



Cozy Cloud anatomy

A PERSONAL CLOUD PLATFORM TO CONNECT YOUR DATA

SNAPSHOT

Cozy in a nutshell

KEY FIGURES

2012

Creation

5,2 M€

Funds raised

20

Team members

MANAGEMENT TEAM

- Benjamin ANDRÉ, CEO, experienced entrepreneur
- Tristan NITOT, CPO, founder of Mozilla Europe + former member of French Gov't Digital Advisory Board.

CLIENTS



STRATEGIC PARTNERS



INCUBATED AT





WHY ?

ASSUMPTIONS

1. we want **more smart services**

2. digital services relevance comes from :

- **frictionless** user experience
- **data mashups**, data mixing

BARRIERS :

1. Data are walled gardened into the big internet platforms & our vendors
2. This fluidity requires trust. Without, it will be un-sustainable.

CONSEQUENCE : :

- We want more fluidity four our data,
- but with some strong guaranties to enforce our trust.

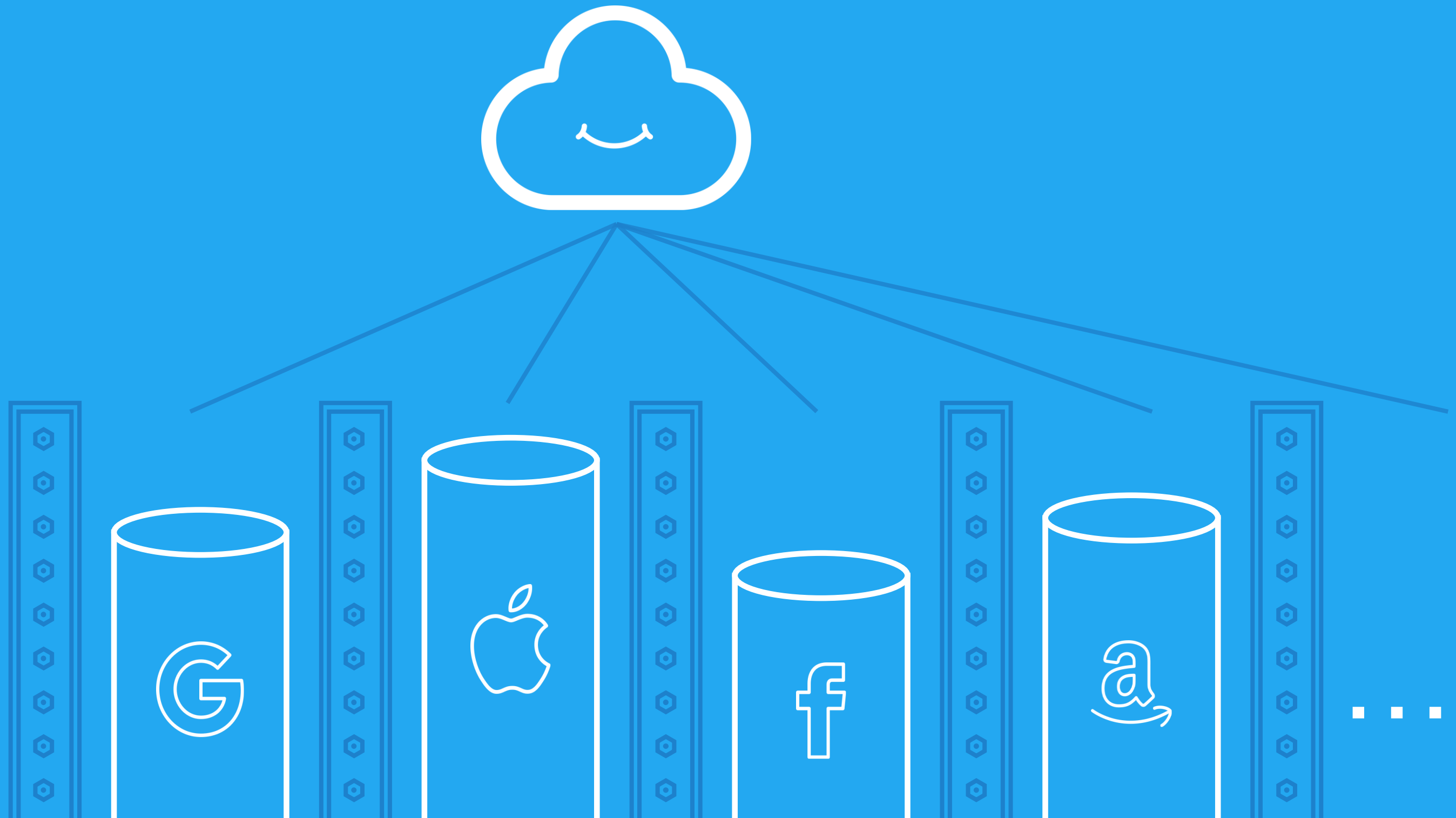
TWO POSSIBILITIES :

1. **Interoperability and consent management.** keywords : APIs, protocols, agreements, regulation... : the technical challenge is huge and in the end, every body will progressively require access to all your data, like apps on your phone...
-

2. **Personal Cloud :**

- a **personnal data storage** connected to all your digital third parties (devices, IoT, online services, energy provider, telco, insurance, bank...)
- **an ecosystem of personal apps** you can choose to run on your personnal cloud

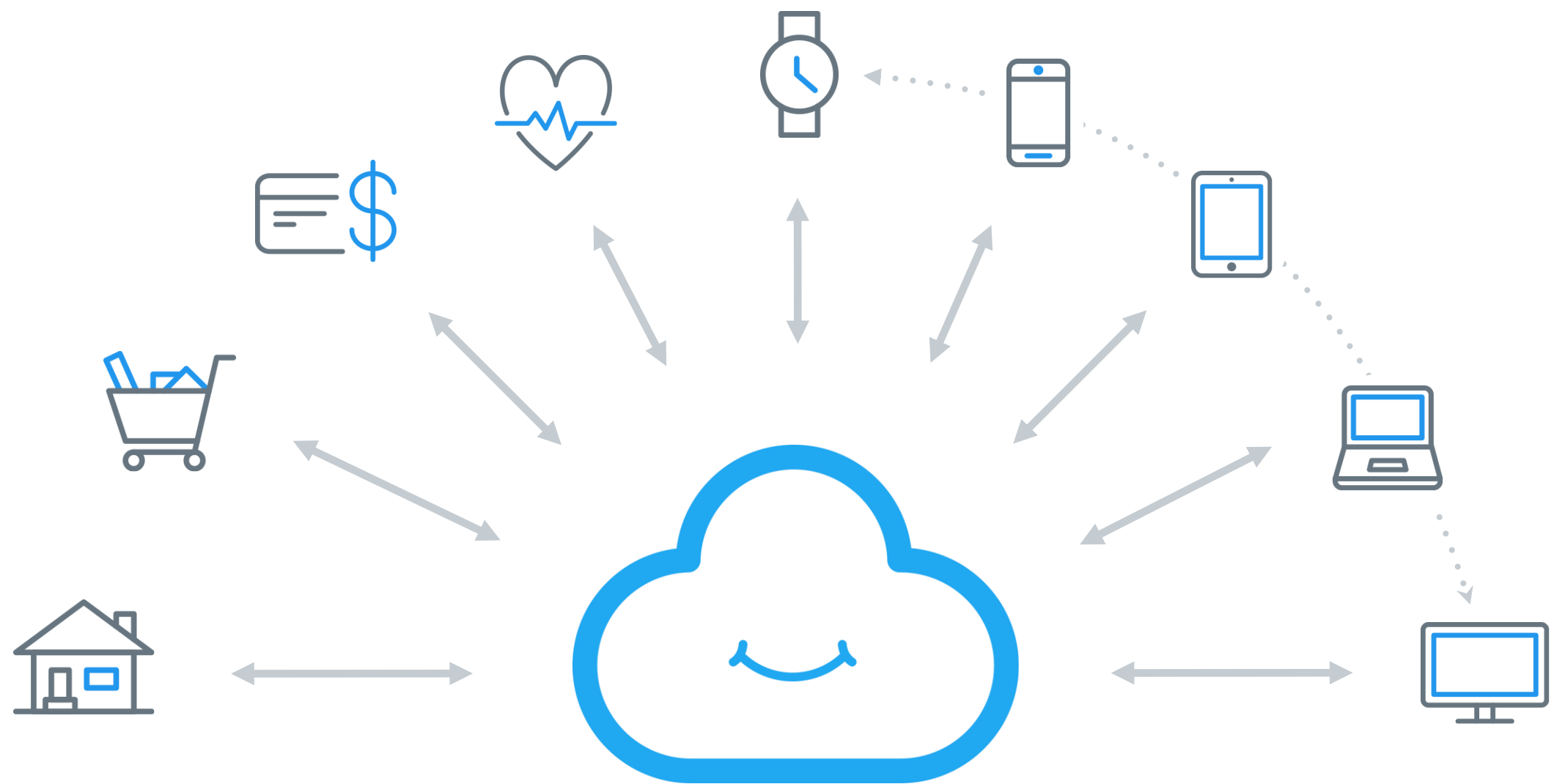
OUR SOLUTION : a personal cloud





Cozy Cloud's approach

DEMO



MY PERSONAL CLOUD

Cozy : connect all your data

KEY ADVANTAGES

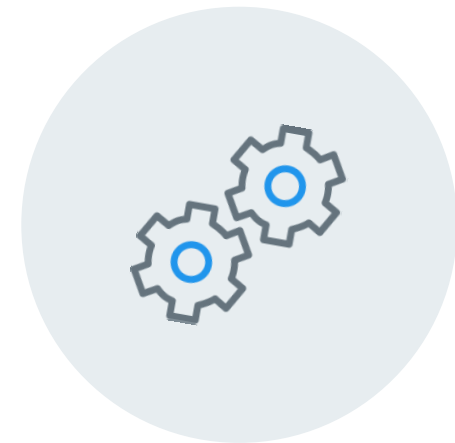
True added value for users



SINGLE SIGN-ON



GLOBAL SEARCH



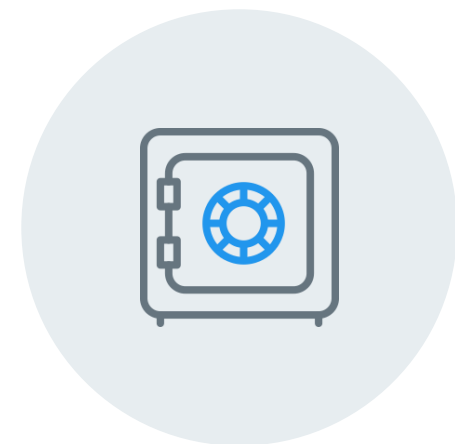
**FRICTIONLESS
APPS INTEGRATION**



IoT HUB



PERSONAL BIG DATA



PRIVACY

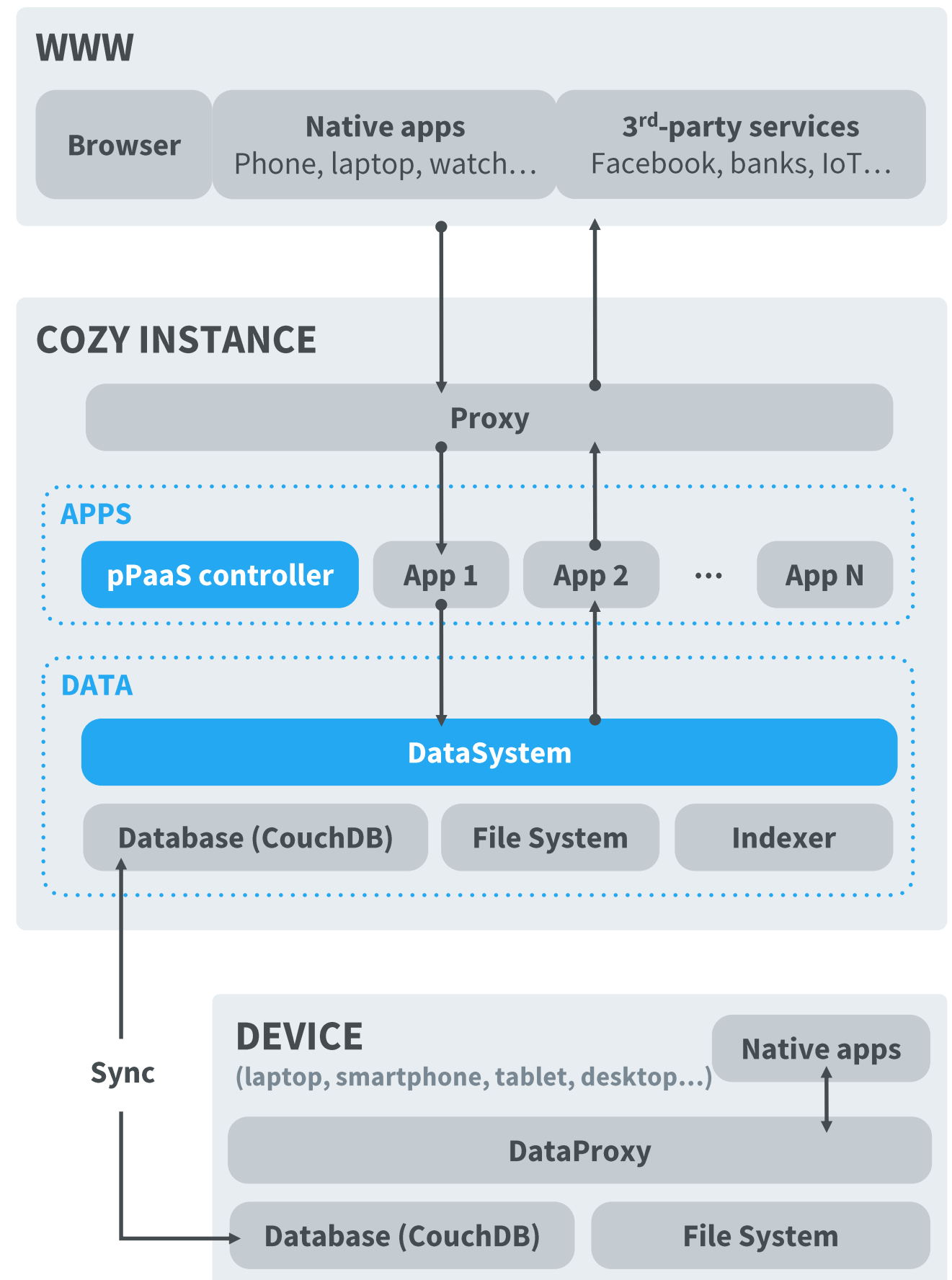


TECHNOLOGY

TECHNOLOGY

Open source architecture

- Modular → Adaptive
- Sandboxed → Safe
- Simple → Fast to learn (no SDK, REST, JSON)
- Data Centric → Sharing, notifications, sync...
- With 2 main technical concepts:
 - **pPaas (personal Paas)**
 - **DataSystem (semantic storage)**



CONCLUSION :

- It's all about services and usages
- Privacy is a requirement, an enabler, not an end.
- Personal storage is not enough : personal apps ecosystem is key
- Open source : for trust and hackability (ecosystem)
- Come at 14:00 – workshop about business models



CRAZY?



1977

Ken Olsen, DEC's founder (Digital Equipment Corporation)

*“There is no reason anyone would want
a computer in their home”*



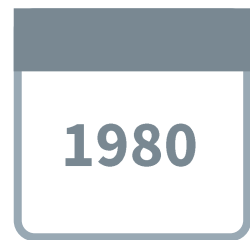
1977

Steve Jobs & Steve Wozniak launched the Apple I ...



OUR VISION

Change the paradigm to change the rules



Computer



Personal Computer

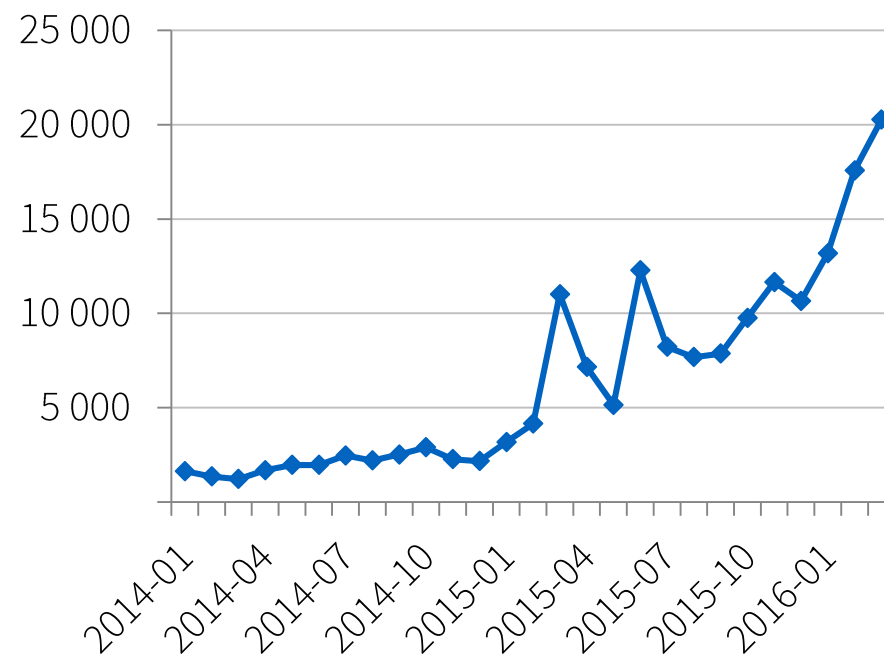


Cloud

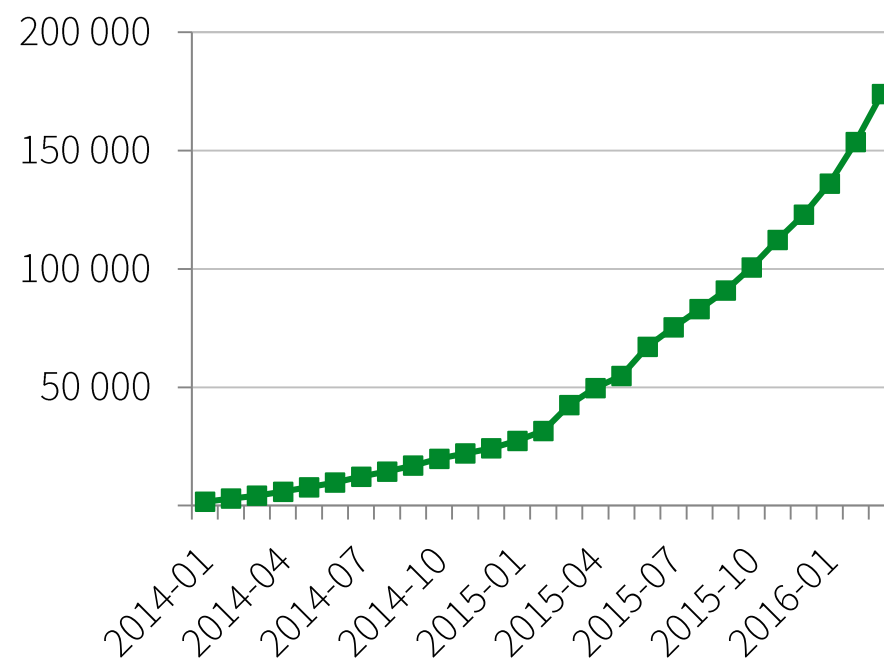


Personal Cloud

Apps downloaded per month



Apps installed



Q & A

- P2P Big Data?
- Architecture?
- Mobile?
- Security, trust issues?
- Business model?
- Beyond geeks?
- What can we do together?
- Open source? ...



cozy.io



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ANNEXES

TRUST & SAFETY

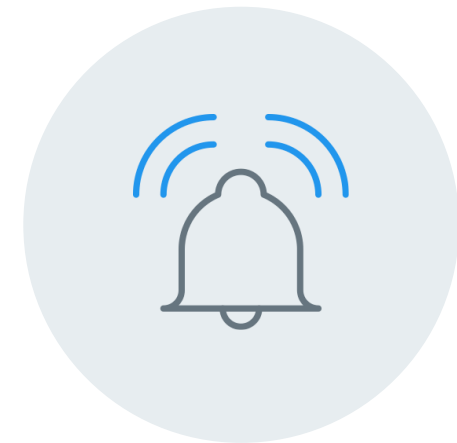
Why our platform is secure



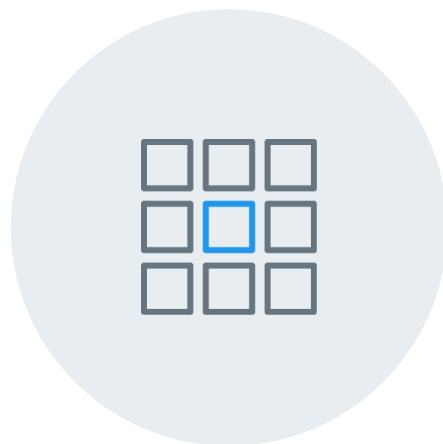
OPEN SOURCE



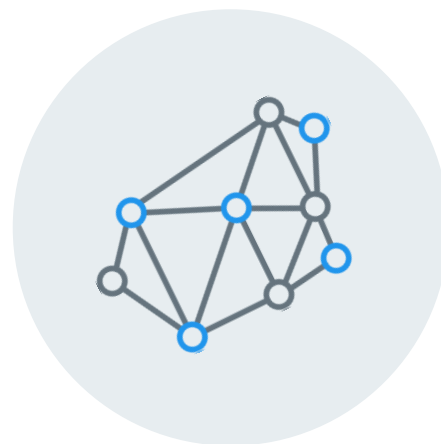
APP AUDITING



SECURITY ALERTS



**PARTITIONED
ARCHITECTURE**



**DATA
DISTRIBUTION**



**VIRTUOUS
BUSINESS MODEL**

ASSUMPTIONS

1. we want **more smart services**
2. digital services relevance comes from :
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BARRIERS :

1. **Data are walled gardened** into the big internet platforms & our vendors
2. This fluidity requires **trust**, because in a world where our decisions are driven by data, people who access your data will have a great power on you.

CONSEQUENCE : : we want more fluidity for our data, but with some strong guaranties to enforce our trust.

TWO POSSIBILITIES :

1. **Interoperability and consent management.** keywords : APIs, protocols, agreements, regulation... : the technical challenge is huge and in the end, every body will progressively require access to all your data, like apps on your phone...
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THE COZY ANATOMY : demo & architecture

CONCLUSION :

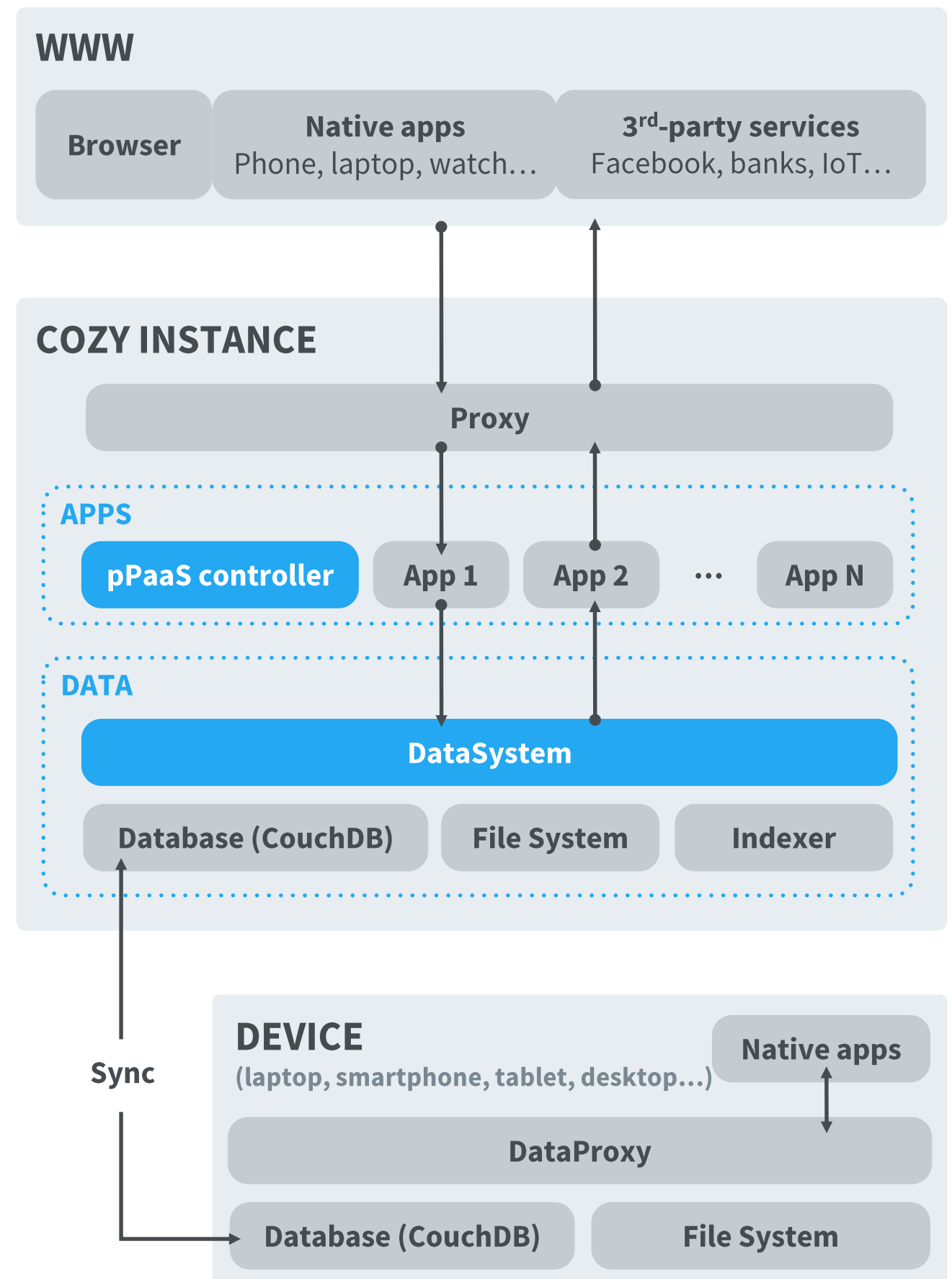


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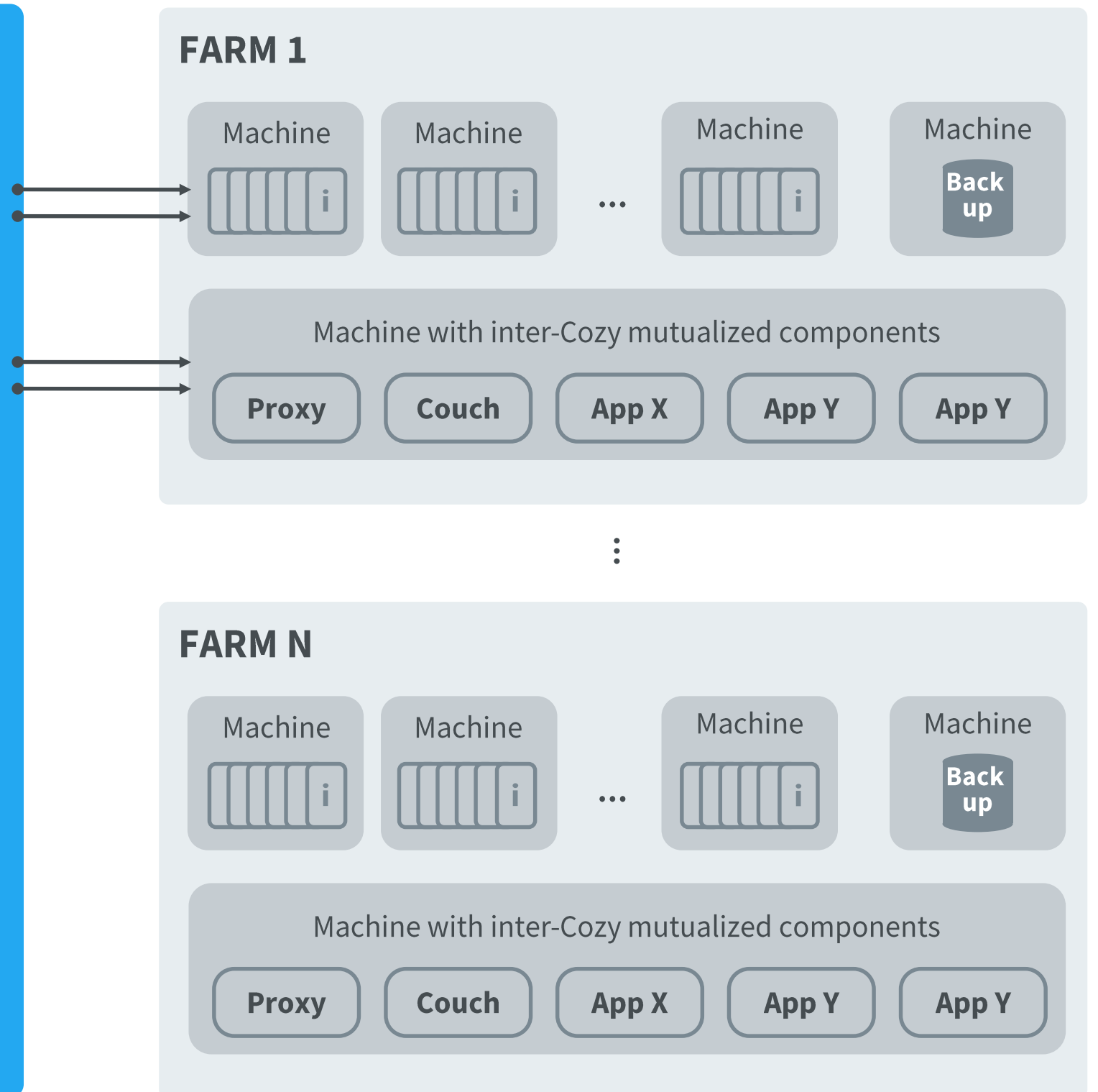
Host-side architecture

CLUSTER CONTROLLER

- Distributed instance creation & routing
- Backup
- Monitoring
- Update
- Load balancing
- Default restoration
- Link with client base (invoicing, status...)

CHARACTERISTICS

- Not Open Source
- Top R&D to create a product which is:
 - **Robust** (less human interactions needed)
 - **Scalable** (less machine needs, Cozy addition is sub-linear)



TECHNOLOGY

Multi-platform apps

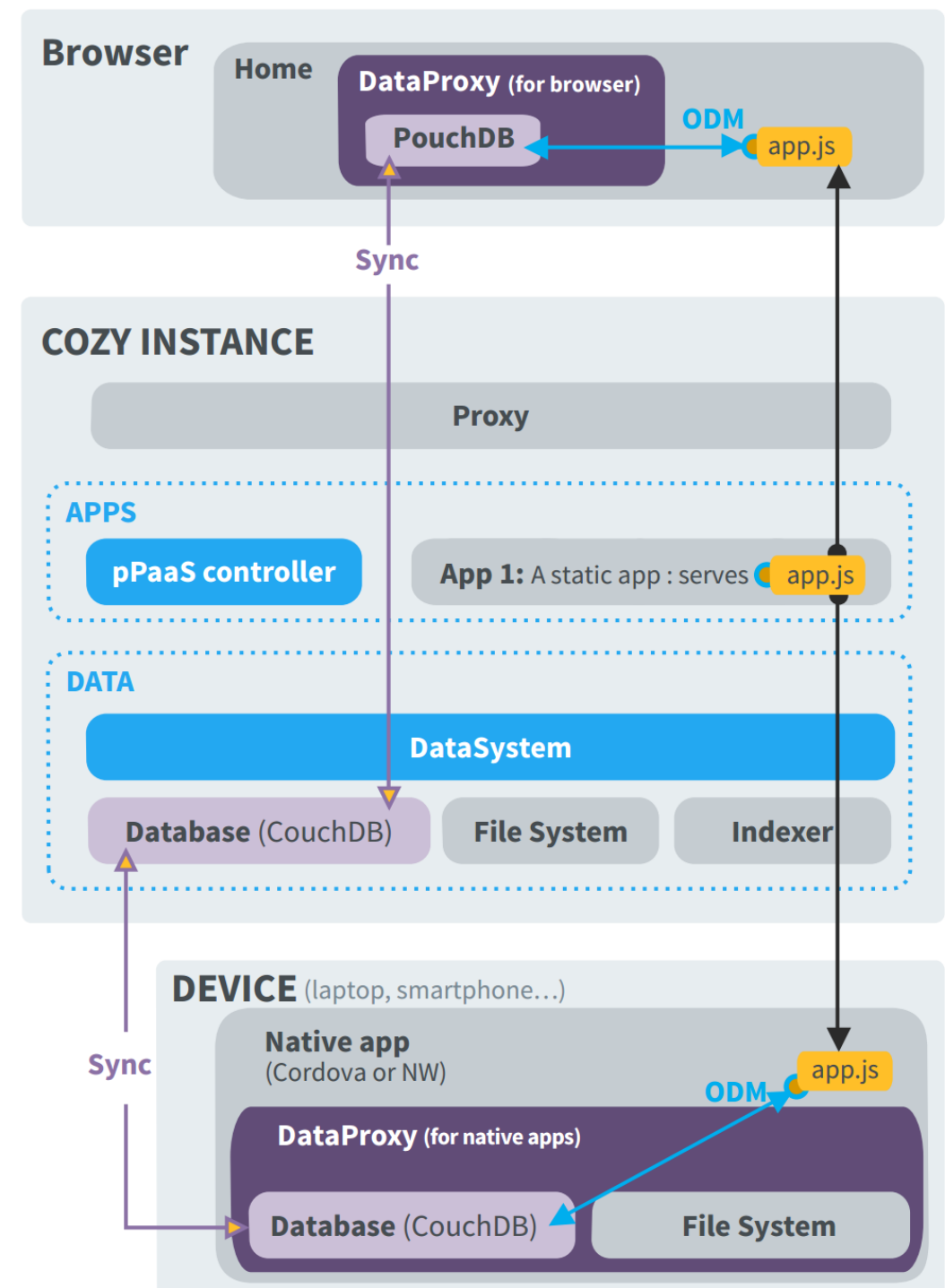
“Deploy once run everywhere” apps are:

- A set of static files on the server side (app.js on the scheme)
- Those files are uploaded in the browser or in native apps on the Cozy mobile client (Cordova) or the Cozy desktop client (NW.js)
- The developer interacts with the persistence with the ODM (Object Document Mapper) library.
- The ODM will use the DataProxy whether of the browser or of the Native Cozy app on the device.
- App.js doesn't have to deal with being online or not, this is the role of the DataProxy.
- The DataProxy is powered by the synchronization capacities of CouchDB / PouchDB.
- This architecture is inspired by offline first approaches.

⇒ the only constraint for the developer is to develop a responsive app and to use the ODM for persistence !

⇒ Then his app can run in the browser or on a native app on desktops or mobiles

⇒ Users don't have to install the apps nor to sync them, it is automatic...



CONCLUSION

Cozy:

1. An **aggregator** of aggregators
2. Focused on **usages**, services, stockage
3. Join a deep **decentralization** movement (cf Blockchain)
4. Gives services an absolute and non intrusive **digital intimacy**
5. An **ecosystem** rather than isolated services.

=> Together, lets Uberize GAFAs!