

## Nota biográfica

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<https://www.dgterritorio.gov.pt/jiide/>

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### Sessão nº. 11

Water Health Indicator System (WHIS): A water quality monitoring API based on Copernicus data

Daniel is a product owner at Development Seed. He specializes in spanning bridges between science, code, and customer needs. Daniel has been following his passion for building online mapping tools since he built his first digital map to visualize his research results. For over a decade, he has been creating geospatial software tools in the cloud by combining Data Science with Earth Observation and Artificial Intelligence. Daniel holds a Ph.D. in Sustainable Energy Systems from the Technical University of Lisbon IST and an MSc in Physics from ETH Zurich. This talk will present initial results from a feasibility study that aims to develop a proof of concept for the Water Health Indicator System (WHIS). This system is being developed in a Portuguese consortium including Development Seed and Associação para a Investigação e Desenvolvimento de Ciências (FCID) from the University of Lisbon, and the support of the Portuguese Space agency, PT Space.

The WHIS system will leverage the latest advancements in earth observation and big data analytics to provide an innovative solution for monitoring water quality, quantity and health. We

will utilize Copernicus data and other available open source satellite data, which will enable us to analyze and visualize water quality parameters in near real-time.