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DALi Lab introduction

Accelerating market uptake of Drone-aided medicAl operations through Living Labs



itg



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Objetives



What do we aim to achieve?

- Provide guidance on developing **Living Labs** for drone-assisted medical services.
- Integrate **drones** into **healthcare** logistics to **optimize transport operations**.

How will we achieve this?

- **Designing an action plan** to set up a Living Lab.
- **Testing and validating drone-based solutions** (real flights & simulations).



Regulatory progress are slow and **market adoption faces challenges**.



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Why Drones in Healthcare?



Critical healthcare needs require speed & efficiency.



Drones provide an innovative solution for medical logistics.

Key Use Cases: Transporting medical samples, delivering medicines and critical supplies, supporting emergency response, and improving connectivity between rural and urban hospitals.



Expected Benefits:

- ✓ Faster response times
- ✓ Increased accessibility to healthcare services
- ✓ Improved efficiency in medical logistics



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Why set up a Living lab?

What is a Living Lab?

A living lab is an open innovation environment where stakeholders collaborate in real-life settings to co-create, test, and refine new solutions and technologies.

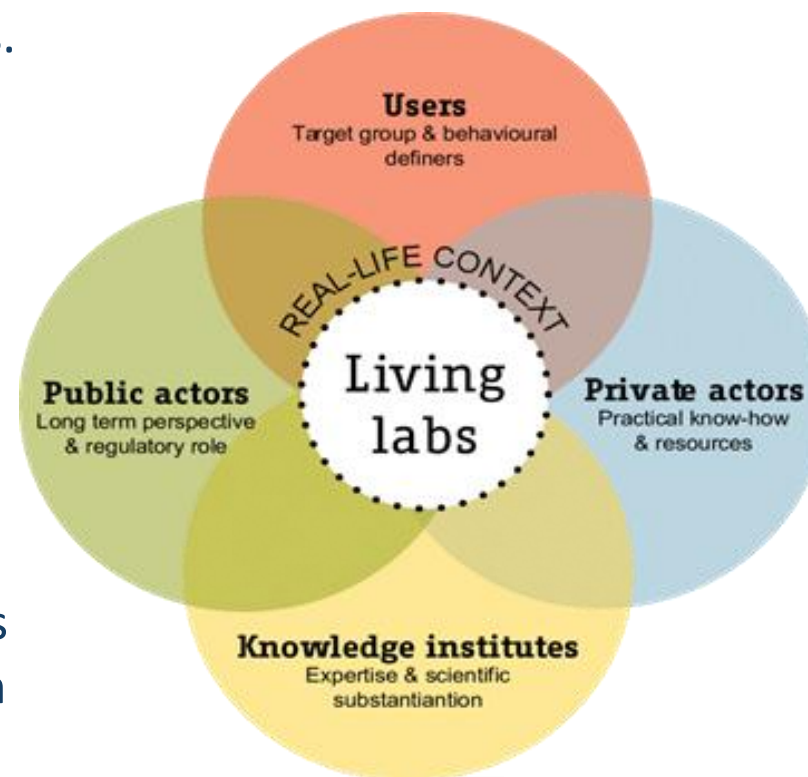
Why use it in drone healthcare logistics?

- Test innovations in real settings
- Involve users actively
- Speed up development with feedback



Expected Benefits:

- ✓ Accelerate drone adoption in healthcare
- ✓ Provide a reference model for future labs
- ✓ Facilitate multi-stakeholder collaboration



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Key points:

1,5 years



2025



Area of A Coruña

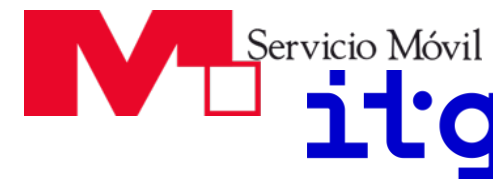
Local Ecosystem:



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Experts:



Technology providers experts:



8 partners + EAB



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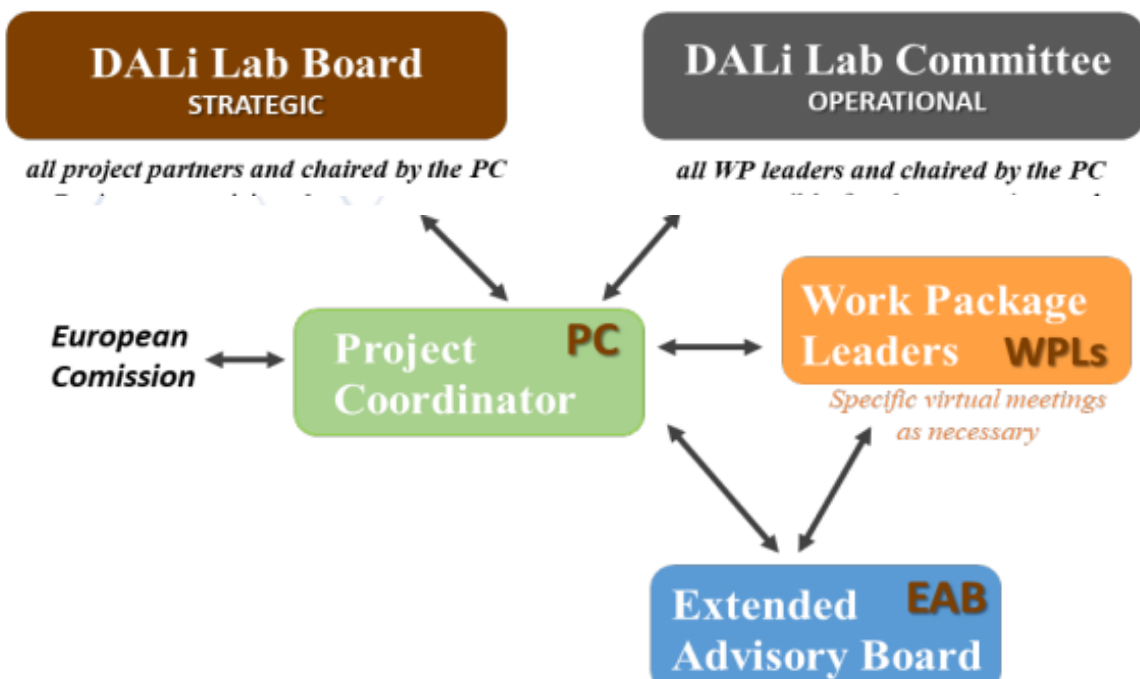


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Key points:



EXTENDED ADVISORY BOARD MEMBERS (EU AUTHORITIES AND EXPERTS)



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Project structure

Anticipating to
future scenarios

Design of Living
Lab

Implementation
and validation

Recommendations
and
communication



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Anticipating to future escenarios

3 Delphi Surveys

Gather and refine expert opinions to achieve a well-informed consensus on medical drone delivery.

3 Workshops (METHODOLOGY: LEGO, THINK WRONG, STRATEGIC FORESIGHT)

Conducted in a hybrid manner shall follow the Delphi survey, where analysis from the survey will be utilised to build a common understanding of the different use cases, scenarios, and roadmaps to achieve them.

Use case

- **Key Outcome of workshop-1**
How technology is applied in a real-world context.

Scenarios

- **Key Outcome of workshop-2**
Strategic Future Outlook (technological, regulatory, social, economic) interact over time.

Roadmaps

- **Key Outcome of workshop-3**
Structured plan that outlines the strategic steps to achieve a desired future state



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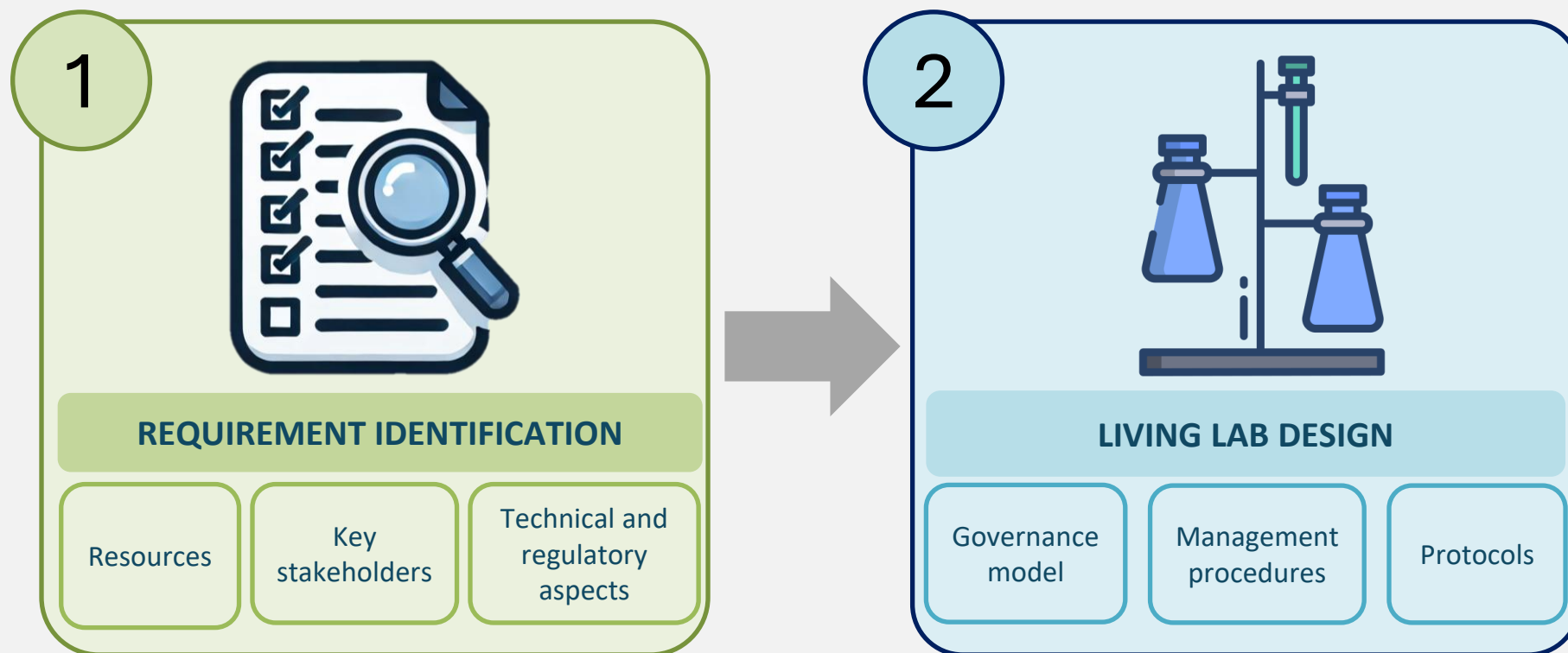


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Living labs design for drone aided medical use

To develop a comprehensive governance model, establish clear strategic objectives, and create a generic design methodology for living labs focused on medical and commercial drone applications

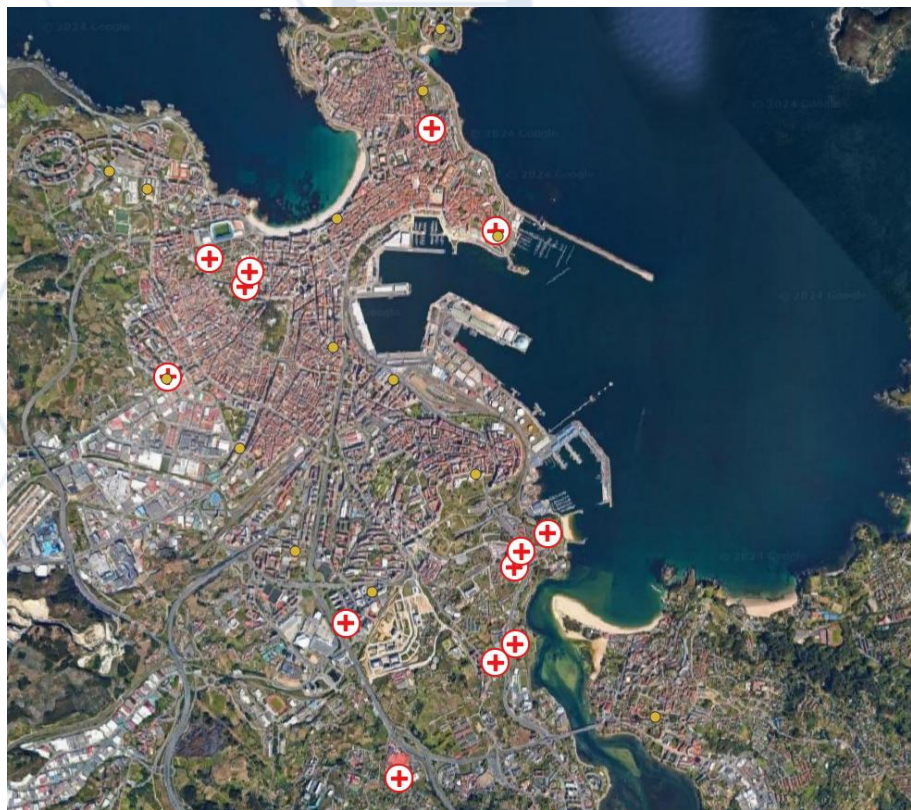




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Implementation and validation



Develop a **Minimum Viable Product (MVP)** technical framework to be deployed within the living lab as a response to this need of drones in the healthcare

📍 **Location:** Health Area of A Coruña & Cee (ASACEC)

Medical centers involved: CHUAC, Oza Hospital, Maternity Hospital...

Tested logistics use case: Drone transport for medical supplies to test real-world operations

✓ **Compliance with EU and Spanish Regulations**



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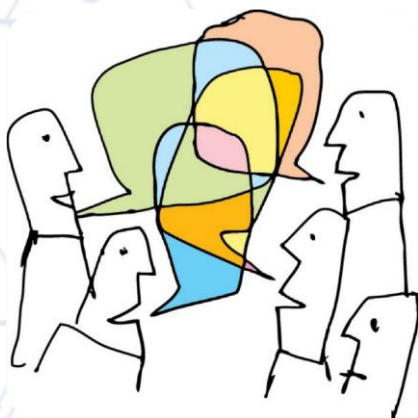


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Recommendations and communications

🌍 *Grounded in local, shaping global impact*



Ensure smooth and effective
communication among all
stakeholders



Provide strategic recommendations
that guide local to global adoption



Maximize the impact and exploitation of
drone-aided healthcare solutions



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Thank you!



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Visit us in: <https://dali-lab.eu>



Don't hesitate to contact me!

 cgonzalez@itg.es

 +34 657 892 939



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