PERIN PORTUGAL IN EUROPE RESEARD AND INNOVATION NETWORK

WORKSHOP TEMÁTICO 2

MISSÕES NO HORIZONTE EUROPA: MISSÃO SAÚDE DOS SOLOS E ALIMENTAÇÃO

Sessão online de informação e de discussão com a comunidade nacional

16 de Junho | 15:15-16:15

A sessão terá início dentro de momentos. Por favor, aguarde com o microfone e o vídeo desligados. Esta sessão irá ser gravada apenas para efeitos de reporte. Os slides apresentados serão disponibilizados após o evento.







AGENDA

15:15-15:20 Boas-vindas

Maria João Fernandes, Agência Nacional de Inovação

15:20-15:35

Apresentação da Missão Solo e do seu Roadmap Teresa Pinto Correia, Universidade de Évora, Vice-Presidente do *Mission Board*, Missão Soil health and food

15:35-16:05 Interação com os *stakeholders* Moderado por Ana Sutcliffe, Agência Nacional de Inovação

16:05-16:15

Conclusões e encerramento

Teresa Pinto Correia, Universidade de Évora, Vice-Presidente do *Mission Board*, Missão *Soil health and* food

Pedidos para o bom funcionamento da sessão:

- Por favor, mantenha o microfone e o vídeo desligados.
- Quando quiser colocar uma questão, por favor, utilize APENAS o chat e identifique-se com primeiro e último nome e organização que representa
- O moderador da sessão irá selecionar as perguntas a colocar ao orador por ordem de chegada e/ou relevância para a sessão.
- · Se, devido a limitações de tempo, não for possível responder à sua questão, deverá endereça-la a <u>nadine.teles@ani.pt</u>.





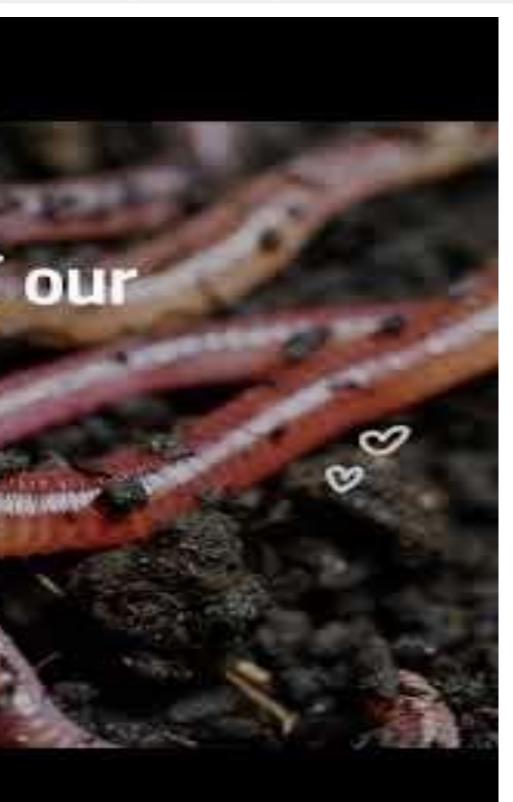
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Soil hosts most of our biodiversity













Horizon Europe MISSION BOARD FOR SOIL HEALTH AND FOOD

The Mission: Caring for soil is caring for life

Teresa Pinto Correia

This presentation is delivered by a member of a Horizon Europe Mission Board, which is an informal group of experts set up by the European Commission to provide advice for the identification and implementation of missions in the future Horizon Europe programme. The contents of the presentation do not represent the official views of the European Commission esearch and nor do they constitute a commitment of any kind on its behalf. Innovation



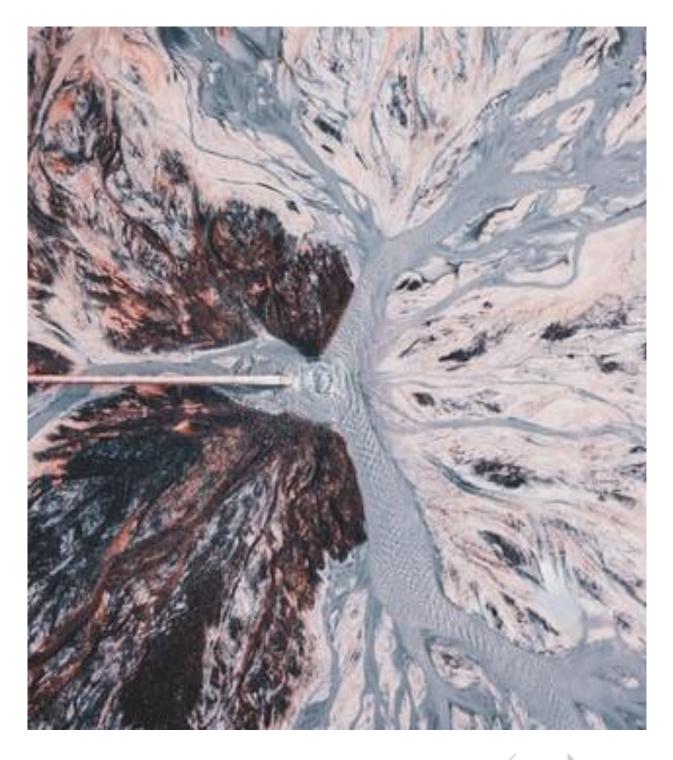
16 de Junho de 2020

Why do we have to act now?

Soils are threatened all over Europe and globally

For instance, in the EU:

- 2.8 million potential contaminated sites
- 65-75% of agricultural soils
 with nutrient inputs at levels
 risking eutrophication (excessive
 richness of nutrients)
- only 13% urban development on recycled urban land





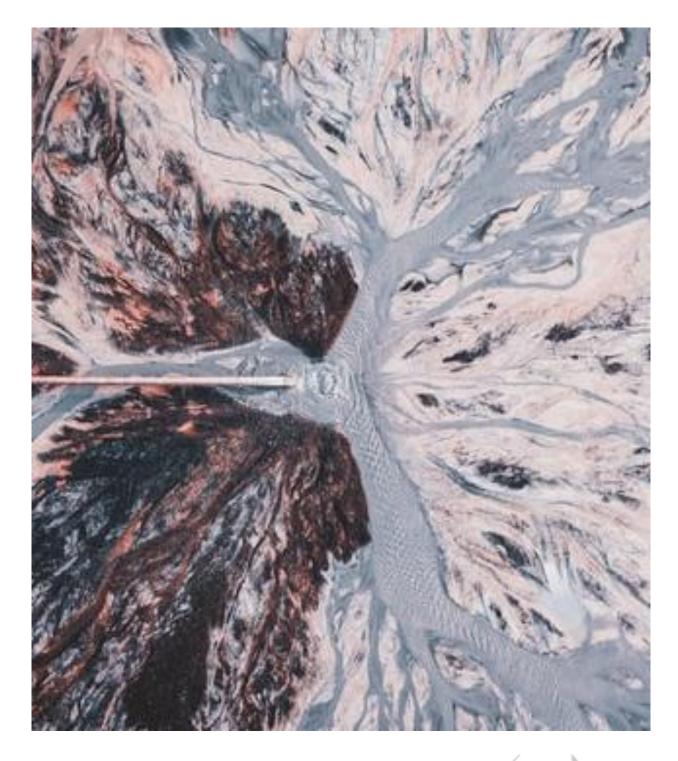


Why do we have to act now?

Soils are threatened all over Europe and globally

For instance, in the EU:

- 24% of land with unsustainable water erosion rates
- 23% of land with high density subsoil indicating compaction
- 25% of land at High or Very High risk to desertification in Southern Europe







Why do we have to act now?

The costs associated with soil degradation in the EU may exceed 50 billion € per year

The process of soil degradation can lead to a collapse of landscapes and ecosystems »» societies more vulnerable to extreme weather events, risks to food security and political instability. Land degradation is further exacerbated by the effects of climate change



Soil health may be lost quickly but is slow to restore. The time for action has already been delayed for too long. It is time to act.





Iropear ommission

What do we want to achieve with this Mission?



This goal corresponds to a **100% increase in healthy soils** in Europe in relation to now »» 60-70% of soils are unhealthy as a direct result of current management practices !

by 2030, at least 75% of all soils in each EU Member State are healthy, i.e. are able to provide essential ecosystem services

for healthy food, people, nature and climate

> ropean commission

Caring for soil is caring for life – what do we want to achieve with this Mission?

Tackle the issues that are threatening soils:

- 100% increase in healthy soils
- restore 50% of degraded land
- conserve soil organic
 carbon stocks (e.g. in
 forests, permanent pastures)
- stop soil sealing and increase re-use of urban soils







Caring for soil is caring for life – what do we want to achieve with this mission?

Tackle the issues that are threatening soils:

- reduce soil pollution: at least 25% area of EU farmland under organic agriculture, and 5-25% of land with reduced risk from eutrophication, pesticides, anti-microbials, etc.
- double the rate of restoration of polluted sites

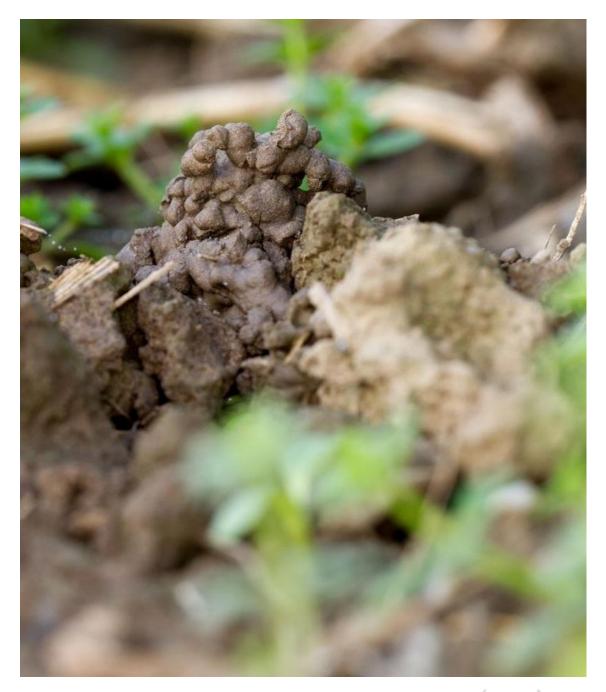




Caring for soil is caring for life – what do we want to achieve with this mission?

Tackle the issues that are threatening soils:

- prevent erosion on 30 to 50% of land
- reduce by 20-40% the global footprint of EU's food and timber imports on land degradation







The Mission Building Blocks

cross-scale, inter and a transdisciplinary Research and **Innovation programme;**

Living Laboratories (*experimental farms*) and Lighthouses (*demonstration farms*) within and across farms, forest, landscape and urban settings;

Independent advisory services for farmers and foresters

a robust soil monitoring programme by each Member State using agreed methodologies & selected indicators;

communication	
and	citizen
engagement	
embedd	ed into
all activi	ties

Supportive Environment: policy attitudes, information platforms



- framework, consumer
 - mechanisms market



European <u>`ommission</u>

Cooperation across sectors and citizen engagement at the core of the mission



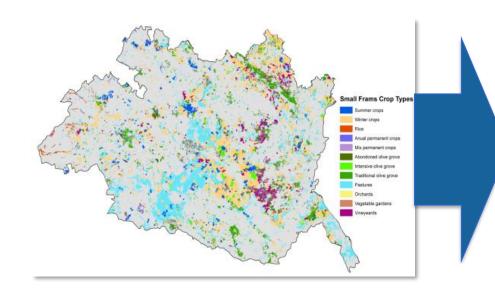
Ambition »» to establish in the first years of the Mission at least five, preferably 10 living labs and/or lighthouses in each of the regions of the EU. This will result in 1000 – 2000 living labs and lighthouses as ropear incubators and demonstrators of change.

to create knowledge

to test and demonstrate solutions

Research and Innovation (R&I)

- Knowledge exists within individual disciplines, but there is hardly any integrated knowledge on soil health
- **Research tailored to local/regional circumstances & linked to living** labs for more fundamental work.
- Interdisciplinary teams with a systemic approach working in a transdisciplinary mode.
- Integration of natural and social sciences at an equal level is crucial.



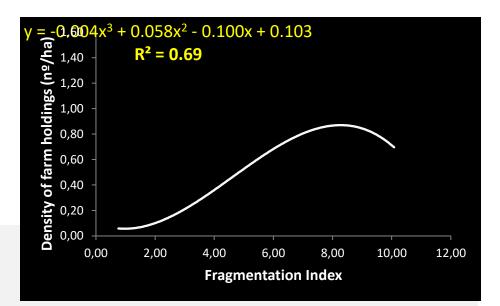
Scales: plot, farm, landscape, regional, national, global, food systems

Monitoring

6 + 2 selected indicators

- **Presence of soil pollutants, excess nutrients and salts**
- 2) Vegetation cover;
- 3) Soil organic carbon;
- 4) Soil structure including soil bulk density and absence of soil sealing and erosion;
- 5) Soil biodiversity;
- 6) Soil nutrients and acidity (pH) which we have matched to individual issues
- 7) landscape heterogeneity (composition and configuration) 8) area and composition of forest and other wooded lands

An unhealthy soil is present if any indicator is below an agreed threshold, defined for that soil type, land use and climate zone



ropean mmission

Enabling Environment

CAP new payment schemes, with long term contracts, for more diverse, regenerative and systems-based approaches;

De-risking and guarantee mechanisms for those who engage in transformation towards increased soil health;

Regulations and taxes that reward goods produced in a soil protective manner;

Context specific advisory services to individual land managers

Online, easy to use, multiple platforms to access and share knowledge and experiences;

Changes across food systems, including at transformation, retail and consumer level, to provide the 'market pull' to drive the changes needed;

Public and private sector investments in R&D to foster sectoral innovations, cityregion relations and regional food systems, waste management systems.

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Soil health and food – at the right time!

Mission area is critical to **meet global political commitments** such as the Paris Agreement and Sustainable Development Goals

And it is highly relevant for new Commission priorities, notably the **Green Deal:** Farm to Fork and Biodiversity Strategies

Land/soil management is relevant to major policy objectives on:

- food and nutrition security
- climate change mitigation
- protection of biodiversity
- reduction of pollution
- vibrant rural areas

A Union that strives for more

My agenda for Europe

By candidate for President of the European Commission Ursula von der Leyen



POLITICAL GUIDELINES FOR THE NEXT **EUROPEAN COMMISSION 2019-2024**

Steps towards Horizon Europe Strategic Plan & Missions in the Work Programme





Do you want to know more?

Join the mission activities, have your say and spread the message

EUSurvey
 <u>https://ec.europa.eu/eusurvey/runner/mission-soil-health-and-food</u>

 Mission soil health and food webpage <u>https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/mission-area-soil-health-and-food_en</u>

EIP-AGRI news
 <u>https://ec.europa.eu/eip/agriculture/en/news/soils-matter</u>

 DG AGRI – Soil matters for our future <u>https://ec.europa.eu/info/news/soil-matters-our-future-2019-dec-05_en</u>







European Commission

Obrigado ! Thank you!

HorizonEU #EUmissions #MissionSoil

http://ec.europa.eu/horizon-europe

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No seguimento da apresentação anterior, gostaríamos que respondesse a um breve questionário sobre a Missão*

*As respostas serão processadas de forma anónima









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Por favor, coloque as suas questões no *chat* e identifique-se com primeiro e último nome e organização que representa







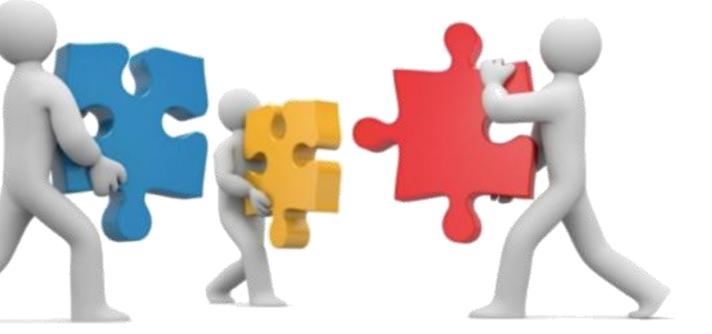
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Conclusões e encerramento









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Muito obrigada pela vossa presença! Para mais questões, por favor contacte <u>nadine.teles@ani.pt</u>









D European Union, 2020