ICOLD & CFBR Symposium
Sharing water: Multi-purpose of reservoirs and innovations
Partager l'eau : Multi-usages des réservoirs et innovations

Ma Rivière et moi: a digital platform to enhance dialogue with river users and stakeholders

Benoît DESAINT, *EDF Hydro*

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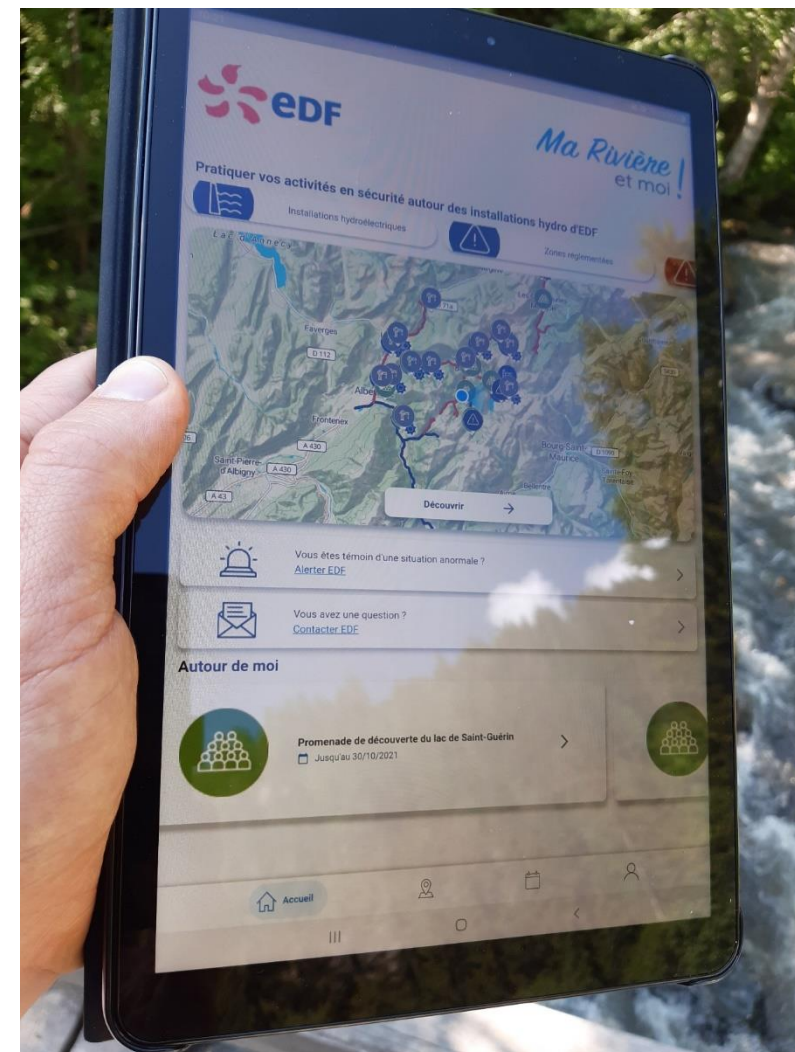*Partager l'eau : Multi-usages des réservoirs et innovations*

''Ma Rivière et moi'' in a nutshell

''Ma Rivière et moi'' is a free application which helps people to **perform** their activities (fishing, canoeing, hiking...) **safely** around EDF's hydro schemes by delivering real-time information on waterbodies' status.

Presentation summary

- EDF Hydro in few words

- Stakeholders' expectations

- Co-construction: from ideation to web and smartphone application

- Ma Rivière et moi features

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EDF more than 70 years of dialogue and stakeholders' engagement for the benefit of the reservoirs' neighbours

EDF is the 1st hydro generator in Europe

427 hydropower plants operated in France

240 dams > 10 meters in France

More than 7 billions of m³ Stored in EDF reservoirs in France

Barrage de Bort-les-Orgues, crédit photo : DIDIER MARC / PWP

Sharing the use of water :

✓ Ensuring relevant water levels for tourism and safety (fire-fightin)

✓ Developing infrastructures for water activities (accesses, beaches, …)

✓ Using water storage to the benefit of other activities : drinking water, manufacturing, biodiversity, artificial snow

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Stakeholders expectations

Local representatives, anglers, sport clubs and other stakeholders are increasingly interested in specific, located and **real-time information** on the waterbodies' status in order to:

- *Plan their activities*
- *know and mitigate risks*
- *Learn about the river and hydropower and interact with the operator of the facilities*

Examples of the data required: reservoir levels, river flows, influenced river sections,…

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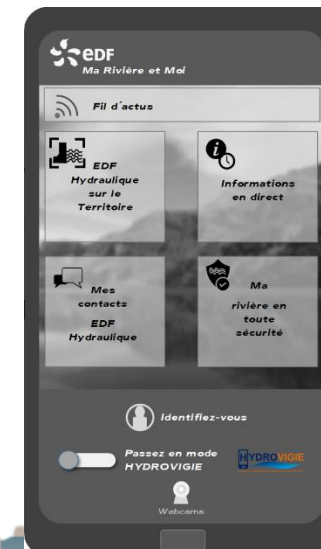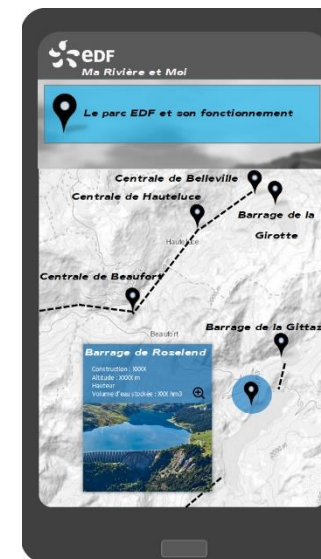*Partager l'eau : Multi-usages des réservoirs et innovations*

A tool designed with and for the stakeholders

- Pilot rivers in the Pyrenees and the Alps to define the needs

- Workshops with stakeholders

- Decision to develop a single tool addressing the majority of expectations
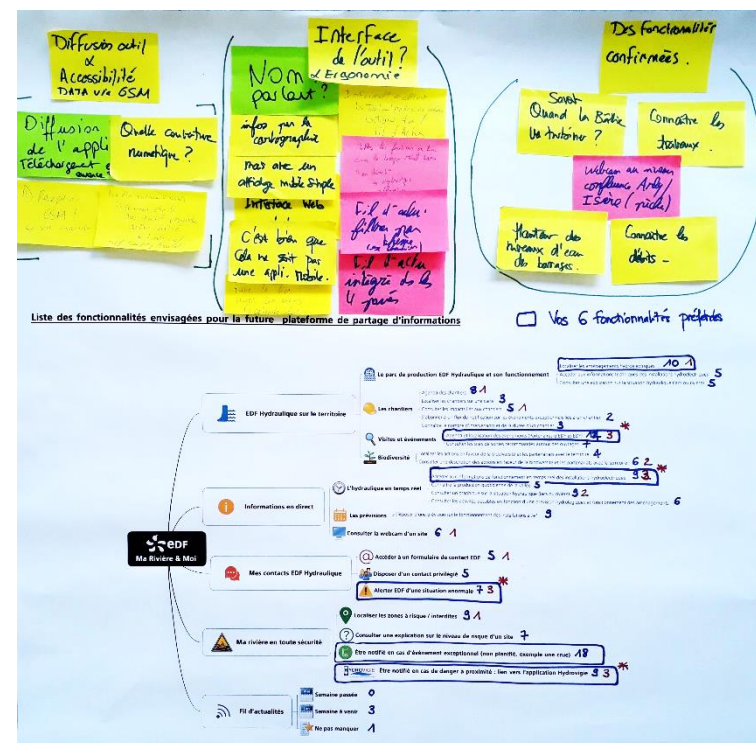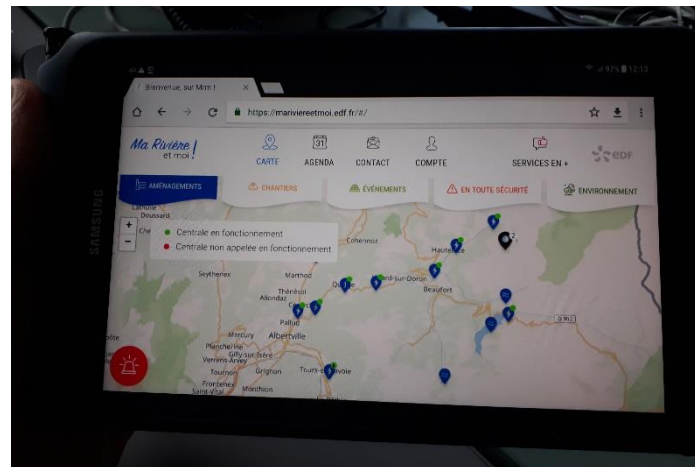
First mind map and mock-up

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A tool designed with and for the stakeholders

- First interactive mock-up set up. Test with stakeholders

- Based on functional and ergonomic feedback, development of a prototype made available online from January 2019 with restricted access for users' testing

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A tool designed with and for the stakeholders

- First web version implemented online in July 2019 for the use of EDF summer safety officers along the rivers

- Perimeter extended to 105 facilities during summer 2020

- Mobile app released on Play Store and Apple Store in July 2020

Ma Rivière et moi features

More than 370 dams and hydro power plants now included
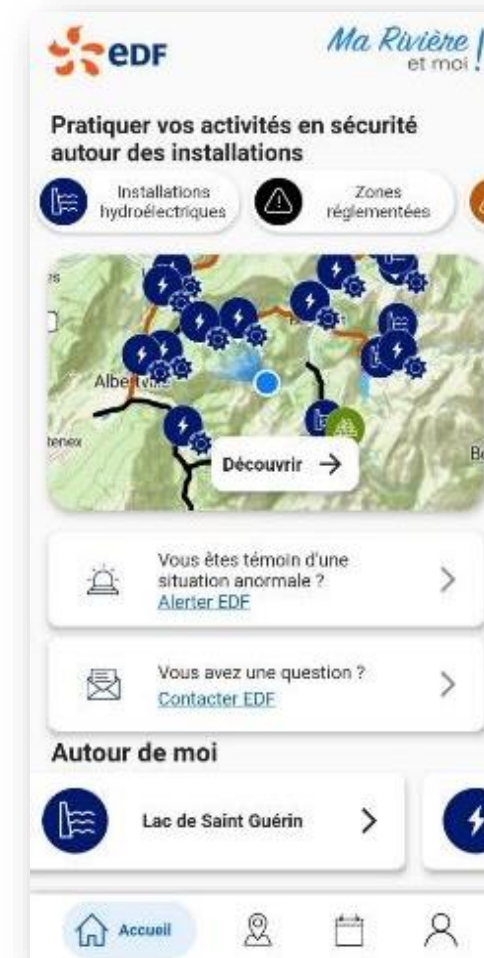
Focus on smartphone application services

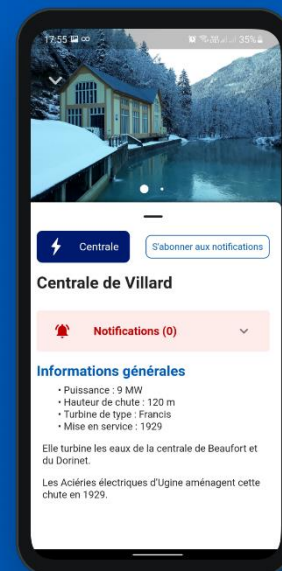| Explore the map	Identify	Discover	Consult
To locate EDF's facilities	Restricted areas around EDF's facilities	Near-by activities and conditions	Hydro facilities' information

Discover Ma Rivière et moi, the application intended for rivers and pond users

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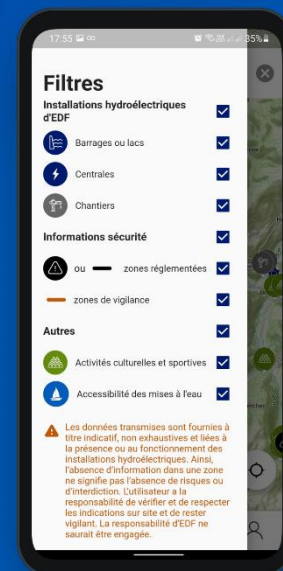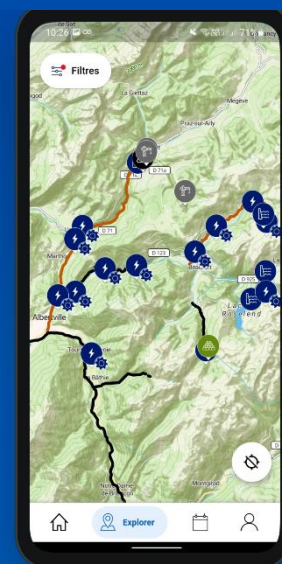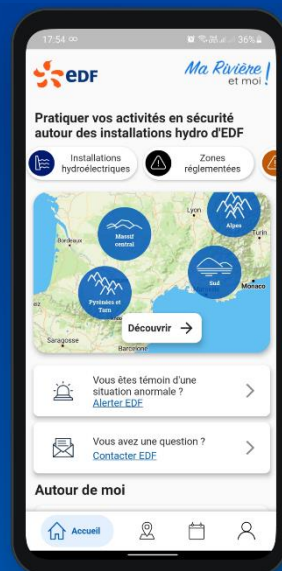
Dataflow from facilities to users

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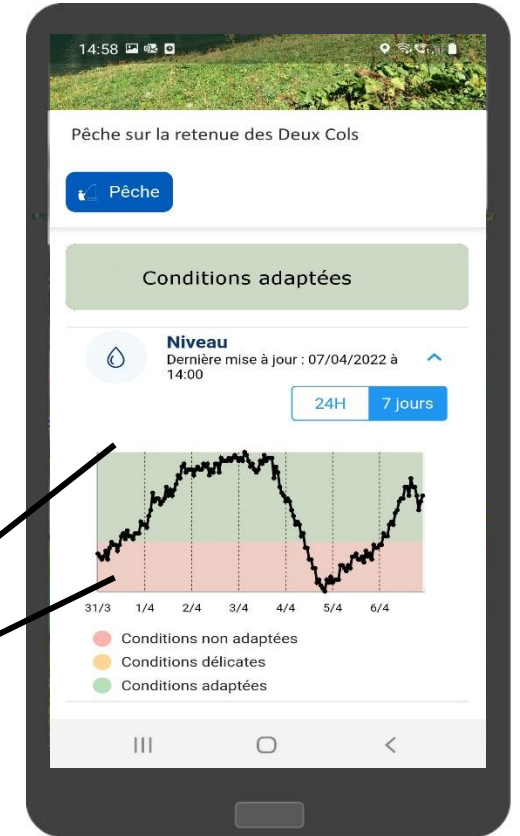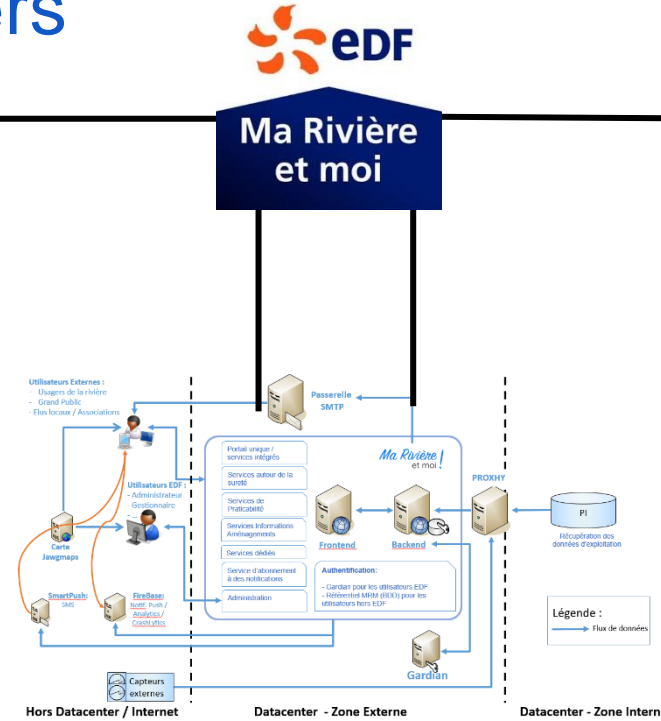
Conclusion

Ma Rivière et moi helps fostering the dams' acceptability by

✓ Easing the dialogue with stakeholders

✓ Developing the transparency of operation through real-time information provision

✓ Improving the safety conditions of tierce-parties' activities along the river

✓ Providing users' feed-back to the operator on river conditions and operation's impacts