

Smart Soils: Smart Specialisation meets EU Soil Mission  
NATI00NS project



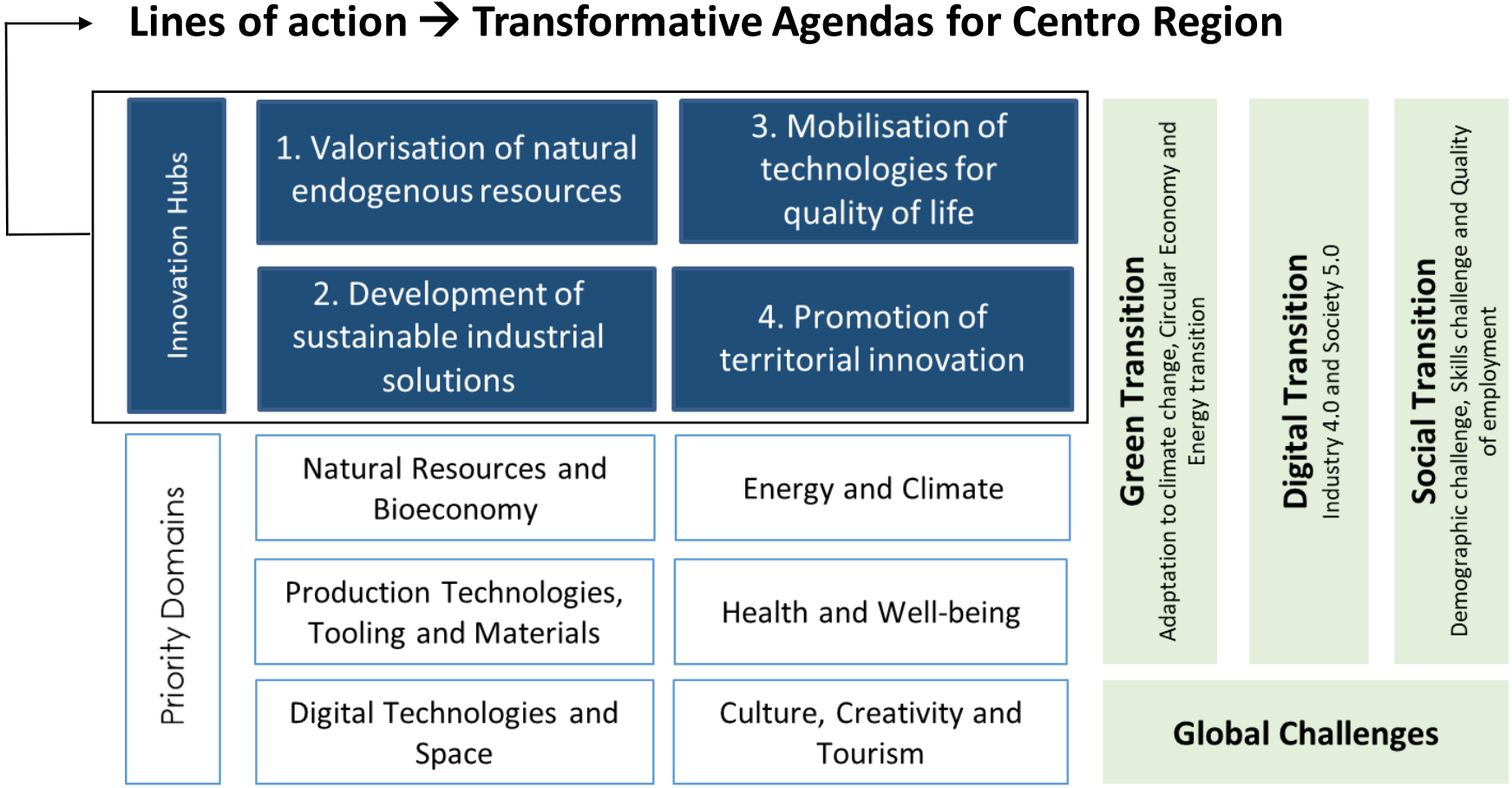
Centro Regional of Portugal  
**Regional Good Practice Post-industrial**  
**Regional Smart Specialisation Strategy**

24th January 2024, Online event

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# Centro Smart Specialisation Strategy – Centro S3



➡ **Are soils present in Centro S3?**

# Centro Smart Specialisation Strategy – Centro S3

Considering that Centro Region...

- ... represents 32% of Portugal mainland surface
- ... has the biggest forest area in Portugal mainland
- ... has the biggest agricultural area in Portugal mainland
- ... has the second biggest number of water bodies (surface and ground water) in Portugal mainland

and that...

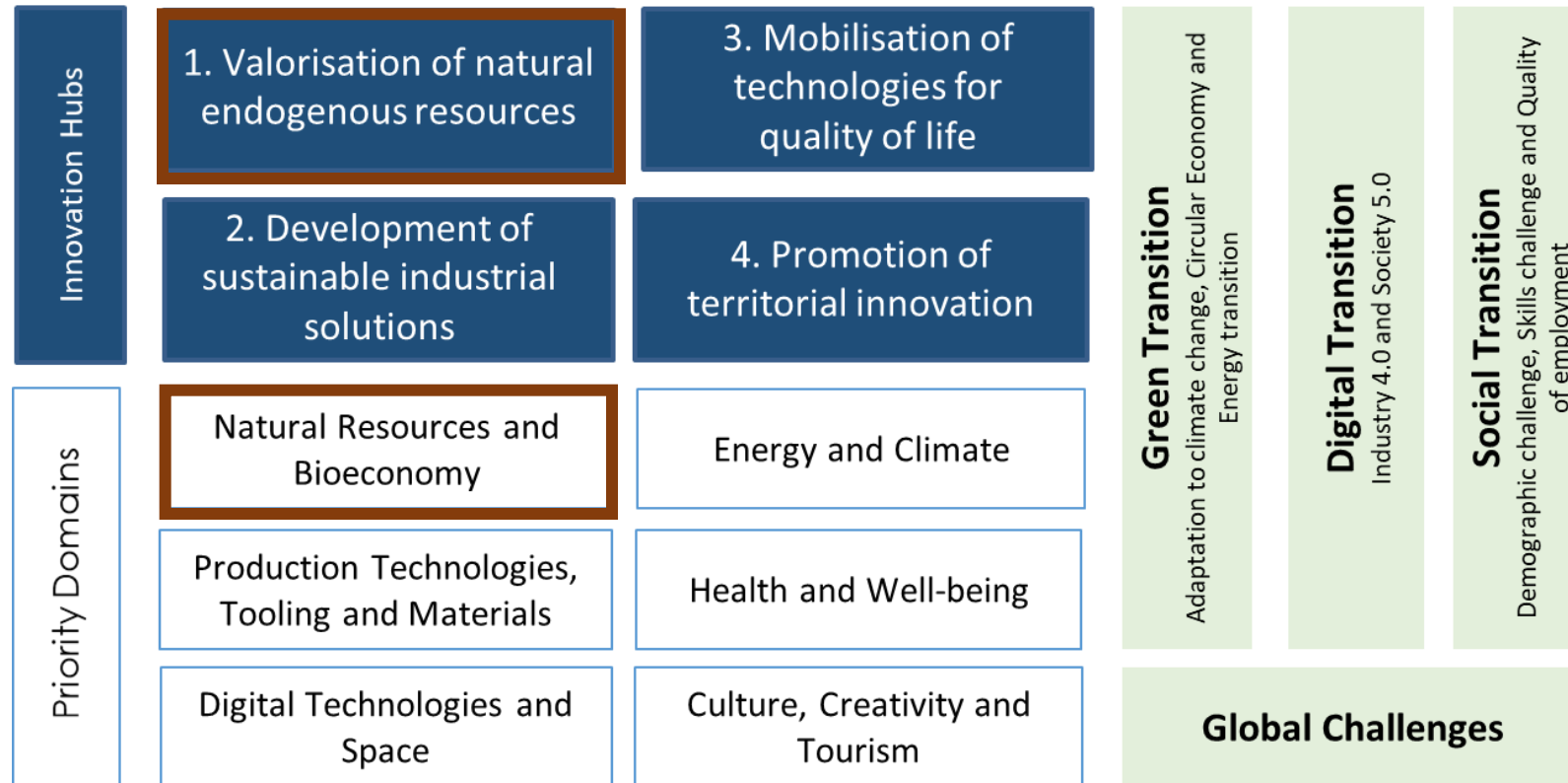
... the Region suffers from different structural challenges that are leading to the abandonment of rural areas and soils' desertification (climate changes - wildfires).

 **Soils are present in Centro S3!**

**WHY A MISSION  
ON SOIL**

**Life on Earth depends on healthy soils:** they are the basis of our food and provide other vital ecosystem services.

# Centro Smart Specialisation Strategy – Centro S3



1. Valorisation of natural  
endogenous resources

**1.a) Innovation on knowledge, mapping and monitoring of natural endogenous resources**

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**1.b) Innovation on preservation, protection and recovery of natural endogenous resources**

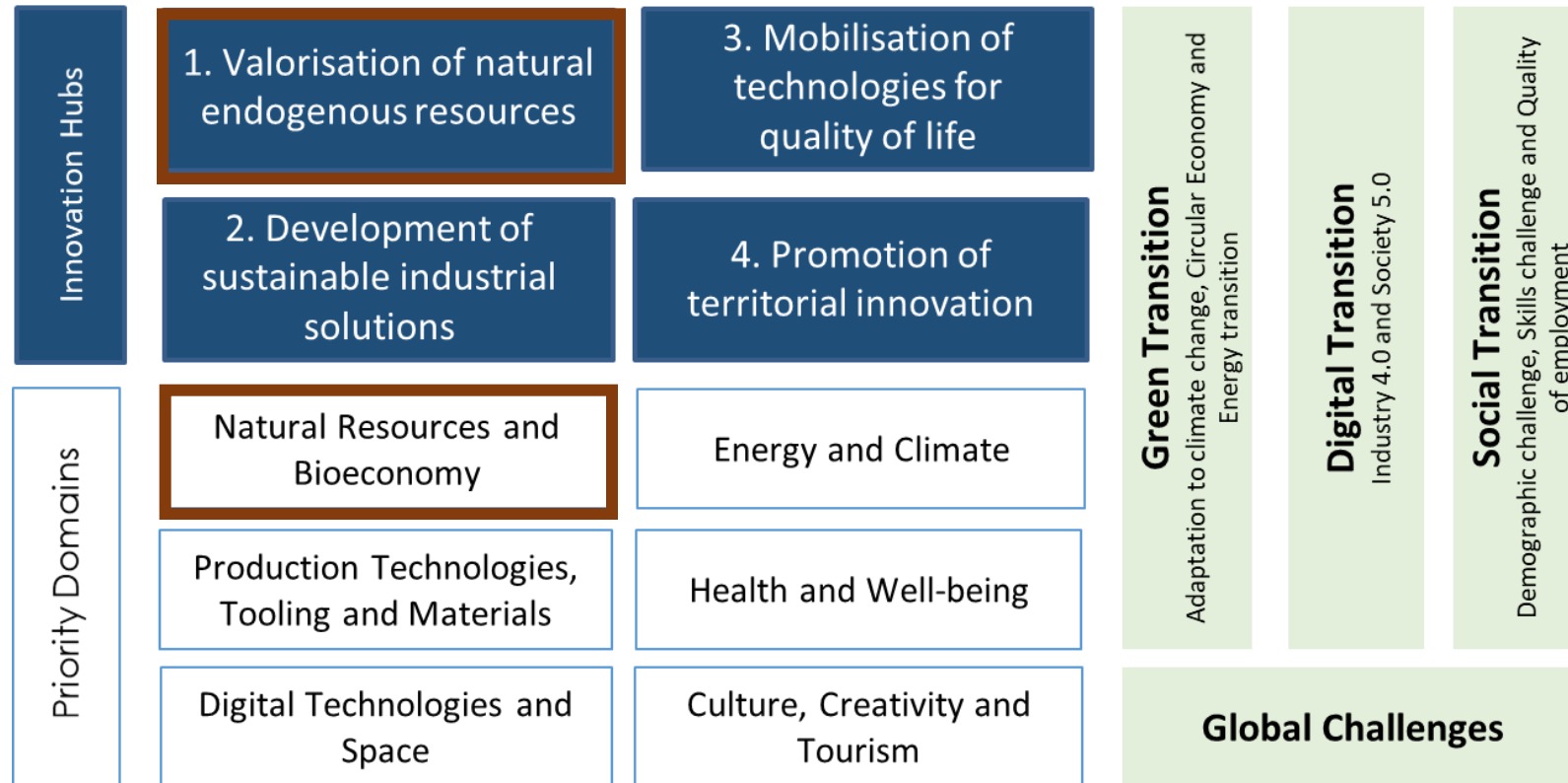
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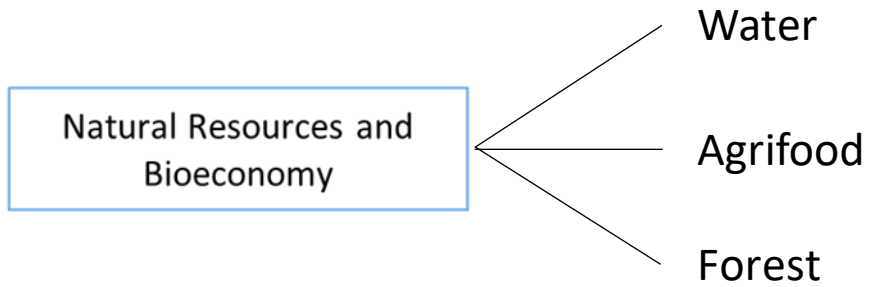
**1.c) Innovation on valorisation and circular and sustainable use of natural endogenous resources**

...

# Centro Smart Specialisation Strategy – Centro S3



Natural Resources and  
Bioeconomy



### **WATER – Relevant areas of intervention**

Smart and sustainable use of water and related systems | Watershed management | Hot springs | Sustainable fishing and aquaculture | Maritime and oceanic resources | Valorization of by-products | Blue biotechnology

### **FOREST – Relevant areas of intervention**

Smart and sustainable use and management of the forest | Valuing forest ecosystem services | Forest-based biotechnology | Precision Forest | Regenerative forest | Valuation of products and by-products | **Protection and formation of soil and its biodiversity** | **Diversification of land uses** | Biomaterials, biomolecules and green chemistry

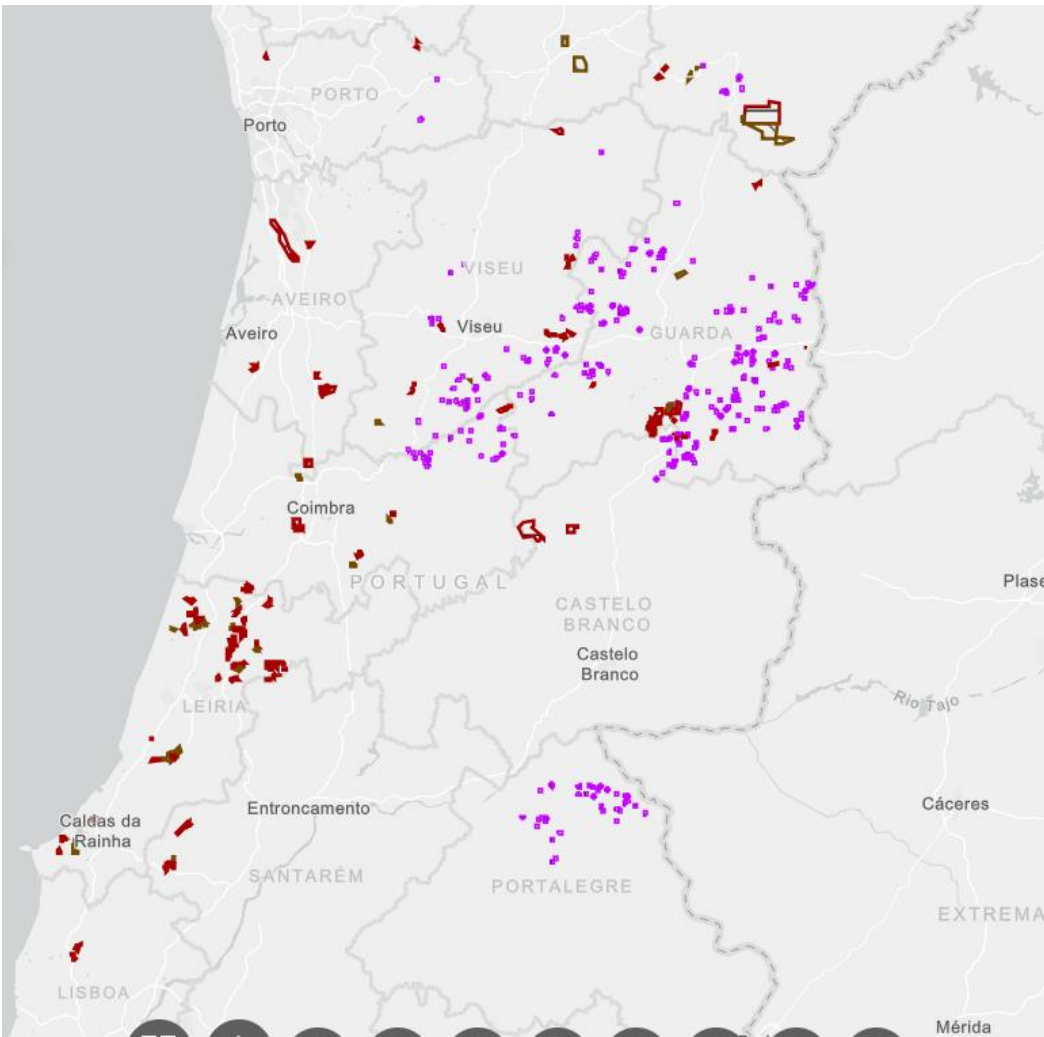
### **AGRIFOOD – Relevant areas of intervention**

Sustainable food systems | Food safety | Functional foods | Organic, sustainable and circular farming | Precision agriculture | Certified production | Food biotechnology | **Smart and efficient protection, use and management of soils** | Sustainable transformation and processing methods | Valuation of by-products and agrifood waste

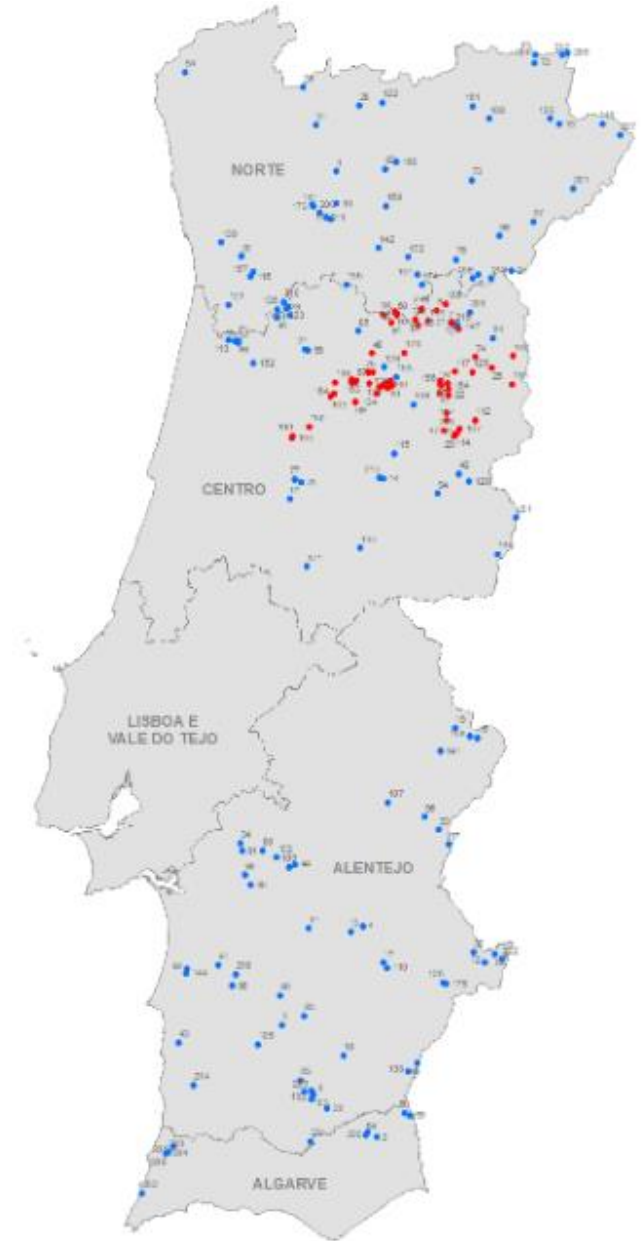
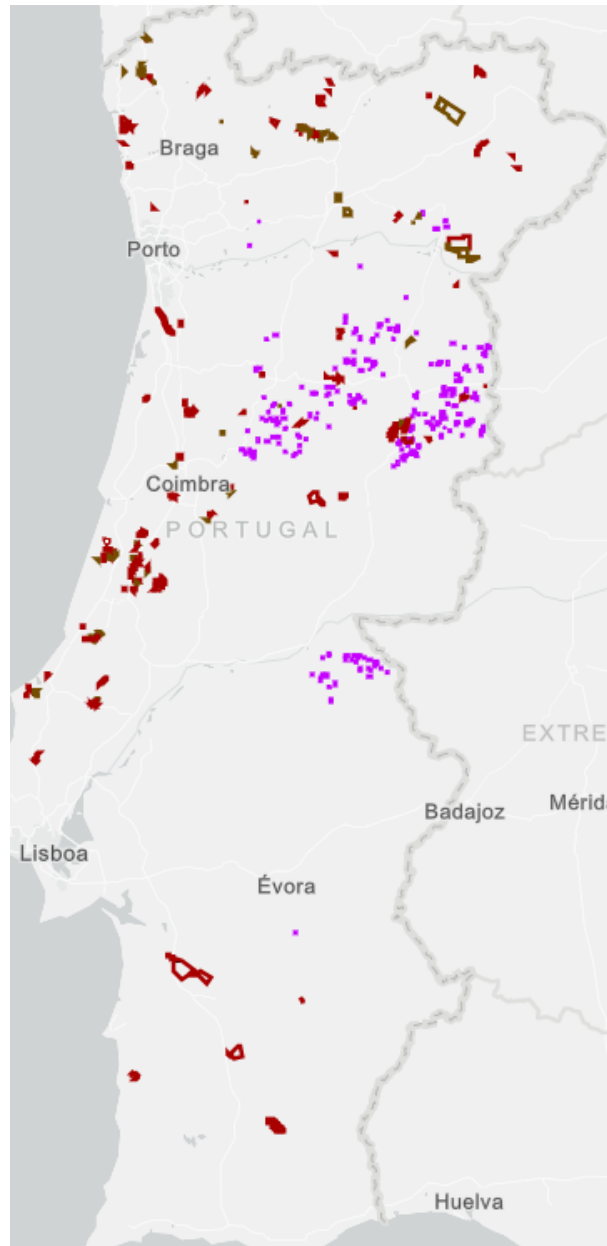


# Post-industrial

Good practice in the mining industry in Centro Region



Mining concession (exploration of mineral deposits)  
 Uranium occurrence (safeguard exploration)



Abandoned mining areas  
 Abandoned mining areas with radioactivity

# Post-industrial

Good practice in the mining industry in Centro Region

**ENVIRONMENTAL REMEDIATION OF THE URGEIRIÇA MINING AREA**

EDGAR CARVALHO - EDM