

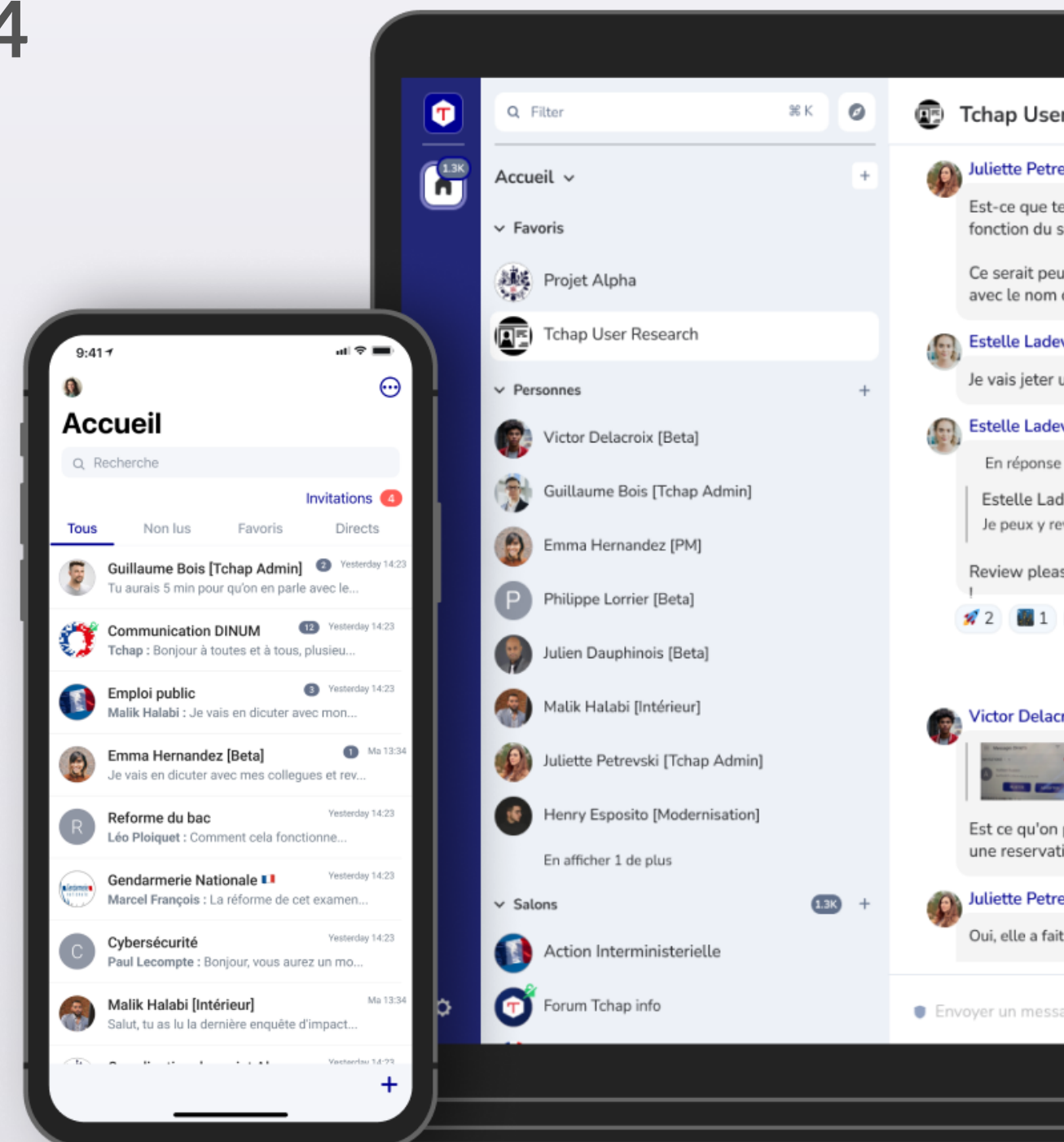


Matrix Conference September 24



Tchap

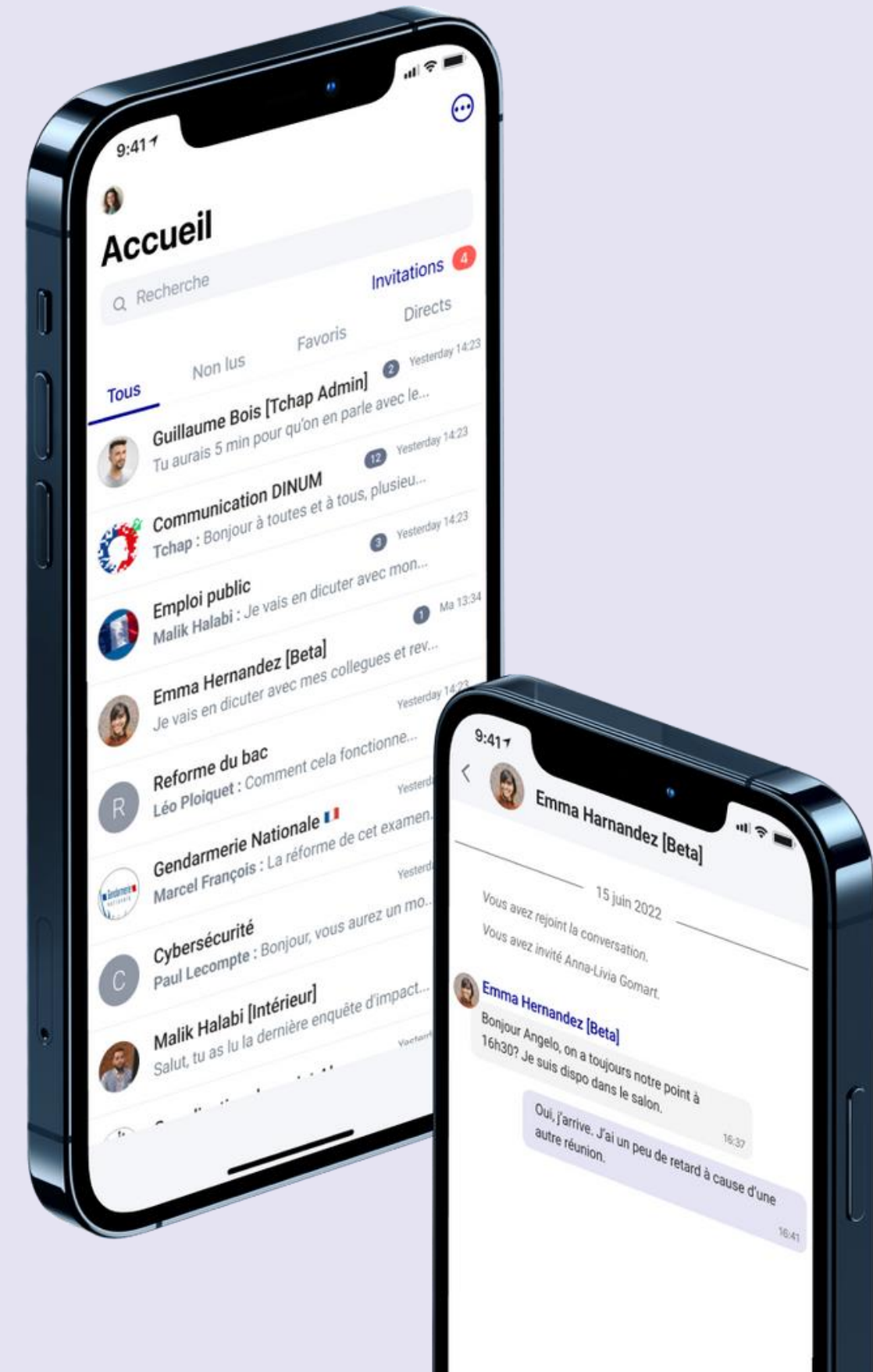
The French administration federation: past, present and future



What we're going to talk about



- Matrix in France
- Tchap's specificities
- Tchap's difficulties
- Our aspirations : Tchap and beyond





Matrix ??





Matrix ??

$$A = \begin{bmatrix} a & b & c \\ d & e & f \end{bmatrix}_{2 \times 3}$$



Matrix !!



Tchap



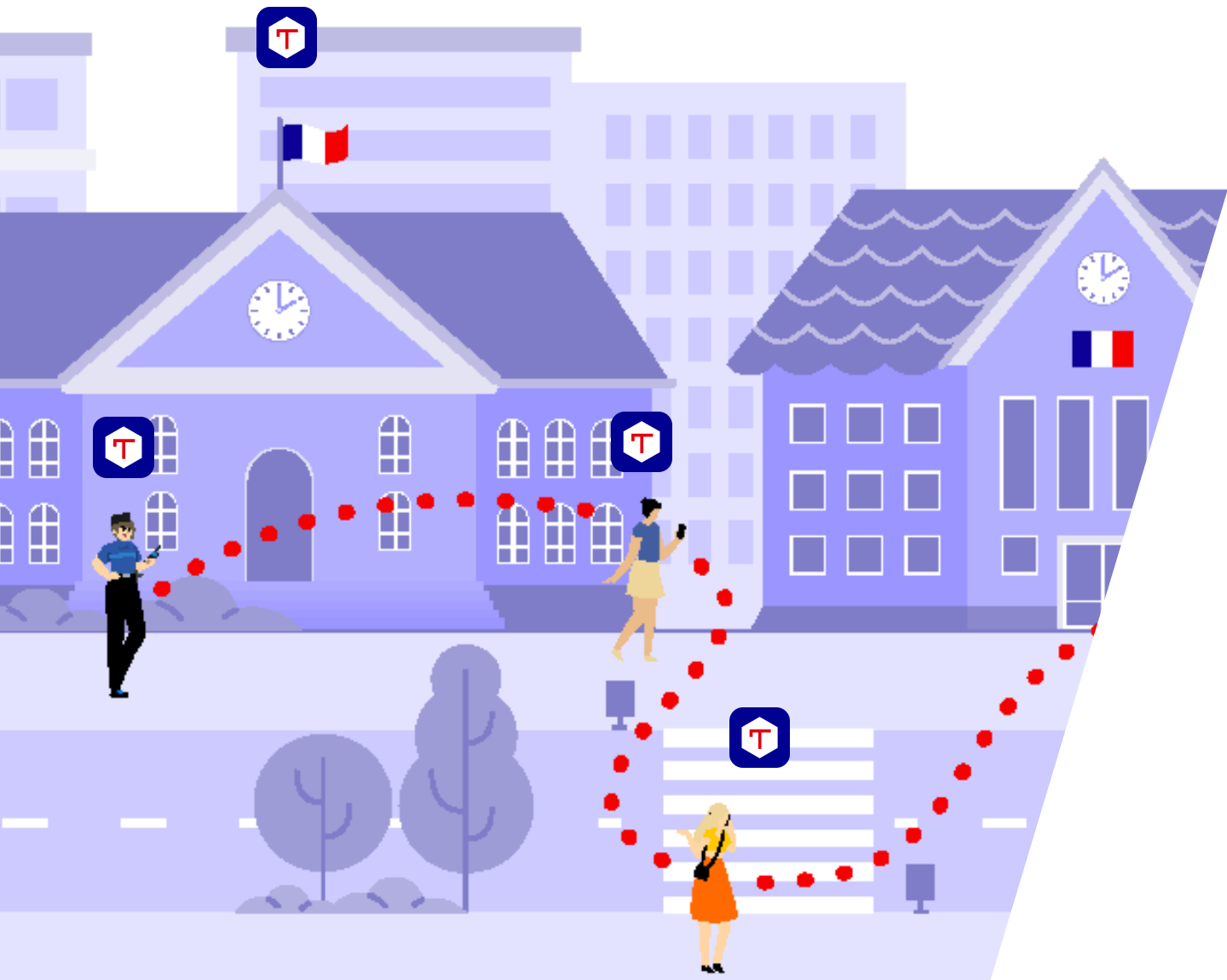
About Tchap



Tchap is the French public sector instant messaging tool.

It's part of the Suite Numerique/ **Digital Suite** : some collaborative work tools offered by la Direction Interministérielle du Numérique (DINUM) to all public agents.

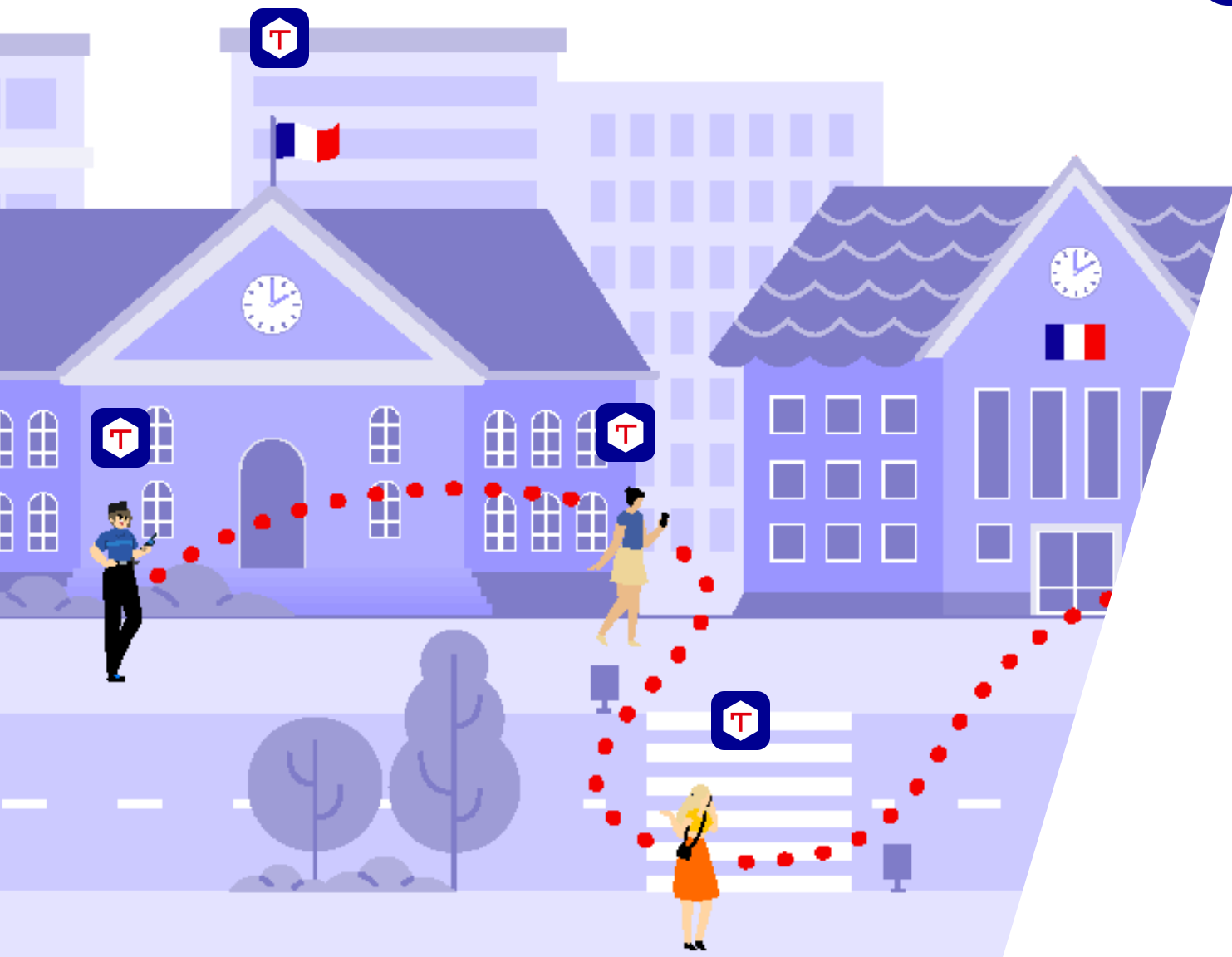
About Tchap



The idea of Tchap was born from three observations made in 2018 :

- Need for new forms of communication and need for immediacy
- Hegemony and dependence on the USA/Russia for instant messaging tools
- Security constraints not respected with existing tools

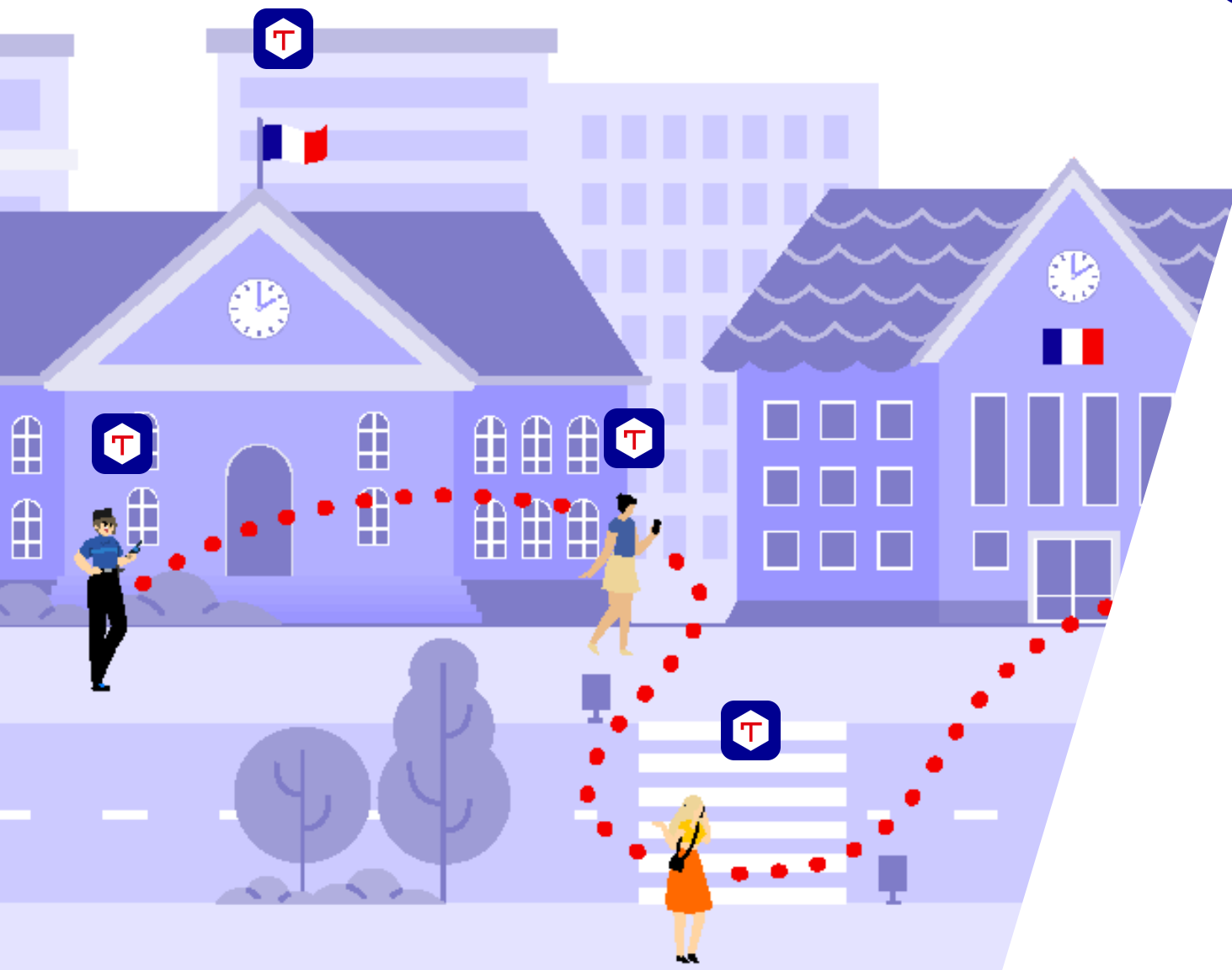
About Tchap



The choice of Matrix :

- Public money, public code : opensource
- Interoperability
- Strong community behind the protocole
- Matrix was already used by a strong French actor for Defense teams : Thales (Citadel)

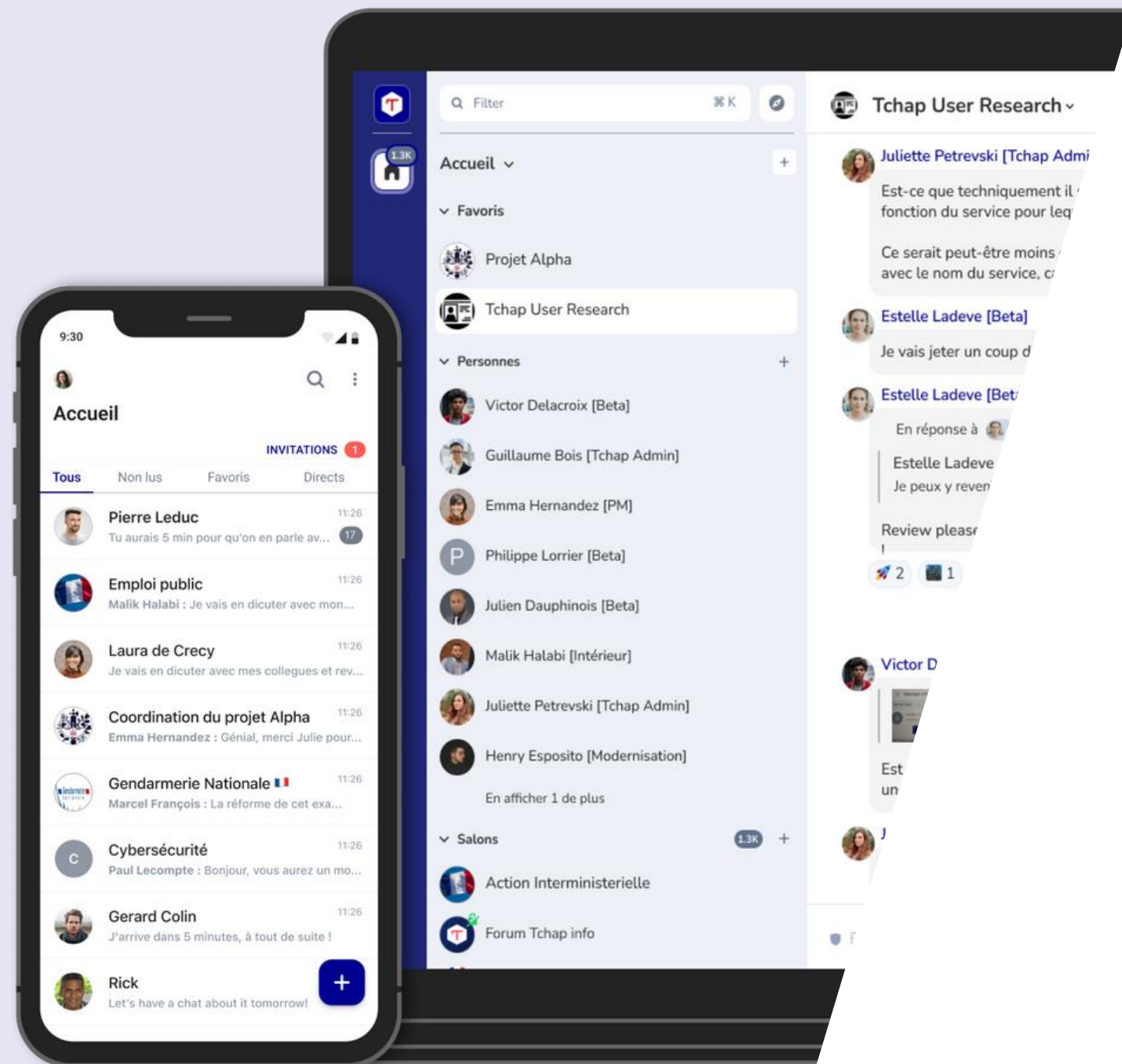
Tchap's specificities



Why a fork of Element ?

- Complex tool :
 - Simplification
 - Adaptation to the need of French public agents
 - Visual identity for the French State
- However we aim to be **as close as possible to community-driven source code.**

Tchap's specificities



- Closed federation but external users (private sector) with restricted possibilities
- 17 homeservers: one for each ministry+ one for local authorities + external users
- Antivirus
- Private room vs public room
- Native directory built with email addresses

About Tchap



3 clients : Tchap Web, Tchap Android, Tchap iOS

470 000

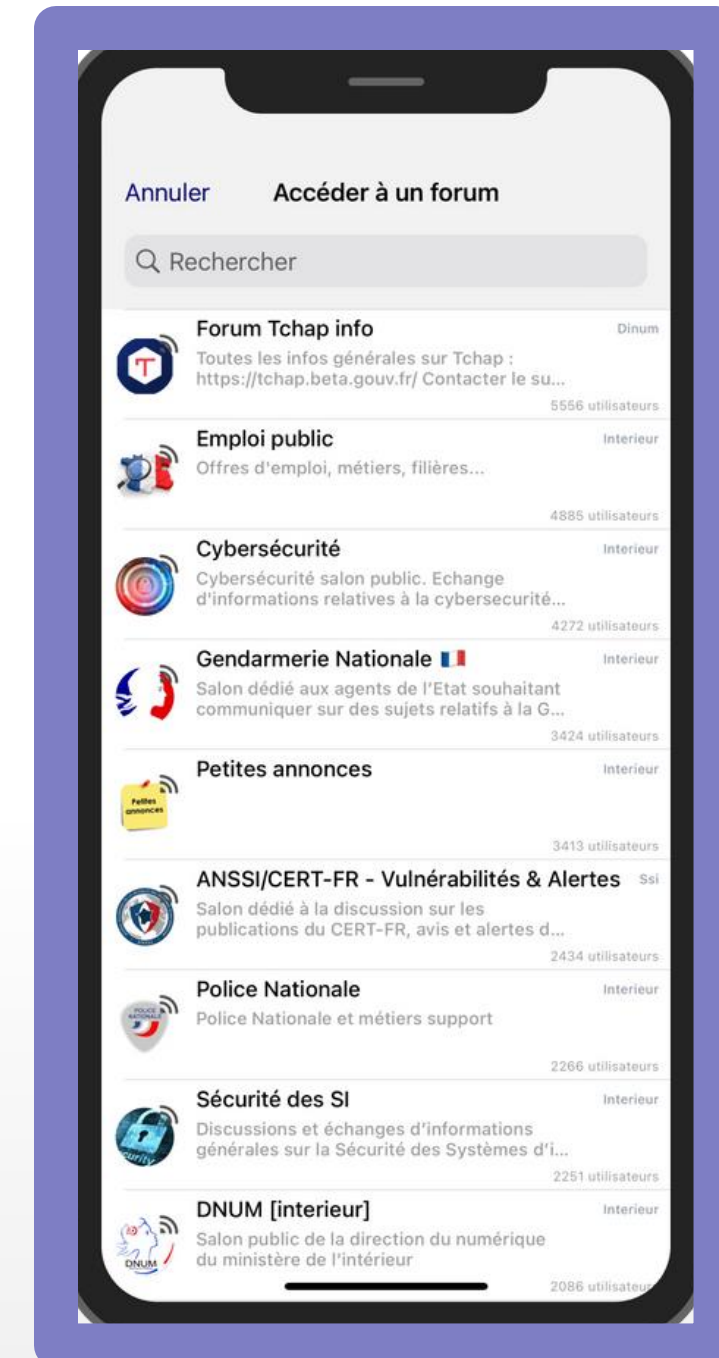
Accounts on Tchap

6,5 millions

Messages sent each month

242 000

Active users each month
(+50% compared to 2023)



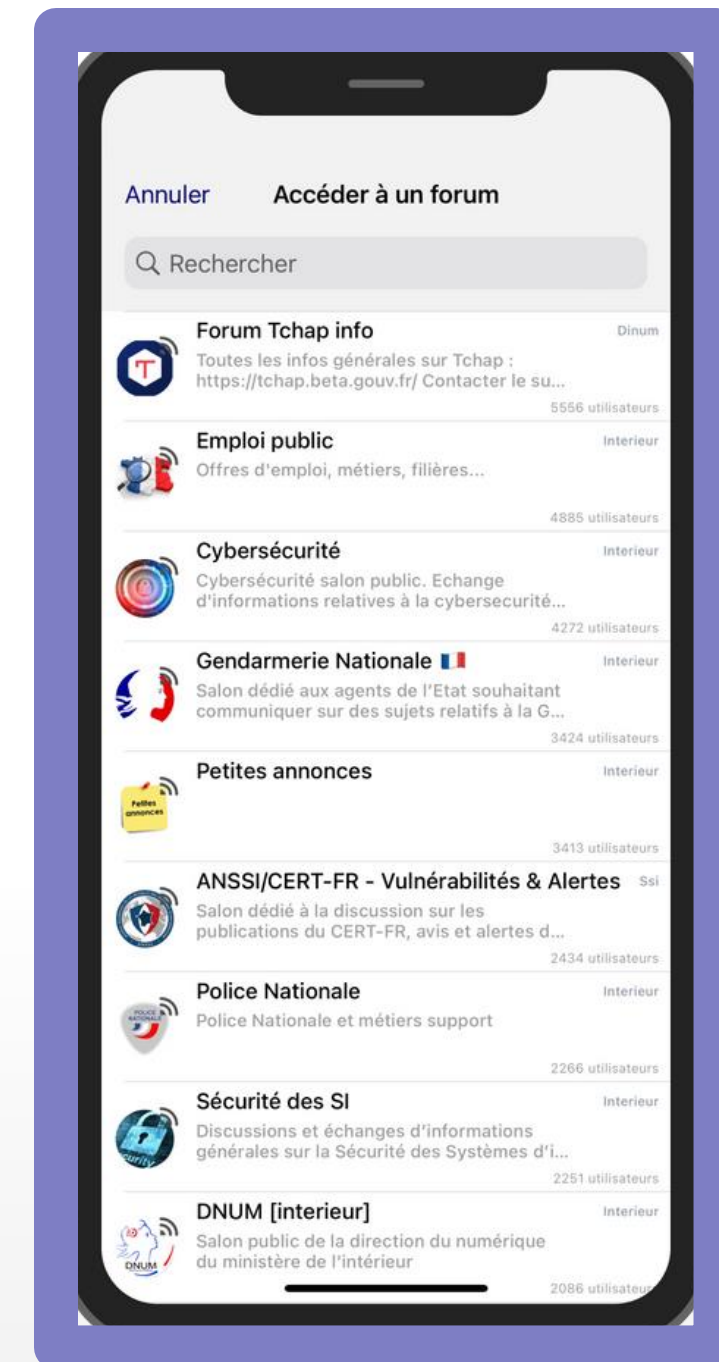
About Tchap



The last features we released on the 3 clients : Tchap Web, Tchap android, Tchap iOS :

- Call and Visio 1:1 E2EE (voip)

- Live location sharing based on maps from data.gouv.fr



About Tchap

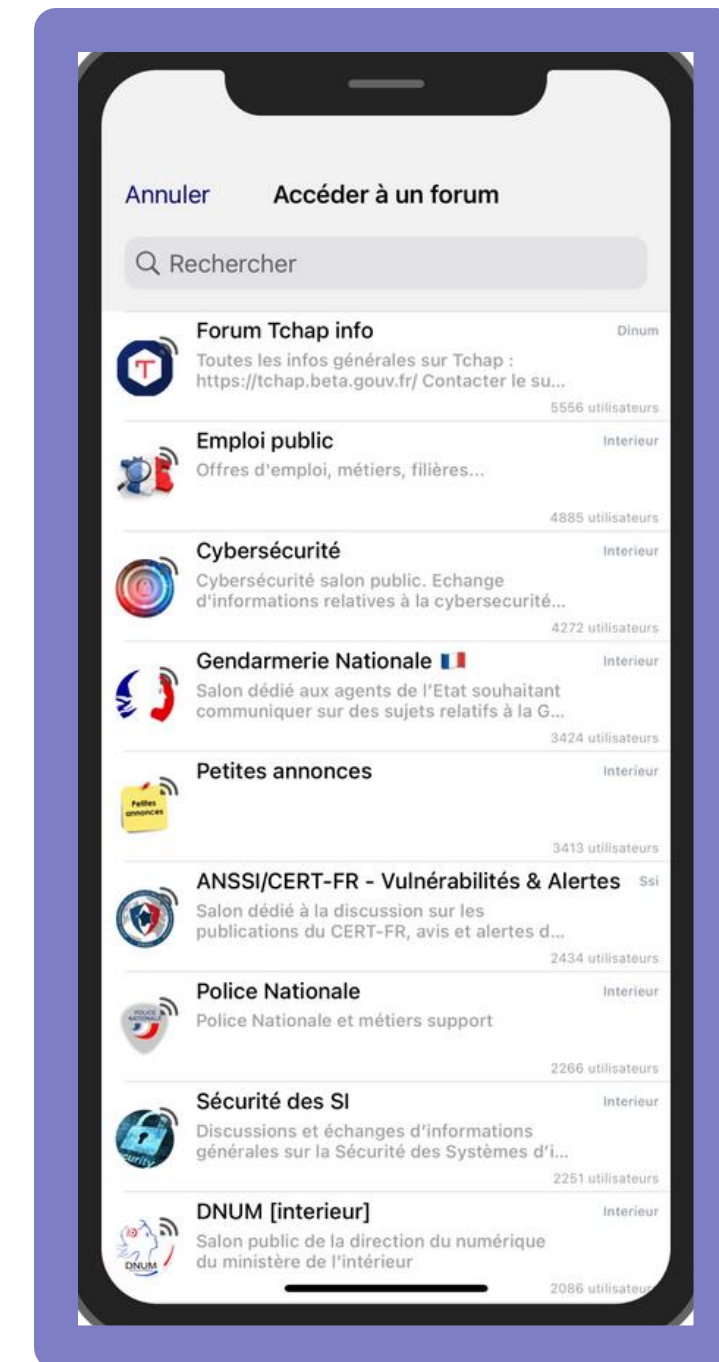


A big success during the Olympics (July-August 2024)

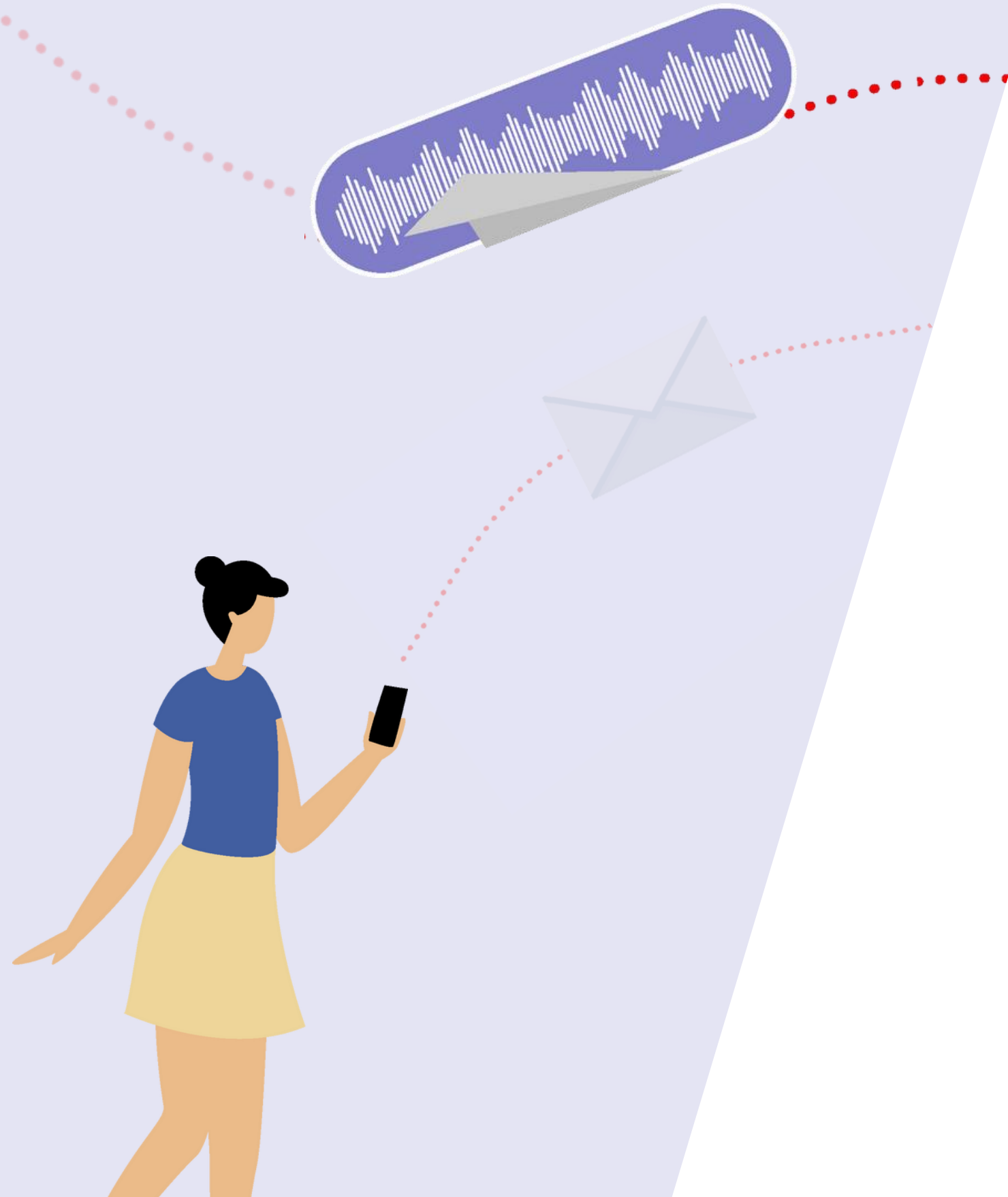
**Accounts created in July
doubled compared to May**

**7M messages sent in July
(+27% compared to May)**

**44% increase in the number
of rooms created in July vs
May**



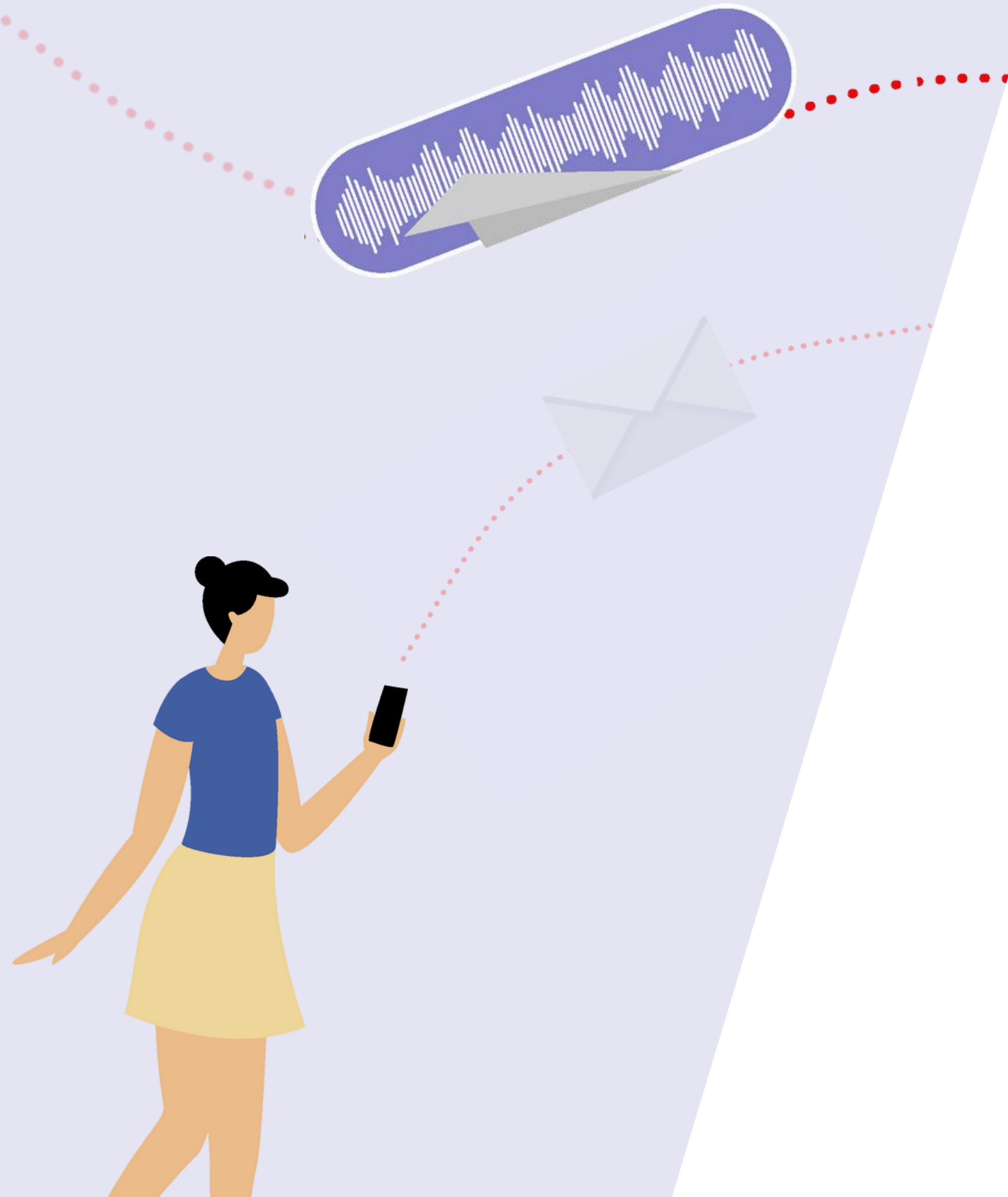
Tchap's difficulties



Roadmap

- Security vs smooth user experience
- Divergent needs between ministries
- Fight against proprietary messaging

Tchap's difficulties



•Opensource funding

- Difficulty in finding a legal framework to fund open source contributor
- Encourage a diversity of actors and business models, rather than relying on a single dominant private entity
- Which criteria to decide on investing in an open source product?
- Fund features vs maintenance

Tchap's future evolutions



Element Call on Tchap web and mobile

- Visio in Tchap using livekit

Tchap X

- Mobile clients based on Element X

SSO (OIDC)

- French state SSO : ProConnect

Tchap's aspirations



Digital suite

- Be part of a Digital Suite using ProConnect SSO
- Integration of other tools of Digital Suite

Open our federation to some others

- Connect to the education Matrix node
- Help local authorities deploy Matrix nodes
- Connect with the Germans



Any questions ?

Don't hesitate to write to tchap@beta.gouv.fr



Tchap