



July 2022—Fifth Newsletter

# NEWS FROM THE RAIL

The RailToLand project's Newsletter



Updates and news in this issue:  
*Report of the 5th period*  
*Past and upcoming events*

## SHORT REPORT ON THE FIFTH SEMESTER ACTIVITIES

The fifth period of the RailToLand project was full of activities and results: thanks to the commitment of the whole partnership the main intellectual outputs get significant step forward, recovering difficulties caused by the Covid-19 emergency.

The partnership is finally disseminating and tutoring the **3 MOOCs** and the consequent pathway. The **MOOCs are available on the MiriadaX platform** and reached the amount of 540 minutes divided into 75 lessons and subtitled in 5 languages. Each of these Moocs has a specific book that includes both the texts of the classes and the questions to be answered by the students, also in 5 languages.

The **didactic guide IO5** was completed by UPM and UAM and the work was successfully concluded thanks to the field trips and then all Landscape Units were identified as well as the graphics elements, including authorial pictures.

The Italian partner UNIVPM was strongly committed in the preparation of the **Learning Training activity as well as of the Multiplier event, both held in June**: they are extensively narrated in the current newsletter.

*Cover page:*

*A "Cento porte" wagon used along the line Ancona-Fabriano- Pergola (credits Andrea Tessadori)*

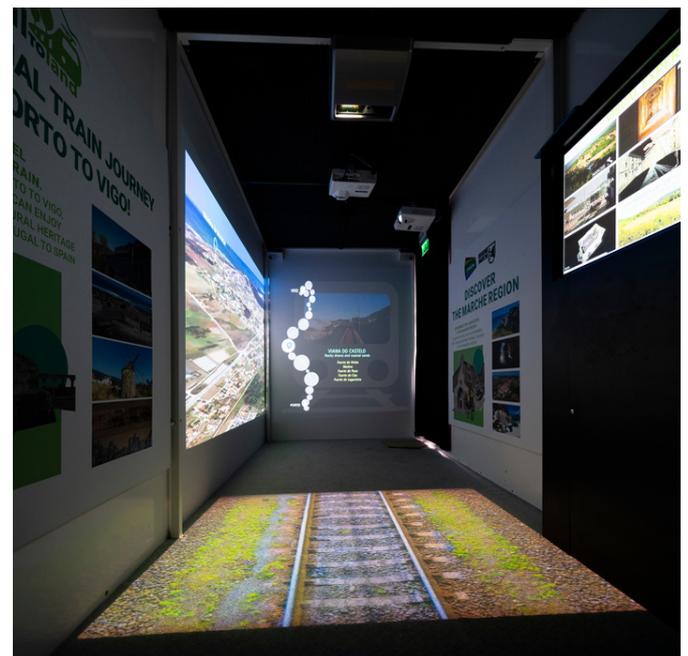
## IO2- VIRTUAL LAB

### *innovative practices for Heritage*

The second intellectual Output (IO2) was finally designed and realized, **supporting the Learning Training activity**. The main goal of the Virtual Lab was to materialize in Italy an immersive trip experience on the railways Porto-Vigo. The partnership agreed that the best solution for this purpose was to merge the ideas of Virtual Reality (VR) locomotive experience and of video projection train experience.

In order to carry out the virtual experience of the train in the same day of the train trip in the Marche region, **Univpm proposed and designed a multimedia gate inside a container**, installed the Pergola railways station. The “phygital” solution exploits the main devices in the multimedia gate for the Virtual Experience Porto-Vigo. **The Virtual Train Experience was intended to reproduce in brief the main highlights of the real experience of the Porto-Vigo trip**. It took advantage of all the contents developed during the project, such as the IO4 3D infographics, the didactic guide (IO5) and the video recorded specifically for the IO2, materialising an effective virtual experience. In particular, the design foresees to exploit both the frontal view and the lateral view acquired by the train.

In particular, the frontal view and the lateral view acquired by the train were used. Considering that the frontal view is the unusual one, it was given relevance to it for the main view inside the gate. Moreover, on the left, the lateral view was mixed with other high-quality 3D videos.



Here:  
two pictures of the Virtual Lab (credits UNIVPM)

# LEARNING TRAINING ACTIVITY IN MARCHE REGION

The learning activities of the RailToLand project was for several months postponed due to the Covid crisis, and finally was held in Cagli town between 14 and 18 June 2022.

The workshop was carried out in the Sub-Apennine area dealing with two complementary and fundamental topics **“Digital Heritage & Design Thinking”**, experiencing virtual contents and innovative practices for the knowledge, narrative and design of heritage and landscape. The workshop was based on an interdisciplinary approach: experts in digital cultural heritage, survey and representation techniques, geomatics, and urban and landscape design brought together their expertise and performed a ground-breaking study activity.

The learning activities regarded the **Sub-Apennine area around Cagli in the Marche Region** through on field activities, and the Porto-Vigo railway line through the experience of a virtual trip. The multimedia gate and all digital tools during the five days contribute to a new way to enjoy, analyse, study and envision the enhancement of heritage sites and of landscapes through design.

All attendees had the chance to work in a relevant and stimulating area, along the ancient Via Flaminia.

**They learned in a peer-activity about a multifaceted heritage**, both natural and historical, in which there are both disused and recently reactivated railways.



During the RailToLand learning activity students and teachers enjoyed a fantastic landscape: the Sub-Apennine Italian Fabriano-Pergola railway. The line, recently reopened after 8 years of closure, is now recommended for 2022 by Cnn Travel, the travel magazine of the largest US television station, among the most beautiful train itineraries. The review by CNN, which included the line in the 'to do list' when visiting the Bel Paese: «Italy has a large collection of 'historic trains' and this one, launched in September 2021, is one of the most spectacular. Starting from the coast of Ancona and climbing up to the Apennine mountains, you can see the breadth of the Marche region. On a nineteenth-century single-track railway, one of the oldest lines in Italy, with a vintage diesel locomotive, it stops in Fabriano (the medieval house of paper) up to Pergola".



*Previous page:*

*One moment on board of the historical train Pergola-Fabriano (credits Andrea Tessadori)*

*Here:*

*three pictures of the Learning activity in Cagli, Marche region (credits UNIVPM)*



## PAST EVENTS

### *multiplier event*

### *EUROPEAN LANDSCAPE AND HERITAGE IN THE DIGITAL AGE*

The conference **EUROPEAN LANDSCAPE AND HERITAGE IN THE DIGITAL AGE** was held at the Cagli Municipal Theatre & on line on the afternoon of Friday 17 June 2022.

The conference was depicted as multiplier event of the project as well as it was intended as additional learning activity for the workshop Digital Heritage & Design Thinking. The digital change in the way of accessing, enjoying and thus interpreting cultural heritage is now factual, also boosted by pandemic consequences. The current paradigm of space perception is also multidimensional (Manovic, 2006) thanks to digital facsimiles, democratisation of 3D digitisation and cyber- physical systems. The conference, based on selected keynotes, aimed to outline the European landscape and heritage researches trends boosted by the pervasiveness of the digital and to envision the future challenges and opportunities. The panellists were invited to show recent research in their field of expertise, complementary to depict the advancements in heritage&landscape best-practices, currently strengthened by technologies in all fields: museums, archaeology, architecture knowledge and restoration as well as urban regeneration and design. Moreover, the conference included an overview of the RailToLand project results and a final round table with public institutions and experts in the involved sectors.

*in this page:*

*conference announcement (credits UNIVPM)*

## EUROPEAN LANDSCAPE AND HERITAGE IN THE DIGITAL AGE

### Greetings

Alberto Alessandri, Mayor of Cagli  
Gian Luca Gregori, Rector of Università Politecnica delle Marche  
Francesco Baldelli, Assessor of Marche Region  
Marina Buzzoni, President AIUCD  
Carmen Storoni, President Architects Association

### Chair Ramona Quattrini

**Maurizio Forte – Duke University**  
Archaeology and hidden landscapes

**Anna Maria Marras – Università degli Studi di Torino**  
Document, communicate and share cultural heritage:  
methods and examples

**Livio De Luca – Map CNRS**  
A digital ecosystem for building a cathedral of data  
& knowledge on Notre-Dame de Paris

**Mario Santana Quintero – Carleton University**  
Digital technologies in documentation for historic places' conservation:  
concepts, tools, and ethics

**Roberta Bartolone, Giulio Mangano – Heritage asset  
management SBRL**  
Temporary Upcycling for adaptive reuse

**Ramona Quattrini, Ana Berrocal**  
Presentation of the Rail To Land project results

Round table and concluding remarks  
Discussant: Luca Arabi (Marche Region), Edoardo Trocchi (Cagli  
Municipality), Maddalena Ferretti (UNIVPM), Clara Zamorano (UPM),  
Vanessa Perez (International Railway Organisation), Federica Follsea  
(Trenitalia), Paolo Clini (UNIVPM), Gianluigi Mondaini (UNIVPM)

PROGRAMME

# UPCOMING EVENTS

## FINAL MULTIPLIER EVENT OCTOBER 2022

*in this page:*

Vigo Guixar train station pictures (credits UPM)

The end of our project is approaching and with it the celebration of the last multiplier event. This event will be held in October, although the final date has not yet been decided. The event will take place on the Oporto-Vigo railway line and will aim at the **final validation of our railTOland APP**. The event will be attended by representatives of several international railway companies.

**Stay tuned to our social networks and our website for further updates!!!**

