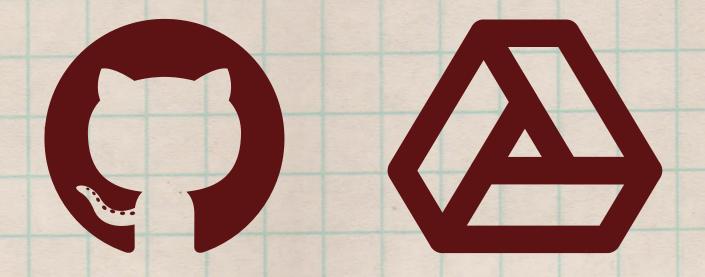


PREMISE

All the material developed for this project has been uploaded either on a **Github Repository** or on a dedicated **Google Drive** folder.

Both can be accessed through the links:





Our project regards the implementation of a single-user Virtual Reality on-site application about climate change within Palazzo Poggi Museum (the "Chamber of Geography and Nautics")

THE IDEA

A selection of places to visit

Possibility to see changes both from above (satellite pictures) and from a point of view



CLIMATE CHANGE AWARENESS

From globe to map in 2 emispheres to single continent

Travelling the on "Chamber of Geography and Nautics"'s ancient maps and witnessing first-hand the modifications of environment due to climate change



Nasa: Images of Change



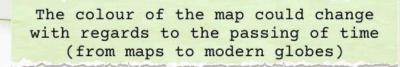


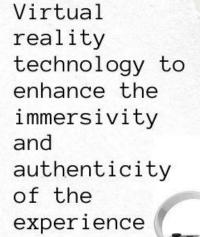






Possibility to choose a favourite ship from the ones displayed and travel with a 3d reconstruction of it on the map







CONTEXT AND SCOPE

- Palazzo Poggi's "Magna Charta Universitatum"
 Room (idea of crossing countries' borders!)
- "Chamber of Geography and Nautics" Collection

- Enhance the "Chamber of Geography and Nautics" Collection
- Improve the learning experience
- Trigger a behavioural change



HOW?

Immersive, authentic and engaging experience, stimulating various emotions in the visitor (affection, excitement, worry and a sense of initiative) and set in an appropriate location for the direct contact with the assets

TARGET AUDIENCE AND CONCEPT

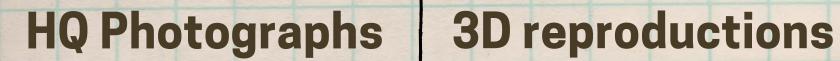
Tourists (both Italian and foreign), representing "the common people"

Raising awareness among common people is fundamental to address the issue of climate change

Having the right mindset (change empathy)

Knowing what to do (final brochure)

A VR experience enhancing education with little interaction (guided by an accompanying voice) and based on a selection of objects from the "Chamber of Geography and Nautics"



Interactive digital environment

These technologies allow for a different connection with the Cultural Heritage objects

THE CONCEPT

NEED	EDUCATION
EXAMPLE	Guided browsing within a potential learning environment
TECHNOLOGY	Virtual Reality experience based on HQ images, 360 interactive panoramas and 3D reproductions
CONTENT	Digital images, texts, audio (soundtrack and guiding artificial voice), 3D models. The digital objects are reproductions of the maps, the naval models and the globe displayed in the physical exhibition
VIRTUAL/REAL	Virtual on real
VISITORS EXPERIENCE	Surprising and provocative for both the casual and the greedy visitor

WanderLOST described through Caraceni's taxonomy (2014).

THE COGNITIVE FOCUS: MEANINGFULNESS, EMOTIONS, EMPATHY

Crossing technology spatial and (VR) temporal boundaries

Familiar places

Enchantment

Embodied cognition

Emotions

Attachment

Sense of Care

Empathic Concern

Personal Transformation

Dramatic and intimate narrative

Choice as personal component

PACTFRAMEWORK **ACTIVITIES** TECHNOLOGIES PEOPLE CONTEXT Single-user Spatious and **VR** technologies **Tourists** quiet museum's (representing Simple "common people") Prototype: 360 room interactions panoramas Accessible Development of Known and Immersive virtual two personas peaceful reproductions of Presence of environment existing places assistance Research Experience will be inoperable by **Occasional** Restrictive people with visual 3D reproductions needed! activity (max. 3 opening empairment of the museum's hours reps) objects **Brochure** as follow-up

THE EXPERIENCE



Moving towards Coronelli's globe
Instructions from the voice
"Throwing" the ship on it

Choose the type of adventure

Virtual reconstruction of "Chamber of Geography and Nautics"

Presence of a guiding voice

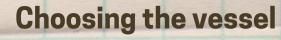
Virtual reconstruction of the selected location in the past € Intervention of the voice



Virtual reconstruction of the selected location in the present Intervention of the voice



Virtual reconstruction of the selected location in the future Intervention of the voice: provocative questions





Continent map unscrolls (placeholders pinned on it)

Choose the location



Two-emipsheres map unscrolls

Choose the continent



Globe starts spinning and randomly selects a continent and a location

Brochure on the

Repeat the experience?
[Y/N]

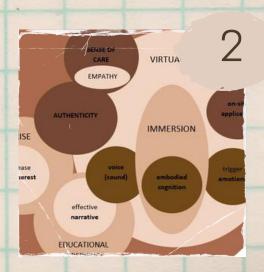


experience with follow-up actions to implement in day to day life

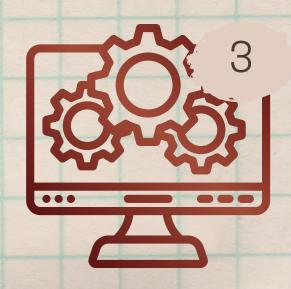
FORESEEN WORKFLOW



HISTORICAL AND SCIENTIFIC RESEARCH



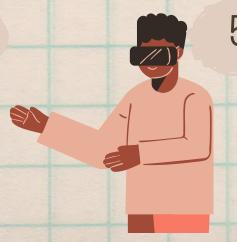
UX/UI DESIGN



NON-INTERACTIVE AND INTERACTIVE COMPUTER GRAPHICS



WEBPAGE DEVELOPMENT



SOFTWARE



DEPLOYMENT AND PUBLICATION

Periodical maintenance following the progressive development of Climate Change

EVERY 5
YEARS OR SO!

SUPPORTING MATERIALS



360 PANORAMAS

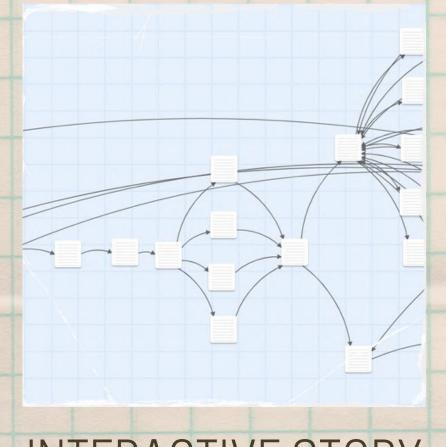
PTGui

CLICK HERE



360 INTERACTIVE PANORAMA

PANO2VR



INTERACTIVE STORY

Twine

CLICK HERE

THE SUPPORTING MATERIAL CAN BE FOUND EITHER IN THE GITHUB REPOSITORY OR IN THE DEDICATED GOOGLE DRIVE FOLDER

