

# HOPE Agora 2023

Climate and environment: challenges for hospitals and healthcare services - Spain

## This is us

FIRST NAME	SURNAME	COUNTRY
ANNE	HENRIKSEN	Denmark
BARBARA	GILIOI	Italy
BRAEM	SAGER	Sweden
CHIARA	PAGNINI	Italy
ERMES	MESTRONI	Italy
ILONA	LEHR	Germany
LISA	SCHWETZ	Austria
PAOLO	PARENTE	Italy
ROSARIO ANDREA	COCCHIARA	Italy
SANDRA	EISMANN	United Kingdom
SARA	EFFAT	Italy
SASKIA	BOTS	The Netherlands
VALENTINA	MANSO	Italy



# Host hospitals

Nº	HOST NAME	CITY
1	HOSPITAL CLINIC DE BARCELONA	Barcelona
2	HOSPITAL SANTA ANA GRANADA	Motril (Granada)
3	HOSPITAL UNIVERSITARIO DE FUENLABRADA	Fuenlabrada (Madrid)
4	HOSPITAL GENERAL UNIVERSITARIO REINA SOFIA	Murcia
5	HEALTHCARE AREA OF LUGO, A MARIÑA AND MONFORTE DE LEMOS	Lugo
6	HOSPITAL LA AXARQUÍA	Torre del mar (Málaga)
7	HOSPITAL UNIVERSITARIO DE SALAMANCA/ GERENCIA DE AISITENCIA SANITARIA SEGOVIA	Salamanca y Segovia
8	HOSPITAL VIRGEN DEL ROCIO	Sevilla
9	HOSPITAL SAN JUAN DE DIOS DE ALJARAFE	Bormujos (Sevilla)
10	HOSPITAL UNIVERSITARIO DE NAVARRA	Pamplona
11	HOSPITAL UNIVERSITARIO PUNTA DE EUROPA	Algeciras(Cádiz)
12	UNIVERSITY HOSPITAL SON ESPASES	Palma de Mallorca
13	SON LLÁTZER UNIVERSITY HOSPITAL	Palma de Mallorca



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# Best practice #1

National level – the health and environment strategic plan

# The Health and Environment Strategic Plan

## Mission and general objective

To promote healthy environments that help achieve the health objectives of the population and reduce the risks derived from environmental factors and their conditioning elements, reducing the burden of diseases and identifying new threats.

- Article 43 of the Spanish Constitution.
- Public Health Strategy (Law 33/2011, of October 4, General Public Health).
- International commitments (2030 Agenda for Sustainable Development and SDGs, EU, WHO) on environmental health.

SUSTAINABLE DEVELOPMENT GOALS



World Health  
Organization



# The Health and Environment Strategic Plan

## Thematic areas

### 1. Climate change and health



Climate risks



Extreme temperatures



Air quality



Water quality



Vectors

### 2. Pollution



Chemical products



Waste



Industrial pollution

### 3. Radiation



Natural radioactivity



Electromagnetic fields



Ultraviolet radiation

### 4. Habitat and health



Noise and vibration



Indoor environments



Healthy cities



# The Health and Environment Strategic Plan

## 1. Climate change and health



Climate risks



Extreme temperatures



Air quality



Water quality



Vectors

The mission of the Health and Environment Strategic Plan, in the thematic area of **Climate Risks**, is to protect people's health from the adverse effects of climate change.

### Lines of intervention

#### Prevention and health protection

Reduce morbidity and mortality due to climate change-related events.

#### Management, organization and coordination

Establish mechanisms to promote the work and coordination of the actions planned among all the actors involved.

#### Training and risk communication

Improve knowledge on the incidence of climate change.

#### Research

Improve knowledge about the impact of climate change on human and animal health and biodiversity.

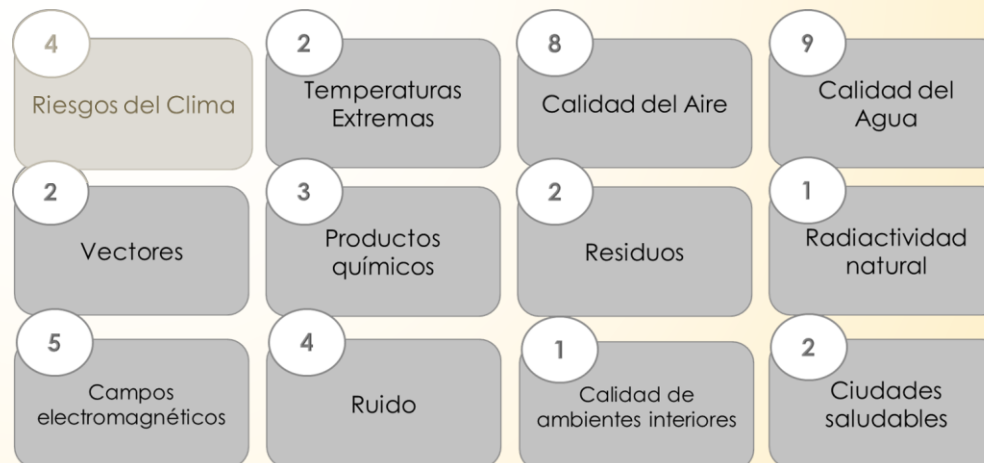


# First Action Program 2022-2023



To comply with the actions proposed in the Health and Environment Strategic Plan 2022-2026

## 43 actions in the thematic areas





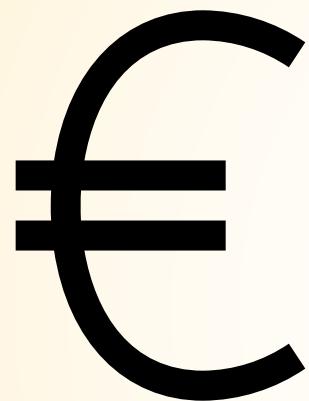
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# Best Practice #2

Regional level - PITeco



# Integral plan for ecological transition



Investment

**52,2**  
Million €



Duration

**8-10**  
Years

**Transition to self-sufficiency  
and renewable energy**

**L1**

**Rehabilitation, renovation and  
energy resilience of  
infrastructure**

**L2**

**Digital transition: energy, water  
and waste control and  
monitoring technologies**

**L3**

**Lines of**



**L4**

**Promoting low-carbon  
mobility**

**L5**

**Circularity: reduction of  
inputs and surpluses**

**L6**

**Support resources and  
innovative tools for  
sustainability**

# Magnitudes of project impact



**CO<sup>2</sup>**

**Emission reduction**

**38%**  
**= 11.939 tons CO<sub>2</sub>/year**



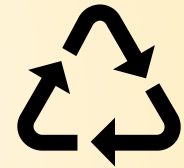
**Energy reduction**

**Between 25-33% /year**



**Reduction of water resources**

**39.944 m<sup>3</sup>/year**



**Reduction of plastic use**

**87.600 Kg**

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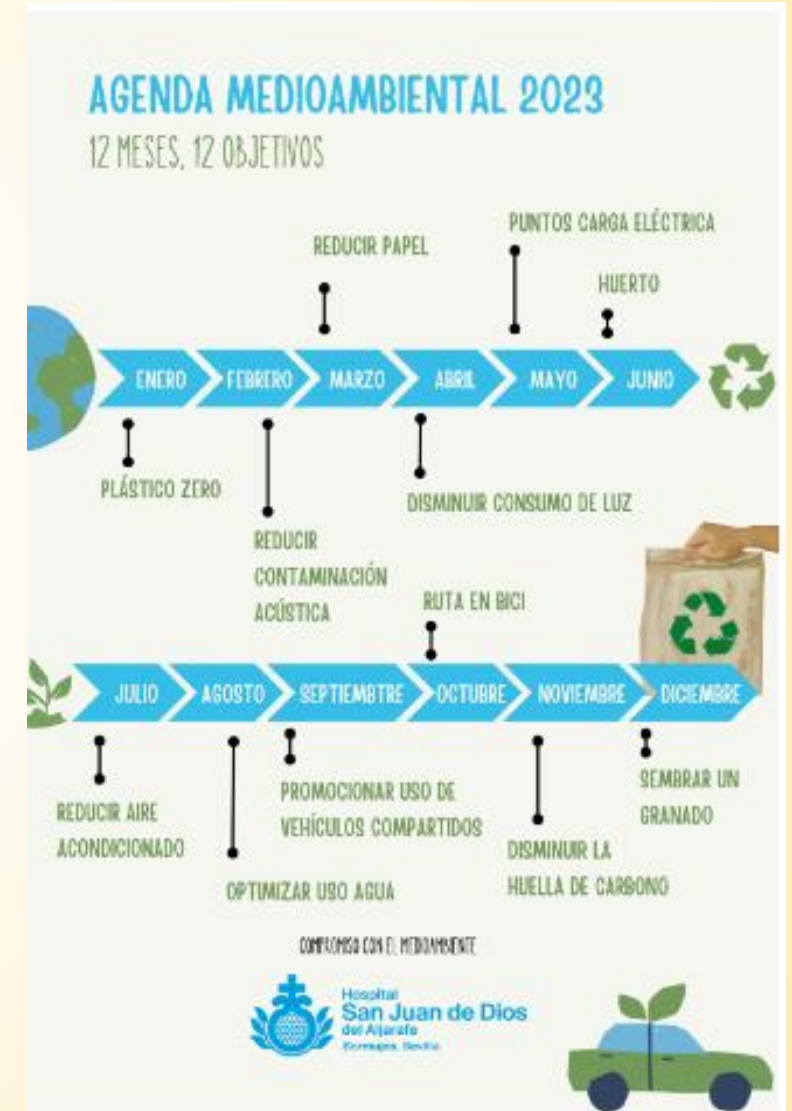
## Best Practice #3

Local level – reduce energy use and CO2 emission

# Reduce energy use and CO2 emission

We have seen many examples on how to reduce energy use and CO2 emission:

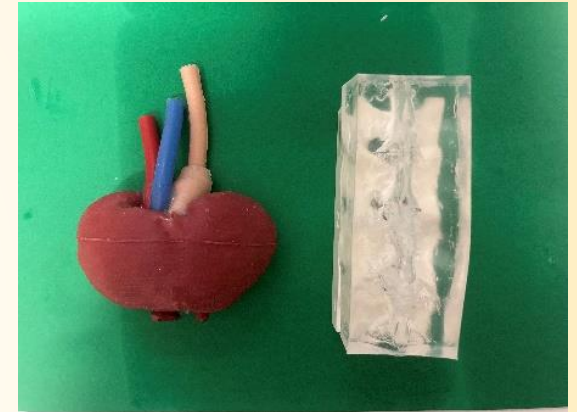
- Use of solar panels
- Raising awareness – to switch of lights or use less plastic bottles
- Switching off heating, air conditioning and lighting in unused rooms and buildings.
- Stimulate use of electric cars by installing electric charging points
- Reduce waste by using sustainable products
- And so on..



Source: Hospital San-Juan de Dios

# Reduce waste by reusing

- ▶ Reusable model organs to practice in the simulation area of Son Espases University Hospital (using gelatin instead of silicone)
- ▶ Usage of Polylactic Acid (PLA) from plant starches for 3D print in the simulation area of Son Espases University Hospital





# Raising awareness is important to change behaviour





KINEMASTER

# Thank you for your attention!



Many thanks to all the Spanish coordinators for having us!



03. June 2023