

# Meeting Minutes — SIMAS

Meeting with SIMAS

PIC Project • Instituto Superior Técnico • 2026

## 1. Meeting Identification

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<b>Date</b>	March 2026
<b>Location</b>	Instituto Superior Técnico
<b>Entity</b>	SIMAS (Inter-municipal Water and Sanitation Services of Oeiras and Sintra)
<b>Participants</b>	Francisco Caravana, Margarida Sebastião, SIMAS Representatives

## 2. Meeting Development

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### 2.1 Project Presentation and Feedback

The team presented the project to SIMAS, receiving positive feedback from the entity's representatives.

### 2.2 SIMAS High-Capacity Tanks

The existence of high-capacity tanks maintained by SIMAS in the municipalities of Amadora and Oeiras was discussed. These tanks serve to ensure water supply to the population in the event of a distribution failure by EPAL, guaranteeing supply for several hours.

However, it was also clarified that these tanks do not protect against failures in SIMAS's own pipeline network. In this context, it was acknowledged that:

- The SIMAS tanks represent a good existing solution for supply contingencies.
- The solution developed in the project significantly complements this existing infrastructure, addressing scenarios not covered by the current tanks.

### 2.3 Telecommunications — Private 5G Network vs. LoRa

In the context of telecommunications, the question was raised as to why a "private" 5G network would not be used for the system. After discussion, it was concluded that:

- A private 5G network would be a valid option for an already deployed field application.
- In the specific context of the PIC project, LoRa technology proves to be a suitable solution — being the best-suited option for the project's needs and scale.
- Additionally, it was noted that ANACOM enforces strict regulations regarding this type of private networks, which is a relevant factor in the adopted technological choice.

## 2.4 SIMAS Contribution and Collaboration

A possible active contribution from SIMAS in the project's development was discussed. The entity's representatives offered the following forms of support:

- Provision of a physical space for the development of the project.
- Collaboration with the SIMAS water laboratory for prototype testing.
- Invitation to the project team for a visit to SIMAS facilities, expressing openness to deepen the collaboration.

The project team expressed interest in some of the proposals and agreed to get in touch to define the next steps.

## 3. Conclusion and Next Steps

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### Confirmed

- The project solution is complementary to SIMAS's existing tanks — not competing.
- LoRa technology is the most suitable for the PIC project context.
- SIMAS expressed availability to support the project with space and laboratory resources.

### To Do

- Contact SIMAS to schedule the facility visit.

## 4. Closing

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With no further matters to address, the meeting was declared closed. It was agreed that, should additional clarification or project development support be required, the team may contact SIMAS.