

Project co-financed by the European Regional Development Fund

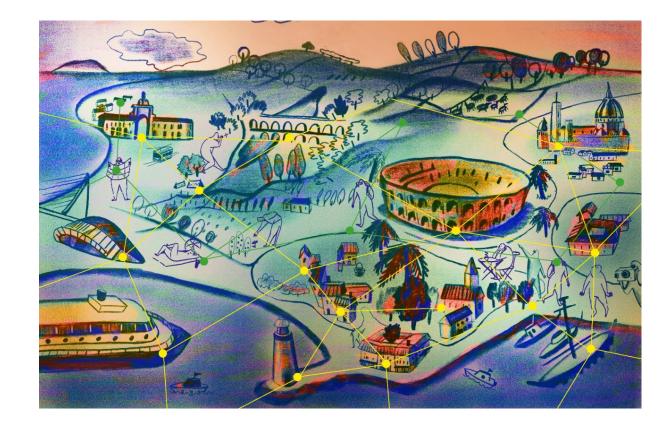
Herit Data

Final Conference

Madrid

Dr. Alessandro Monti

07 April 2022













HERIT DATA PROJECT

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- Herit Data exploited Digital tools, Open-Big-Smart Data and Open Source solutions such as the Herit Data Platform, Sentiment Analysis, Web Applications.
- Herit Data used innovative methodologies such as Nudging and Influencer marketing campaign.
- Herit Data with its **six pilot projects** implemented solutions and methodologies within six pilot sites with very different characteristics (static data, real time data, data from sensor, connection to other platform et al.)
- Herit Data promotes new technologies/methodologies in tourism planning, management and decision making, involving by design the synergies between the various institutional levels/stakeholders and always favouring the "items" already deployed on the territories.



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OUTPUTS HERIT DATA

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- Six pilot sites exploiting the HERIT-DATA platform : Dubrovnik (Croatia), Pont du Gard (Région Occitanie, France), Ancient Olympia (Western Greece), Florence (Tuscany Region, Italy), Valencia (Valencia Region, Spain) and Mostar (Bosnia-Herzegovina) demonstrating the versatility of the technological solutions and methodologies adopted and how these can be a valid example/suggestion/basis for institutions, tourism operators and citizens.
- Data selection and acquisition, to monitor "people" flows by means of cameras, thermal cameras, wi-fi access points, sentiment analysis et al. Transformation of acquired/collected data in indicators and/or enriched data, to populate the many dashboards. Usage of monitoring process to apply mitigation and improvements actions. Usage of Web App, App and physical tools disseminated within the city, to outreach tourists/people and virtuously sustainably orient their behaviours.



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Florence Smart City – ICT Rank



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Mediterranean

HERIT-DATA

Florence Smart City – App & Tech

IoT and tecnologies

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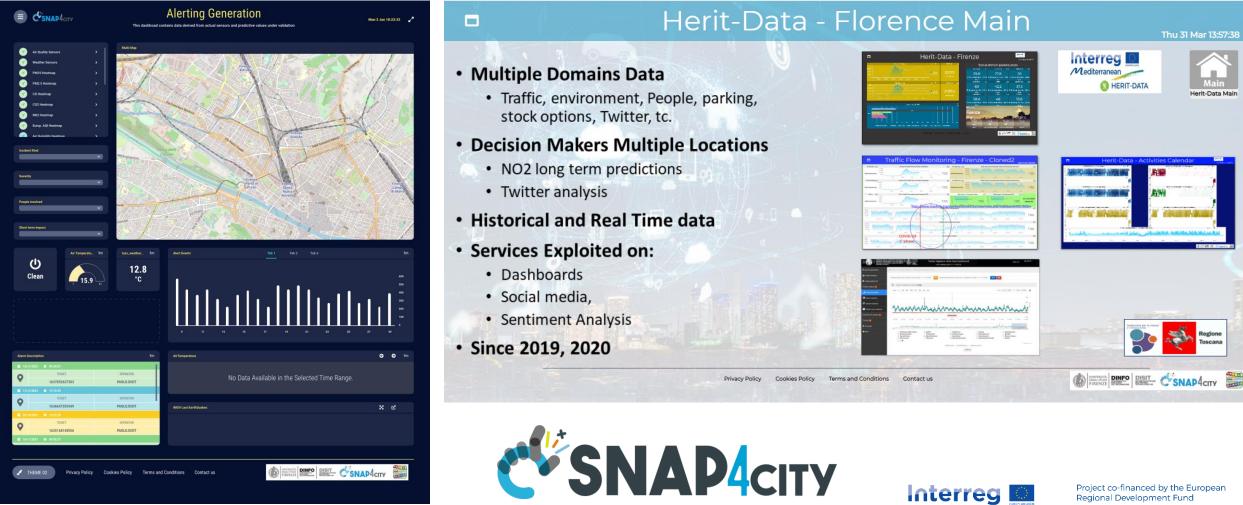
Number of App





The platform

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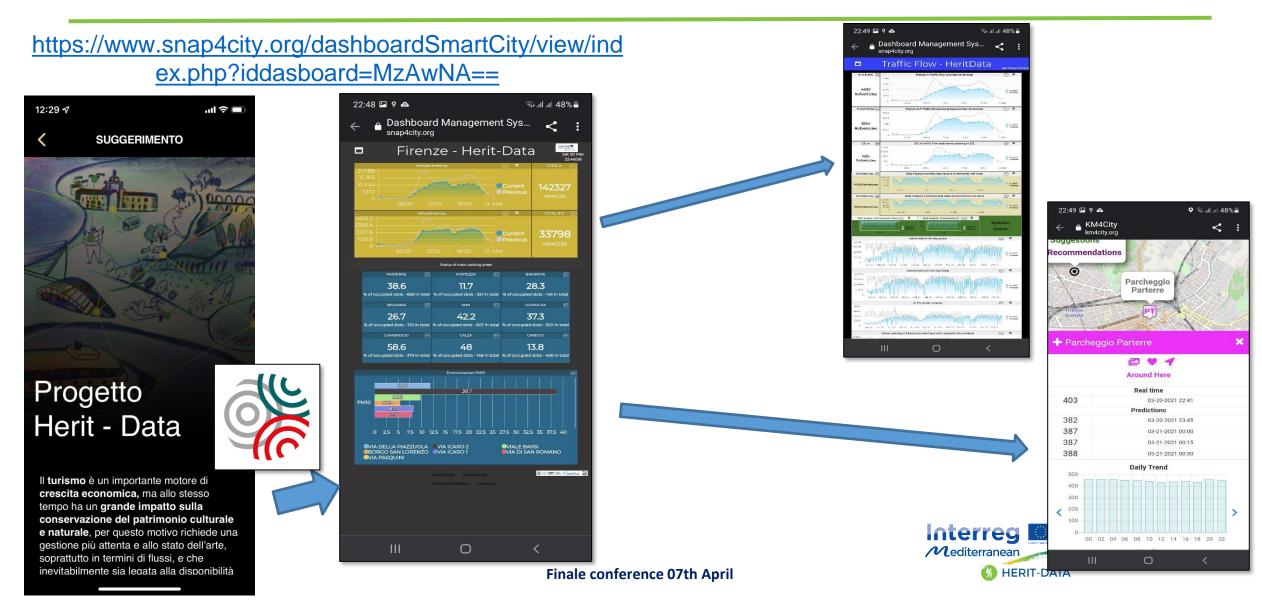
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Mediterranean HERIT-DATA

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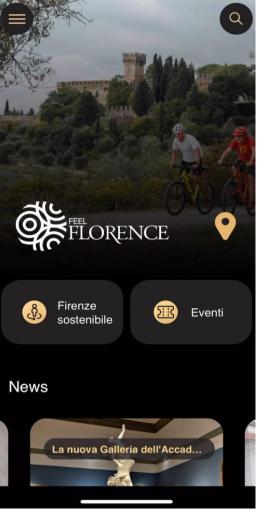
The platform, the links and the Apps

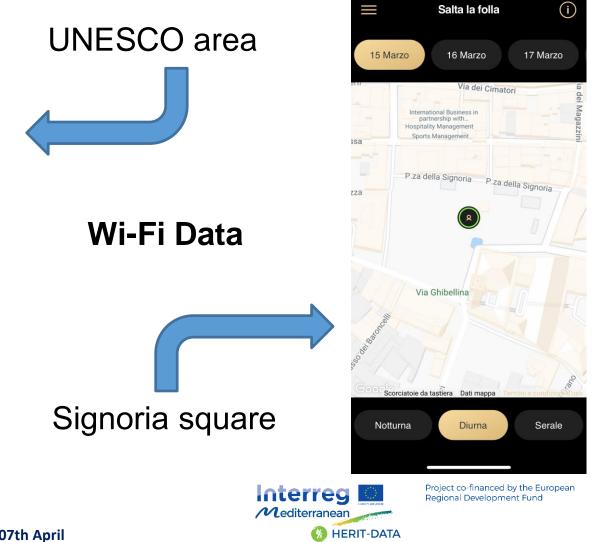


The Florence App: FeelFlorence



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Influencer Marketing Campaign



Thermal Camera



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HERIT-DATA

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Mediterranean



Thermal Camera: live feed



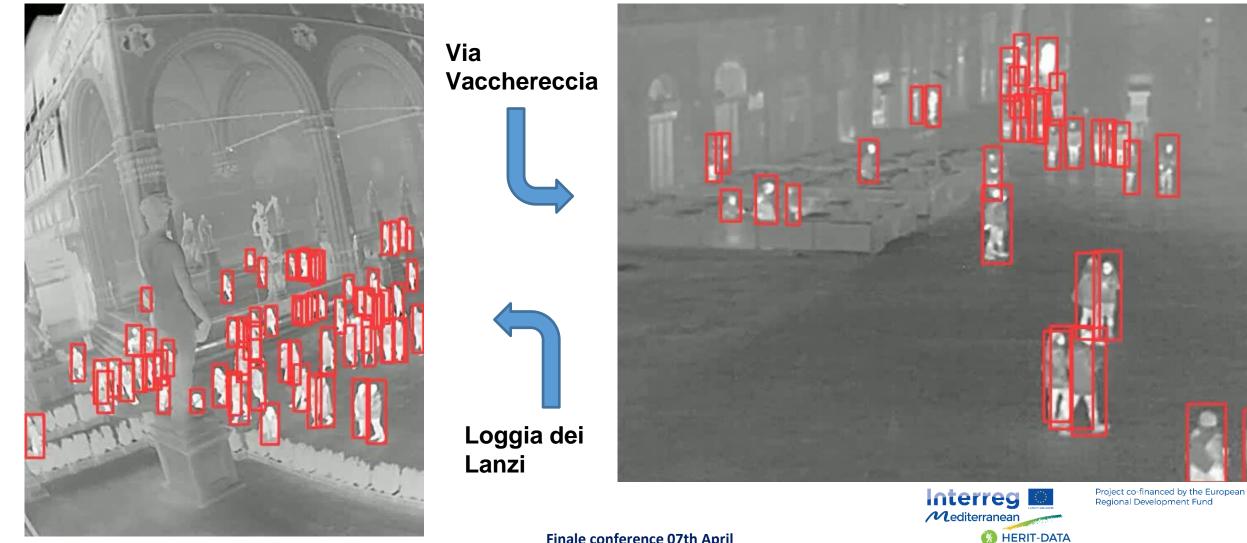
Live feed during Florence Study Visit

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HERIT-DATA

Thermal Camera: Thermal footprint & Trajectories

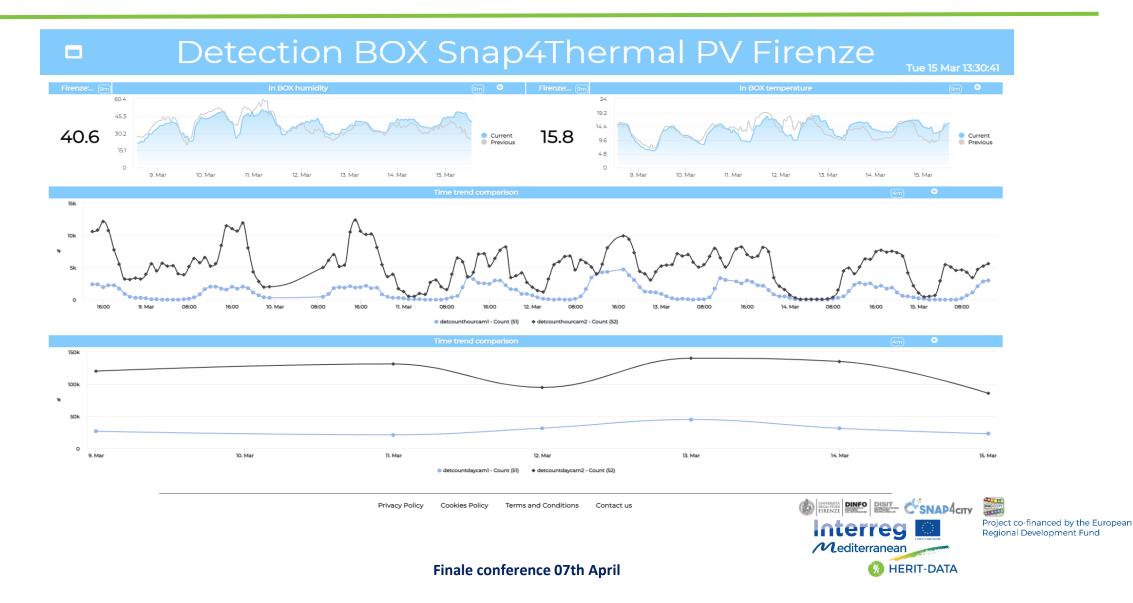
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Thermal Camera: one week trajectories

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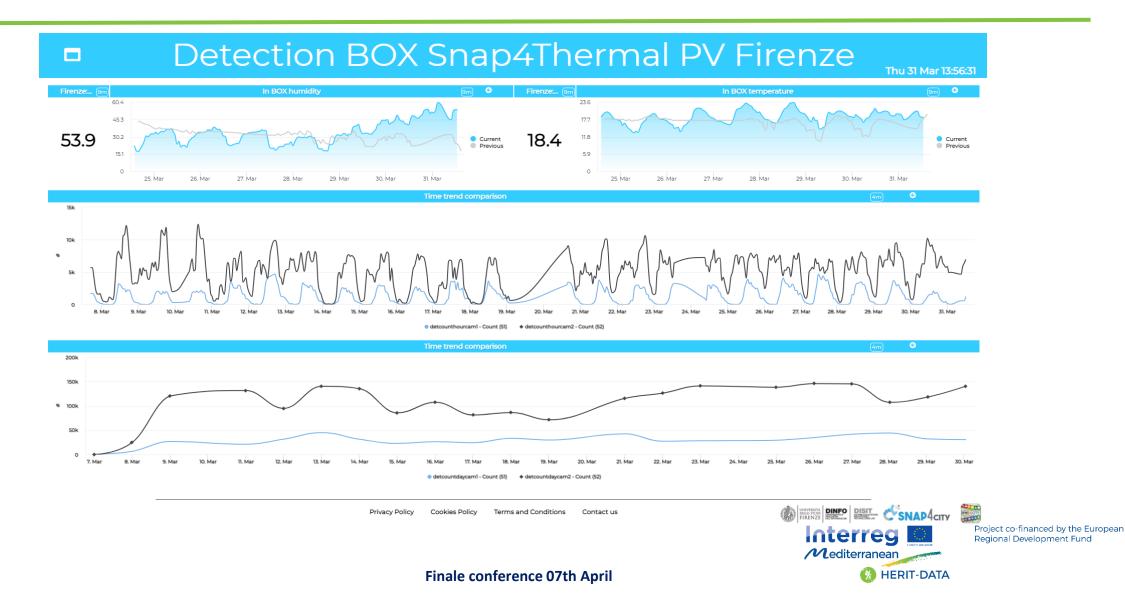
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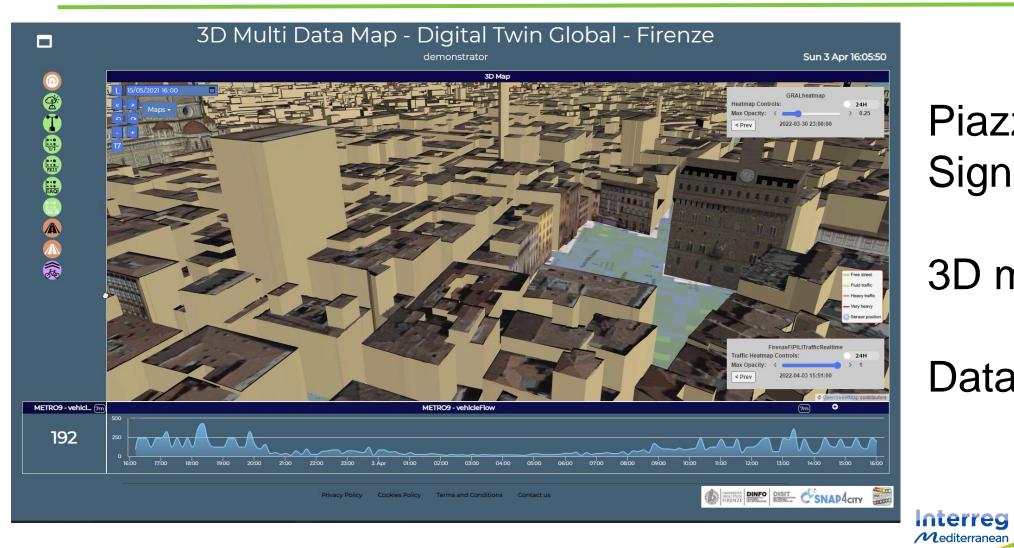
Thermal Camera: one month (almost) trajectories

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3D and data



Piazza della Signoria

3D model

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Data feed $-NO_2$

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Sentiment Analysis "testbed"

<u>Test Event</u>: clashes between police and demonstrators in Florence, during an unauthorized demonstration against the government's Covid-19 measures (night of 30 October 2020).



Florence mayor condemns violence and vandalism in historic centre in "surreal, terrible and painful night" for Tuscan city.

Protesters clashed with police in central Florence last night during an unauthorised protest over Italy's latest restrictions aimed at curbing the spread of covid-19.





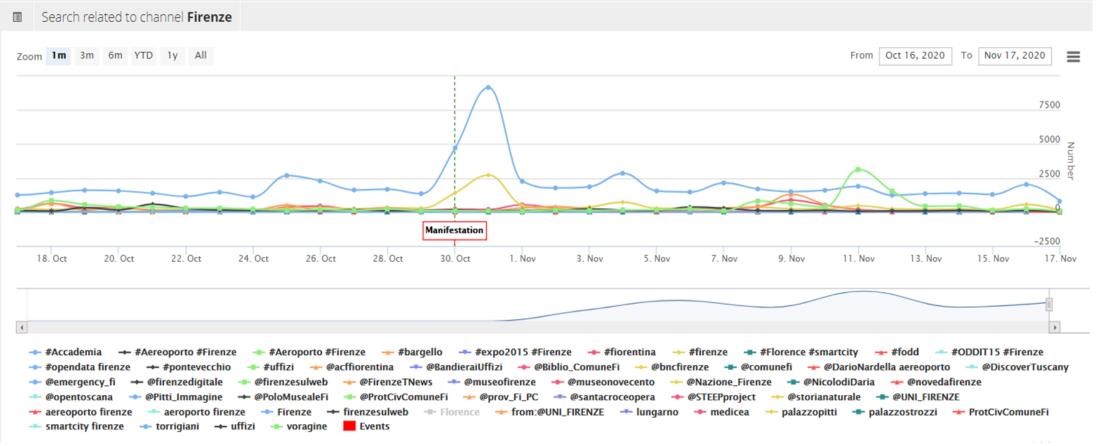
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Sentiment Analysis "testbed"

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30 October 2020 Demonstration



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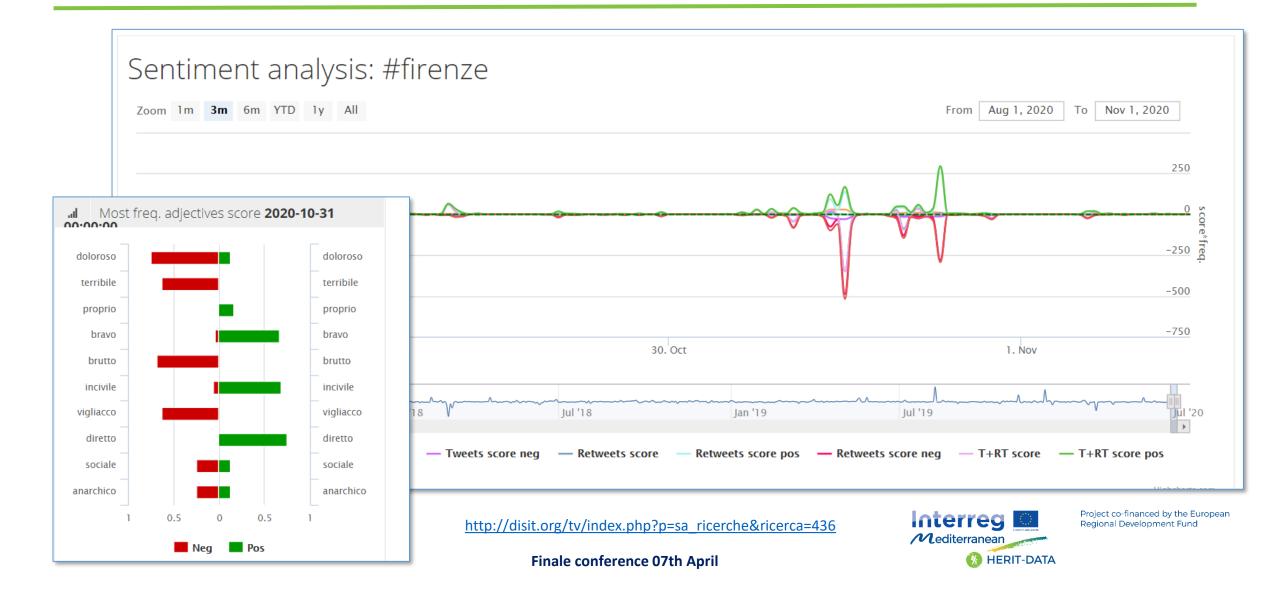
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Sentiment Analysis for search Florence

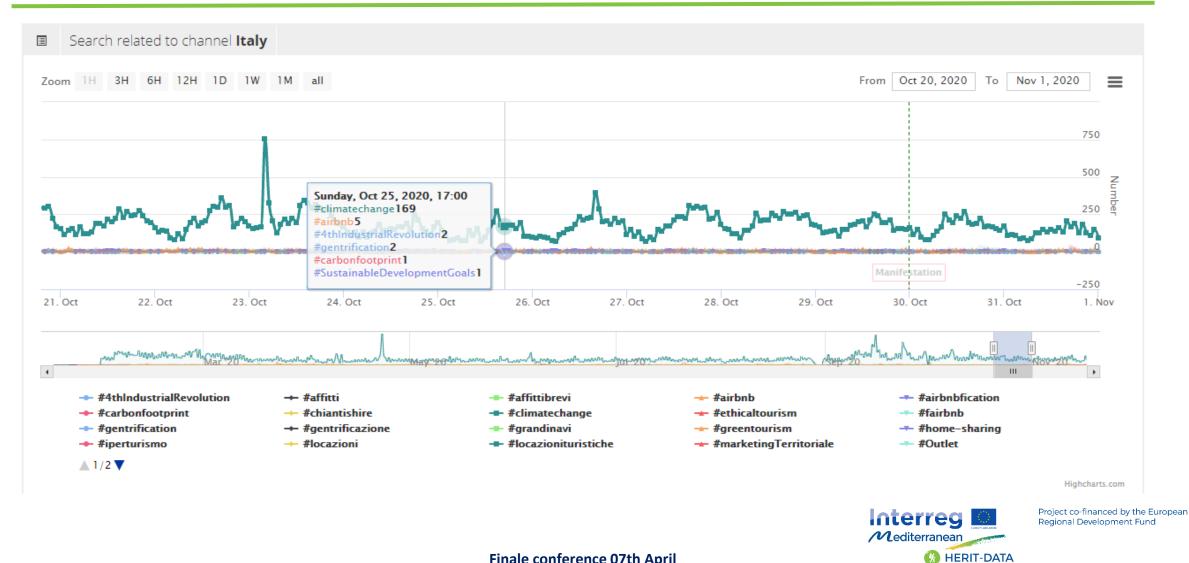
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Sentiment Analysis running

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Sentiment Analysis

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Twitter Vigilance Herit-Data: Some Numbers

Channel Name	Total Number of Collected TW+RTW	Number of Collected Tweets	Number of Collected Retweets	Twitter Volume Processing Time Range	NLP & Sentiment Analysis Processing Time Range	NLP & Sentiment Analysis Languages
Spain	113.7 Millions	40.99 Millions	72.49 Millions	From 30-01-2020 to current datetime	From 01-02-2020 to current datetime	English, Spanish
France	50,1 Millions	16.0 Millions	34.1 Millions	From 30-01-2020 to current datetime	From 01-02-2020 to current datetime	Italian, English, French
Greece	12.3 Millions	4.2 Millions	8.1 Millions	From 30-01-2020 to current datetime	From 01-02-2020 to current datetime	English
Italy	2.97 Millions	1.0 Million	1.9 Millions	From 30-01-2020 to current datetime	From 01-02-2020 to current datetime	Italian, English
Croatia	35.8 Thousands	15.5 Thousands	19,8 Thousands	From 30-01-2020 to current datetime	From 01-02-2020 to current datetime	English

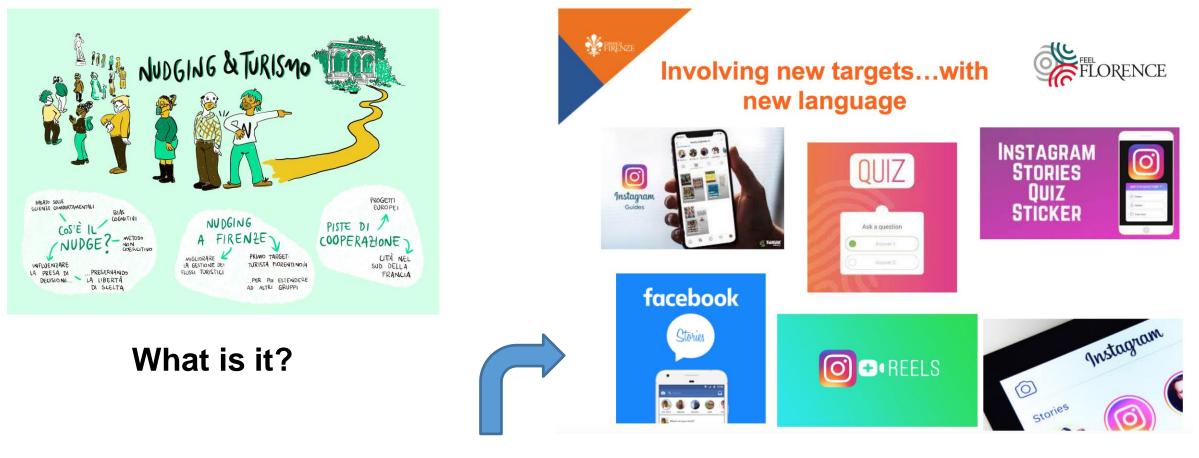


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Nudging

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How can you exploit it?

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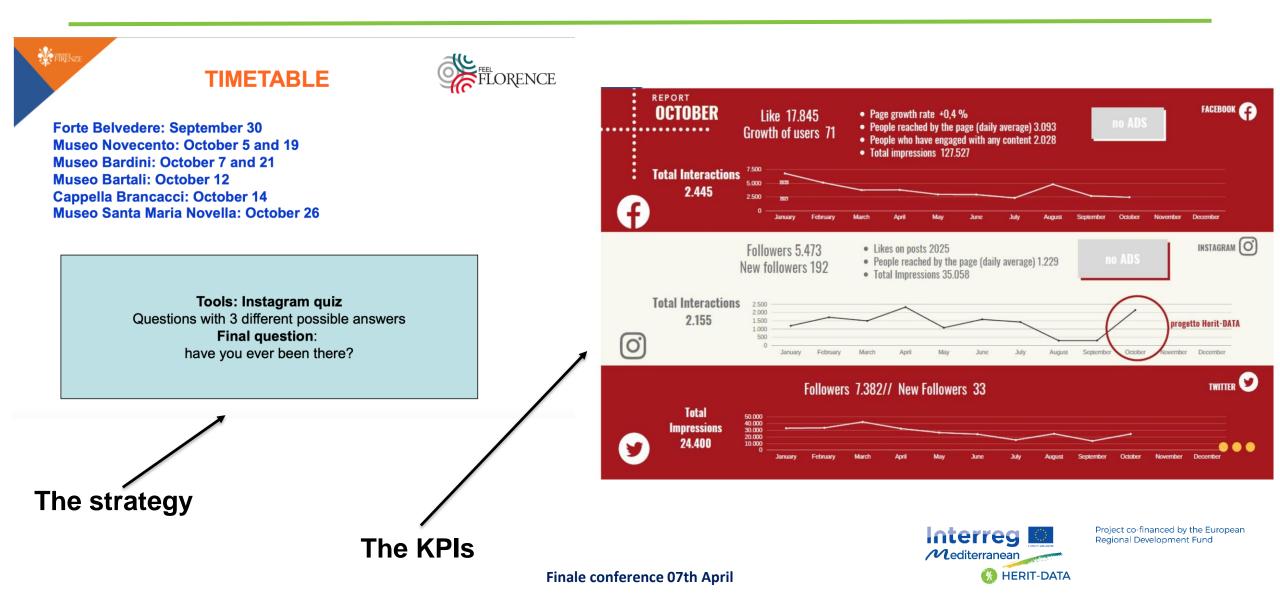
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Nudging

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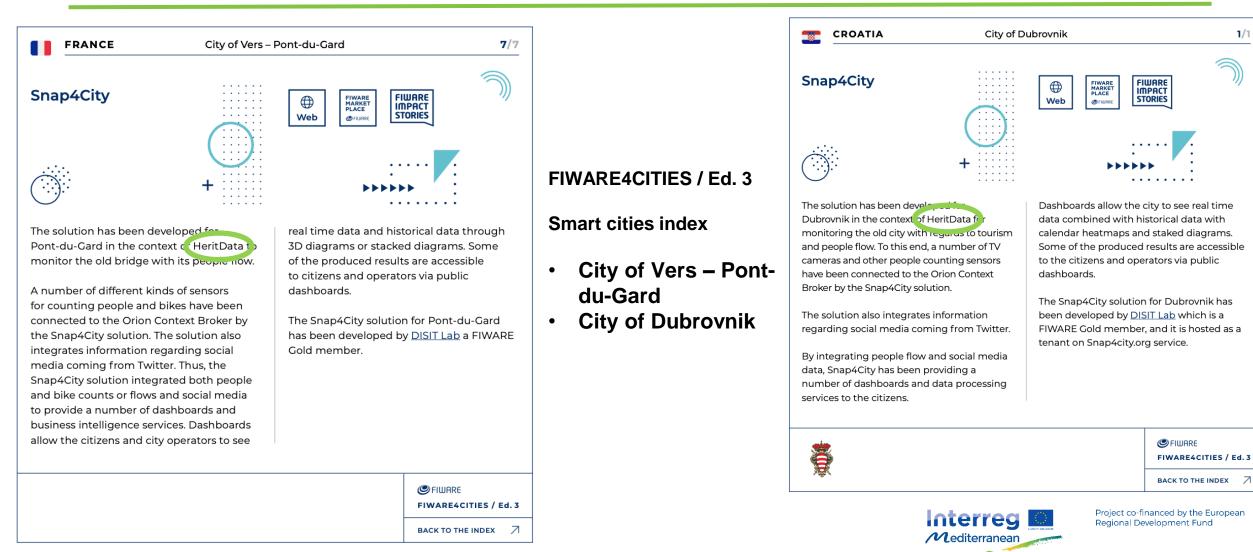


Some recent acknowledgment

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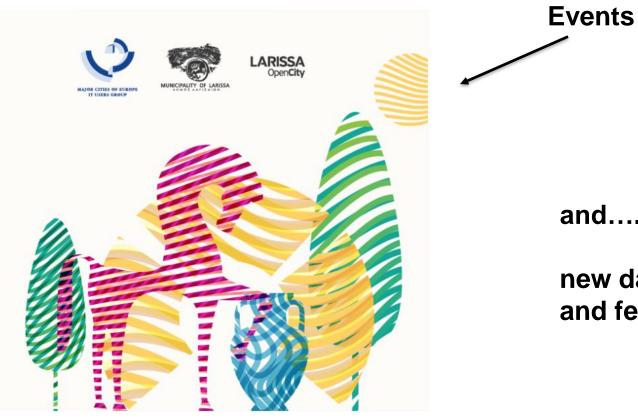
Future developments: Herit Data further and beyond

From Chaos to Cosmos

Innovative Communities, Places and Cities 2022 Hybrid Conference and Webinars

25 - 27 May 2022 Larissa, GREECE







new data, sensors and features

TO COEMOE



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FINAL THOUGHTS

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Start from the existing, be creative but pragmatic and always keeping in mind the long term sustainability.

Exploiting of new trends, tools and methodologies, but not forgetting the old ones.

A **Memorandum of Understanding** has being signed to adopt HERIT-DATA tools and methods to decrease the impact of mass tourism on cultural heritage sites, cities and monuments.....so let's keep it up!



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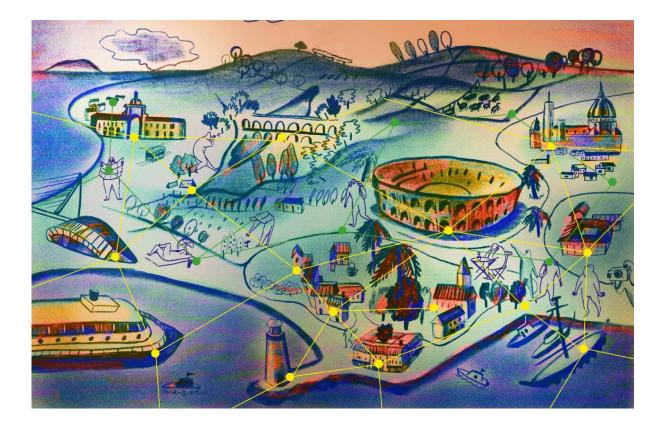
Contacts:

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https://herit-data.interreg-med.eu/ https://www.snap4city.org/drupal/node/7 79



THANK YOU FOR YOUR ATTENTION!





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Herit Data project

Sustainable Heritage Management towards Mass Tourism Impact thanks to a holistic use of Big and Open Data





