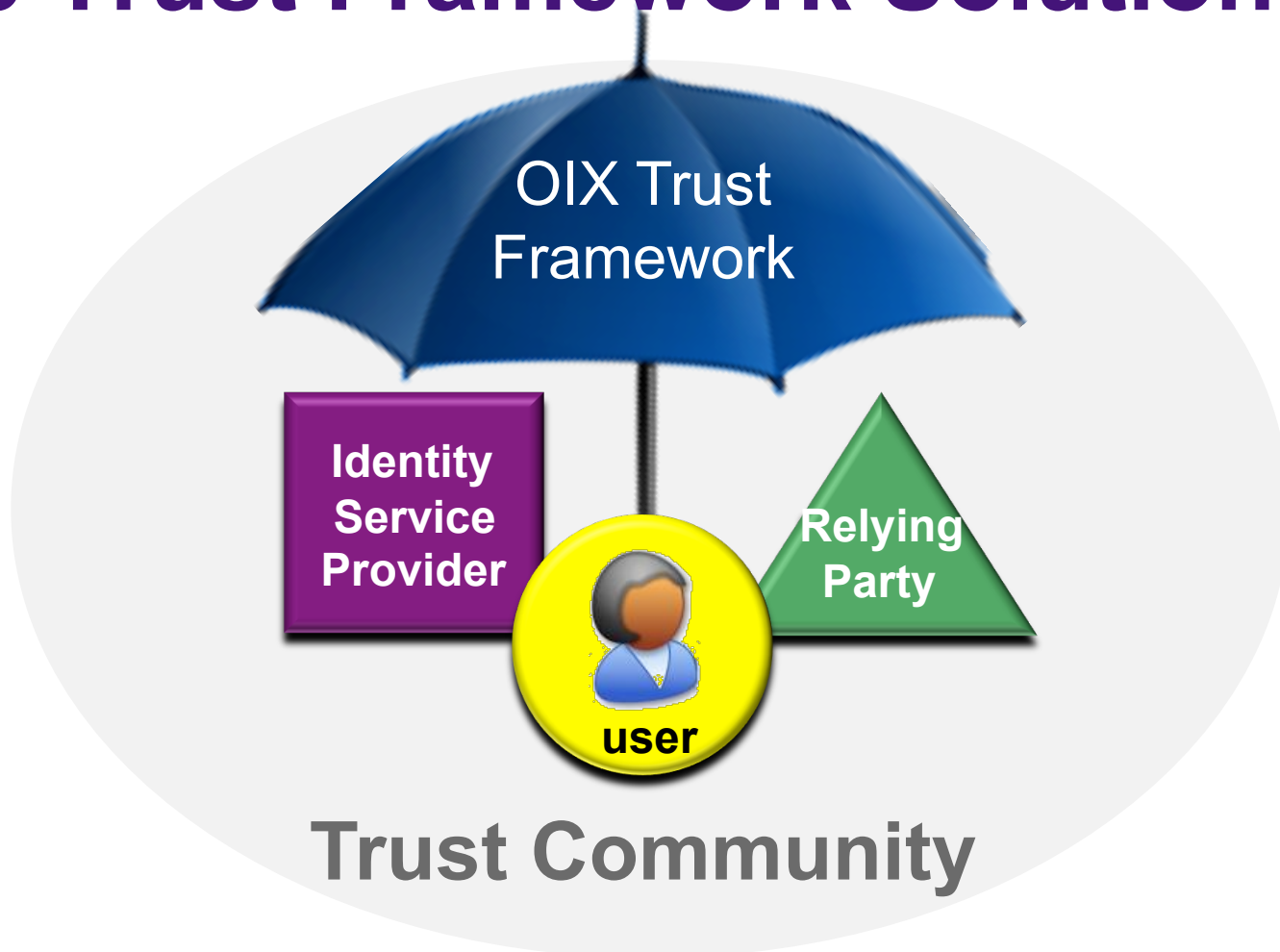
A Matter of Trust

- Relying Parties must be able to trust that the Identity Provider is providing accurate customer data
- Identity Providers must be able to trust that the Relying Party is legitimate (i.e., not a hacker, phisher, etc)
- Direct RP-to-IDP trust agreements are a common solution, but are impossible to manage at Internet scale

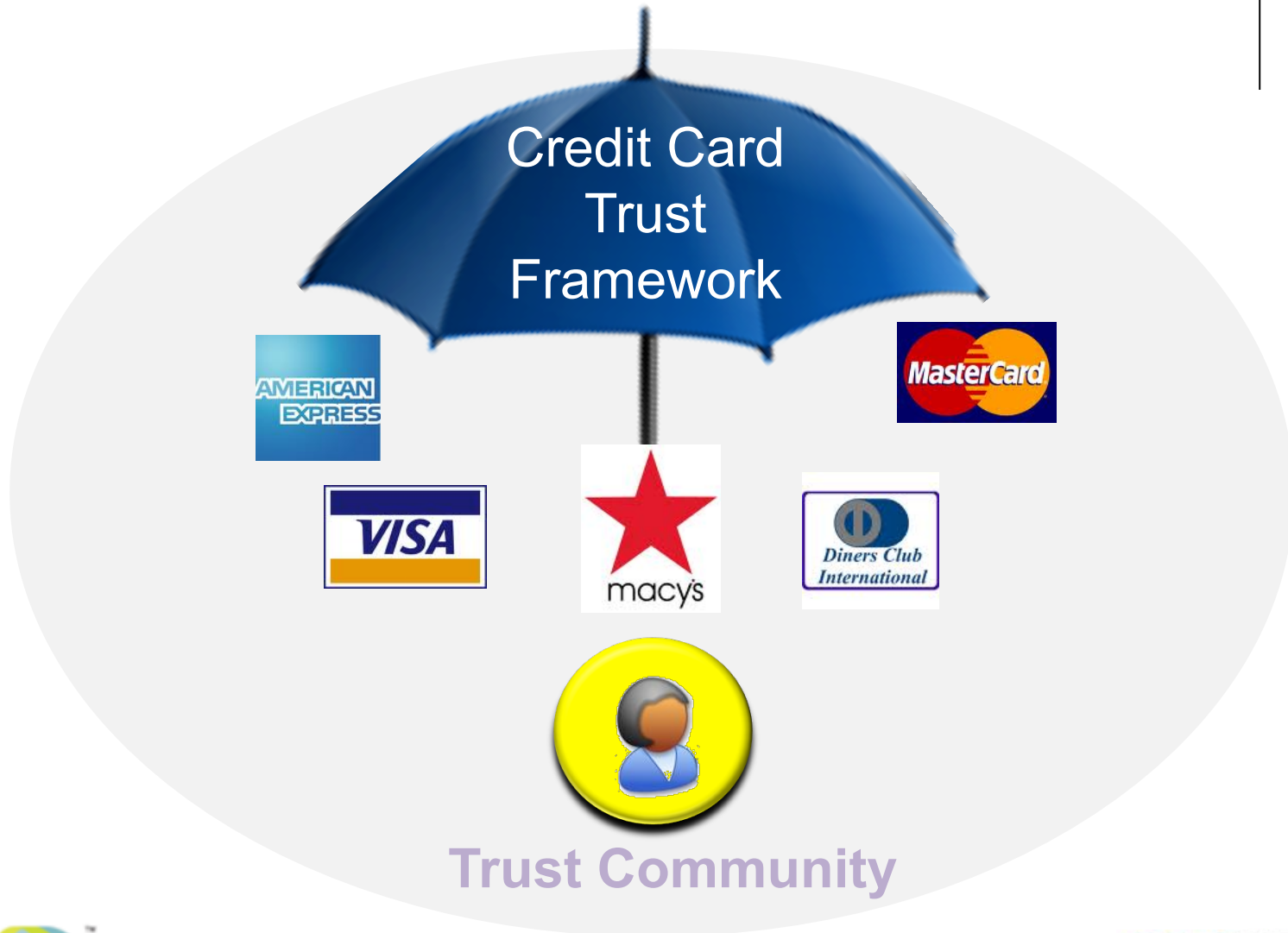




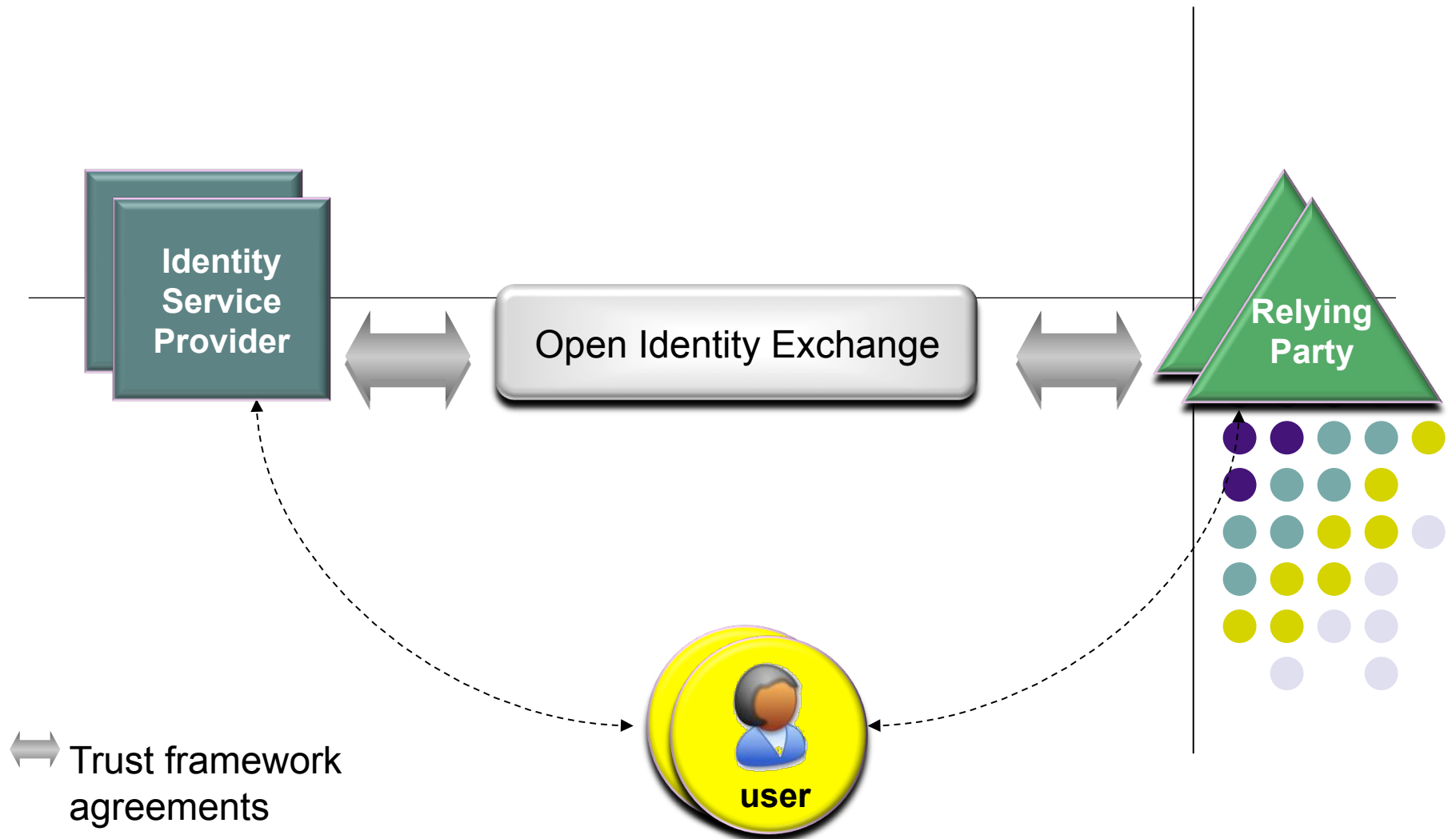
The Trust Framework Solution

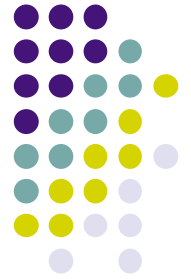


Proven Trust Frameworks Exist!



The OIX Identity Trust Framework Model





What OIX Provides



- Referee
 - Neutral, technology agnostic provider of trust frameworks

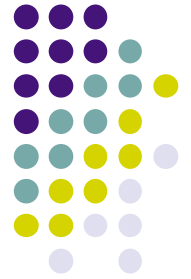


- Certification Listing Service
 - Machine-readable information about trust framework participants and certifications



OIX Drives Adoption

- By improving market efficiency
- By providing openness and transparency
- By ensuring credibility and accountability in the system
- By enabling improved user experience

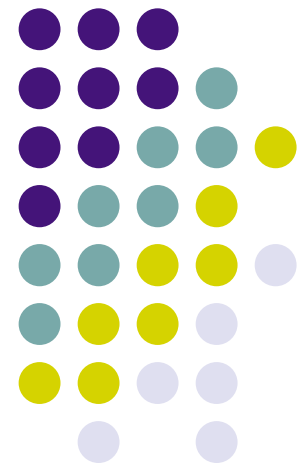


Real World Examples

- OIX U.S. ICAM (Identity, Credential, and Access Management) Trust framework
 - For U.S. federal government agencies
- OIX Telecom Data Trust Framework
 - For Telco Data Services providers
 - For Data Aggregators

Summary

***OIX and KI work together to provide
an Internet-scale solution
to enable trusted online
digital identities***



Thank You!

Get in touch...

Joni@kantarainitiative.org

