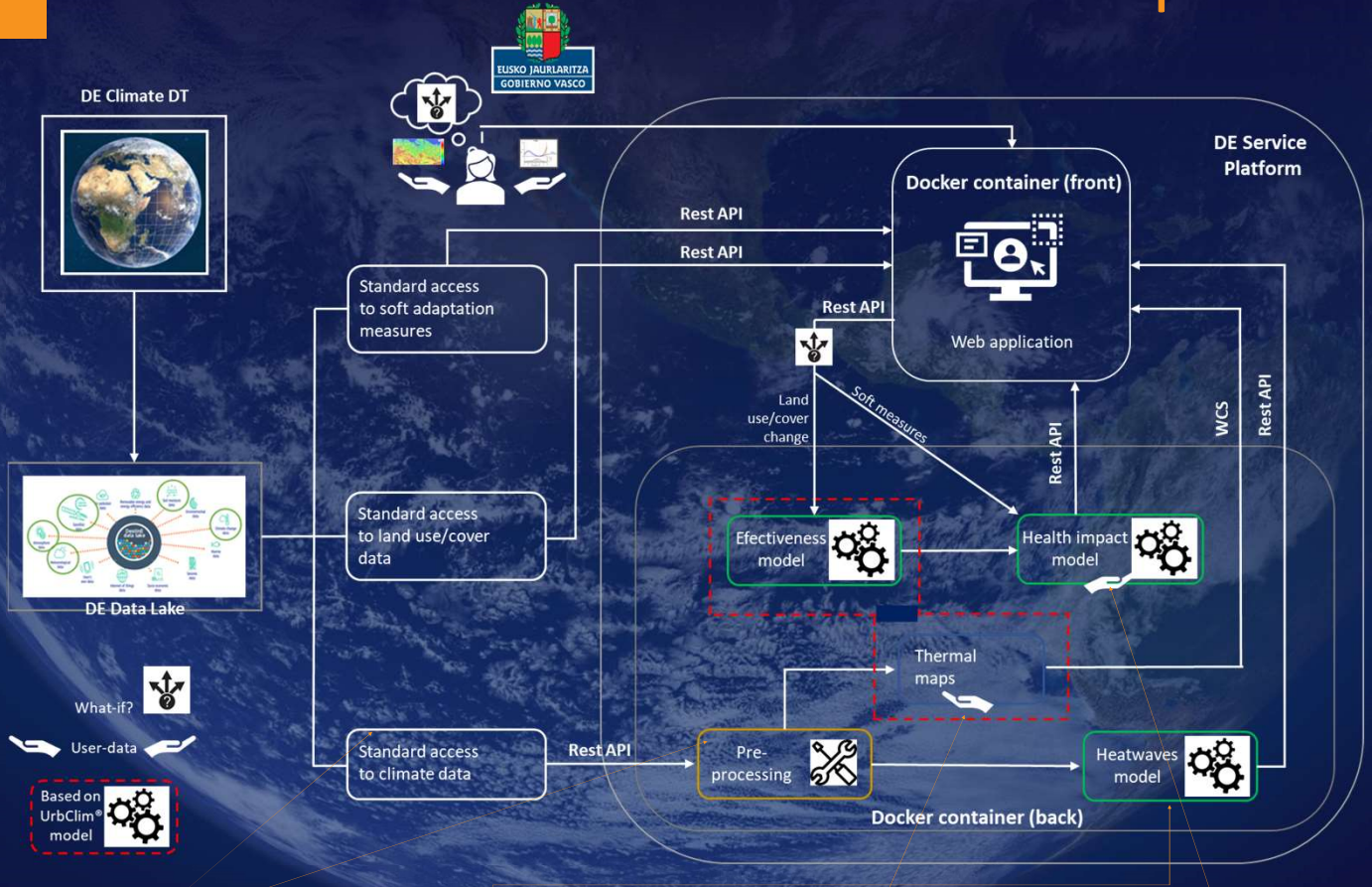


Digital Twin for Heat Stress Adaptation

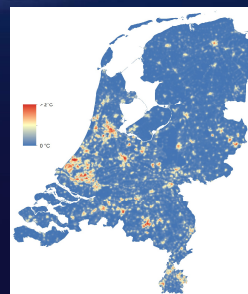


input data and the pre-processing that feed the hazard modelling component



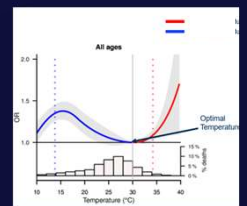
Heat-related hazard at regional scale

past, present and future evolution of different climate variables and indicators (such as temperature, wind, relative humidity, etc.).



Mesoscale Thermal Maps + Effectiveness Model - Urbclim model

to be able to simulate and visualize heat stress and thermal comfort related indicators at a high resolution



Health Impact of heat stress

To estimate benefits from public health perspective considering different possible adaptation pathways

WHY DT ?

To develop an **operational environment** to predict the impact of climate change with unprecedented reliability at **regional levels**

DESP

The tools will be interconnected as never before since they will be deployed in the same environment (DESP-API).

DEDL

The objective is to have all relevant data in a unique and centralized place (Data Lake).

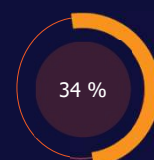
HEAT ADAPTATION STRATEGIES

To provide **trustworthy and reliable** guidance and tools focused on **public health management** to support the design of early warning systems, heat adaptation measures or any other **adaptation strategies** to mitigate heat-related impacts.

Morbidity impacts



Mortality impacts



Other impacts/co-benefits

