

PREMIO "PA A COLORI" 2024

Iniziativa promossa nell'ambito di FORUM PA 2024

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SOGGETTO PROPONENTE: ISPRA – Dip. Servizio Geologico d'Italia

TITOLO DEL PROGETTO: Urban Geo-climate Footprint

AMBITO: PA vicina

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GRUPPO DI LAVORO*

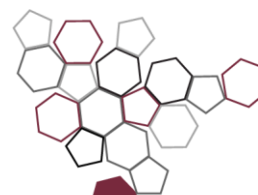
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ISPRA

Istituto Superiore per la Protezione
e la Ricerca Ambientale



Sistema Nazionale
per la Protezione
dell'Ambiente

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PRESENTAZIONE DEL PROGETTO 1/2

Il progetto Urban Geo-climate Footprint (UGF), che rientra appieno nel Goal n.11 dei Sustainable Development Goals (SDG) delle Nazioni Unite, è stato sviluppato nell'ambito della confederazione europea dei servizi geologici (EuroGeoSurveys). Esso fornisce un metodo semi-analitico per classificare le città dal punto di vista geologico-climatico. Consente di misurare, attraverso il cosiddetto UGF INDEX, la complessità geologica di una città, e valutare di conseguenza i benefici che la stessa potrebbe avere in caso della mitigazione di detta complessità.

La classificazione delle città da questo punto di vista può consentire il confronto speditivo tra città con caratteristiche simili e quindi favorire lo scambio di buone pratiche per la risoluzione/mitigazione di determinati problemi geologico-climatici.

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11 SUSTAINABLE CITIES AND COMMUNITIES



PRESENTAZIONE DEL PROGETTO 2/2

L'Urban Geo-climate Footprint ha una vocazione prevalentemente divulgativa ed è rivolto a cittadini ed amministratori locali con l'intento di mettere a loro disposizione uno strumento che, in poco tempo, attraverso una scheda sintetica, e con semplici indicatori grafici, consenta di accrescere la consapevolezza dei non esperti rispetto a quelle che sono le problematiche geologico-climatiche di una città.

ISPRANATIONAL GEO-CLIMATE FOOTPRINT

GEO FACTSHEET OF THE CITY OF

ROMA

City analysis provided by

General city info

Rome is the capital city of Italy. It is located in Lazio region, and it is a special Municipality named Roma Capitale. It is the country's most populated city and the third most populous city in the European Union by population within city limits. Rome is located in the central-western portion of the Italian Peninsula, within Lazio (Lazio), along the shores of the Tiber. Vatican City is an independent country inside the city boundaries. Rome is often referred to as the City of Seven Hills due to its geographic location, and also as the "Eternal City".

Legend
Districts
GRA Highway

City data

Area km ²	1.285
Population (inhabitants)	2.871.000
Pop. Density (inh./km ²)	2.236
Surface Urbanized Area (SUUA)	29
SA (SUUA)	41.902.90485
SA (UR)	12.496241171
Urbanized Area Level	Municipality
City	Italy
Country	Italy
Region	Lazio
Province	RM
City	Roma

UNESCO SITE

World Heritage Site

Type of groundwater-city

Urban GW city

Subsidence GW city

UGF - Classification

Geology dominated

Superficial processes dominated

Geological setting description

The morpho-structural and structural setting of Rome, is dominated by two main middle-late Quaternary volcanic complexes, the Sabatini Mts to the North West and the Albani Hills, South East of the city, and by several NW-SE and N-S trending horsts and grabens that dissect Pleistocene marine and continental sedimentary sequences underneath the volcanic cover. The bedrock of the city is composed by very thick marine Pliocene unit (1400m). Local volcanic rock was the primary stone building material of ancient Rome from its initial settlement through the Early Roman Imperial age. Large part of the city is infilled in wide man-made ancient underground quarries which sometimes collapse until the surface. The main geological issues characterizing the city are landslides, and all those issues related to alluvial olivine sediments (as seismic waves amplification, and localized subsidence) of Rivers Tevere and Aniene.

Geology

Geology

UGF SCORE INDEX 211

UGF Score Index: 211

UGF SCORE CLASS DESCRIPTION

UGF-2: "Moderate impact of geological settings/phenomena interfering with the geographical location of the human settlements, with several geological issues in some areas or sectors. Knowledge and awareness of urban geology and climate change effects are crucial for urban planners and managers."

Geohazard Index

Subsoil anthropic pressure

With some 300,000 people living and working in a danger zone that measures some 1,135 hectares, Rome has "the highest exposure in Europe" to the risk of flooding due to the Tevere and Aniene rivers.

From: www.autonadistricts.it

Nearly 800 areas in the Rome area that are considered at risk of landslides have been identified, especially Monte Mario, the city's highest hill, Viale Trilzano near the Parco della Musica concert hall, Monteverde Vecchio by the Villa Doris Pamphili park, and the Balduina neighbourhood in the north-west.

From: ISPRA

Geoheritage

Indicator of n. of geosites (to be developed)

According to the Italian national database of geosites in the city of Rome there are totally 1 geosite of national interest, 8 geosites of regional interest, and 5 geosites of local interest. Many other geosites have been moreover identified at city scale. Between those, the "Monte dei Cocci" is a unique geomorphological geosite representing an ancient landfill of Roman age, composed by fragments of earthenware. The landfill is easily recognizable due to its relief of about 35m of height from the local land surface of the alluvial Tiber River plain.

From: www.romanopenro.com

Page number: 7/3

PER ULTERIORI APPROFONDIMENTI (video, articoli, pubblicazioni, riferimenti)

Sito web

- http://ugf.isprambiente.it/index_ita.html

Video:

- <https://youtu.be/1rRP3-U0uXs>
- <https://youtu.be/1rRP3-U0uXs>
- https://youtu.be/_EE5eeV6TE4

Articoli / Pubblicazioni:

- <https://meetingorganizer.copernicus.org/EGU24/EGU24-20428.html>
- https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4712812

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ANAGRAFICA DEL REFERENTE

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