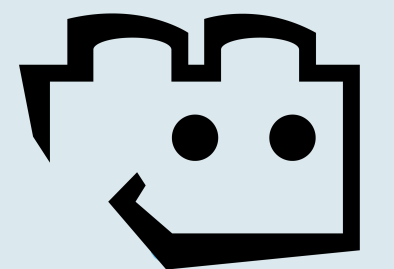




Solid integration in QA

QAI co-funded project proposal



Startin'blox + Quick Apps = Win 4 all

Businesses

- Distributed storage, access control, low friction app delivery ... **new service opportunities**
- Be where *your* customers are - browser (PWA) and mobile (Quick Apps)
- Accelerate *Time to Market* whilst reducing development costs

Developers

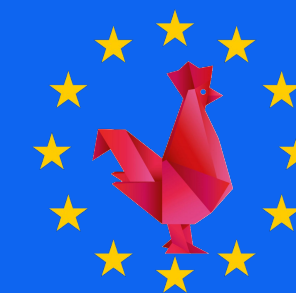
- Use and enrich a growing library of “**ready to rock**” **functional blocks**
- Rapidly create powerful Quick Apps using skills you already know
- Explore new use cases with ease

End-Users

- Scan & Go - great apps direct to your phone; no app store, no install, no fuss
- Support for Solid pods - ***your pods, your data, your control***

France & EU

- Promote EU data privacy and technology sovereignty
- Enable SME opportunities
- Encourage **La French'Tech**



6 month co-funded project

Multiple results

1

Deliver a pilot Quick App

- An online directory used by freelancers in Europe to find and collaborate on work

2

Start open source work with QAI

- Attract additional collaboration participants
- Show doubters that QAI is active

3

Adapt Startin'blox to output QAs

- Make QAs even easier to code using blocks
- Fast-track QA prototype and pilot projects

4

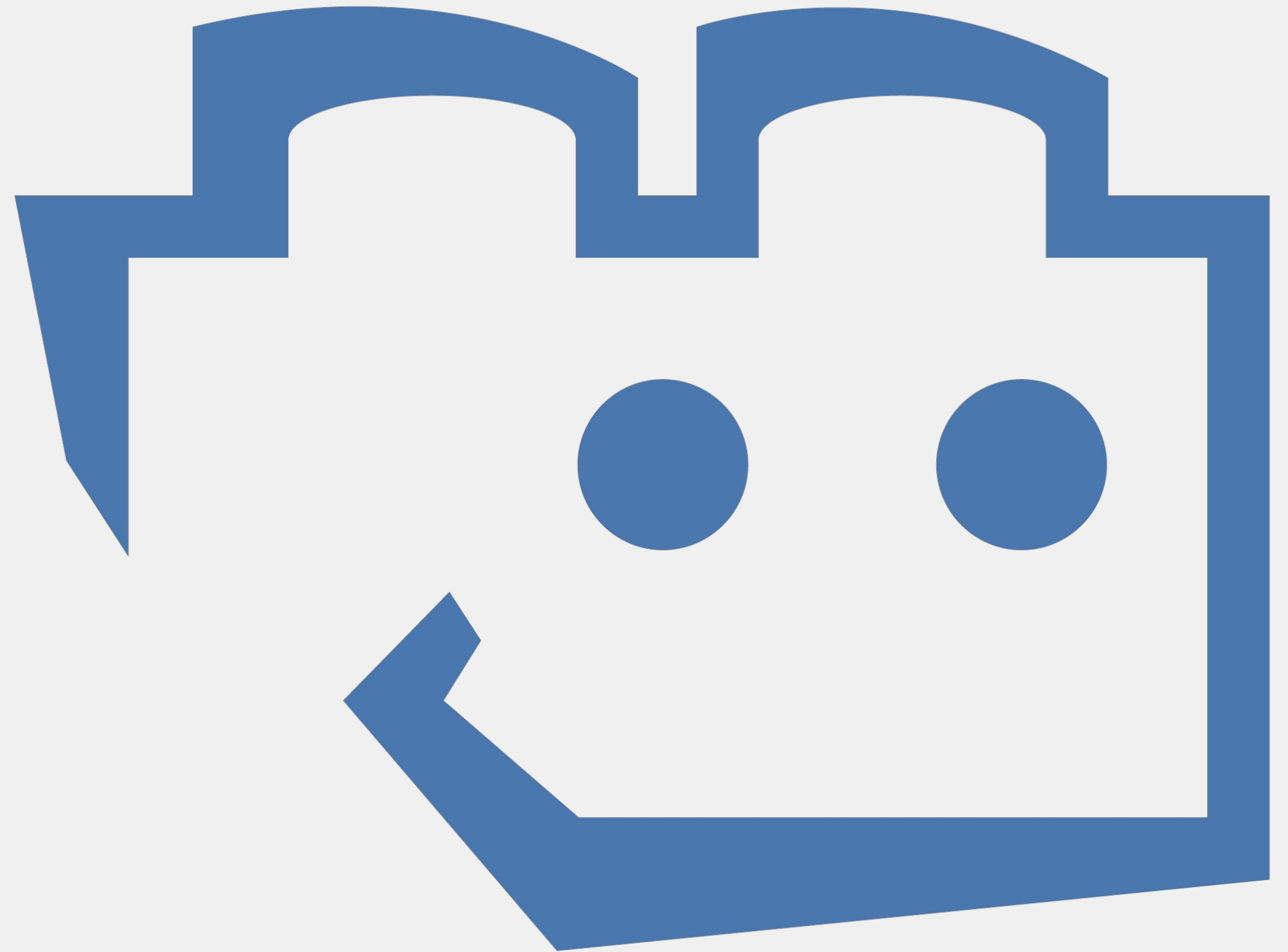
Adapt QAs to support W3C Solid

- Add a new dimension to Quick Apps
- Enable new service models that leverage data control & privacy

Startin'blox

Decentralizing the Web
the right way

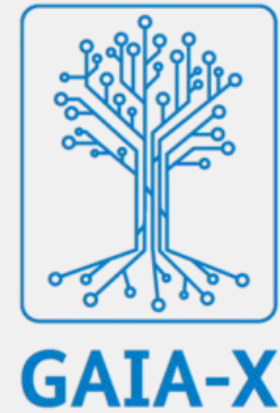
- A web framework for decentralized applications.
- Modular collaborative applications for the new web.



Startin'blox



ID
SA



Created in 2018, Startin'blox is the **European leader** in new **web3** architectures induced by the **standards** like **W3C Solid**, **IDS** and **Gaia-X**.

Startin'blox **helps ecosystems of companies work better together**. We developed an innovative technology, **based on Solid** and Tim Berners-Lee's vision.

Based on **ready made modules** that are **easily assembled together**, our technology creates *fully functional* apps that clients then customize to fit business processes.

We already serve **many industries**, such as freelancers, cooperatives, energy, trade unions, space, employment, film, education, hotels, public sector, and more.

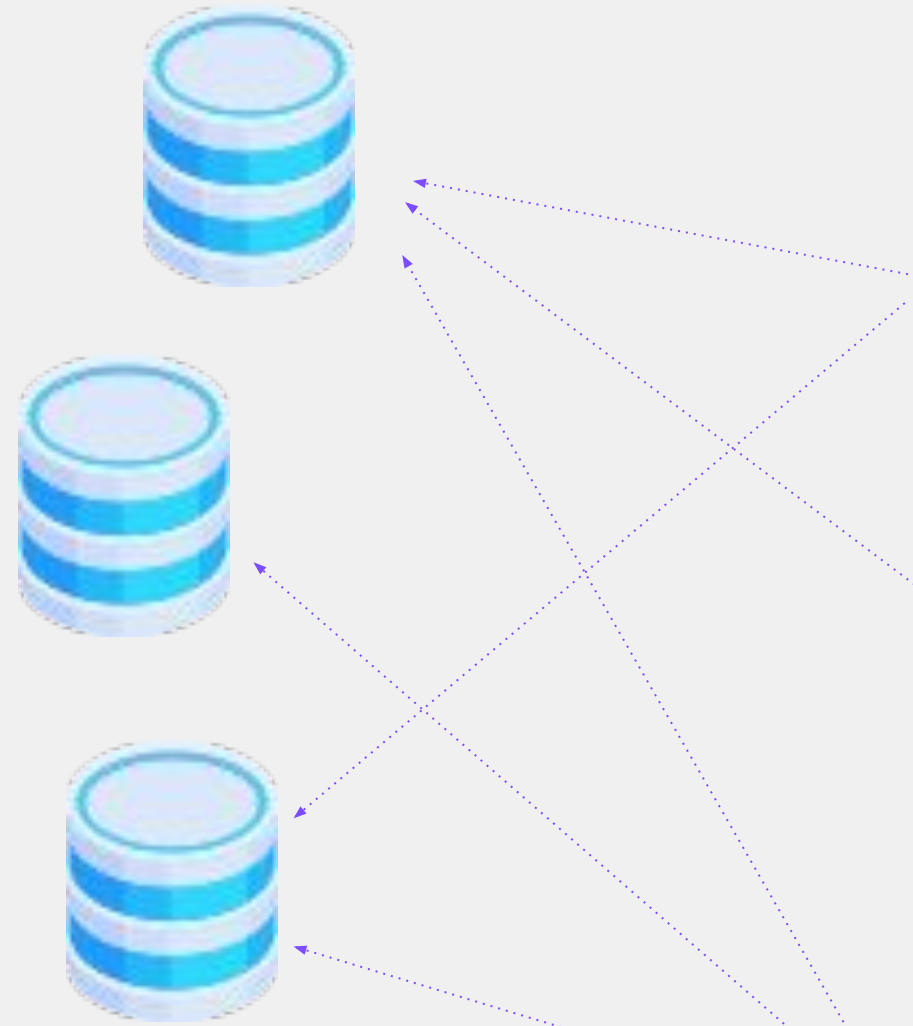
We have a **growing community** of +100 developers, ambassadors, investors and early adopters.

We have deployed +50 applications for 20 clients in **Europe and Canada**.



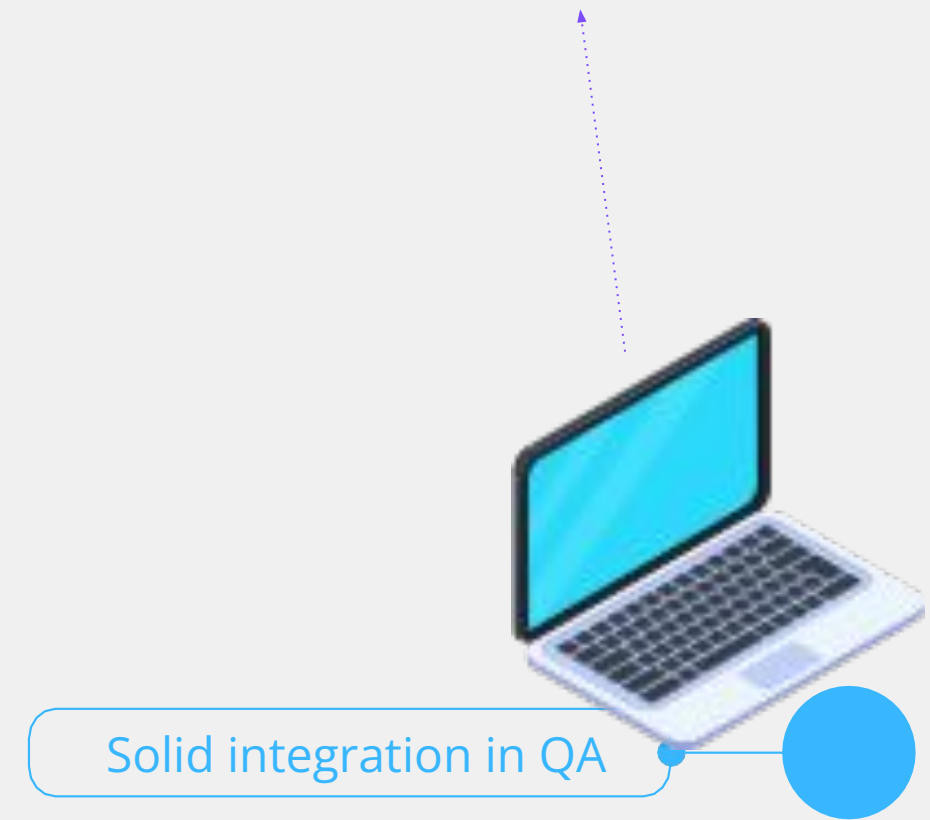
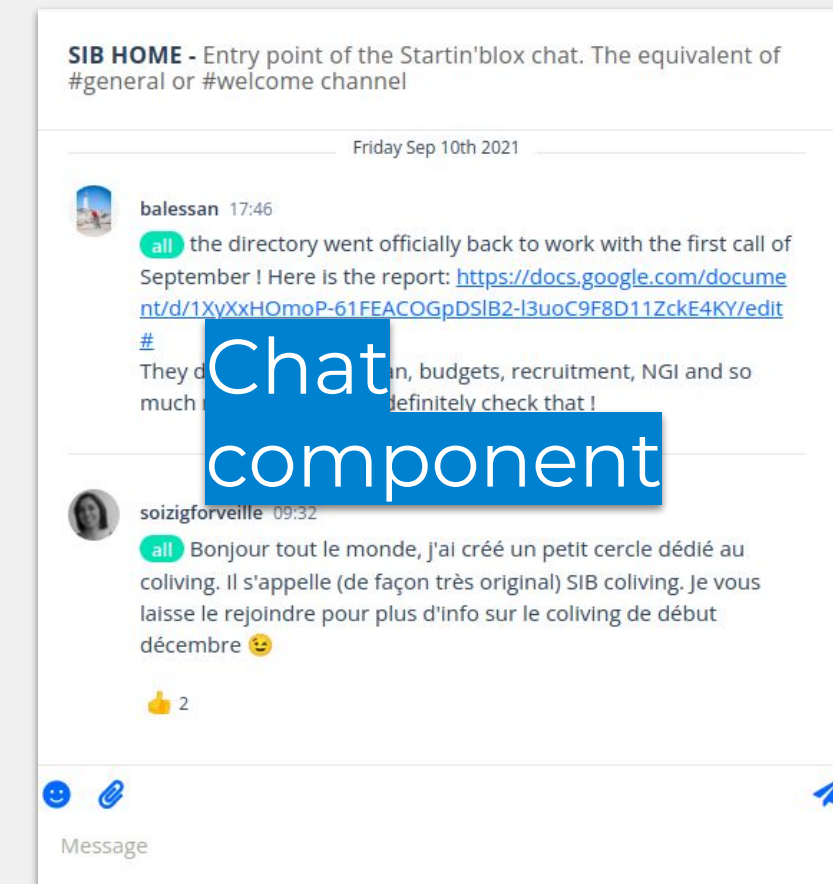
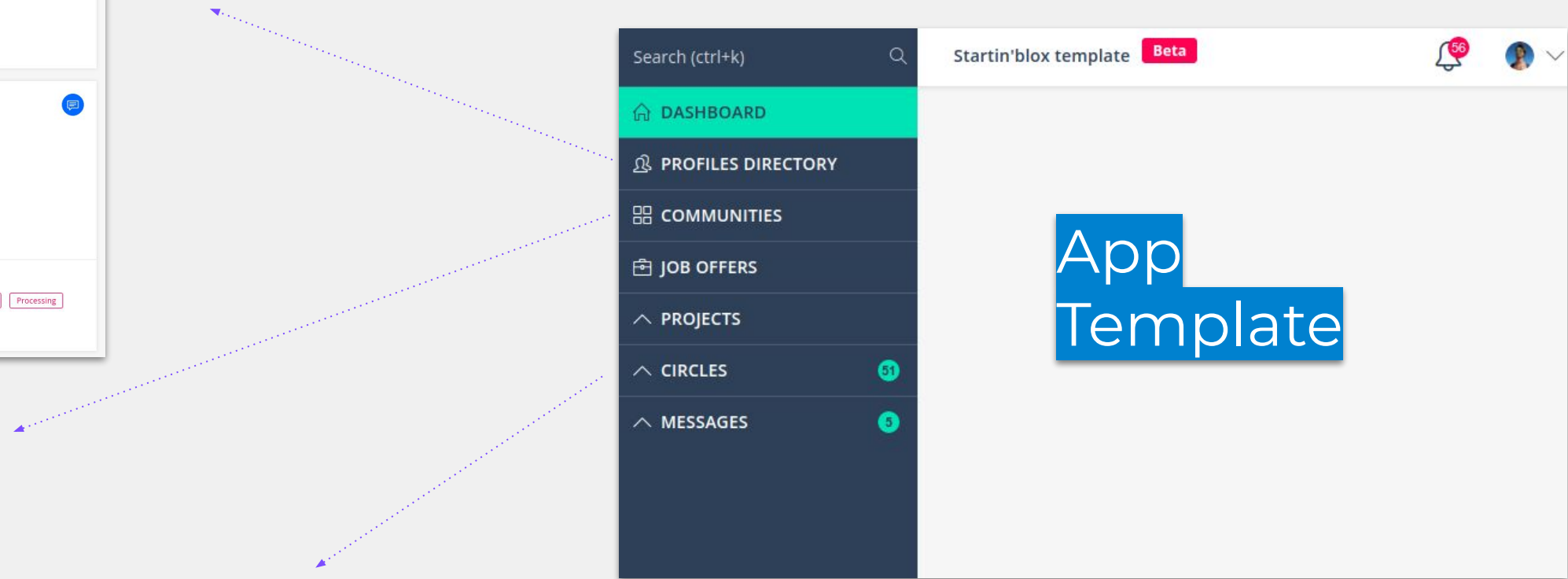
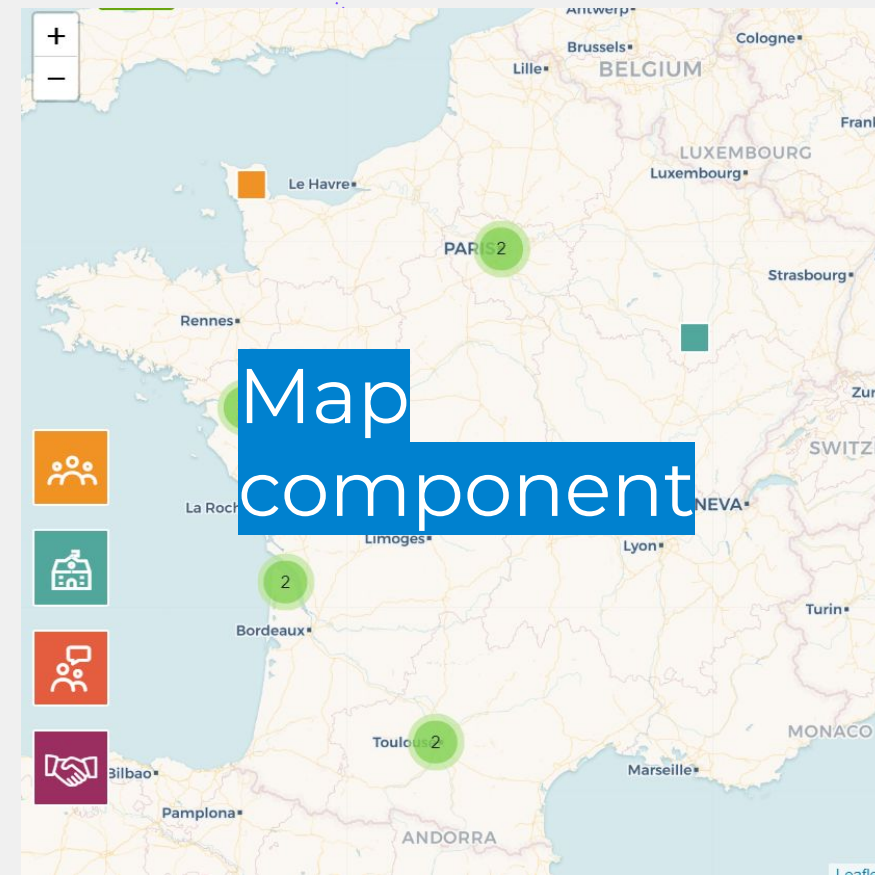
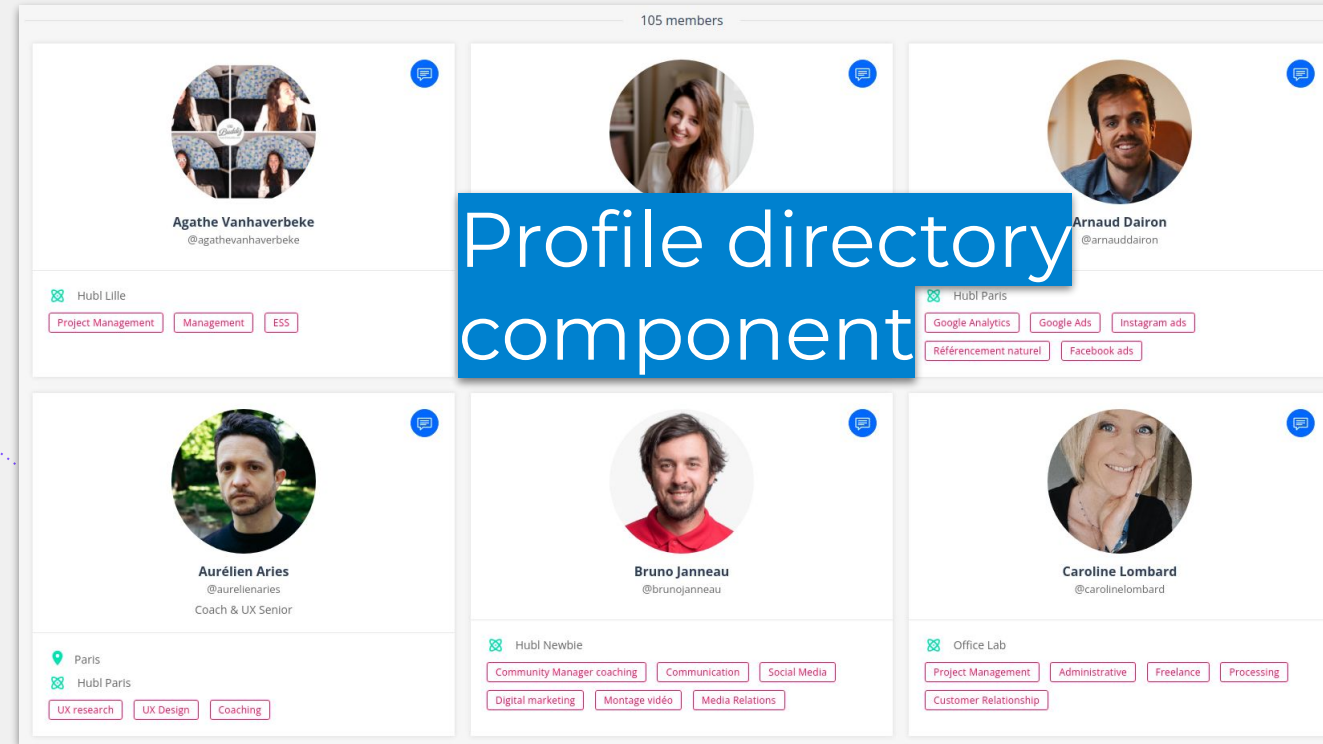
Startin'blox

A Startin'blox application is a "simple" HTML file integrating Web3 compatible Web Components



Partner's data pods

Each one of these components are like a MiniApp that can connect to several data sources, opening a new era of online collaboration



Solid integration in QA

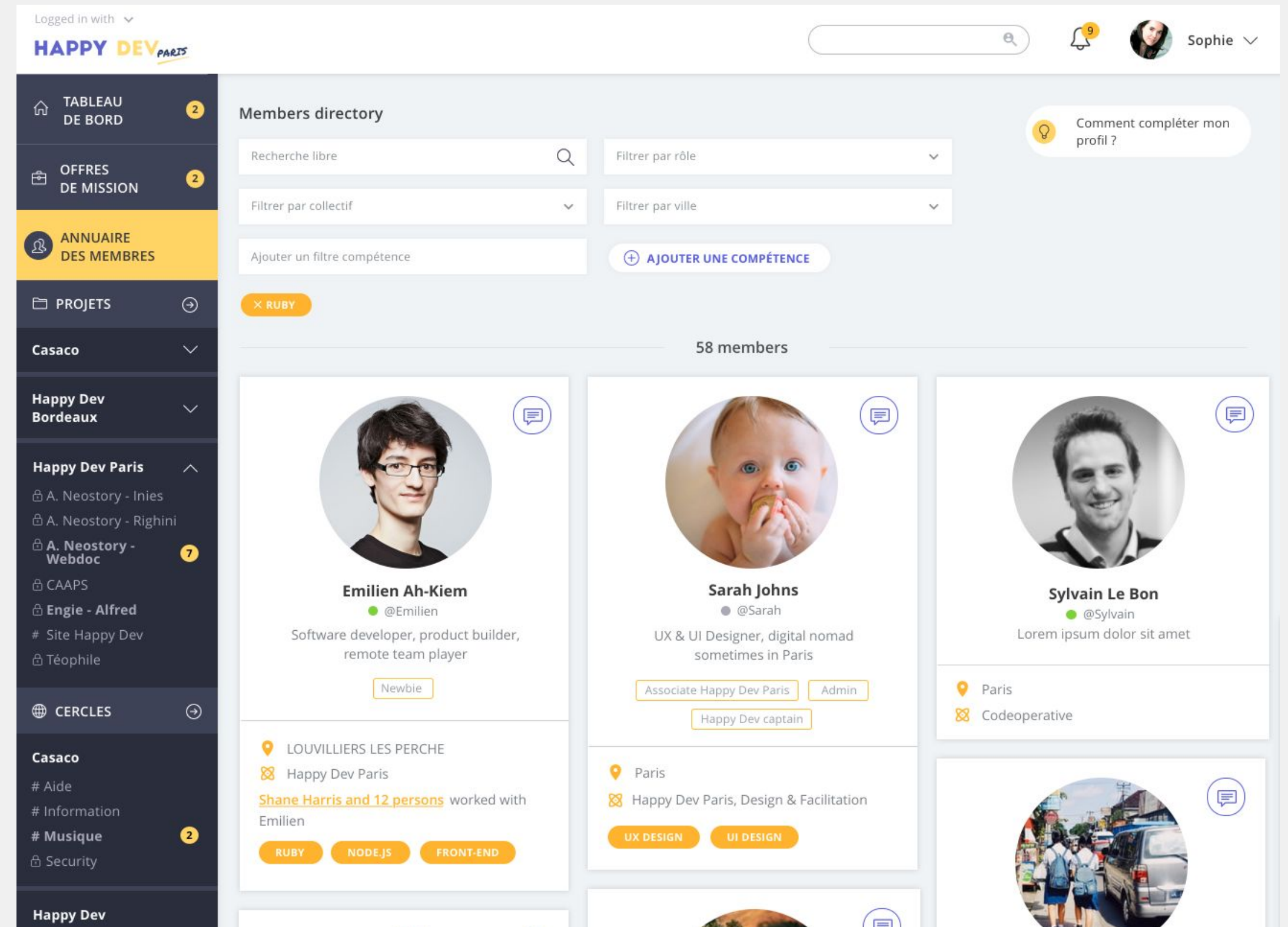
The proposal

Integrating Solid apps in Quick Apps

Develop a toolkit enabling Solid developers to publish Quick Apps in a simple way.

This integration of 2 technology platforms will facilitate audience convergence and growth + provide new possibilities to app owners (developers, publishers, businesses).

This proposal is for a 6 month collaborative project costing 95 K€.



The screenshot shows a web interface for the 'Happy Dev Paris' members directory. At the top, it indicates the user is logged in as 'Sophie'. The main navigation menu on the left includes 'TABLEAU DE BORD', 'OFFRES DE MISSION', 'ANNUAIRE DES MEMBRES' (highlighted), 'PROJETS', 'Casaco', 'Happy Dev Bordeaux', 'Happy Dev Paris' (with sub-items like 'A. Neostory - Inies', 'A. Neostory - Righini', 'A. Neostory - Webdoc', 'CAAPS', 'Engie - Alfred', 'Site Happy Dev', 'Téophile'), 'CERCLES', 'Casaco', '# Aide', '# Information', '# Musique', and 'Security'. The main content area is titled 'Members directory' and features search filters: 'Recherche libre', 'Filtrer par rôle', 'Filtrer par collectif', 'Filtrer par ville', and 'Ajouter un filtre compétence'. A button 'AJOUTER UNE COMPÉTENCE' is also present. Below the filters, a 'RUBY' tag is visible. The directory lists 58 members, with three profiles shown: 'Emilien Ah-Kiem' (Software developer, product builder, remote team player), 'Sarah Johns' (UX & UI Designer, digital nomad), and 'Sylvain Le Bon'. Each profile includes a photo, name, role, location, and tags like 'Newbie', 'Associate Happy Dev Paris', 'Admin', 'Happy Dev captain', 'UX DESIGN', and 'UI DESIGN'. A 'Comment compléter mon profil?' prompt is visible in the top right.

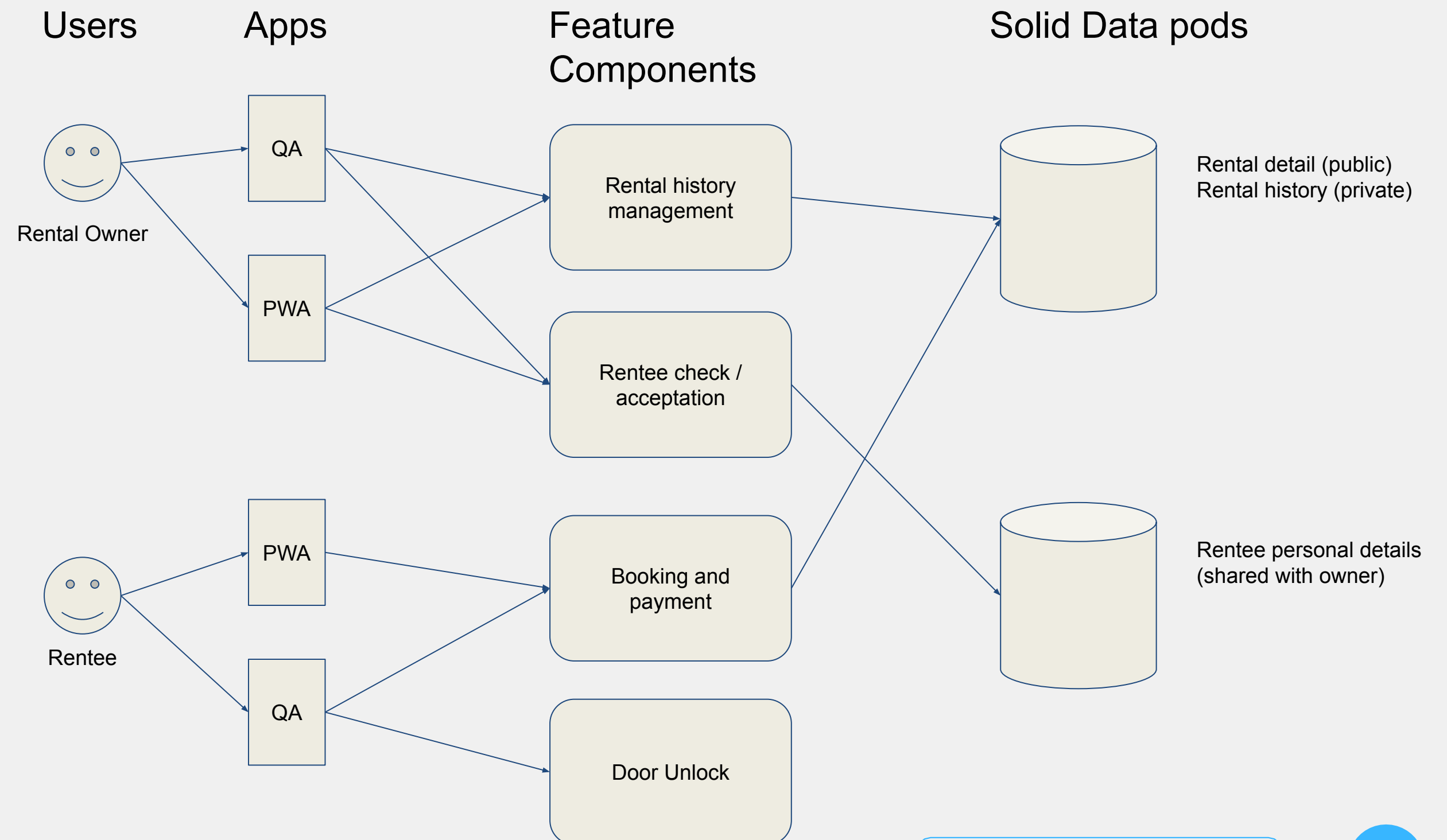
Using Startin'blox in Quick Apps

Example of a vacation rental

Startin'blox modularizes apps, allowing reuse of features between apps, both QA and PWA. It also separates the data from the app, so that each user can control their own data.

This enables app developers to produce a quick app easily, cheaper and faster, and then add QA specific capabilities. A PWA can also be published, only lacking the QA specific capabilities.

The features are available on the web and can be integrated in both PWAs and QAs.



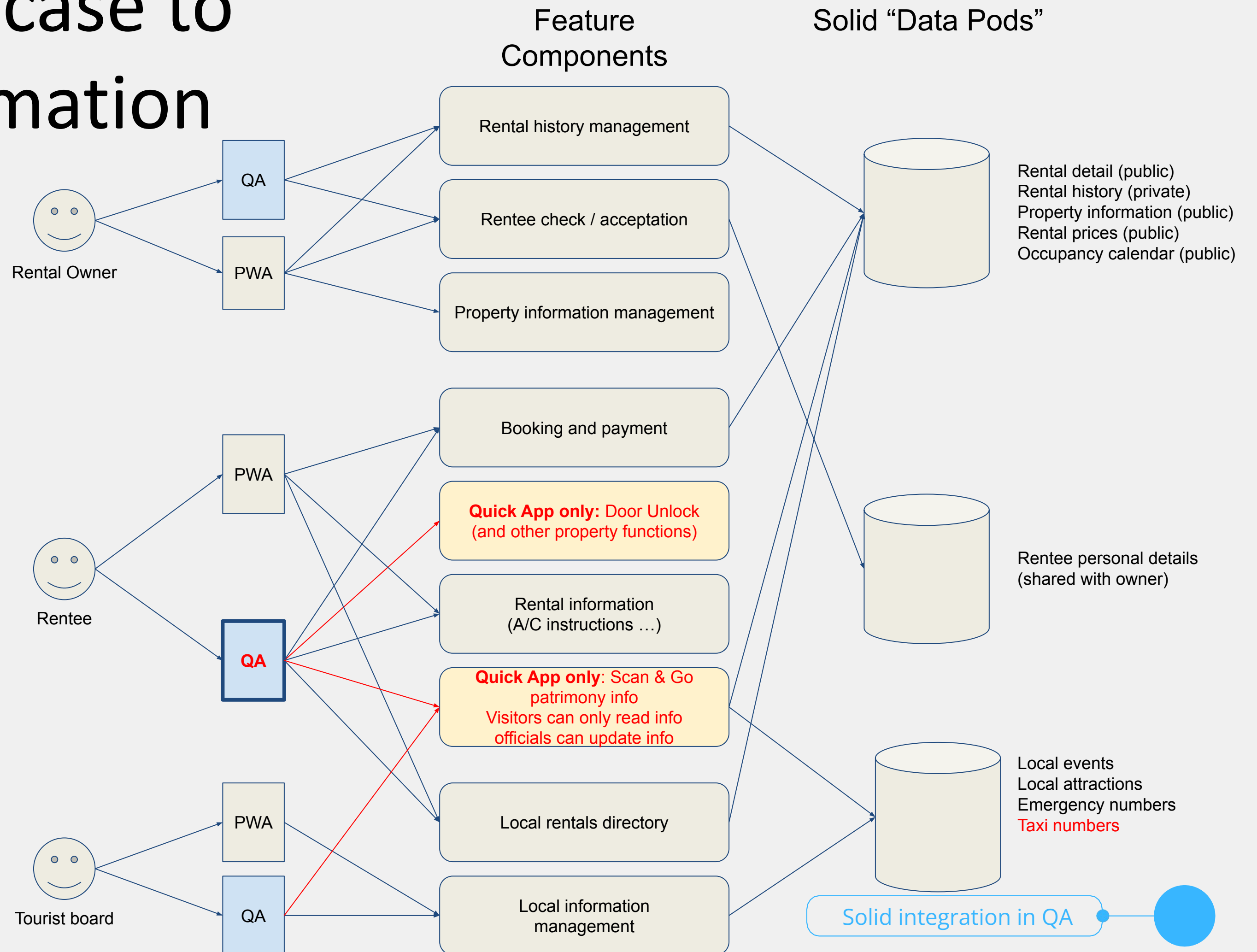
Extending the use case to include local information

... and this can extend further:

- A cleaner or renter could use a Quick App to report a maintenance issue, or leave a positive comment.
- The tourist board could monitor the volume of maintenance issues (or positive comments) and downgrade/upgrade listings.
- Local cinemas could provide data pods with movie info. Local restaurants could do the same with menus.
- Quick Apps could mix data from multiple sources and provide valuable new experiences and advertising routes.

Some of this is possible today using traditional API models, but integration is prohibitively complex.

Solid provides standardized data access APIs to remove barriers between heterogeneous services.



Supporting the Quick Apps for tourism use case



<https://pixabay.com/images/id-632394/>

“Scan & Go”

Places of Interest

Parks & Monuments
Historic buildings
Museums & Galleries
...

Local Guide

What's on
Discover **Places of Interest**
Useful numbers
Discount vouchers
...

Rental

NFC powered door key
Control A/C, heating, lighting ...
How to work machine X info
Local Guide
Reservation services
...

Multiple data sources hosted as distributed Solid pods

Pod “as a Service” opportunities

Organically extend each service area by encouraging new pods from new data owners

Pilot App

Through the integration of an existing Startin'blox/Solid application, we will build a toolkit enabling convergence between the Startin'blox and Quick Apps platforms.

The pilot application we propose to turn into a quick app is a collaboration app, currently used by ecosystems of freelancers in Europe to collaborate and work together on projects.

It has 3 main features:

- Directory of profiles
- Team chat
- Job board

Convergence between Solid and Quick Apps

Solid components for QA developers

Quick App developers will benefit from the suite of components made with Startin'blox and will be able to easily include ready-made features in their apps

Easy QA access for the Solid community

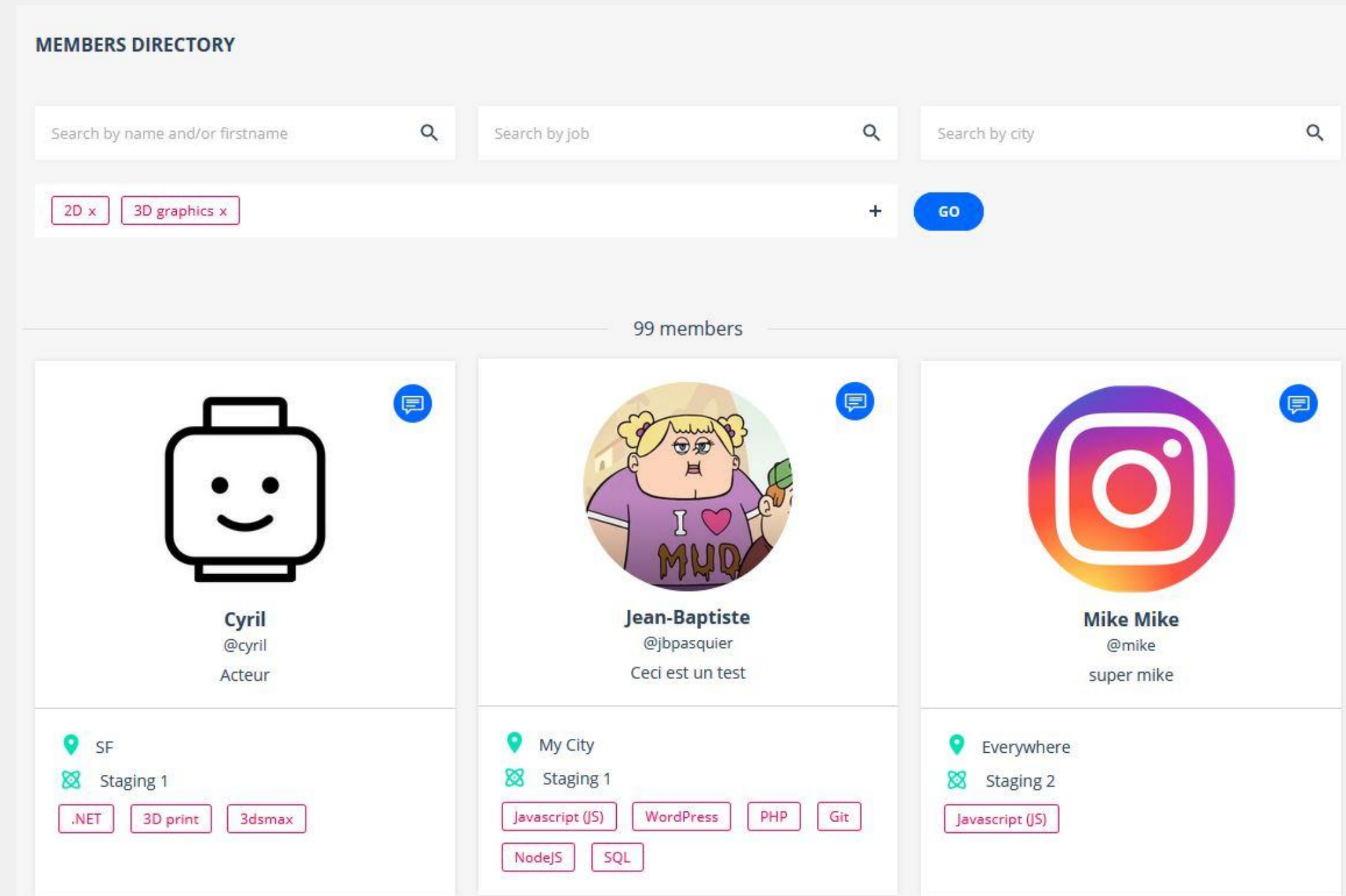
Startin'blox developers will be able to easily deploy their apps on the Quick App platform with little additional code needed

This proposal is a for a co-funded collaborative project spanning 6 months. Startin'blox will commit 5 FTEs to the project at a cost of 95K€ that needs to be co-financed.

Proposal - Blox'Directory

Directory of members

Blox'Directory allows you to search, find the right person, consult their profile (contact details, skills, etc.) and send them a message directly (with Blox'Chat).

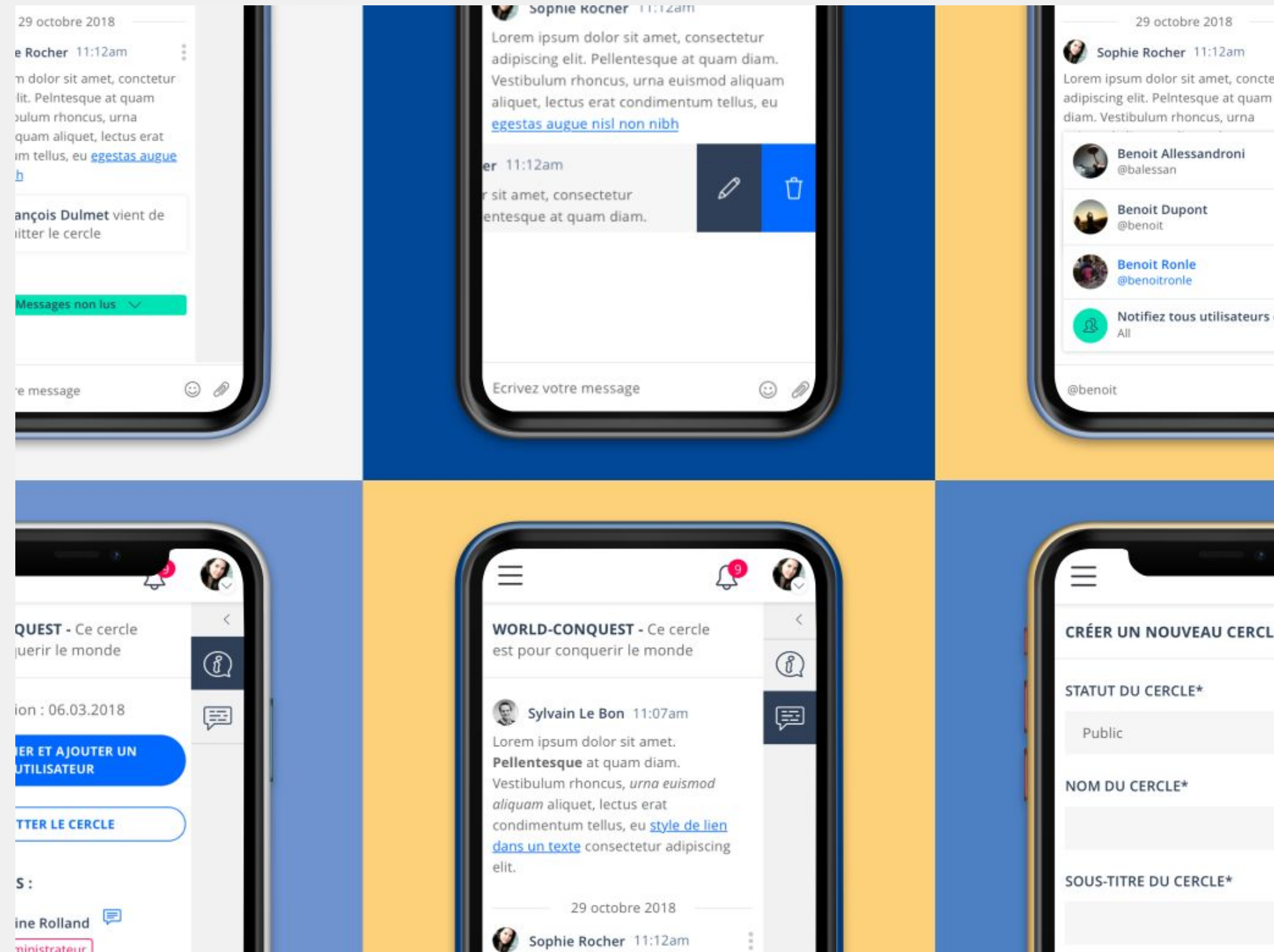


Proposal - Blox'Chat

Private messaging

Blox'Chat offers a private chat among two users or a team chat public or private.

Features :
Notifications, emojis, file sharing



Proposal - Blox'Job Board

Mission Offers

Blox'job Board allows you to display, filter, publish and modify job offers.

The screenshot shows a web form titled "POST A NEW JOB OFFER" with a "Back" button in the top right corner. The form contains several sections:

- THE OFFER WILL BE VISIBLE UNTIL*:** A date field containing "15/06/2022" with a calendar icon to its right.
- TITLE*:** A text input field containing "A new developer to change the world".
- DESCRIPTION*:** A rich text editor with a toolbar containing icons for bold (B), italic (I), quote (”), normal (NORMAL), list (bulleted and numbered), link, and unlink. The text area contains "We are looking for someone to join a great open source project, called [Startin'blox](#)".
- REQUIRED SKILLS:** A section with two skill tags: "HTML / CSS x" and "Education x", followed by a plus sign (+) to add more.
- RATE/BUDGET:** A text input field containing "your call".
- DURATION OF THE MISSION:** A text input field containing "unlimited".
- I WANT TO EARN 10% BUSINESS PROVIDING
- SAVE MY OFFER:** A blue button with a save icon and the text "SAVE MY OFFER".

Anticipated timeline

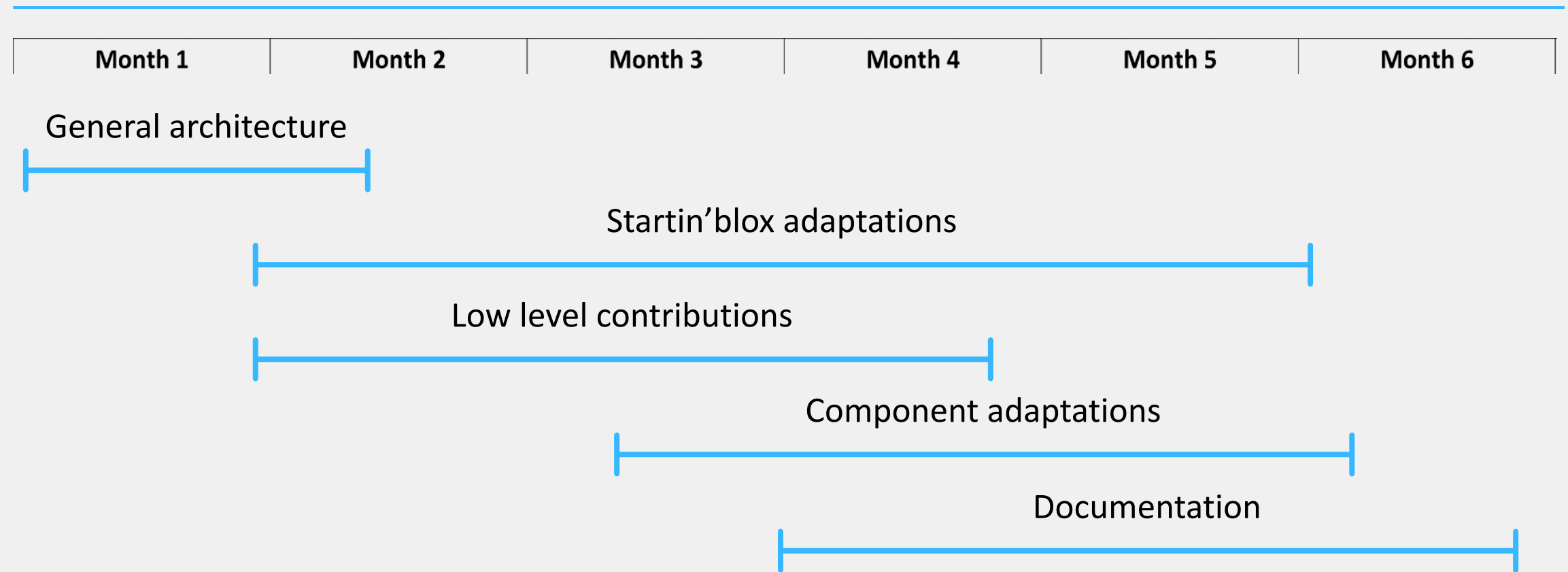
The agile project will be divided in 6 iterations of 1 month.

Payment of 1/6 of the project budget will initiate each iteration.

The project will be tracked by a *release committee* to review iteration advance and deliverable quality.

Every iteration will include varying amounts of work on the following tasks:

- General architecture
- Startin'blox adaptations
- Low level contributions
- Component adaptations
- Documentation



It is anticipated that deliverables will include:

- Documentation and best practices
- Updates to the Startin'blox framework to adapt it to QA
- Contributions to low level Solid software components
- Standard evolution suggestions

Organisation & logistics

Startin'blox proposes to engage the following team for the project:



Benoît Alessandroni
Senior architect



Jean-Baptiste Pasquier
Senior developer



Matthieu Fesselier
Frontend senior developer



Calum Mackervoy
Backend intermediate developer



Simon Rouault
Security expert



The project is collaborative. People are invited to help with:

- Front end development
- Back end development
- Documentation
- Testing
- Standard and specification discussion

Participants joining the project will be mentored by Startin'blox and/or Quick App platform experts (as appropriate) with respect implicated architectures and technologies → This will have the added benefit of facilitating future collaboration and ecosystem growth.

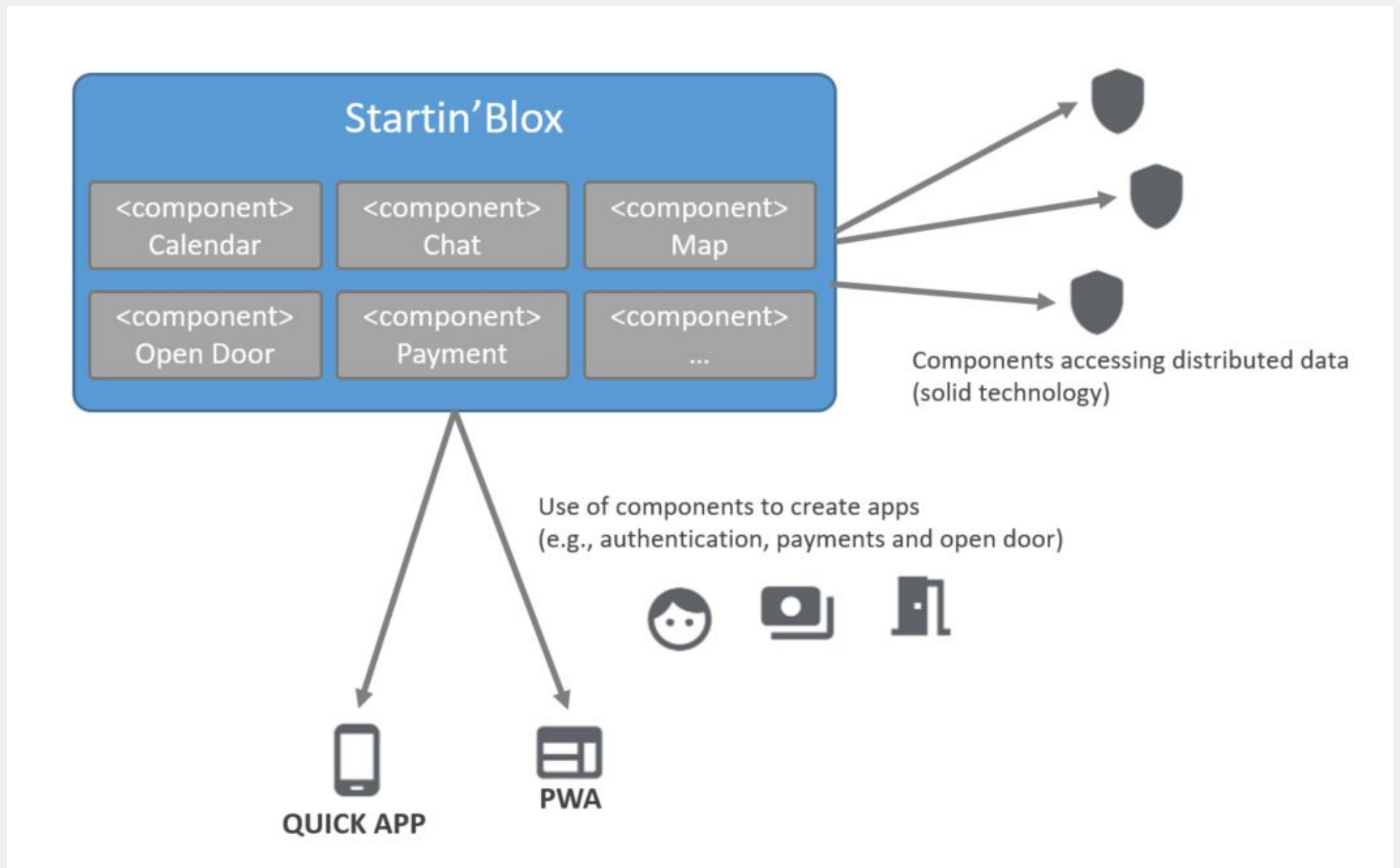
Results of the project will be pushed to the relevant collaboration spaces: Github of the Solid community, Gitlab of the Startin'blox components, QAI Gitlab, documentation repositories ...

All results will be open source under MIT and CC BY 4.0 licenses, or the licences of the external projects contributed to.

Technical Architecture

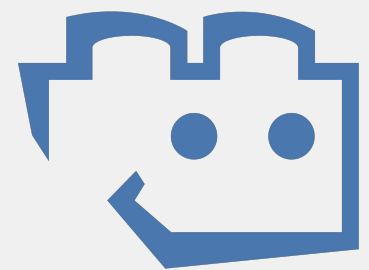
Developers can use Startin'Blox components to develop web applications and quick apps.

The components (or features) provide the app with the advanced capabilities of Solid technology, enabling innovative solutions while maximising users' **privacy**.



Solid integration in QA

[See full proposal](#)



Acknowledgements



Sylvain Le Bon
sylvain@startinblox.com