

INTERNATIONAL WORKSHOP



University of Molise
Termoli

CLIMATE IMPACTS
AND HERITAGE
VULNERABILITIES

13–22 SEPTEMBER 2022

www.ecreha.org



SOFIA UNIVERSITY
"ST. KLIMENT OHRIDSKI"



Tuesday 13.09

Welcome

Prof. Luca Brunese, Rector of University of Molise,
Prof. Stefania Scippa, Director of the Department of
Biosciences and Territory

Workshop Introduction

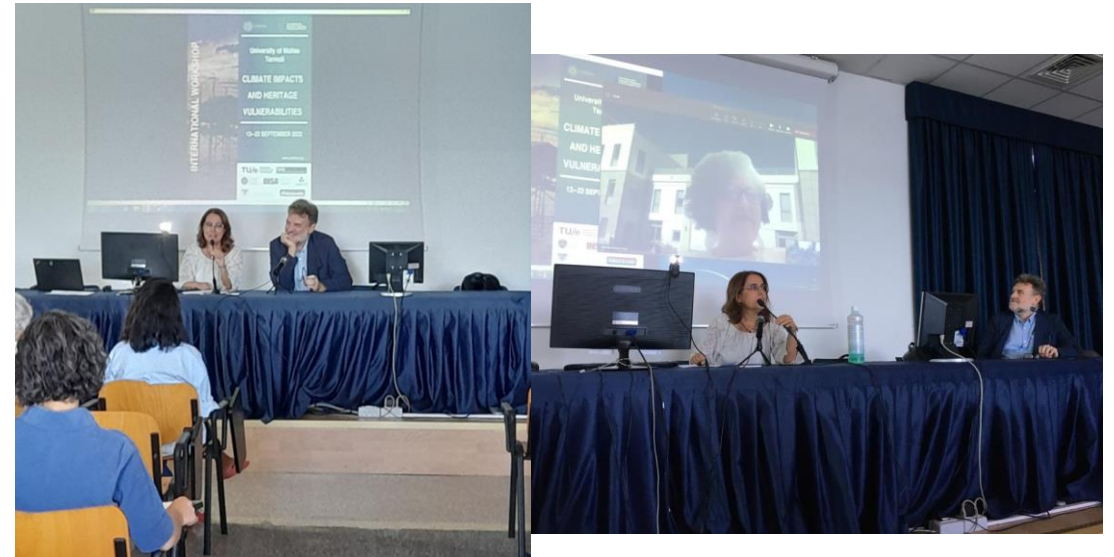
Prof. Luciano De Bonis, Coordinator of the
Undergraduate and Graduate Programs in Tourism
Sciences and Heritage, Department of Biosciences and
Territory

Prof. Rossella Nocera, Coordinator of the Graduate
Programs in Civil Engineering Department of
Biosciences and Territory.

Videos: Learning about Vulnerability and Impact

Open discussion on Impact and Vulnerability modules

Lecture



Wednesday 14.09

Study area visit and return to Unimol

STEP 1: LAKE OF GUARDIALFIERA

STUDY AREA

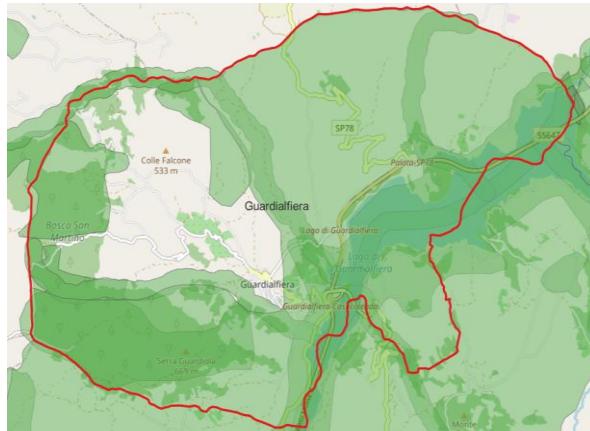


Wednesday 14.09

Study area visit and return to Unimol

STEP 1: LAKE OF GUARDIALFIERA

LANDSCAPE HERITAGE



■ Landscape heritage

ARCHITECTURAL HERITAGE



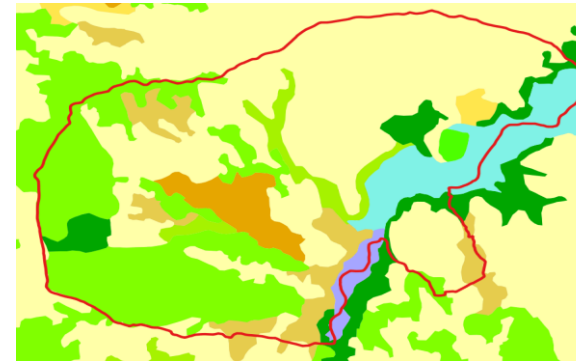
● Architectural Heritage
■ Old town

HAZARD



■ Landslides risk
■ Flood hazard
■ Fire hazard

LAND USE



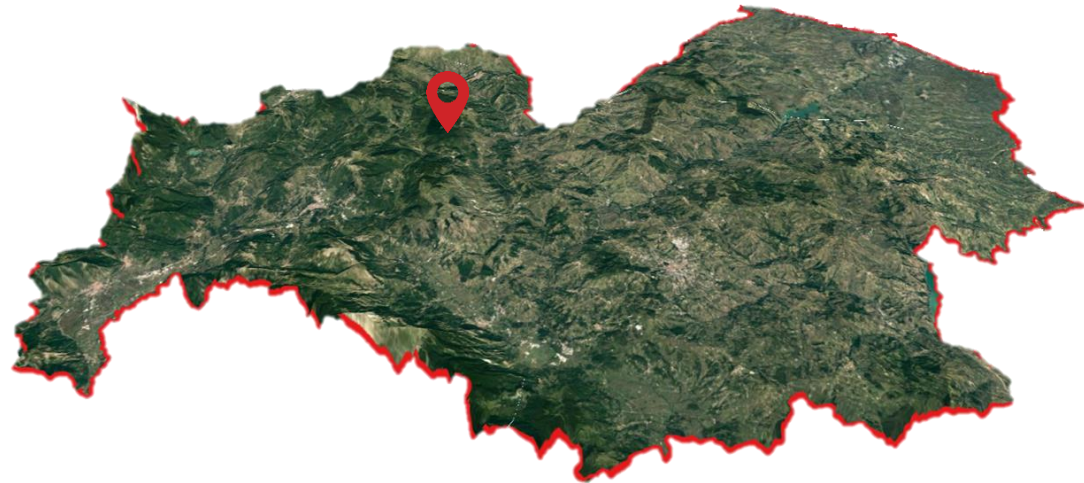
■ Woods with a prevalence of Mediterranean pines and cypresses
■ Woods with a prevalence of deciduous oaks
■ Olive groves
■ Areas mainly occupied by agricultural crops
■ Intensive crops
■ Water basins

Wednesday 14.09

Study area visit and return to Unimol

STEP 2: PIETRABBONDANTE

STUDY AREA

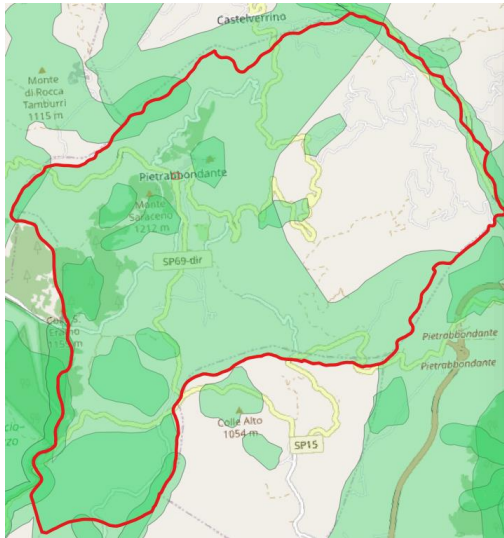


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STEP 2: PIETRABBONDANTE

LANDSCAPE HERITAGE



■ Landscape heritage

ARCHITECTURAL HERITAGE



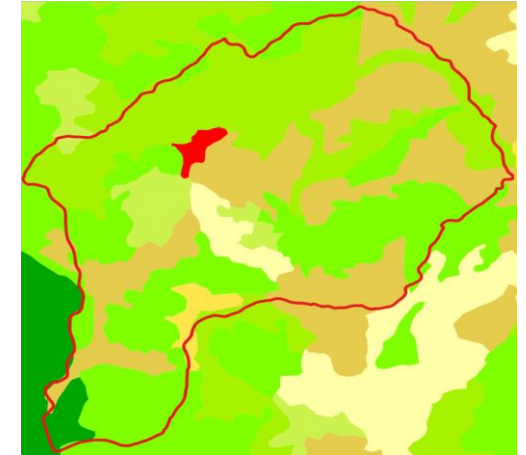
● Architectural Heritage
■ Old town

HAZARD



■ Landslide hazard: HIGH
■ Fire hazard: 3
● Architectural Heritage
● Archaeological Heritage

LAND USE



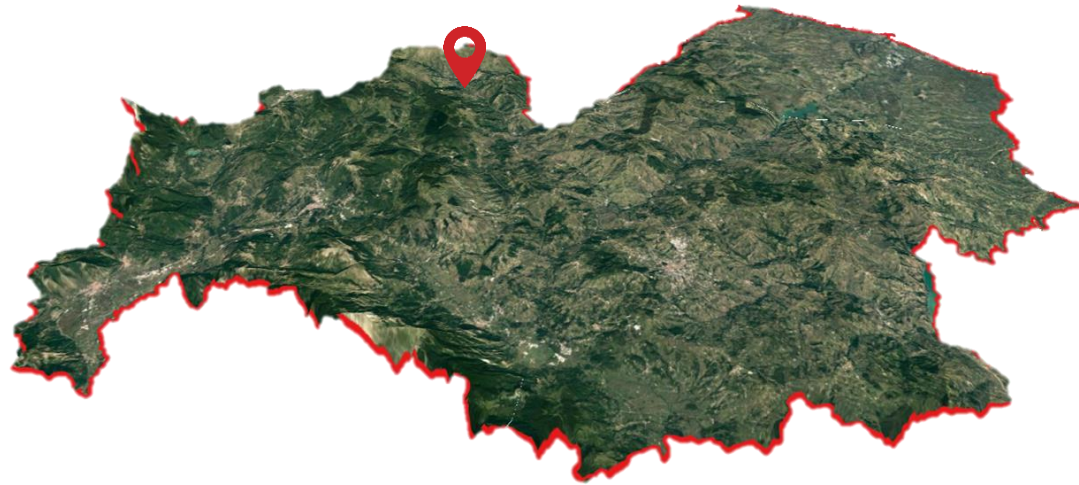
■ 211 - Non-irrigated arable land
■ 242 - Complex cultivation patterns
■ 112 - Discontinuous urban fabric
■ 243 - Land principally occupied by agriculture
■ 311 - Broad-leaved forest
■ 324 - Transitional woodland-shrub
■ 321 - Natural grasslands

Wednesday 14.09

Study area visit and return to Unimol

STEP 3: AGNONE

STUDY AREA

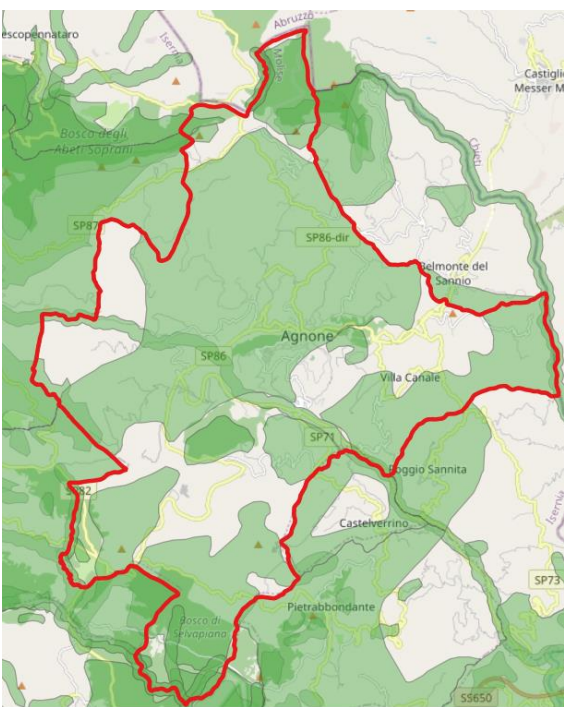


Wednesday 14.09

Study area visit and return to Unimol

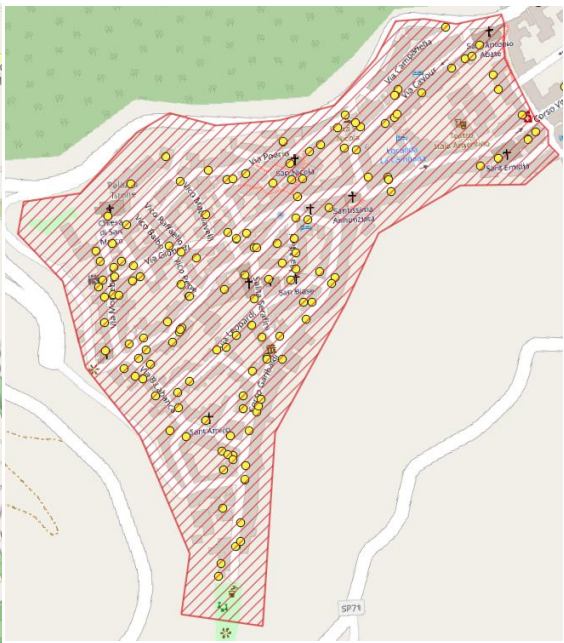
STEP 3: AGNONE

LANDSCAPE HERITAGE



Landscape heritage

ARCHITECTURAL HERITAGE



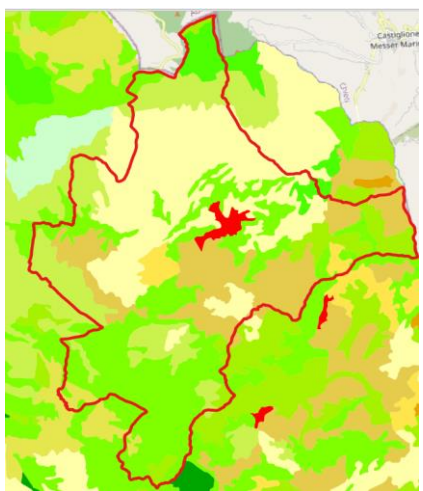
Architectural Heritage
 Old town

HAZARD



Landslides risk
 Fire hazard

LAND USE



Arable land in non-irrigated areas
 Deciduous forests
 Intensive crops
 Woods with a prevalence of deciduous oaks
 Areas with sclerophyll vegetation
 Areas mainly occupied by agricultural crops
 Residential areas with continuous fabric
 Urban areas

Wednesday 14.09

Study area visit and return to Unimol

STEP 4: PETACCIATO

STUDY AREA

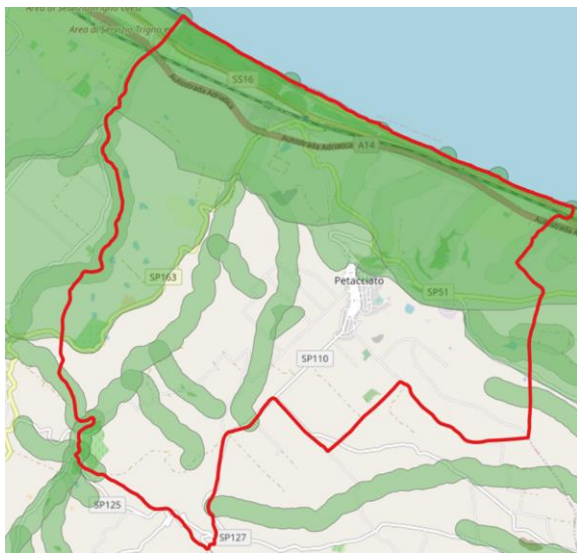


Wednesday 14.09

Study area visit and return to Unimol

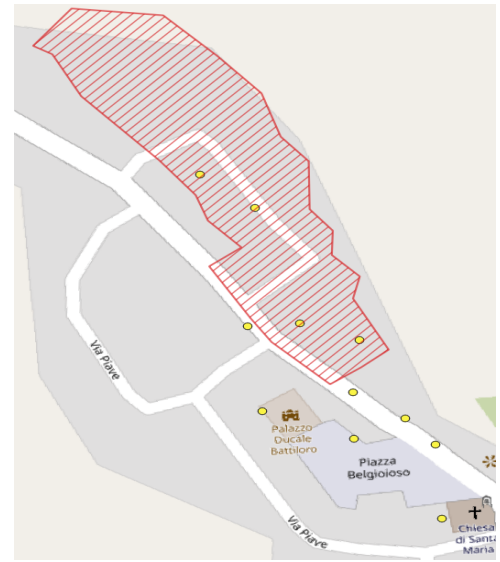
STEP 4: PETACCIATO

LANDSCAPE HERITAGE



■ Landscape heritage

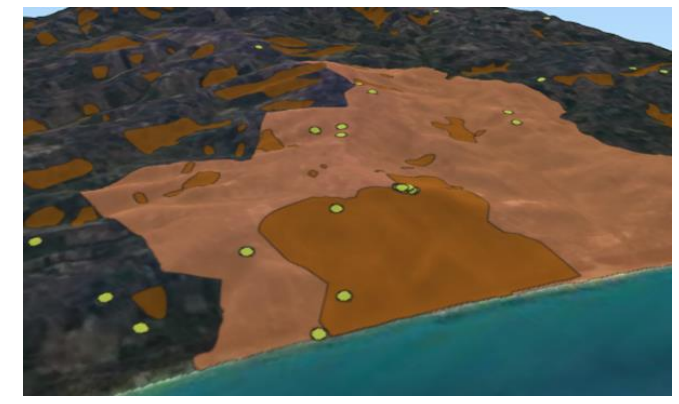
ARCHITECTURAL HERITAGE



● Architectural Heritage

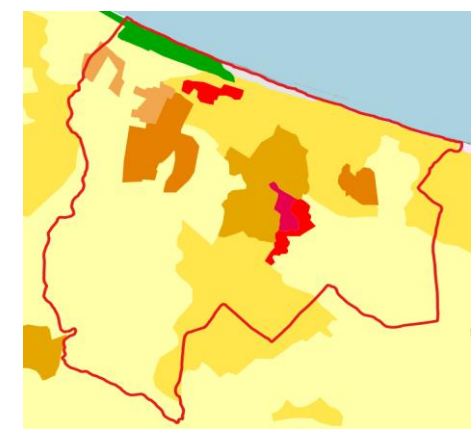
■ Old town

HAZARD



- Landslide hazard: HIGH
- Fire hazard: 2
- Archaeological Heritage

LAND USE



- 111 - Continuous urban fabric
- 112 - Discontinuous urban fabric
- 211 - Non-irrigated arable land
- 221 - Vineyards
- 222 - Fruit trees and berry plantations
- 223 - Olive groves
- 242 - Complex cultivation patterns
- 312 - Coniferous forest
- 331 - Beaches - dunes - sands

Thursday 15.09

Studio work

Lecture

Cultural Heritage exposed to natural hazards, technical approaches to conservation and protection

Prof. Giovanni Fabbrocino, University of Molise

Studio work



Friday 16.09

Lecture

Socio-cultural vulnerability, community engagement and conservation of UNESCO cultural landscapes. Insights from case studies Prof. Fabrizio Aimar, Polis University of Tirana

Studio work

Videogame test

Walk to the historical fisherman village of Termoli



Friday 16.09

Lecture

Socio-cultural vulnerability, community engagement and conservation of UNESCO cultural landscapes. Insights from case studies Prof. Fabrizio Aimar, Polis University of Tirana

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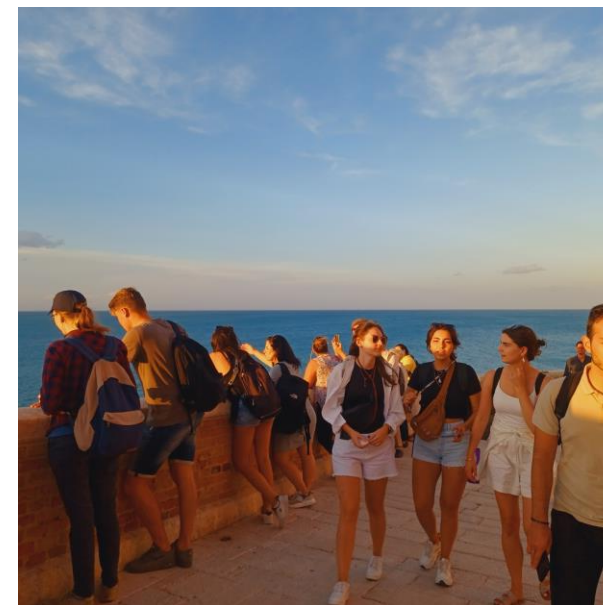
Lecture

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Studio work

Videogame test

Walk to the historical fisherman village of Termoli



Monday 19.09

Studio work

Lecture

Climate Impacts: from the large scale to the building level
Prof. Francesco Tariello, University of Molise

Lecture

Resilience to climate change: Advanced Resilient Design and digital platforms addressing heritage vulnerabilities
Prof. Alessia Leuzzo, University of Reggio Calabria

Studio work



Tuesday 20.09

Lecture

Land use change, its DPSIR and Climate change impacts in Longluang Watershed, Thailand

Prof. Karika Kunta, Graduate School of Environment and Administration, National Institute of Development Administration (NIDA), Bangkok

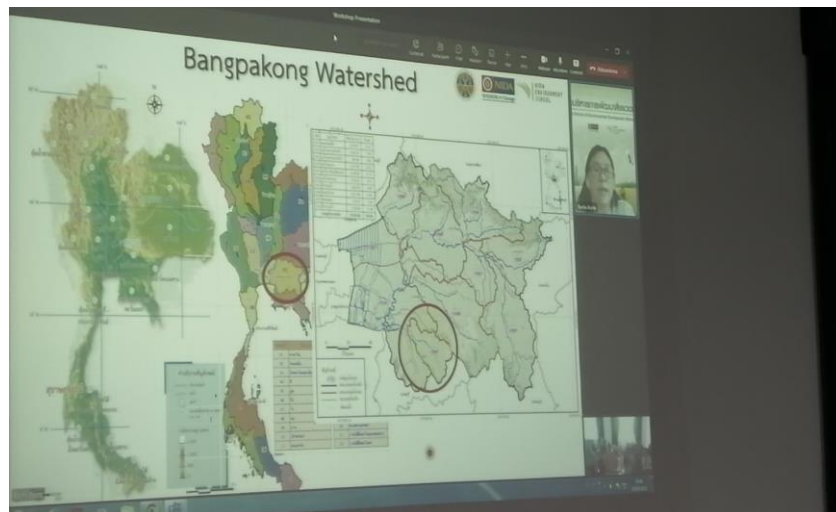
Short presentations by groups

Lecture

Transhumance landscape heritage: old and new challenges

Prof. Monica Meini, University of Molise

Studio work



Tuesday 20.09

Lecture

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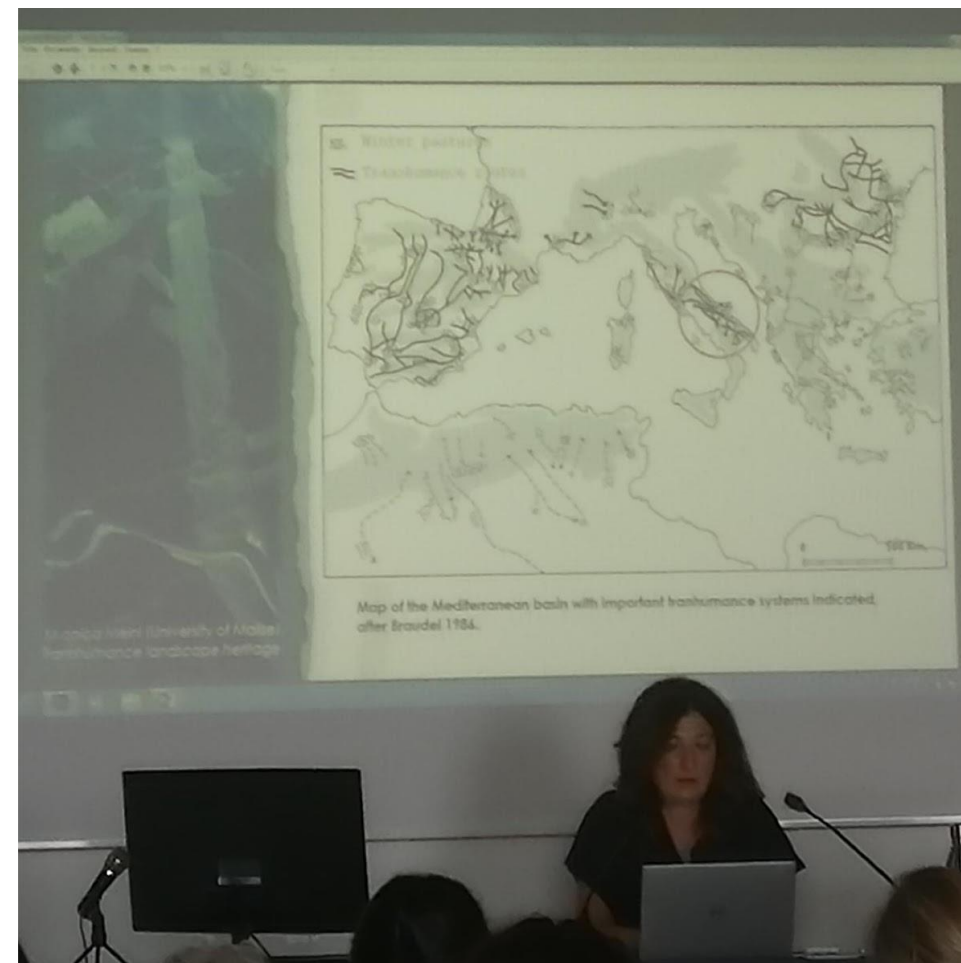
Short presentations by groups

Lecture

Transhumance landscape heritage: old and new challenges

Prof. Monica Meini, University of Molise

Studio work



Wednesday 27.09

Studio work



Thursday 22.09

Final presentations

Final Remarks and Farewell



Group 1:

THE RISK AWARENESS ROUTE

Students:

- Antonio Simeonov Georgiev
- Deborah Ricci
- Elif Sultan Kaya
- Emiliana Vergalito
- Marco Carrelli
- Marta Ziccardi
- Mikołaj Kałużny
- Rick Hutten

Tutors:

- Irene Curulli
- Paloma Guzman
- Burçin Yilmaz

THE RISK AWARENESS ROUTE

How can we bring awareness of Guardiafiera's climate change impact?

We propose a route that raises awareness and thereby the understanding of climate change which will facilitate both behavioural change and societal support for the actions needed to reduce greenhouse gas emissions

Fire Hazard | **Landslide** | **Flood Hazard**

Climate change
lack of knowledge
climate awareness
socioetal change

contrasts
old / new
past / future
vulnerable / resilient
dead / alive
the
food
landslide
awareness
slow
fast

LEGEND
Start
End
Waypoint
Boundary
Road
Water
Other safety zone

Smell the change
How do we end up?
Contrasts
Awareness

Old vs. new
Are you enjoying the destruction?
Peek into the "cemetery"
Climate Change!
Bridging

Monument of change
Slow
Is it fun or is it danger?

LENGTH PATH: 2,565 Km
START POINT: Guardiafiera Town
END POINT: Guardiafiera Cemetery
PATH CONDITIONS: The track is in good condition. Except for the first part. Beware slippery path. We recommend the use of a backpack and for you particular attention to the possible change of direction. The site path is shared by a pedestrian.
ESTIMATED TIME: Wrong one, no experience: 2/10 min
Starting experience: 30 min
Full experience! 120 min

CREHA | Antonio Simeonov Georgiev (LU) | Deborah Ricci (UNIMIL) | Elif Sultan Kaya (TU/e) | Emiliana Vergalito (UNIMIL) | Marco Carrelli (UNIMIL) | Marta Ziccardi (UNIMIL) | Mikołaj Kałużny (TU/e) | Rick Hutten (TU/e) | Irene Curulli (TU/e) | Paloma Guzman (TU/e) | Burçin Yilmaz (TU/e)



Group 2:

CLIMATE IMPACTS AND HERITAGE VULNERABILITIES OF PIETRABBONDANTE

Students:

Utku Doğanay
Stephanie Kirsten
Gennaro Vesce
Fabiola Zappitelli
Georgia-Christina Dreliosi
Teodor Pavlov Kostov

Tutors:

Aslı Özbek
Pelin Gürol Öngören
Sibel Acar





Group 3:

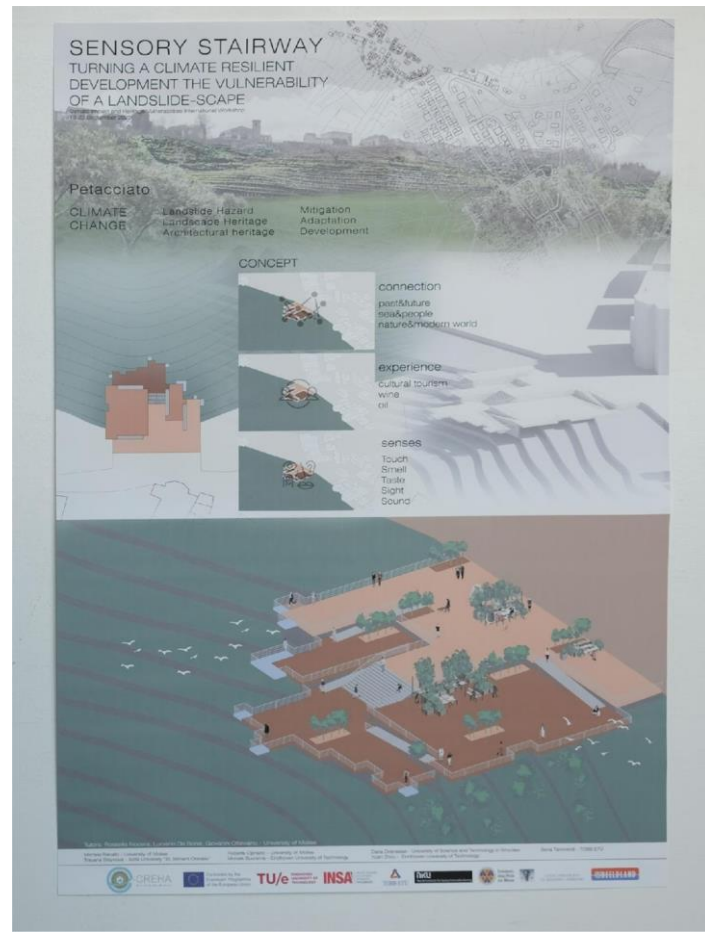
SENSORY STAIRWAY TURNING IN A CLIMATE RESILIENT DEVELOPMENT THE VULNERABILITY OF A LANDSLIDE-SCAPE

Students:

- Roberta Cipriano
- Michele Ranallo
- Sena Tanriverdi
- Daria Dobrasiak
- Trayana Stoyanova
- Moniek Buursma
- Yuan Zhou

Tutors:

- Rossella Nocera
- Luciano De Bonis
- Giovanni Ottaviano





Group 4:

FUTURE RESILIENCE THROUGH NATURE BASED SOLUTIONS (NBS)

Students:

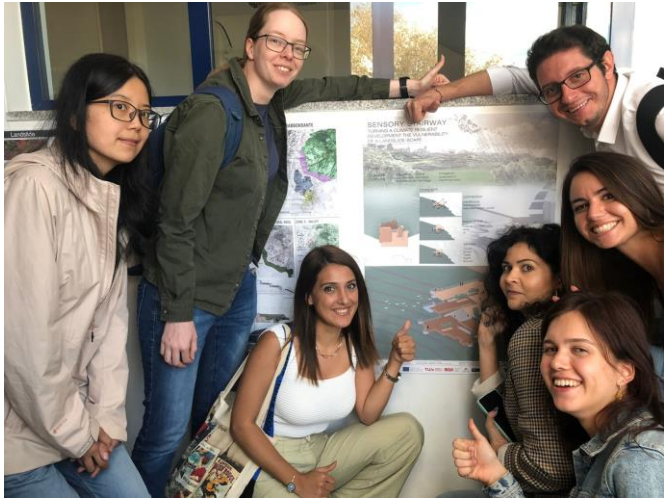
- Sandropio Scoccola
- Emilia Ceccacci
- Maria Iolanda Spada
- Wiktorija Kajda
- Sara Korzyńska
- Haifa Mahmoud
- Ava Mustafa
- Büsra Öncül
- Sabiha Okur

Tutors:

- Boyan Paskalev Bontchev
- Valentina Todorova Terzieva-Bogoycheva
- Elżbieta Grodzka
- Sara Berahman
- Alessia Luezzo
- Michał Pelczarski







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Marta Ziccardi
Michele Ranallo
Roberta Cipriano
Sandropio Scoccola

TOBB ETU

Büşra Öncül
Elif Sultan Kaya
Sabiha Okur
Sena Tanrıverdi
Utku Doğanay

SU

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Burçin Yılmaz (TU/e)
Dessislava Dakova Vassileva (SU)
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Florence Rudolf (INSA Strasbourg)
Giovanni Ottaviano (UNIMOL)
Irene Curulli (TU/e)
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Michał Pelczarski (WROCLAW)
Paloma Guzman (NIKU)
Pelin Gürol Öngören (TOBB ETU)
Rossella Nocera (UNIMOL)
Sara Berahman (TU/e)
Sibel Acar (TOBB ETU)
Valentina Todorova Terzieva-
Bogoycheva (SU)

Organizers:

Danilo Menaldi (UNIMOL) Mariastella Lamanna (UNIMOL)

