



# CARING NATURE

Sustainable solutions for healthcare


# Title of the event or workshop

## Event place – Date

### KEY FACTS

<b>Start Date</b>	1 January 2024
<b>Duration</b>	36 months
<b>Budget</b>	6M€
<b>Aim</b>	Develop 10 sustainable solutions to lower the carbon footprint of the health and care sector

### PROJECT COORDINATION

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### AMBITION

CARING NATURE aims to foster a cultural shift in the sector: achieving **sustainable, eco-friendly healthcare systems** thanks to solutions that are effective, affordable, and acceptable to all stakeholders. Therefore, CARING NATURE develops **10 innovative solutions** to reduce the impact of the health and care sector on the environment, without interfering with the safety of patients and medical staff.



### Objectives

- OBJECTIVE 1 Governance**  
Increase the **governance** capability of HCPs, policy makers and investors to implement the green transformation, while ensuring social and economic sustainability.
- OBJECTIVE 2 Buildings**  
Reduce the environmental impact of buildings' renovation and energy consumption.
- OBJECTIVE 3 Waste**  
Reduce and valorise the medical and food waste as well as **wastewater**.
- OBJECTIVE 4 Patients travel**  
Reduce the environmental impact of **patient travel** through next generation telemedicine.
- OBJECTIVE 5 Staff engagement**  
Obtain **staff engagement** in the green transition of the healthcare providers



### Solutions

- Knowledge Sharing and Decision Support System**  
A software infrastructure empowering stakeholders through sharing sustainable knowledge, measuring environmental impacts, and guiding informed decisions for holistic healthcare sustainability.
- Green Lean Healthcare**  
An analytical method that identifies processes which reduce green house gaz emissions and removes non-value added activities for cost and time reduction.
- Green Building Compass 4 Care**  
An AI software-based toolkit for decision support regarding the development and management of green and resilient healthcare facilities.
- ENER**  
An AI-driven energy management software for healthcare buildings to monitor, predict, optimise, and assess processes towards low and zero impact sustainable energy structures.
- MED-WASTE PYROLYSIS**  
An on-site prototype plant to produce sustainable alternative fuel from medical waste by pyrolysis and therefore, eliminate waste transportation and landfill or incineration.
- CleanFlow**  
Assesments of affordable and sustainable processes for hospital wastewater treatment to reduce water pollution, based on economic, environmental and chemical criteria.
- WASTE - OR**  
A set of guidelines to reduce and valorise waste produced in operating rooms, promoting the reuse of materials and the rethinking of strategies and regulations.
- FoodToBiogas**  
A feasibility study of two on-site processes to produce biogas from food waste, allowing to reduce CO2 emission through transport reduction, local production of energy and reduction of antimicrobial genes.
- TELE-ME NOW**  
A set of telemedicine solutions in an all-in-one suitcase for patients enabling remote consultation with the same pieces of information as in-person visits (heart, lungs, ENT, ECG, skin, ...), protocols for delivering telemedicine, ...
- ENGAGE**  
A participatory staff engagement model fostering environmental sustainability awareness, innovative ideas, and adoption of solutions developed by CARING NATURE.

### Methodology

The solutions are co-developed tested and validated in **33 use cases in 5 European healthcare organisations** located in Finland, Germany, Greece, Italy and Spain.

### 19 PARTNERS FROM 11 EU COUNTRIES



### CONTACT US



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