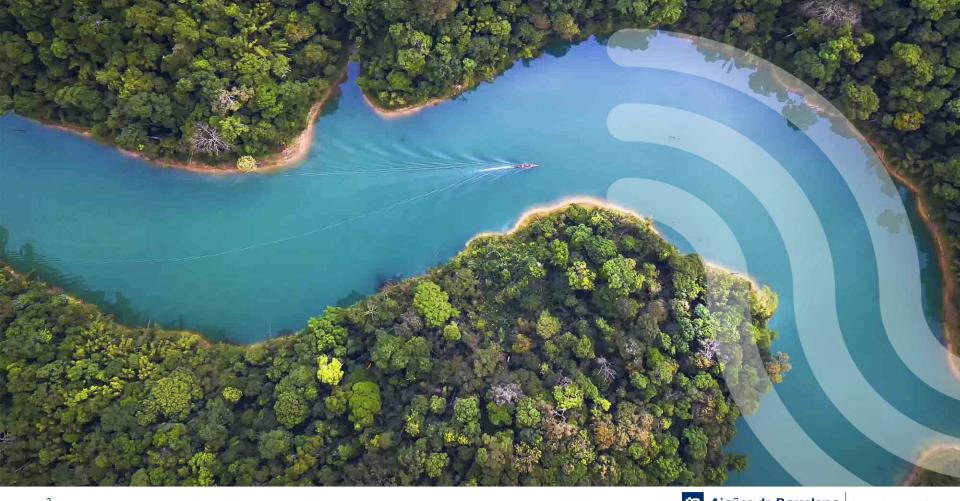
UPC



La gestió responsable

Artificial Intelligence for sustainability: a data-driven tongue for Barcelona drinking water





The water cycle



Complex

Heterogeneous

Distributed

Critical

Highly dynamic





The challenge



Al for sustainability: to build a datadriven digital tongue to expand the use of tap water in Barcelona

- On-going effort to improve the odour and taste of tap water in Barcelona.
- The perception taste of water is a complex function which depends on multiple factors (source, compound matrix, weather...).
- The ability to model and infer in real-time the perceived taste of water may provide relevant insight to improve the operation.

(b) Tech

- Sensor data (a lot) on water parameters (temperature, PH, conductivity, turbidity....)
- Labelled data on perceived water taste
- Al
- Computing infrastructure
- Hyperspectral imaging?
- Edge-computing and distributed Machine Learning?

But also



Real-world deployment



Real-world experts

Gràcies rafael.gimenez@cetaqua.com



La gestió responsable