

GDPR, PSD2, CIAM, and the Role of User-Managed Access (2.0)

U M A

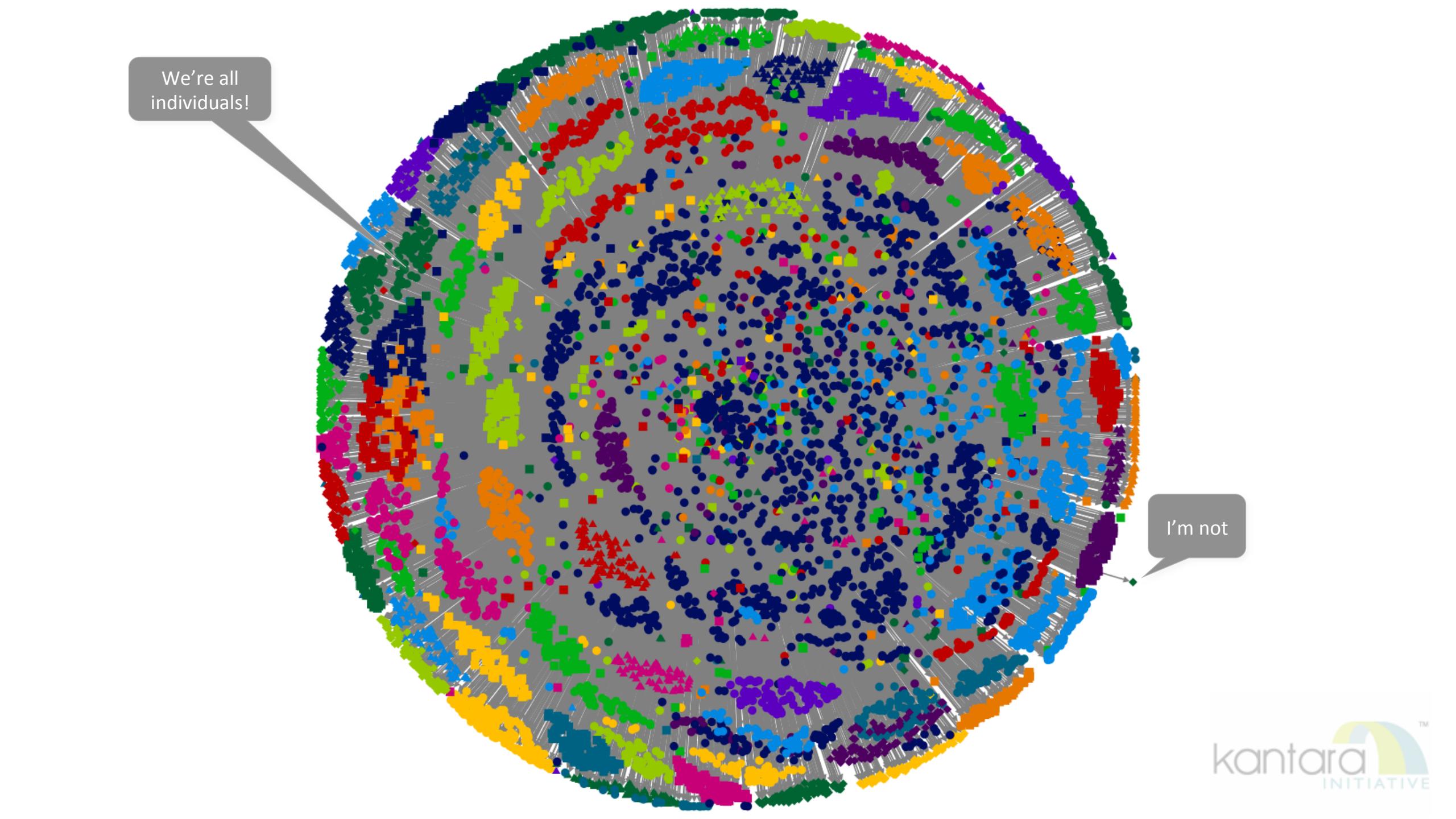
Eve Maler, UMA Work Group Chair

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Kantara CIWUSA17 pre-conference workshop 11 Sep 2017

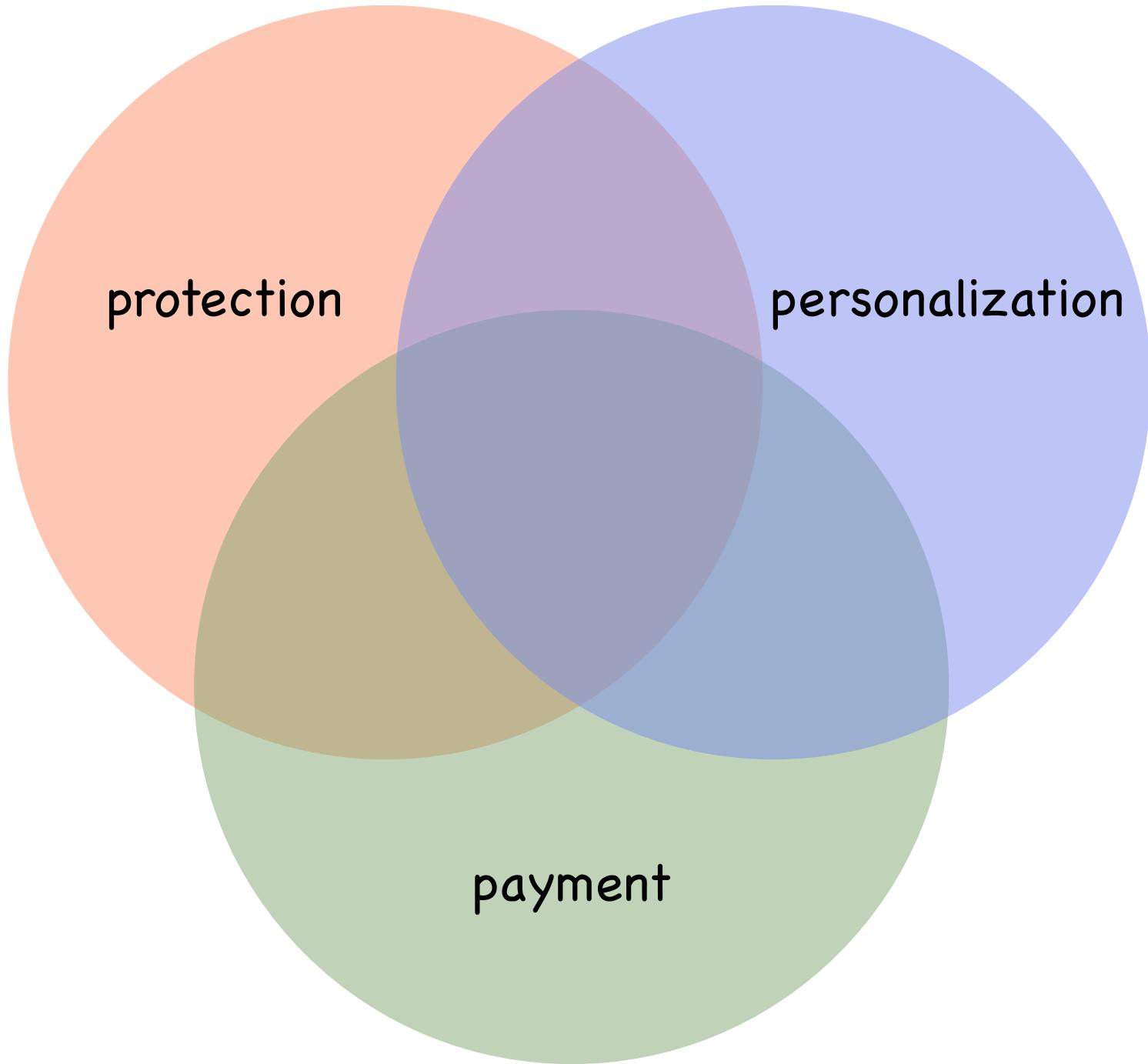


LIKE A BOSS



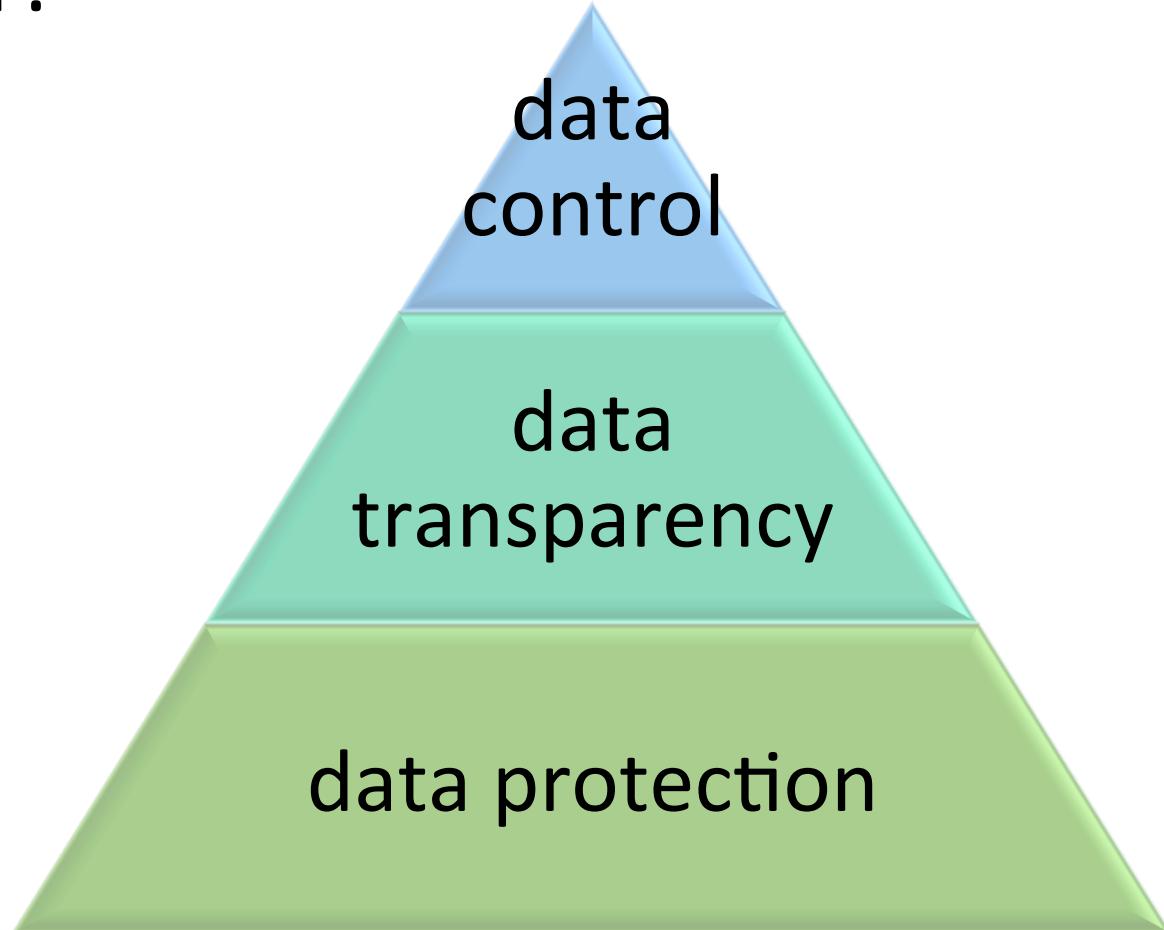
We're all
individuals!

I'm not



What makes data privacy regulations different this time around?

- Virality
- Aspirations



A photograph of a group of hikers walking along a dirt trail through a lush green mountain slope. The trail leads towards a rocky mountain peak in the background under a clear blue sky.

Take steps

Identify intersections between digital transformation opportunities and user trust risks

Conceive of personal data as a joint asset

Lean in to consent

Take advantage of identity and access management for building trust

How can UMA be relevant to these imperatives?

The UMA extension grant enhances OAuth in the following ways:

- The resource owner authorizes protected resource access to clients used by entities that are in a requesting party role. This enables **party-to-party authorization**, rather than authorization of application access alone.
- The authorization server and resource server interact with the client and requesting party in a way that is asynchronous with respect to resource owner interactions. This lets a resource owner **configure an authorization server with policy conditions at will**, rather than authorizing access token issuance synchronously just after authenticating.

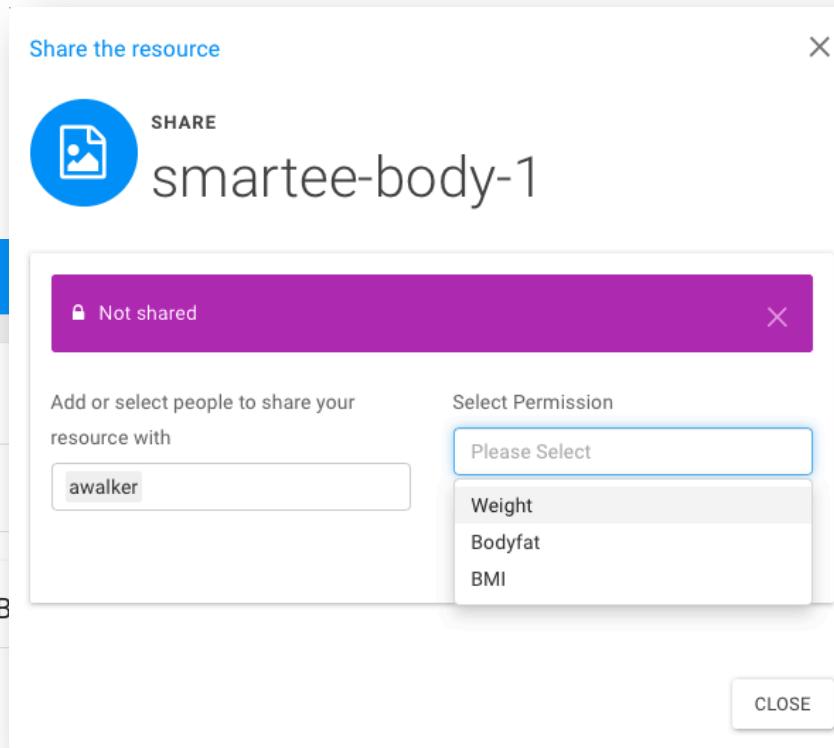
UMA's federated authorization enhances the UMA grant as follows:

- **Multiple** resource servers operating in different domains can communicate with a **single** authorization server operating in yet another domain that acts on behalf of a resource owner.
- A service ecosystem can thus automate resource protection, and the **resource owner can monitor and control** authorization grant rules through the authorization server over time.
- Authorization grants can **increase and decrease** at the level of individual resources and scopes.

What does it enable? Pinpoint sharing without caring what others want first

Patient view

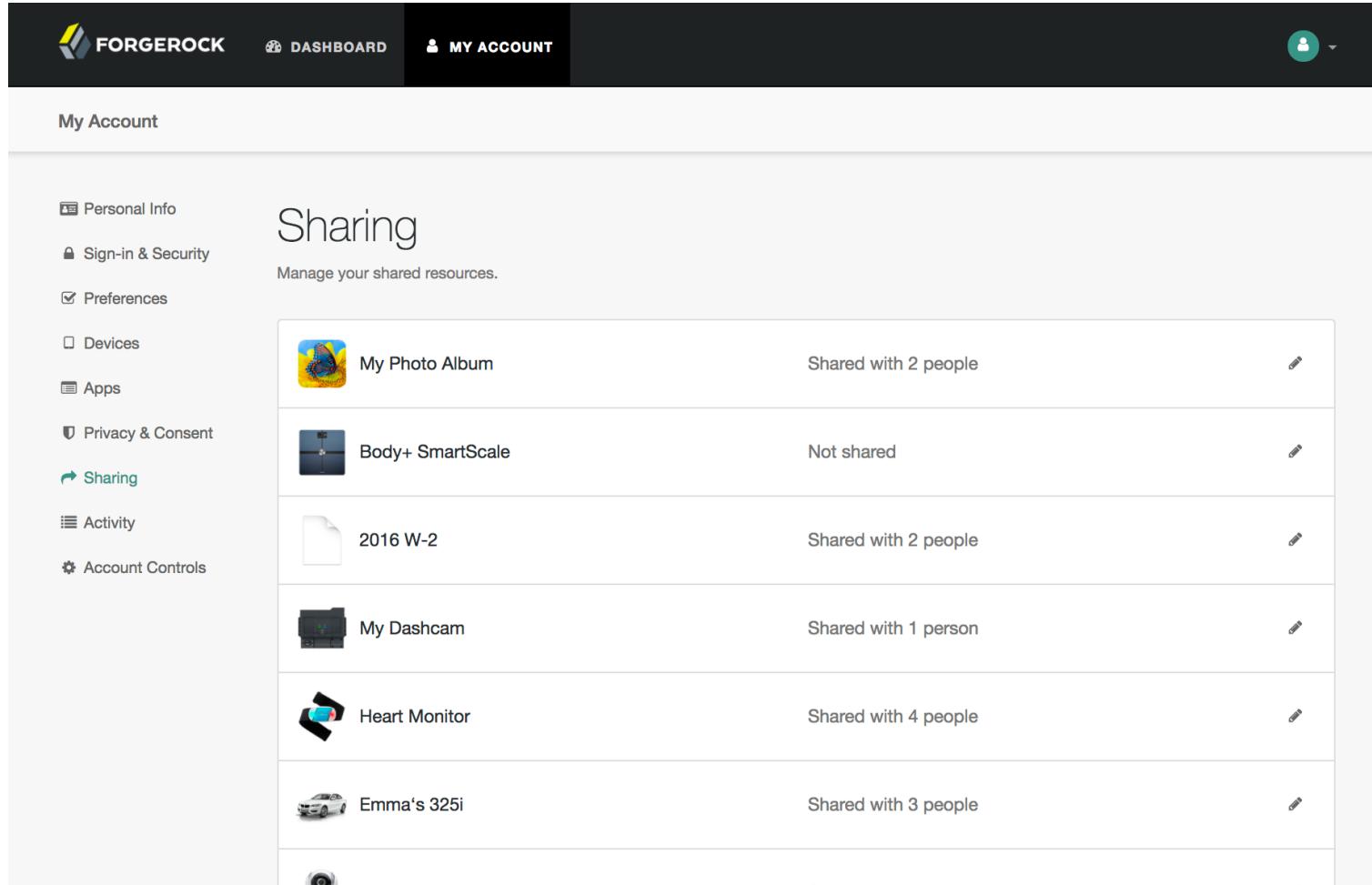
The Patient view interface shows a CloudyHealth DeviceConnect header. Below it, a device named "SmabeeBody smartee-body-1" is connected. The main content area displays two data points: "Weight" (73) and "Body Fat" (34), each with a "READ" button below it. At the bottom, there is a "Smartee Body" section and a "Display a menu" link.



Doctor view

The Doctor view interface shows a green header with "LABS" and "PRESCRIPTIONS" tabs. On the right, a green button says "IMPORT INTO PATIENT RECORD". The main content area shows the same "Weight" (73) and "Body Fat" (34) data as the patient view, but with green "READ" buttons. The "Smartee Body" section at the bottom is identical to the patient view.

What does it enable? “Single pane of glass” control



The screenshot shows the Forgerock My Account interface. The top navigation bar includes the Forgerock logo, a Dashboard link, a My Account link, and a user profile icon. The main content area is titled "Sharing" and contains the sub-instruction "Manage your shared resources." A sidebar on the left lists account management categories: Personal Info, Sign-in & Security, Preferences (selected), Devices, Apps, Privacy & Consent, Sharing (selected), Activity, and Account Controls. The main content area displays a list of shared resources:

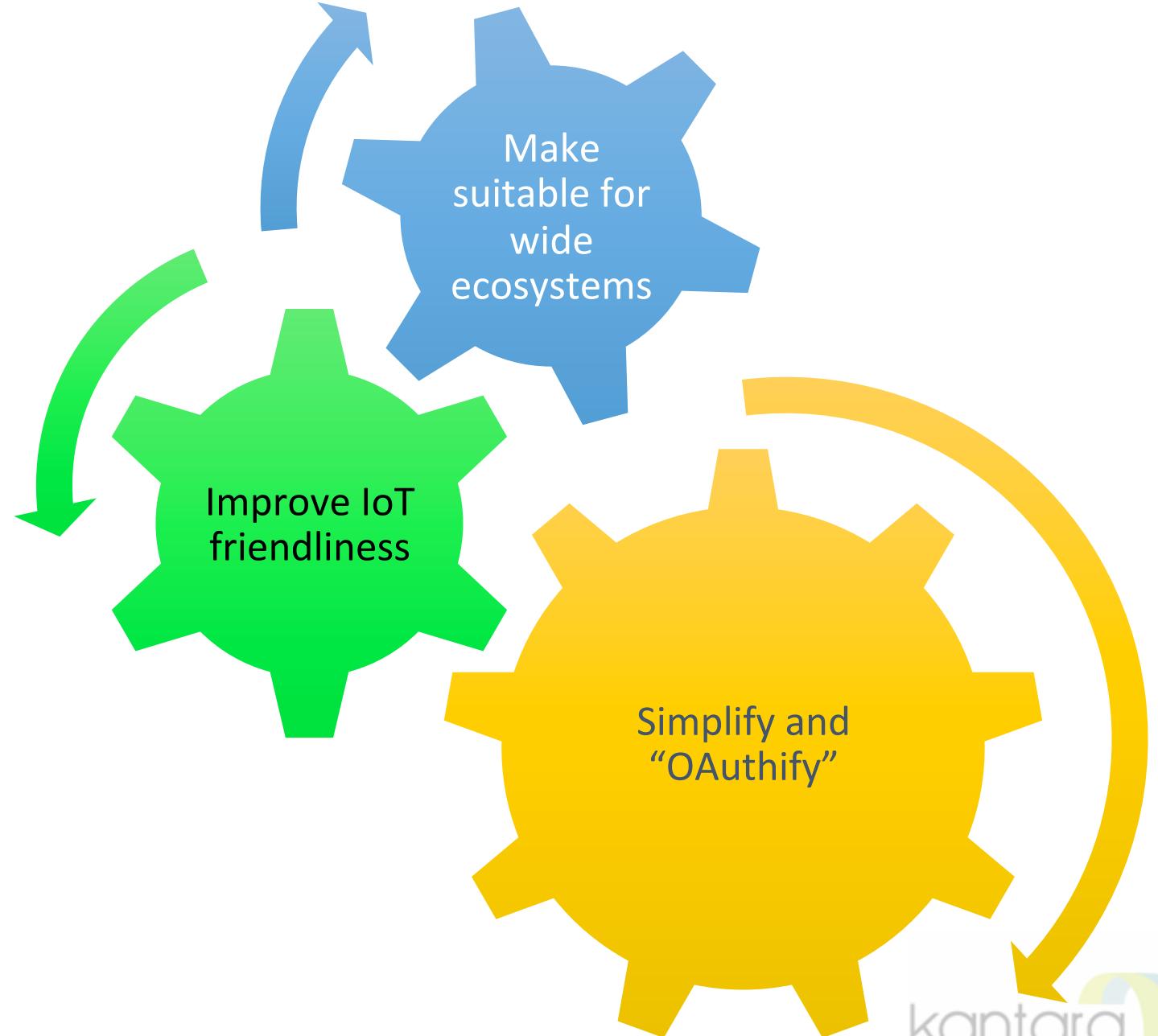
Resource	Sharing Status	Action
My Photo Album	Shared with 2 people	edit
Body+ SmartScale	Not shared	edit
2016 W-2	Shared with 2 people	edit
My Dashcam	Shared with 1 person	edit
Heart Monitor	Shared with 4 people	edit
Emma's 325i	Shared with 3 people	edit

What's UMA 2.0 all about?

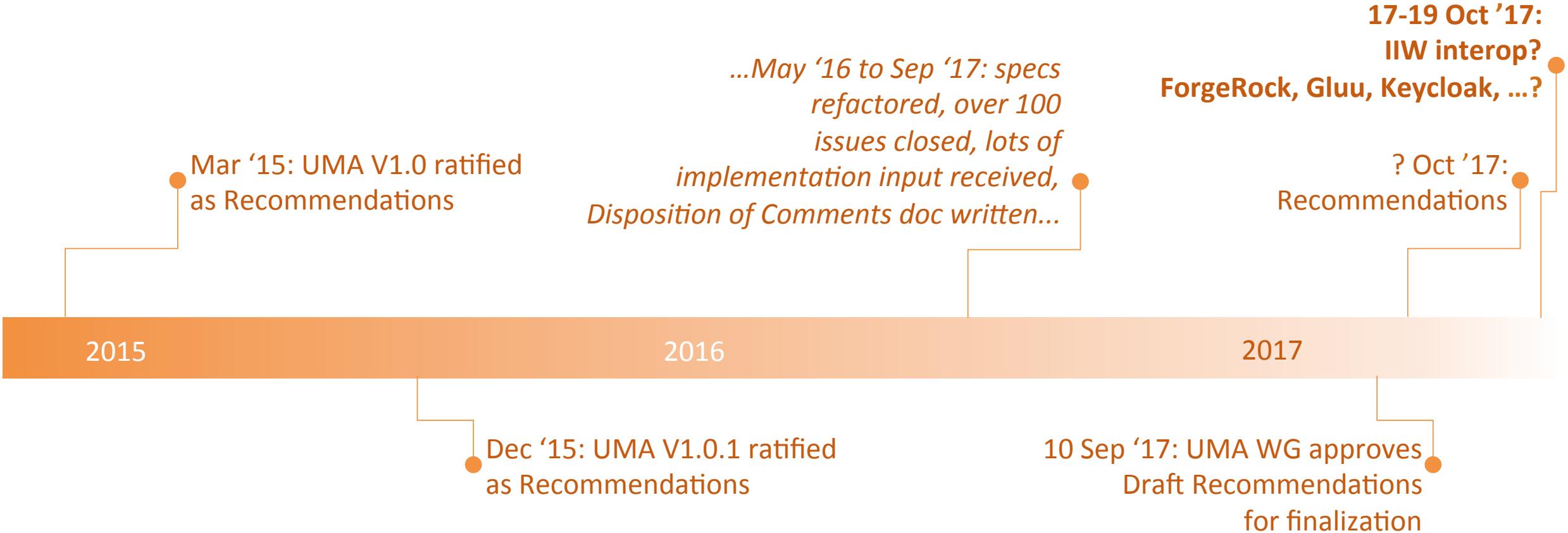
- UMA1 built all this capability using OAuth and OpenID Connect piece-parts
 - Some of its design preceded (and influenced) modern OAuth, OIDC, JWT, etc. practice
- We collected implementation experience
 - In the meantime, the Internet of Things happened, a natural fit for UMA, as did HEART
- So we embarked on an upgrade roadmap

UMA2 goals

- Wide ecosystem = when Alice knows who she wants to share with (or a class of “who’s”), but the service managing her access has never met them before they attempt access
- We believe we have met all these goals and increased security

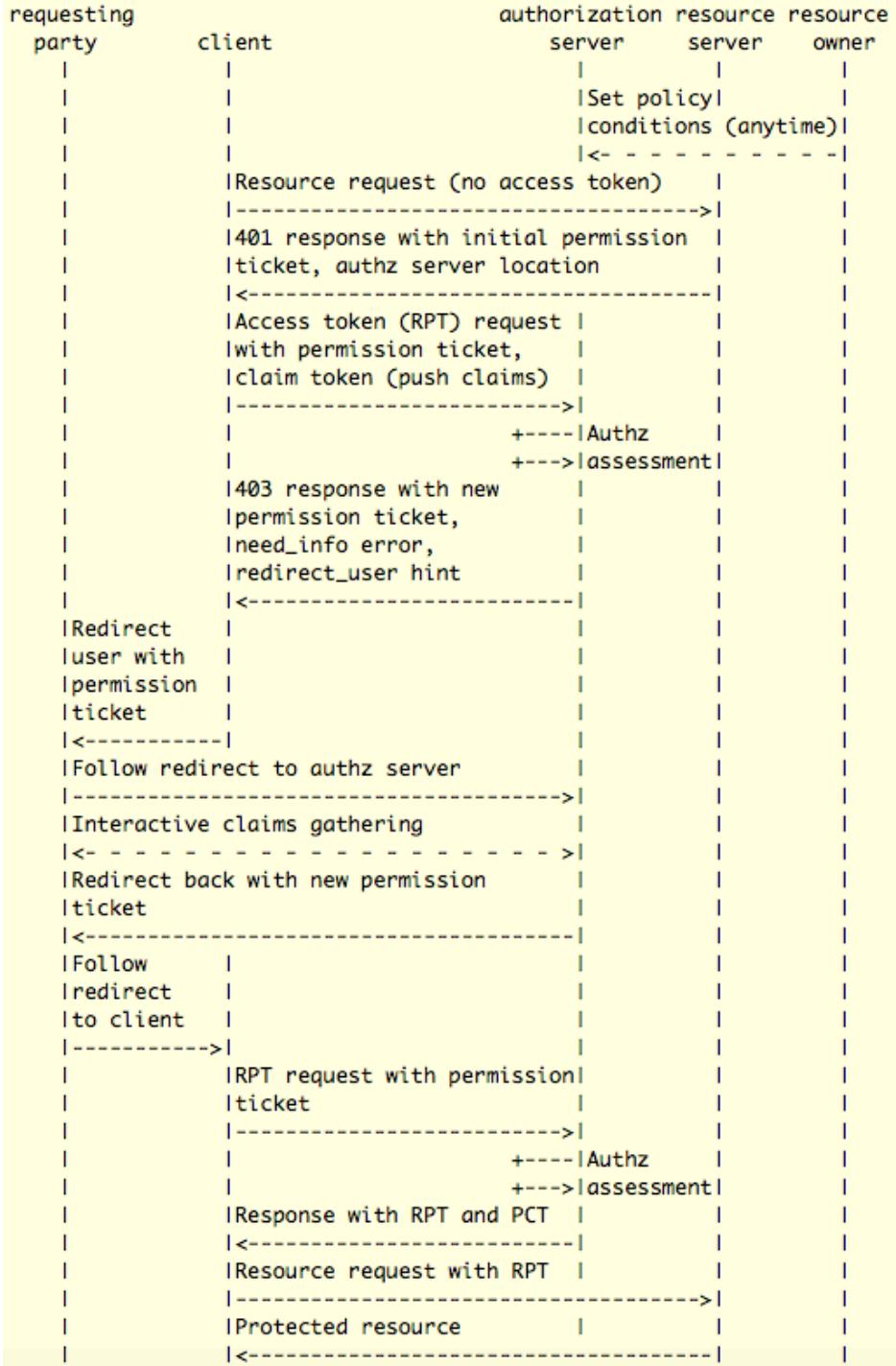


Timeline



Want to get a little geeky? Here's the whole UMA grant in a nutshell

- All major options, with success paths
- Find links to detailed swimlanes at tinyurl.com/umawg



UMA2 is not the end of our work

UMA Legal

- Exciting work on a **legal framework**, a major underlying portion of which is just being completed
- We have been working with legal expert **Tim Reiniger**, who wrote the Virginia digital identity law

Extensions and futures

- The Work Group has saved off a variety of exploratory ideas for future work in GitHub issues with the label **extension**
- Examples:
 - Integration points for consent receipts
 - Optimized flows that remove the need for the permission ticket

Thank you!
Questions?

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