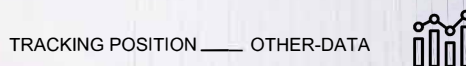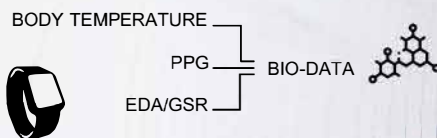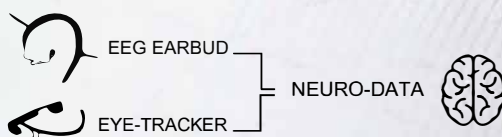# DATA-DRIVEN LANDSCAPE

TO ENHANCE PERSONAL-ENVIRONMENTAL RESILIENCE

HISTORICAL LANDSCAPES ARE NOT ORIGINALL Y DESIGN ED FOR CONTEMPORARY SOCIETY'S NEEDS AND INTERESTS SO NEW USERS (MAINLY TOURISTS) DON'T HAVE ENOUGH DIVERSITY AND IT MAKES AN ECHO CHAMBER FOR THEM WHICH DECREASES SOCIAL RESILIENCE THAT HAS LONG-TERM DAMAGES IN DIFFERENT ASPECTS OF A LANDSCAPE.

NEW TECHNOLOGIES HELP US COLLECT DATA FROM THE ENVIRONMENT AND USERS WHICH CAN HELP US BRING JOYFUL EXPERIENCE FOR ALL VISITORS WITH DIFFERENT PHYSICAL MENTAL TYPES IT INCREASES THE DIVERSITY OF VISITORS AND FINALLY INCREASES RESILIENCE.

EEG EARBUD
EYE-TRACKER — NEURO-DATA

BODY TEMPERATURE
PPG
EDA/GSR — BIO-DATA

TRACKING POSITION — OTHER-DATA

USER DATA INCLUDES VARIOUS TYPES OF DATA TO MEASURE THE PHYSICAL AND MENTAL STATE OF THE USERS SO THAT WE CAN PROVIDE THEM WITH A SELF-ORIENTED EXPERIENCE.
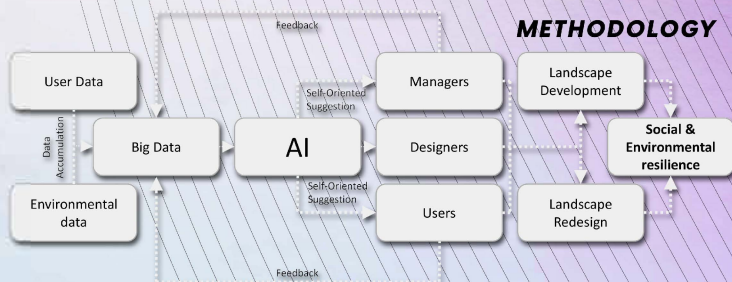
USER DATA

ENVIRONMENTAL DATA

FOR LANDSCAPE DATA, WE USE SEVERAL SENSORS TO MEASURE ENVIRONMENTAL FACTORS SUCH AS TEMPERATURE, AIR POLLUTION, NOISE, PEST, AND BLOSSOMS...

ENVIRONMENTAL DATA

USER DATA

DIGITAL TWIN

REAL WORLD

ENVIRONMENTAL SENSORS

METHODOLOGY

Feedback

User Data

Data Accumulation

Big Data — AI

Environmental data

Self-Oriented Suggestion

Managers

Designers

Users

Self-Oriented Suggestion

Landscape Development

Landscape Redesign

Social & Environmental resilience

Feedback

Visual Path — User Oriented Paths

Social Path — User Oriented Paths

Health Path — User Oriented Paths

NORMAL PEOPLE

INVOLVED SOCIETY

URBAN DESIGNERS

LANDSCAPE ARCHITECTS

ENVIRONMENTAL MANAGERS

GARDENERS

URBAN PLANNERS