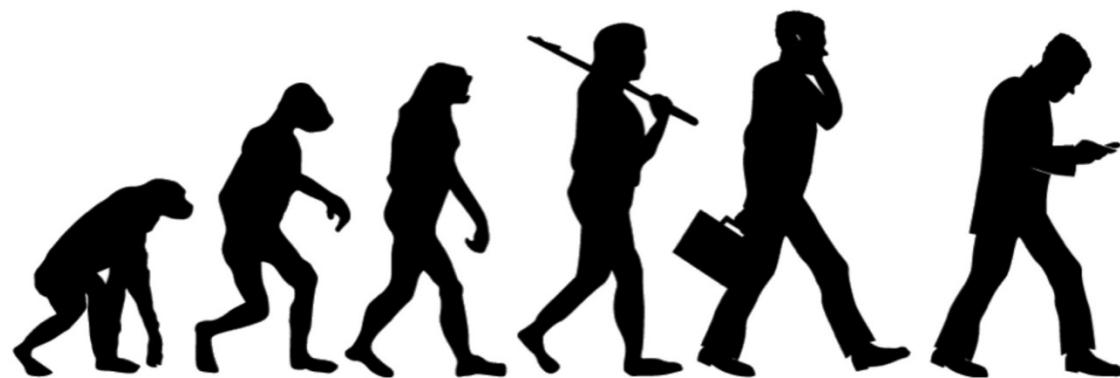




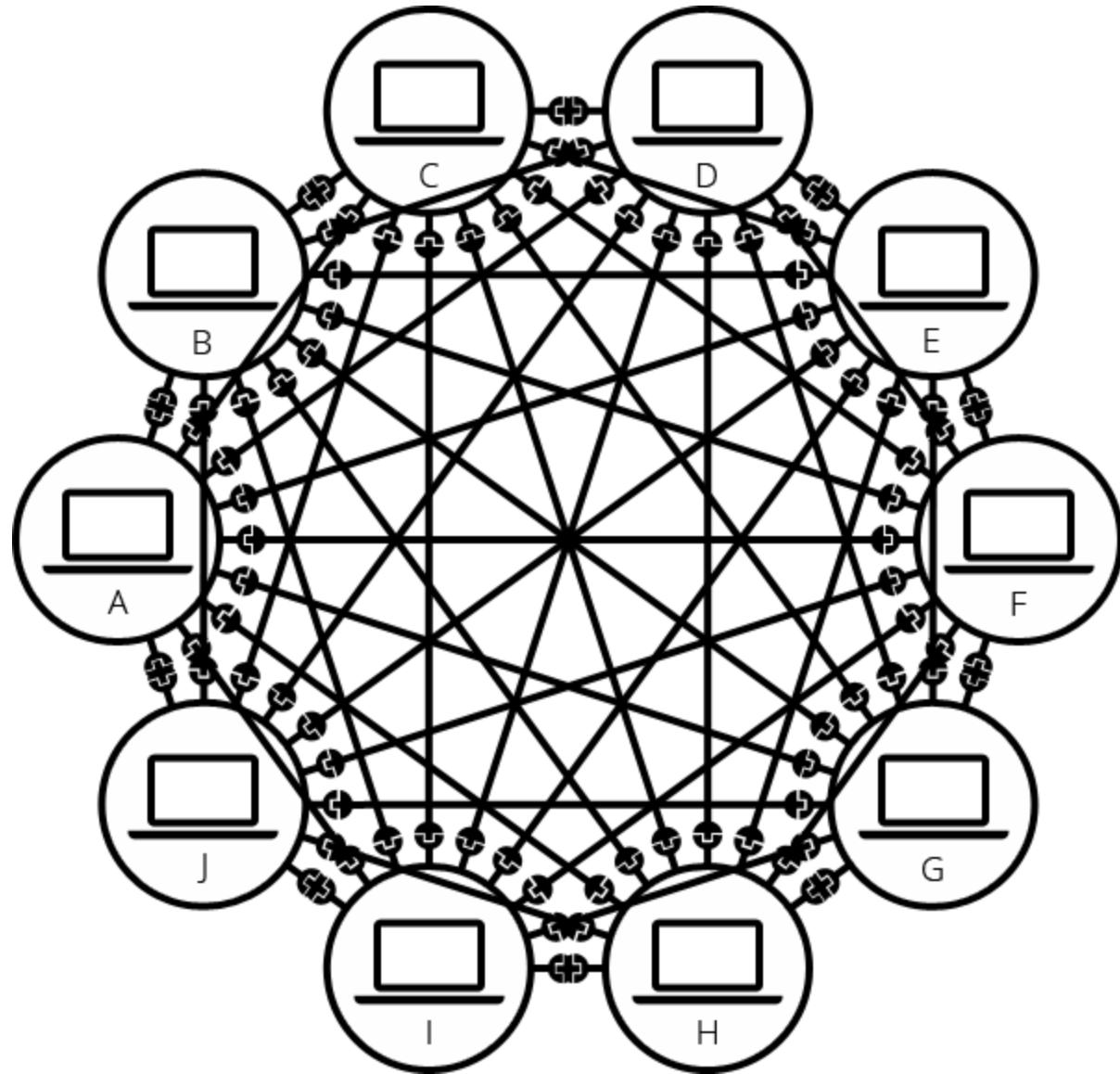
**Defragmenting the Internet
for fun and non-profit**

**First, let's consider our
origins...**



**What was the original
promise of the Internet?**

An interoperable platform for
sharing data.



What is the reality today?

User data is trapped in vendors.



**Services are getting more and
more fragmented...**

**The user experience is
broken...**

For example:

**What does it mean to
"call someone via WebRTC"?**

Invitation: Kranyak Geek @ Thu Apr 9, 2015 3:30pm – 3:55pm (tsahi.leventlevi@gmail.com)

Get Messages Write Chat Address Book Tag

This message contains an invitation to an event.

From Tsahi Levent-Levi ★ Reply Forward Redirect Archive Junk Delete

Subject Invitation: Kranyak Geek @ Thu Apr 9, 2015 3:30pm – 3:55pm (tsahi.leventlevi@gmail.com) 09/04/2015 12:23

To Me <matthew@matrix.org> ★ Other Actions

Tsahi Levent-Levi has invited you to Kranyak Geek

Title: Kranyak Geek

Location: <https://beta.talky.io/tsahil>

When: 9 April 2015 13:30 – 13:55

Organiser: Tsahi Levent-Levi <tsahi.leventlevi@gmail.com>

Description: View your event at <https://www.google.com/calendar/event?action=VIEW&eid=Z2c2b3BmbGxtNzUxcTRkb25qZDBvZGEyZTggbWF0dGhld0BtYXRyaXgub3Jn&tok=MjYjdHNhaGkubGV2ZW50bGV2aUBnbWFpbC5jb204NTdINGE2NjBhNmM2ZGU1NGUzZDA&ctz=Asia/Jerusalem&hl=en>

Attendees: Tsahi Levent-Levi <tsahi.leventlevi@gmail.com>
 matthew@matrix.org <matthew@matrix.org>

1 attachment: invite.ics 1.1 kB

invite.ics 1.1 kB

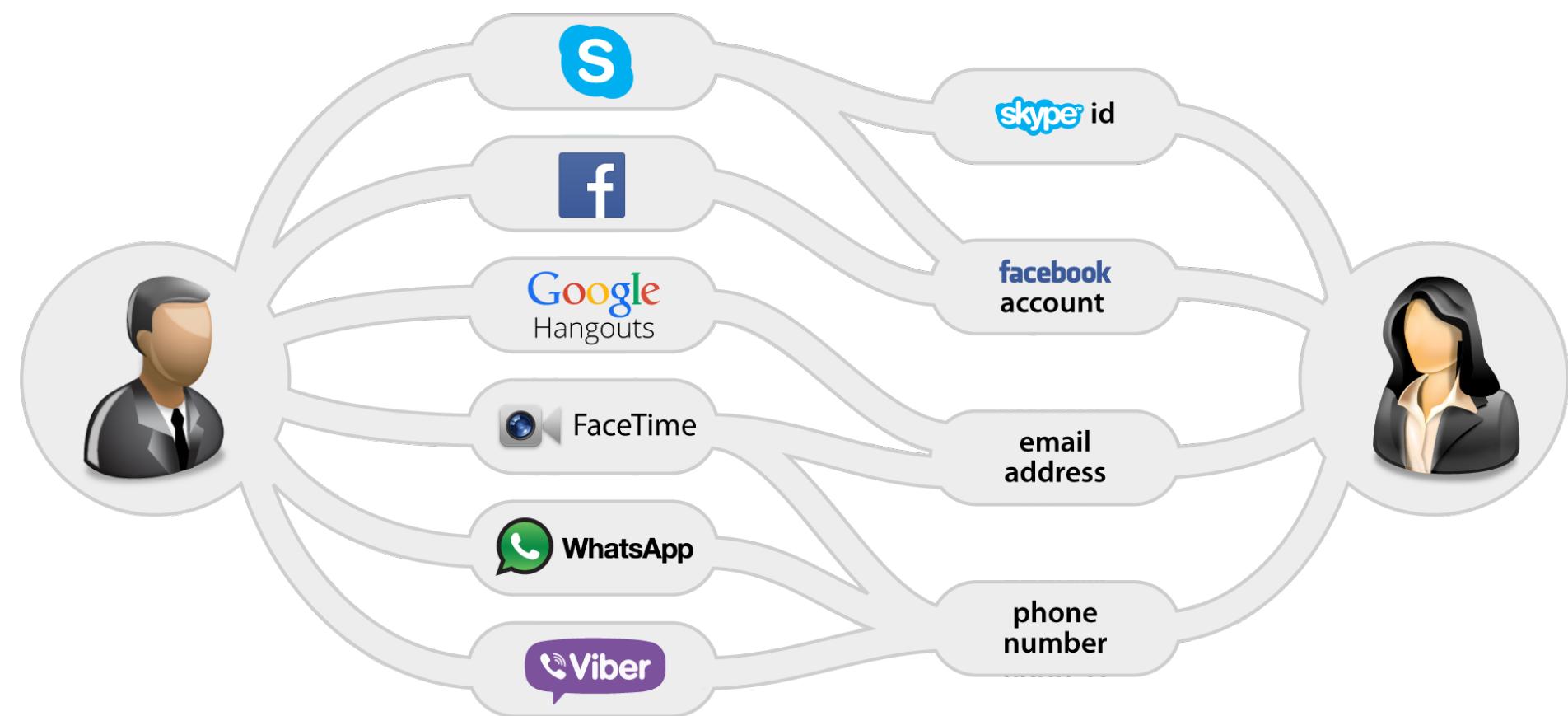
Title:	Kranky Geek
Location:	https://beta.talky.io/tsahil
When:	9 April 2015 13:30 - 13:55
Organiser:	• Tsahi Levent-Levi

**Why should I have to use
Tsahi's app?**

**Why should I trust
Tsahi's app?**

**Why should the data for this
call get trapped in Tsahi's
app?**

**How do I know how to
contact Tsahi in future?**



**And similar situations exist
for IoT, IM, and any type of
data!**



The Internet is cracking up!

**Imagine a world where
data is owned by the user
and securely shared across
services**

What would it take?

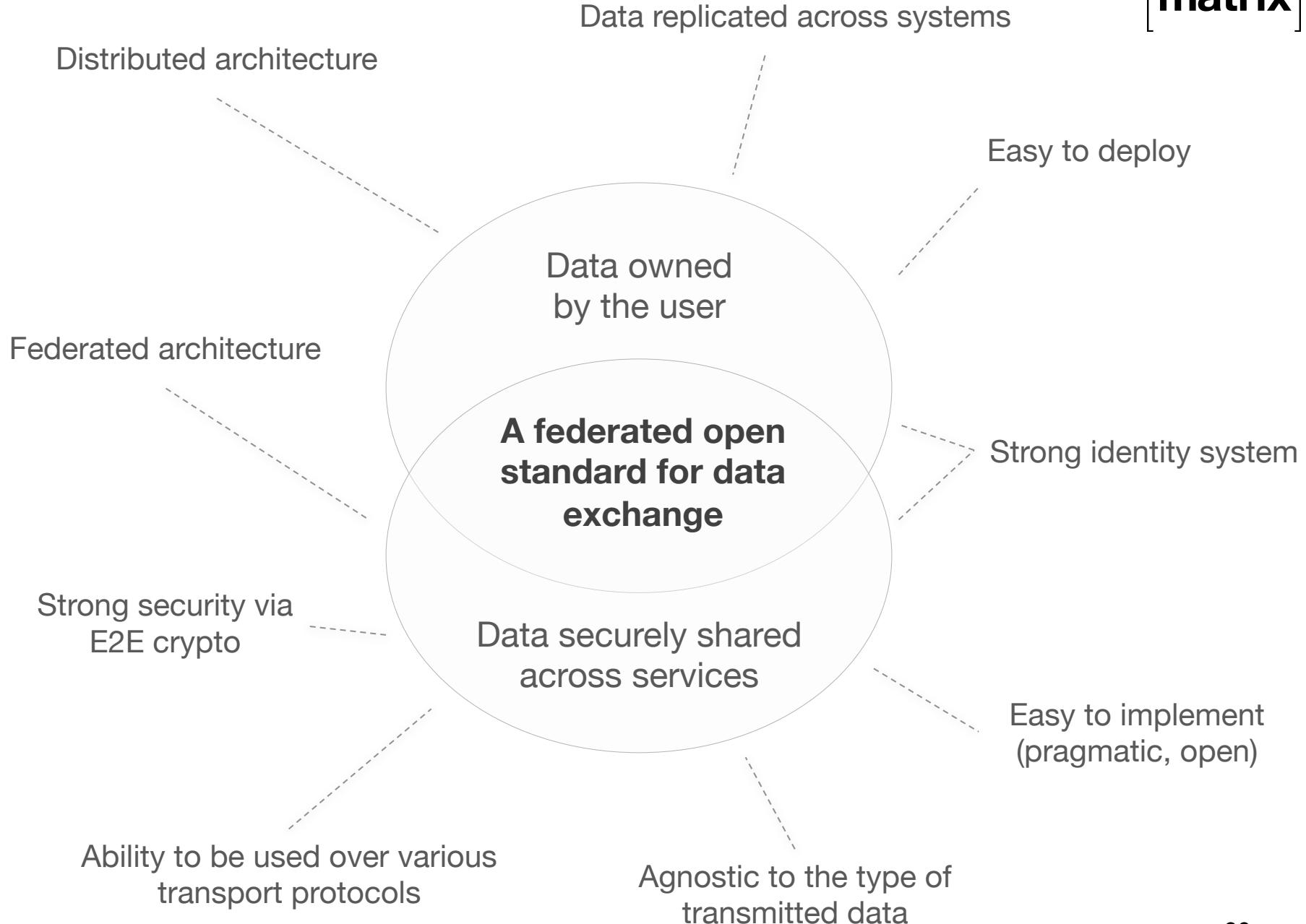
**A federated open standard
like Email and the Web...**

...but for data exchange.

A federated open standard for data exchange...

- Backed by a strong community
- Endorsed by various industries
- As pragmatic as SMTP
- As open as HTTP

Digging a bit further:



Enter Matrix:

**Aiming to provide the missing
federated open standard for
data exchange**



What is Matrix?

Non-profit Open Standard / Open Source (Apache Licensed) project



**Provide an
open global network
for securely exchanging
and storing real-time data.**

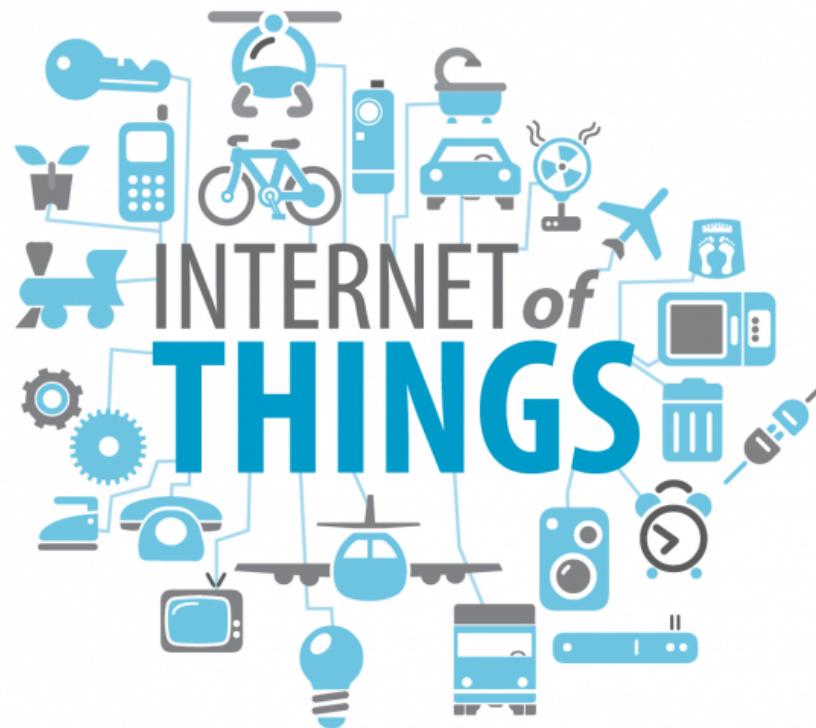
Could be WebRTC Signaling



Or Group Messaging



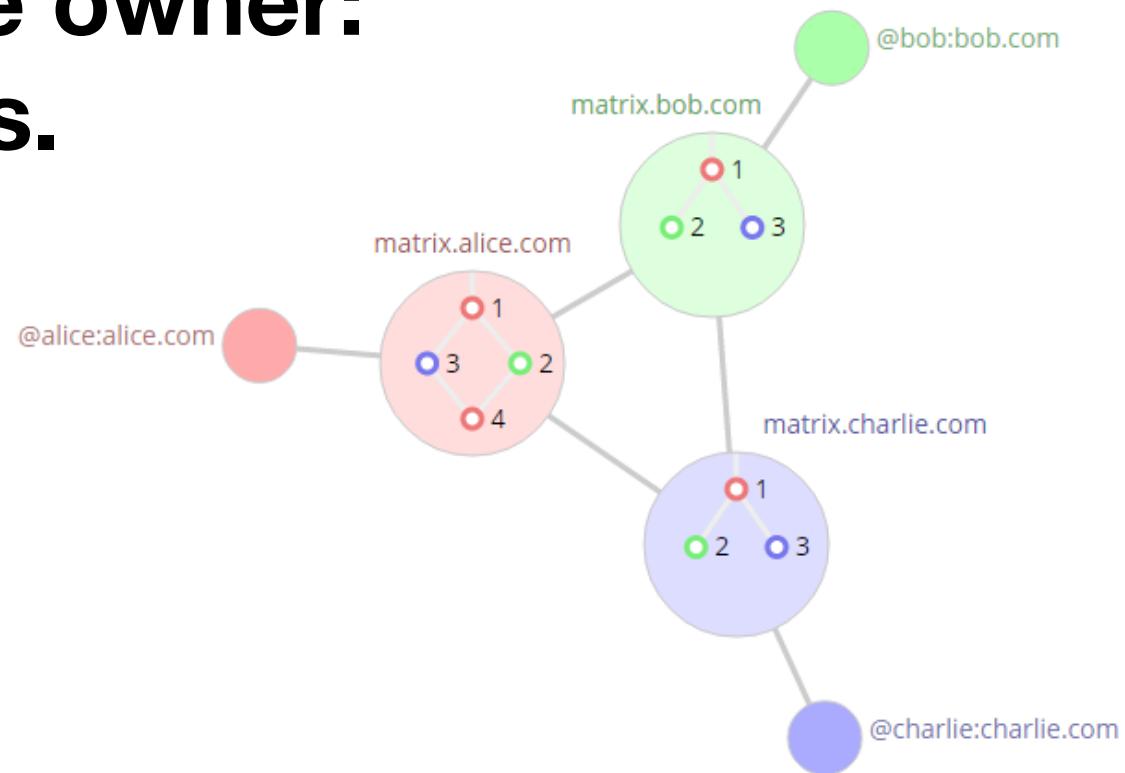
Or IoT Data



**A simple HTTP API layer
on top of the existing web,
that provides a consistent simple way
to publish and subscribe
to data in realtime.**



All data is securely decentralised using a blockchain-style system
- not stored in any single place, under any single owner:
no SPOF/SPOCs.



Everything is group communication, and all communication has persistent history.





**Matrix realises WebRTC's
full potential as a universal
media layer for the Internet**

**We have a choice: create new
islands or create
interoperable services.**

Sometimes islands make sense



**But sometimes
interoperability and federation
makes sense too!**



Where are we at?

September 2014 - Disrupt SF

Launched Alpha (v0.2)

- Initial draft of v1 Spec and APIs
- Apache-Licensed Python reference implementation (Synapse)
- Basic Angular web client implementation for group chat and VoIP.
- Client SDKs for Perl

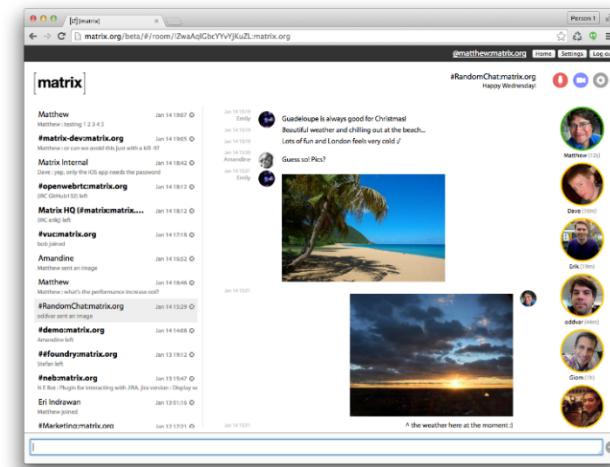
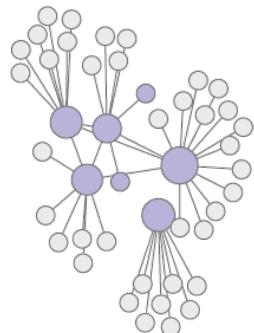


The screenshot shows a web browser window titled '[matrix]' displaying a group chat interface. The left sidebar lists users and their status: @matrixmatrix.org (100 users), @hnmatrix.org (11 users), @matrix-devmatrix... (19 users), @arathomasphere... (2 users), @testmatrix.org (20 users), @poniesmatrix.org (4 users), @richardvdnuff... (2 users), David Baker (2 users), and Matthew (2 users). The main chat area shows messages from various users with timestamps. A large image of four people working on laptops is displayed in the center of the screen. On the right side, there is a sidebar with user profiles and a list of recent messages.

Nov. 2014 - WebRTC World San Jose

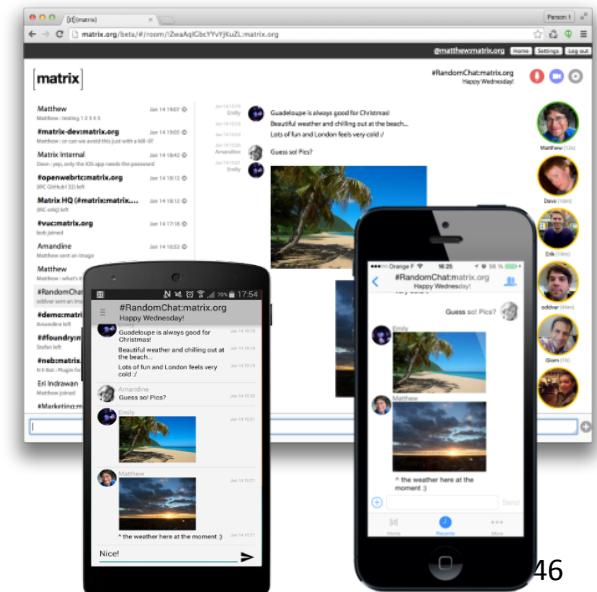
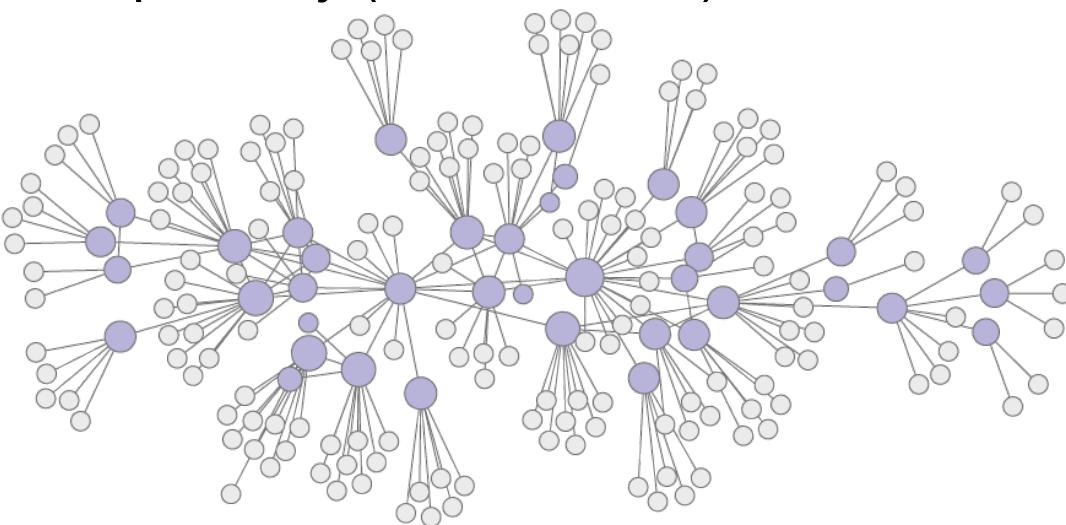
Entered Beta (v0.5)

- Feature complete for core group chat & VoIP features
- Full TURN support for WebRTC
- Initial iOS and Android "Console" applications
- Strong crypto (encrypting and signing) all federated traffic
- Client SDKs for iOS (CocoaPods), Android, Python, JS, Angular



Since November:

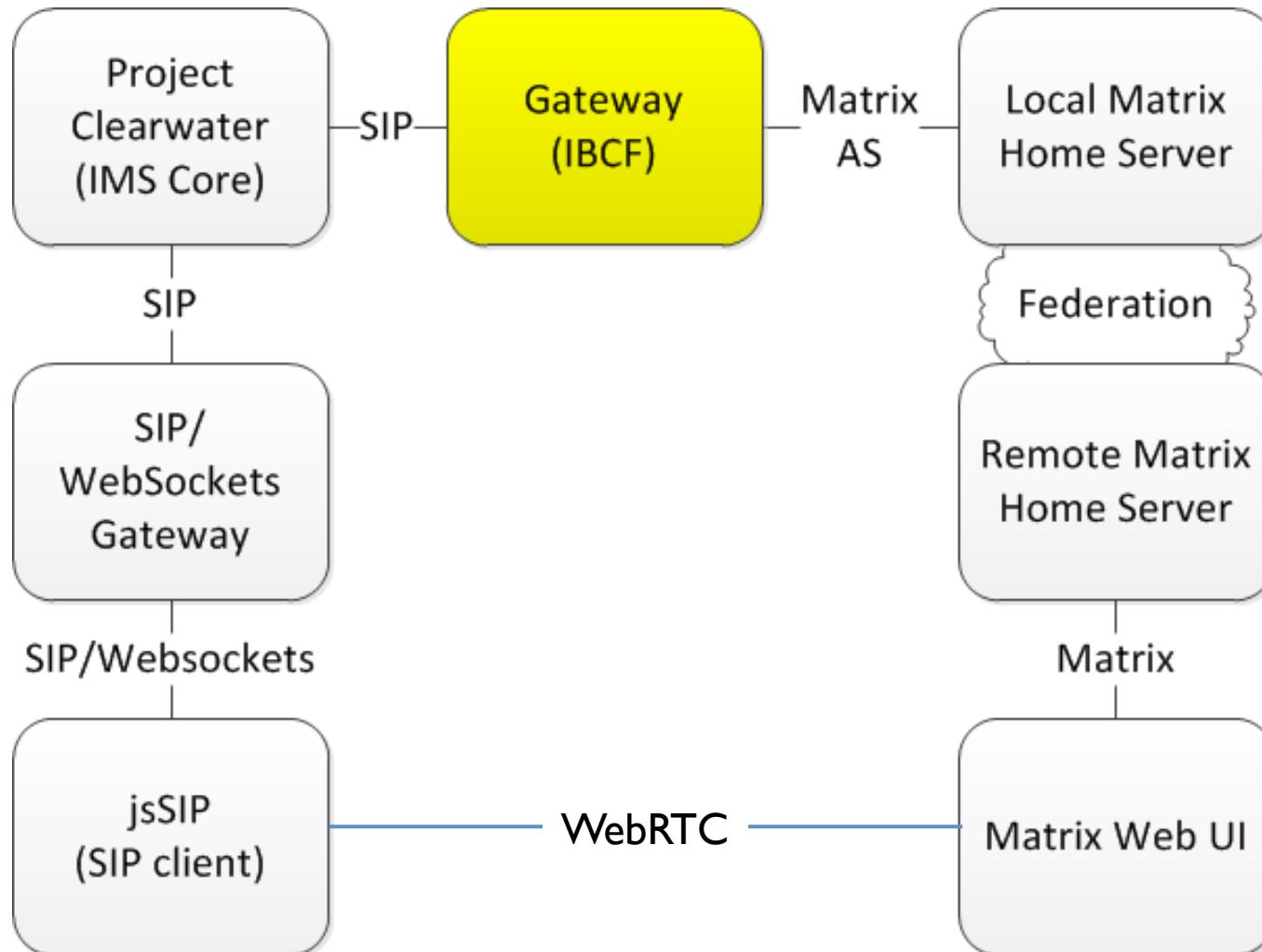
- Launched Application Services API: how you bridge other networks and functionality into Matrix.
- Published mobile apps in the app stores
- Reusable UI SDKs for iOS "MatrixKit" and Android
- Added Decentralised content repository (mxc:// URLs)
- Added Push notifications
- Added performance metrics
- Initial IoT examples
- V1 spec improvements
- Designed some V2 APIs to fix the uglier bits in V1
- Lots and lots of bug fixes



Most interestingly:

- Explosion of 3rd party clients, application services and even servers implementations.
- Clients
 - MatrixKit UI
 - Weechat
 - React
- Application Services
 - SIP: Clearwater (telco v. internet example)
 - IRC: gatewaying
- Servers
 - Pallium and jSynapse

Clearwater SIP GW Example



**Today we're proud to announce
a major stable beta
approaching 1.0 release (v0.9)**



Version 0.9

- **Lots** of performance work
- Supporting Postgres as well as SQLite
- All new configuration system
- Lots of long tail fixes (you can now reset your password!)
- Experimental support for mobile support for VoIP through OpenWebRTC

What's next?

- End-to-end encryption
- Reusable web UI components and improving the web client
- Multi-way VoIP
- Lots more Application Services
- Landing V2 APIs
- Use 3rd party IDs by default
- Yet more performance work
- Spec polishing
- New server implementations!

Why should you use Matrix?

**The more people who build on
Matrix, the more useful it is.**

This should be a no-brainer!

It's Free!

(both commercially and
philosophically)

**Free reusable UI components
and WebRTC support on
Mobile!**

**Free client applications for
you to use as a starting point
for your own apps!**

**Free server implementations
to power your messaging and
VoIP**

**Don't waste time inventing
your own HTTP signalling
protocol when we've done it
for you!**

**An ever-larger growing
community of users for you to
on-board into your app!**

**You can own and control your
own data!**

**Pick interoperability as a
differentiator for your app!**

How to use & help Matrix?

Pick a client and try it now!



<http://matrix.org/blog/try-matrix-now>

Run a server!



<http://matrix.org/blog/try-matrix-now>

Build an application service to bridge in your existing apps



<http://matrix.org/blog/try-matrix-now>

**Consider native Matrix
support for new apps.**

Or just help us spread the word (@matrixdotorg)!



[matrix]

Thank you!

matthew@matrix.org
<http://matrix.org>
@matrixdotorg