

PIC Project — Meeting 2 Minutes

Emergency Water Supply System

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1. Requirements Study

The team decided to conduct a deeper study to solidify the project requirements before proceeding further with implementation. This step was deemed necessary to ensure all design decisions are grounded in well-defined functional and non-functional requirements, reducing the risk of costly changes later in the development cycle.

2. System Architecture — Water Supply

After reviewing the system architecture and deployment constraints, the team decided to connect the emergency water supply system to the existing municipal water grid. This approach simplifies the water sourcing problem, guarantees a baseline supply, and reduces the complexity of autonomous water management within each tank module.

3. Communication Protocol

LoRa-WAN Issues

The issues of using LoRa-WAN were addressed and it was concluded that LoRa-WAN cannot be used. A new protocol needs to be investigated.

4. Tasks and Next Steps

Pitch Deck

- Finish the Pitch Deck incorporating all the changes discussed in this meeting.

Deployment

- Choose where to put the modules, based on the Proteção Civil information.
- Define how many modules per node.

Communication Protocol

- Read the available literature on LoRa protocols since LoRa-WAN cannot be used.

Statistics

- Study the frequency of rotation of the water.
- Study how much time the UV-light needs to be on.

End of Meeting Minutes — PIC Project