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## EUROLITHOS – ORNAMENTAL STONE RESOURCES IN EUROPE

Željko Dedić<sup>1</sup>, Marija Horvat<sup>1\*</sup>, Boris Kruk<sup>1</sup>, Vlatko Brčić<sup>1</sup>, Nikolina Ilijanić<sup>1</sup> & Erli Kovačević Galović<sup>1</sup>



<sup>1</sup>Croatian Geological Survey, Sachsova 2, HR-10000 Zagreb, Croatia (\*corresponding author: mhorvat@hgi-cgs.hr)



**EuroLithos** is a GEOERA research project on European Ornamental Stone Resources in Europe. EuroLithos Website (NGU) has made a new site (<https://www.eurolithos.org/>) linked from GeoERA on a wix platform.

Project Lead



Although ornamental stone is today an important raw material produced all over Europe, its use locally and regionally is decreasing, along with related knowledge, traditions and skills. EuroLithos was founded upon the premise that increased knowledge of the geological quality and historical use of natural stone in Europe can stimulate more sustainable use of this resource.

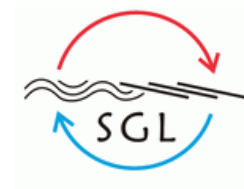
WP Leads



**wp1 Project management (Lead Geological Survey of Norway, NGU)**

**wp2 Dissemination, communication, stakeholders (Lead NGU)**

Partners



**Inventory of data availability**

**Geological maps - looking for uniformity**

Country	Partner	RASTER						VECTOR					
		= 1/5K	1/10K	1/25K	1/50K	1/100K	= 1/250K	= 1/5K	1/10K	1/25K	1/50K	1/100K	= 1/250K
Austria	GBA	---	---	---	---	---	---	---	---	---	80%	Y 1)	100%
Croatia	HGI-CGS	---	---	---	6,50%	98%	100%	---	---	---	6,50%	98%	100%
Cyprus	GSD	---	7,50%	37,50%	20%	7,50%	2,50%	---	---	37,50%	---	---	100%
Greece	HSGME	11 ortophot	---	4 ortophot	---	---	100%	39 sheets	---	4 sheets	100%	---	100%
Ireland	GSI	---	---	---	---	---	---	---	---	---	---	100%	100%
Italy	ISPRA	---	---	---	40%	100%	---	---	---	40%	100%	---	---
Luxemb	SGS	---	---	---	---	---	---	100% 2)	100%	---	---	---	N
Norway	NGU	---	---	---	---	---	---	---	---	---	60%	---	40%
Portugal	LNEG	---	---	---	95%	5%	100%	45%	---	25%	10%	---	100%
Romania	IGR	---	---	---	70%	---	100%	---	---	---	20%	---	100%
Slovenia	GeoZS	---	---	---	20%	100%	100%	---	---	---	20%	100%	100%
Spain	IGME	---	---	---	100%	---	---	---	---	---	100%	---	---
Sweden	SGU	---	---	---	100%	100%	100%	---	---	---	50%	45%	5%

**wp3 Atlas of European Ornamental Stones (Lead Laboratorio Nacional de energia e geologia, Portugal, LNEG)**

Geology and location of the current and relevant historic mining districts of ornamental stones, the productive geological units, and prospective areas

Examples of applications and use history

**wp5 Ornamental Stone Heritage (Lead Croatian Geological Survey, HGI-CGS)**

Case studies and guidelines  
Assessment of architectural, historical and intrinsic values of ornamental stone resources

The main objective of the WP 5 in which lead beneficiary is HGI-CGS, is to establish guidance that can facilitate and aid the process of valorisation of stone resources. We believe that such tools will contribute to better maintenance of stone-built heritage, better conditions for SMEs (small and medium-sized enterprises) and better protection of stone resources in land-use planning.

The tools will address three aspects of stone heritage:


- the intrinsic value of stone quarries and quarry landscapes
- the value of stones from their use in stone-built heritage, and
- the traditional crafts



Annual meeting Athens, DIONYSSOS QUARRY

**wp4 Directory of Ornamental Stone Properties (Lead Hellenic Survey for Geology and Mineral Exploration, Greece, H.S.G.M.E.)**

Denomination and characterization of unique ornamental stone types. Their technical, mineralogical and structural properties.

Petrographic description of stones			
Petrographic examination (EN 12407)			
No	Macroscopic description	Microscopic description	Thin section photographic record
2.	Green marble, medium and uniformly grained, with dark green and brownish veining.	Medium grained calcitic marble containing a significant amount of dolomite, with granoblastic texture.	Parallel to the anisotropy planes (N+...x15) 
Photographic record of the Stones			
(Note: The pictures should be presented without size reduction and should correspond to a surface area of 150 x 150 mm, at least)			
2.	Name of natural stone (EN 12440): Verde Viana	Petrological family: Calcitic marble	
	Country: Portugal		
			(Surface area: 150 x 150 mm)



**wp6 Ornamental Stone Information Platform (Lead NGU) Archive**

Requirements, prototypes, testing and implementation

United Nations Framework Classification (UNFC) on ornamental stone resources