

IT research infrastructure of Territori Aperti

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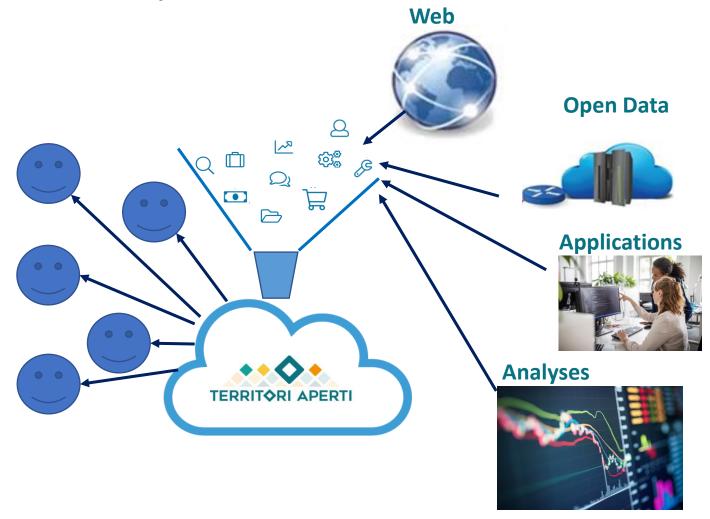


Outline

- Main goals of Territori Aperti
- Territori Aperti Main Website
- Territori Aperti Gateway
- Territori Aperti Toolkit

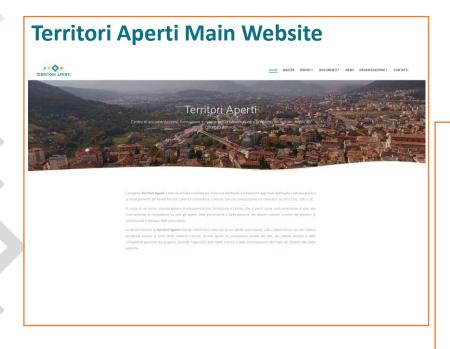
Main goal of Territori Aperti

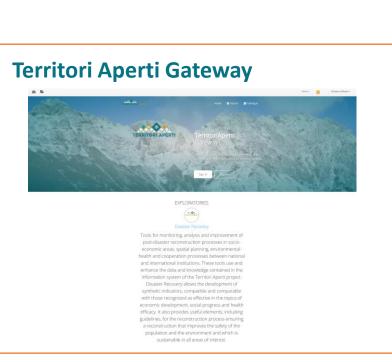
- Territori Aperti follows the open science principle
- It will make available to users: data, applications and analyses about the management of natural disasters and reconstruction processes



IT infrastructure of Territori Aperti

Three main applications:





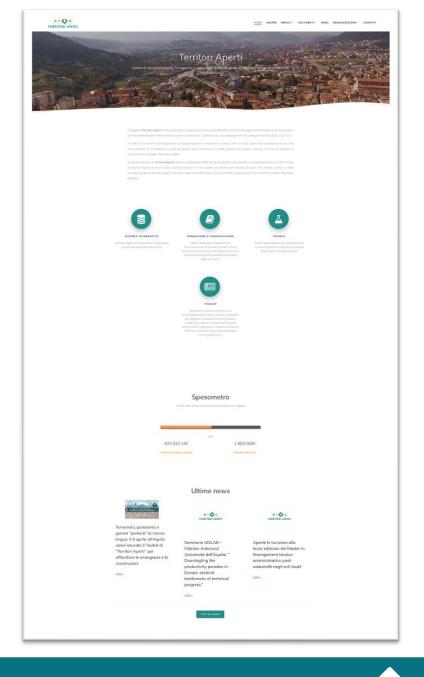


Territori Aperti Webisite

https://territoriaperti.univaq.it/

Territori Aperti Webisite

- Entry point to all the services of Territori Aperti
- Lists all the news related to the project
- Repository of all scientific publications and thesis made under the project
- Available both in Italian and English



Open Data page

- Available under the Services menu entry
- Collection of Open Data available online divided by scope
- Each section contains a series of links to Open Data repositories about different aspects of natural calamities



Analyses page

- Available under the Services menu entry
- Divided in two sections
- City Area contains analyses and infographics about different aspects of natural calamities
- Research Area is a link to the Territori Aperti Gateway

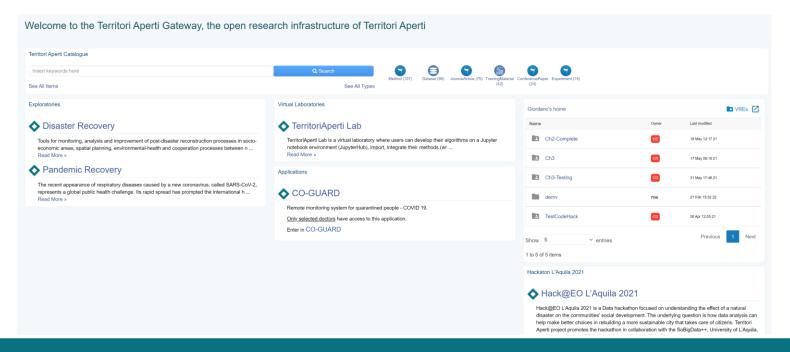


Territori Aperti Gateway

https://territoriaperti.d4science.org/

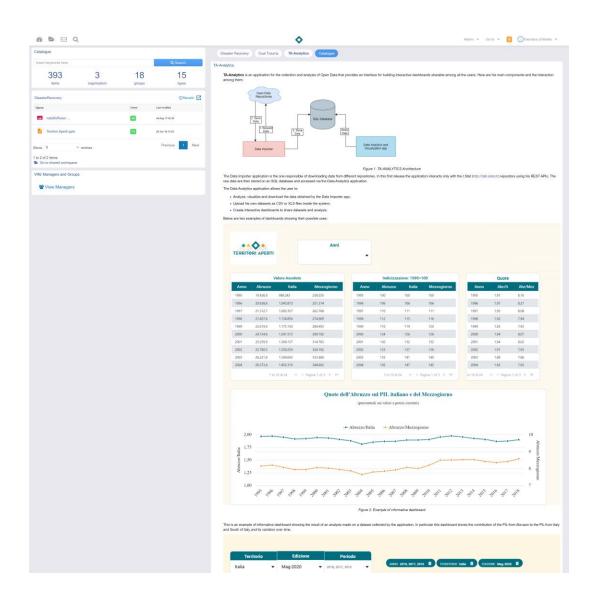
Territori Aperti Gateway

- Main research infrastructure of Territori Aperti
- Built on top of the D4Science platform developed by the SoBigData++ project
- Available in English
- Made of different components



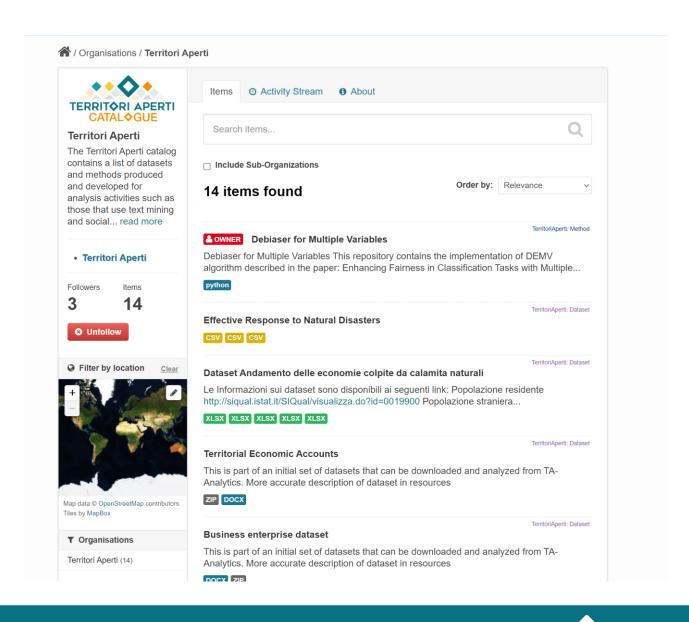
Exploratories

- Collection of stories
- Each story is related to a research project
- Each story contains a description of the research project and all the data and materials related to it (linking them from the Catalogue)
- Two exploratories available: Disaster Recovery and Pandemic Recovery



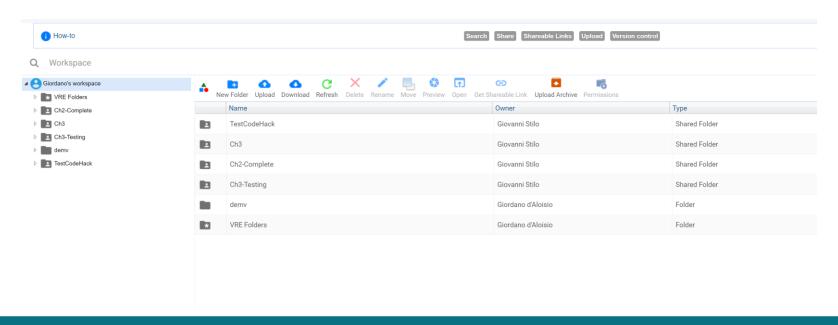
Catalogue

- Main repository of methods, analyses and datasets developed by the Territori Aperti project
- All the resources are available to download after registering to the platform
- Items can be linked and shared on other websites and platforms



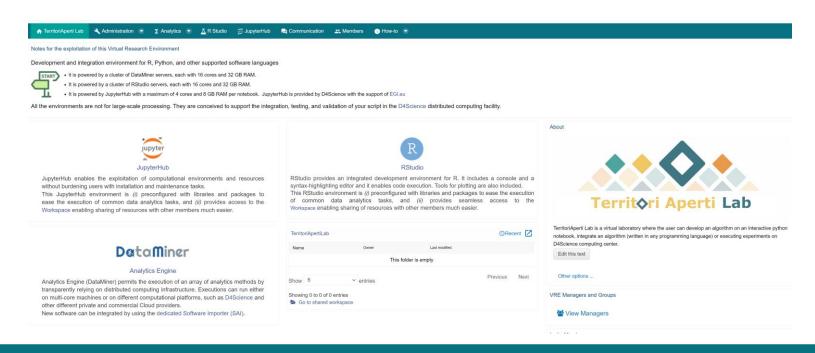
Personal workspace

- Collection of personal files which can then be used in other points of the website
- Main page for managing and upload files to the platform
- Available after registration



Virtual laboratories

- Place where execute analyses and methods in the cluster using files from the workspace
- It is made of a JupyterHub engine for the execution of analytical tasks, RStudio platform and DataMiner engine for the execution of analytical methods

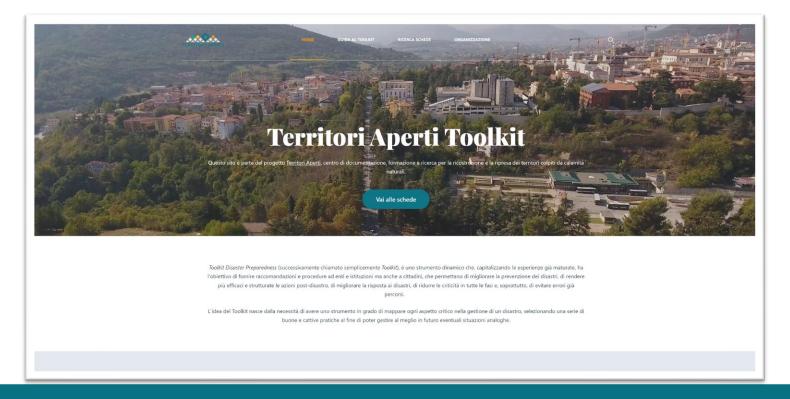


Territori Aperti Toolkit

https://toolkit.territoriaperti.univaq.it/

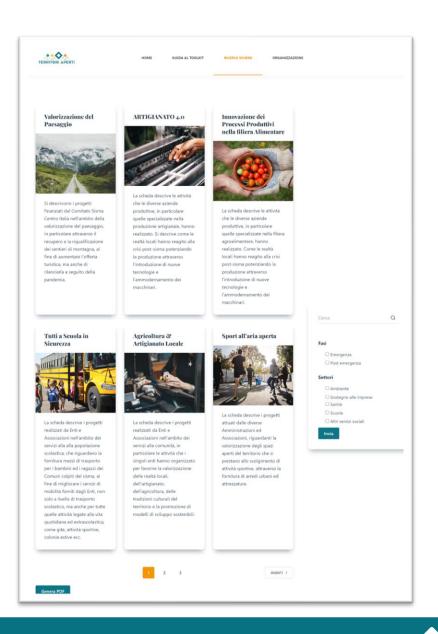
Territori Aperti Toolkit

 A collection of experiences and best practices about the management of natural disasters



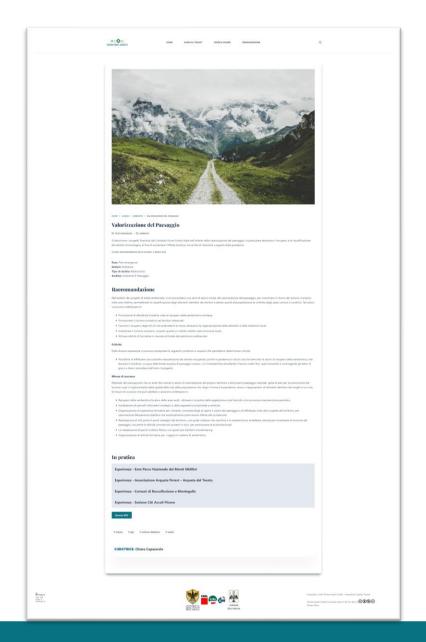
Collection of experiences

- Each experience is collected inside a form
- These experiences are extracted from different sources and are distincted in phases and sectors
- They can be filtered from the website using the sidebar form



Experience description

- Each experience is described using a set of common fields
- Are highlighted the best and worst practices derived from each experience



PDF Generation

- It is possible to generate a PDF of one or more forms from the dedicated buttons
- Each PDF contains the same information available on the website and an explanation of the different fields of each form



Future works

TA - Analytics

- In the future, we are working to publish TA-Analytics
- An application which will allow user to make interactive analytical dashboards using Open Data collected from open APIs
- The collected data will be periodically updated automatically and so will be the dashboards made with them

Thank you for your attention!