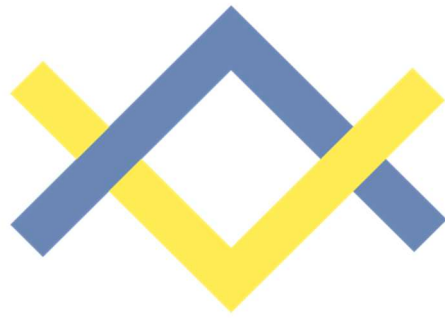




The HuT

**By learning from the past and diving
into hands-on research, students
become leaders in climate monitoring
- helping to protect communities and
shape a safer future**

‘The HuT for Me and You’
Narrative

DEMONSTRATOR 2
Vall D’Aran
(Spain)

May 2026



This project has received funding from the European Union’s Horizon Europe research and innovation programme under grant agreement N° 101073957

A valley marked by water

In June 2013, Vall d'Aran experienced one of the most severe floods in its history. Overflowing rivers isolated villages, destroyed infrastructure, and deeply affected many families, especially those with homes or businesses near the river.

More than a decade later, the memory is still alive. In many households, “those days” are still talked about—with a mix of fear, resilience, and the will to learn from the past.

That same will is at the heart of The HuT project, which brings together technology, research, and community engagement to help prevent and mitigate the impacts of future extreme weather events in Vall d'Aran. Through education, local data collection, and collaboration with emergency services, The HuT is transforming the experience of 2013 into a catalyst for resilience and preparedness.



A Generation Preparing for the Future

At Institut d'Aran, secondary school students explore how extreme weather events are not just natural phenomena, but also social and technical challenges. Using the 2013 flood as a real-life example, they gain awareness of local risks and how climate resilience is built.

The HuT for Me and You' Narrative
DEMONSTRATOR 2 Vall D'Aran (Spain)

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In collaboration with our team, students visit our facilities to see first-hand how risk management works. They explore the tools and sensors used for early warning systems and begin to understand how they themselves can become key actors in protecting vulnerable areas through climate monitoring.



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Many share that the 2013 flood is still a common topic at home. This personal connection often sparks a deeper interest in learning how to prevent similar events in the future.



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Next Step: Research with Local Impact

In the 2025 academic year, these students will begin their first year of upper secondary education (Batxillerat) and start their final research project (Treball de Recerca - TDR). This time, their work will be part of the TheHuT project, with real-world implications.

At the start of the school year, we'll hold an orientation session with Arantec and the UPC, introducing students to potential research topics and methodologies. Each student will be encouraged to choose a direction that matches their own interests and future academic goals—whether in science, engineering, economics, communication, or public policy.

Throughout the process, students will be guided and supported by our team. They will have chance to carry out part of their research at our facilities, where they can work hands-on with tools, data, and real equipment. Additionally, they will be able to interview and collaborate with local emergency technicians, municipal staff, and other specialists, gaining first-hand insight into how risk is managed in the Vall d'Aran.

Applied Learning for a Safer Community

The goal is not only for students to complete an academic requirement, but to produce work that brings real value to their community. In Vall d'Aran, some of the current challenges in risk management include limited access to real-time, localized weather data; low public awareness of what to do during extreme events; a lack of climate-related educational resources tailored to local needs; and the need for better documentation of past impacts to improve future preparedness.

Student projects can help address these gaps. For example, they might:

- Create interactive maps showing flood-prone or high-risk zones using open geospatial data.
- Design communication campaigns to inform residents, especially the elderly and youth, about emergency procedures.
- Develop citizen science tools to involve local people in monitoring weather and river levels.
- Analyze past flood events by collecting testimonies and comparing them with historical data.
- Propose low-cost early warning improvements based on local needs and habits.

Their research contributes to a deeper understanding of local vulnerabilities and offers practical, community-based solutions to improve climate resilience—while helping build a stronger connection between science, education, and the everyday reality of the Vall d'Aran.

At the end of the process, students present their findings to local authorities, experts, and the public—demonstrating not just what they've learned, but how they are actively contributing to a safer, more resilient community.



Main Message

Through their Treball de Recerca (TDR), students are not only learning about past extreme weather events—they are transforming that knowledge into action. By engaging with early warning systems, analyzing real climate data, and proposing innovative solutions, they are developing the skills, mindset, and confidence to face the challenges of a changing climate.

This is more than a school project. It's a process of empowerment that turns students into active contributors to climate resilience, capable of protecting their communities and shaping a safer future.

