

# Active Learning in Teaching Digital Tourism



Preliminary Results Through Online Travel Business Simulation

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## Summary

Introduction

- Smartourism Courses and Active Learning
- Online Tourism Agency Business Simulation
- Virtual TRAVEL Learning Game

## **Authors**

#### Teaching Experience

- WEB programming for Computer Engineering
- Digital Tourism for Management Engineering and Arts and Literature

#### Research Experience

- Smart Tourism Modeling and Design for Cultural Heritage and Smart Cities
- European FP6 project «WORKPAD» coordinator 2010-13
- European ERASMUS+ Project
   «ADHOC» local coordinator 2020-22

#### Workshop Organization

- IEEE-WETICE 2010 at Rome
- Smartourism Conferences 2014-2016



#### Prof. Michele Angelaccio

**Associate Professor of Computer Engineering** 









#### Dr. Lucia Zappitelli

**Communication Manager** 

## **Smartourism Courses**

- Digital Tourism Course Bachelor Degree
  - Web Design and e-commerce for Tourism



- Tour Definition
- Geo Data
- Map Visualization



- Web Blog Design
- Multimedia
- User Interaction



- Marketing
- Cost Analysis
- Booking Platforms

## **Smartourism Courses**

- Data Science Course Master Degree
  - Data Analysis and Intelligence for Smart Worlds

#### **Smart Tourism**

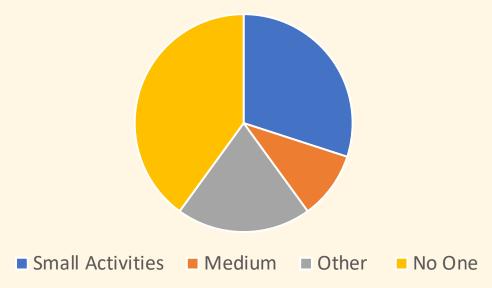
- Data Management for Sentiment Analysis
- Data Visualization for Smart Tourism
   Forecasting

### **Smart City**

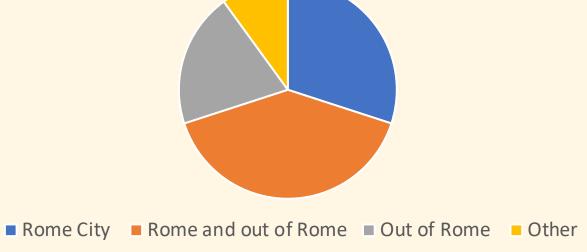
- Data Analysis for Energy Monitoring and Saving
- Smart Building Applications

# Student Profile Survey

#### Activities related to Tourism



#### Student Origin



# Real Business Simulation Example (2022)

- ONE DAY Real Tour Experience in the Park
- Business simulation on the field
  - Active learning with WEB STORIES
  - Trip Planning
  - Interaction with River Park Guides



#### DRGANIZZAZIONE:

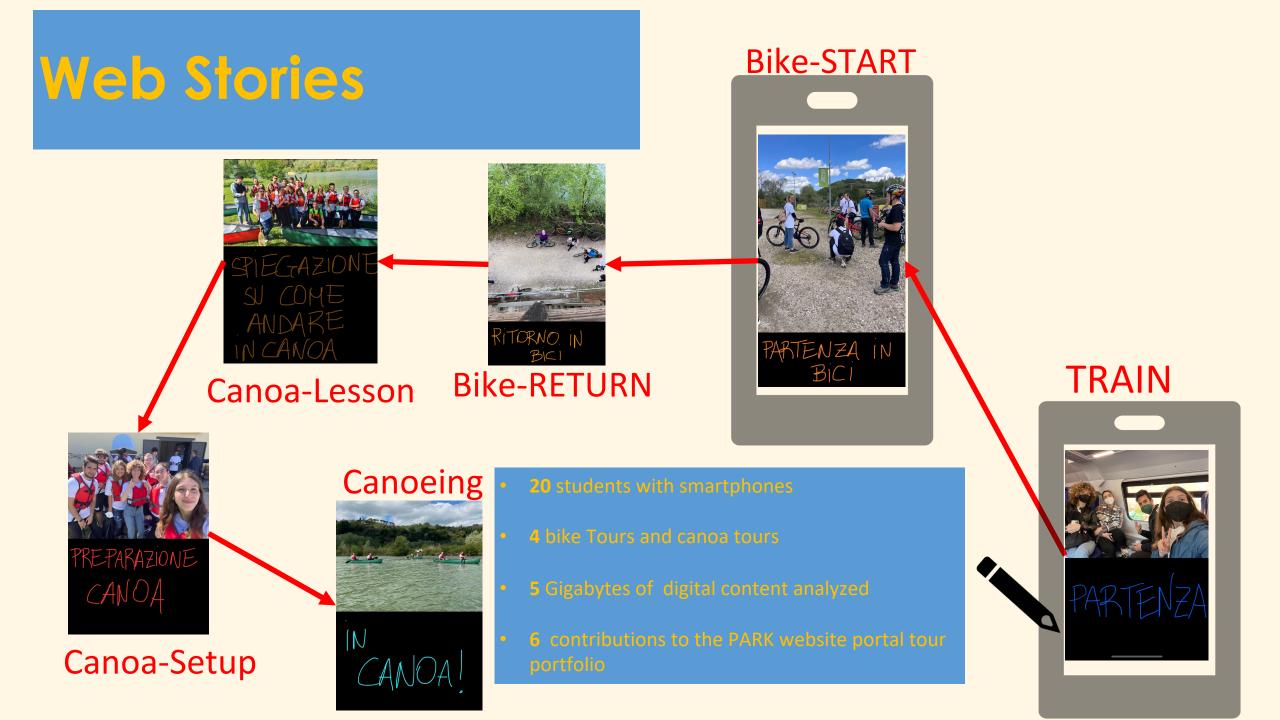
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## VIRTUAL TRAVEL GAME (2023)

- PROBLEMS with Real Experience with web stories
  - Hard to perform
  - Web stories are good for active learning but

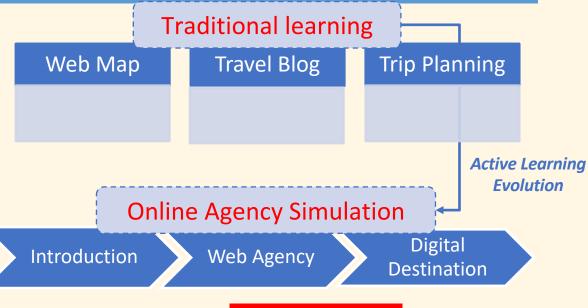
.....difficult to coordinate in a learning system

- SOLUTION:
  - TRAVEL BUSINESS SIMULATION through VIRTUAL TRAVEL GAME

- Tour Operators as Ancient Latin populations
- Travel Bloggers as Famous 18th century Travel Writers

# Online Travel Agency Simulation

- Business Simulation Approach
- Online Agency Simulation
  - Web Design with templates for Travel agencies and destination management
  - collaborative platform
- Online Travel Business Simulation
  - VIRTUAL TRAVEL GAME
  - Students play as <u>Virtual</u> Tour Operators who interacts with <u>Virtual</u> Travel Bloggers via chat and simulating a set of tours



Class chat



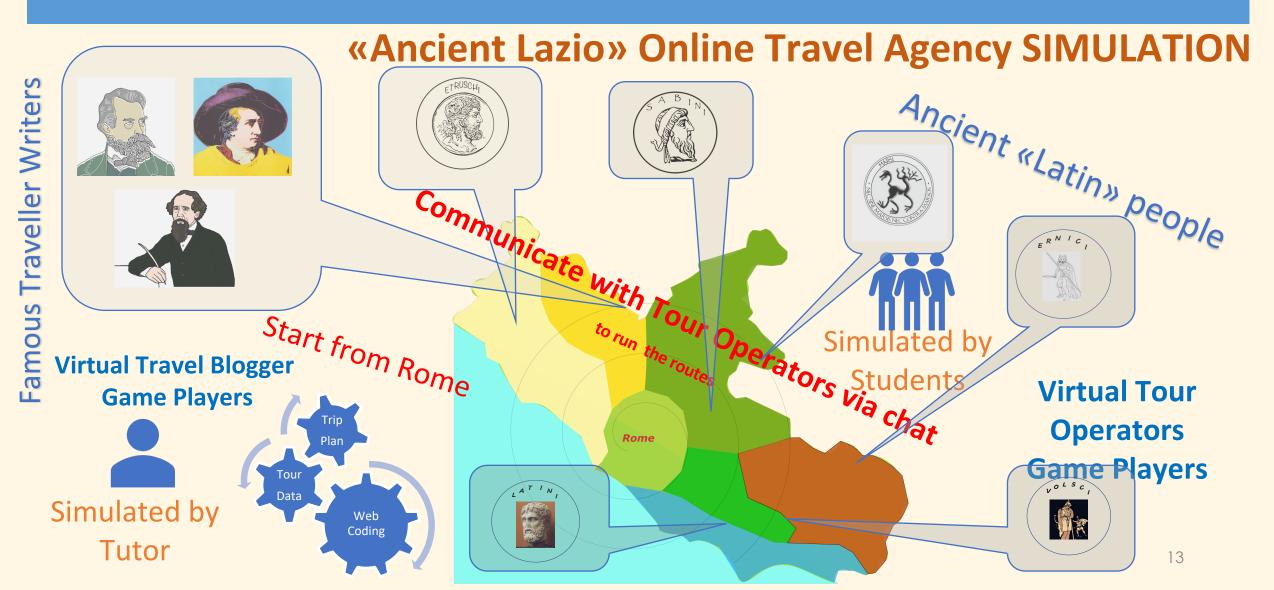
## **OTA Business Simulation**

- Learning Game with
  - Web Game Platform based on
    - Wordpress Travel Templates and
    - Teams Chat/Class Platform
- GENERAL Active Learning Benefits
  - Knowledge and Organizational Competencies
    - creativity and innovation,
    - critical thinking and problem solving,
    - communication,
    - cooperation within a community group.
  - Character Quality
    - efficient use of information and ICT tools,
    - flexibility and adaptability
    - productivity,
    - leadership skills and responsibility

# OTA BS Learning Outcomes

Skills	OTA Business Simulation Activities	Learning Outcomes
Cognitive	<ul> <li>Tour and destination discovery</li> <li>web map and multimedia design</li> <li>Planning and Risk analysis</li> </ul>	<ul><li>Digital Competencies</li><li>Analytical Skills</li></ul>
	<ul> <li>Searching for attractions</li> <li>Creativity in content creation</li> <li>Innovation in new smartourism experience definition</li> </ul>	• Creativity
Action Oriented	<ul> <li>Self Management of Travel Business Process</li> <li>Time Management</li> <li>Task Planning</li> </ul>	<ul><li>Indipendence</li><li>Self Learning</li><li>Flexibility</li></ul>
Social	<ul><li>Digital Competencies</li><li>Analytical Skills</li></ul>	<ul> <li>Digital Competencies</li> <li>Analytical Skills</li> </ul>

# Ancient Lazio Style Virtual Travel Game



## Metaverse Perspectives

- Travel Game learning as Metaverse Experience in Tourism
  - Augmented Reality
  - Tour AR Immersion



Experimented through WEB STORIES on the field

- Virtual Reality
- Travel Command Center
- Mixed Reality
- Travel Adventure Game



Possible New Ideas inherited by command center technologies and war games



New idea from WORK ADVENTURE Metaverse

## Conclusions

 Business Simulation and Metaverse Technological immersions are giving new opportunities to enhance Learning Systems

• Digital Tourism is a key sector to successfully experience these innovations

• Game Learning could combine all things in a single immersive learning scenario





## Thanks !!!!



Keep in Touch!



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