



News and progress

FIRST EDITION



WHAT ARE WE DOING

Since last **October 2019**, the partners of Hospital Sudoe 4.0 have been mainly working and collaborating on:

- Collecting data from more than **1500 hospitals** and **auditing energy and water consumptions** of more than **50 hospitals of Spain, France and Portugal**.
- Understanding **pilots' sites and final users'** needs to improve their indoor air quality, energy and water consumption.
- **Developing a digital platform** that allows the visualization of theoretical and real consumption scenarios thanks to the conceptualization of a digital twin. This dynamic tool is based on 4.0 technologies such as IoT, energy efficiency calculation engines, Big Data or Artificial Intelligence.
- **Building a renovation passport**. This passport will identify corrective measures to be implemented in hospital infrastructure to improve its energy efficiency and reduce its carbon footprint.

The **next 6 months challenges** for the consortium will be the monitoring of the pilot sites by installing sensors in the 3 hospitals and developing the Hospital 4.0 platform



Interreg Sudoe

The Interreg Sudoe Programme supports regional development in southwestern Europe, funding transnational projects through the ERDF Fund

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<https://hospitalsudoe40.eu/>

ITCL

The Instituto Tecnológico de Castilla y León (ITCL) is a private non-profit foundation established in 1989 and whose purpose is to promote and facilitate the use of technology as a competitive tool for industrial companies and other organizations, using knowledge units and experience as a competitive strategy, with a commitment to integration into science-technology-company-society.

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Government of Extremadura

Directorate-General for Accessibility and Centres
Belonging to the Ministry of Health and Social
Services of the Junta de Extremadura (Spain)

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FundeSalud

Foundation for the Training and Research of Health Professionals in Extremadura (Spain). The Foundation for the Training and Research of The Health Professionals of Extremadura (FundeSalud) is a Foundation of the public health system of Extremadura not for profit and for purposes of general interest attached to the Ministry of Health and Social Services of the Junta de Extremadura.

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CCI Bayonne

Chamber of Commerce and Industry of Bayonne Basque Country, advises on the implementation and creation of activities, in the search for financing, on commercial competition, administrative procedures and the training of its collaborators.

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NOBATEK INEF/4

NOBATEK/ INEF4 is an applied research center, National Institute of Energy Transition and Environmental Construction. Accelerate innovation from idea to market. Its teams of researchers and engineers work together to develop and apply innovative solutions and products in the market to improve the energy performance and environmental quality of buildings and neighborhoods.

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ADENE

Agency for Energy (Portugal). ADENE – Energy Agency is the national energy agency, a private, non-profit and utilities association whose mission is to develop activities in the area of energy, water efficiency and energy efficiency in mobility.

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Instituto Superior Técnico

With a community of more than 12,000 people, Técnico is the largest school of architecture, engineering, science and technology in Portugal.

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ESTIA

The École Supérieure des Technologies Industrielles Avancées (ESTIA) is a French engineering and research graduate school. Over time ESTIA has been weaving different structuring partnerships in France and abroad and actively collaborates with various clusters and competitiveness poles.

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NEWS

The Hospital Sudoe 4.0 project started successfully last October 2019 with a Kick-off meeting organized by the coordinator Instituto Tecnológico de Castilla y León (ITCL). This ambitious European project involves 7 partners and three hospitals, as pilot sites, spread across 3 countries (Spain, France and Portugal) for three years of close collaboration. The Kick-off meeting was the opportunity to discuss and put in common the expertise of the Research Centers, the Public Organizations and the University and to clarify the role of each partner.



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Building renovation passport

It assesses all those issues related to the actual and theoretical consumption of hospitals, in addition to the management of them.



Improving energy efficiency in hospitals

This is the main objective pursued by the NOBATEK INEF/4 alliance and the Belharra Clinic within the framework of the HOSPITAL 4.0



Reduce regional energy consumption in public buildings by 32% by 2030

The regional administration of Extremadura wants to set an example in the energy savings and efficiency in its public buildings and in its mobile park.



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