Sustainable HCI for Managing Water Scarcity & Reducing Technological Waste



Sustainable HCI (SHCI)

15 years of history, with lots of criticism

```
Is technology the answer?
Are we making real impact?
```







Fuga de agua. Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-aguatuber%C3%ADa-1002110/)







Fuga de agua. Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-aguatuber%C3%ADa-1002110/)







Fuga de agua.
Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-agua-tuber%C3%ADa-1002110/)

Context

Water scarcity in Chile

data not accessible to local communities

Goal

Study/create visualizations for the communication of water scarcity and decision making



Fuga de agua.
Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-agua-tuber%C3%ADa-1002110/)

Tasks:

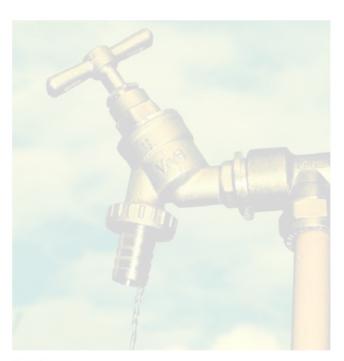
- Critical literature review
- Select and/or create new visualizations
- Design and, if there is enough time, conduct a user study to evaluate the final result



Fuga de agua. Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-aguatuber%C3%ADa-1002110/)







Fuga de agua.
Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-agua tuber%C3%ADa-1002110/)





Context

There is a need to consider design withing the limits of grow

Goal

Propose (futuristic) designs and processes to help to decrease, the amount of computing devices used by humans





Tasks:

- Critical literature review
- Assesment of limitations and alignment with the IPCC sixth report.
- Propose and evaluate designs with workshops with users and HCl experts.







Fuga de agua. Fuente: (https://pixabay.com/es/photos/fontaner%C3%ADa-el-aguatuber%C3%ADa-1002110/)





Design to reduce tech waste



María Jesús Lobo maria-jesus.lobo@ign.fr

Olivier Chapuis
olivier.chapuis@lisn.upsaclay.fr

More info: https://ilda.saclay.inria.fr/jobs.html