



Bundesministerium
für Bildung
und Forschung



NKS Bioökonomie
und Umwelt
Nationale Kontaktstelle zum
EU-Programm Horizont Europa

Technische Hinweise & Übersicht über den Ablauf

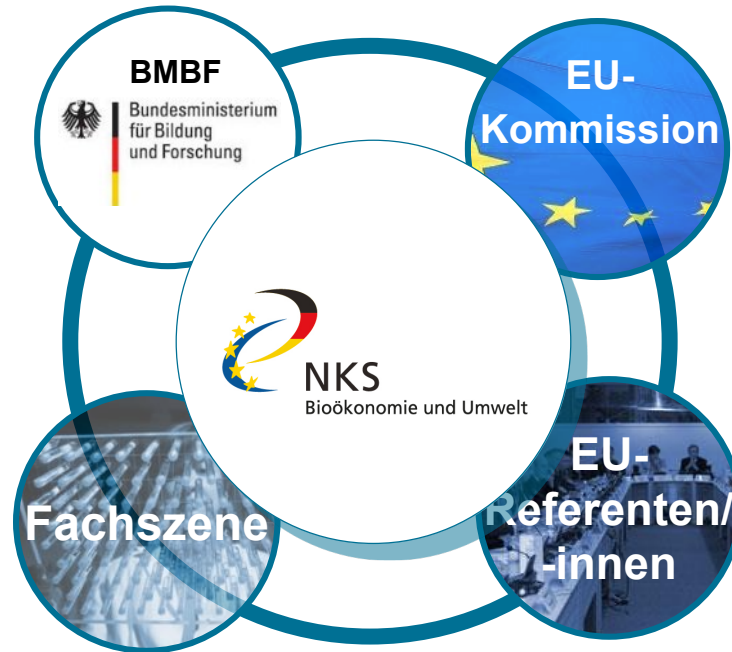
Mission: A Soil Deal for Europe

Stefanie KLUGE / Dr. Michaela PÖTER

www.nks-bio-umw.de



NKS Bioökonomie und Umwelt





Wenn Sie Interesse an einem kostenlosen, individuellen Beratungstermin haben, schicken Sie uns bitte eine informelle Anfrage per E-Mail an:

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Newsletteranmeldung: <https://www.nks-bio-umw.de/service/newsletter>



Missionen in Horizont Europa – Ihre Fördermöglichkeiten



Do. 13.01.

Jeweils

[Mission Böden](#)

Di. 25.01.

10:00 –

[Mission Klima](#)

Mi. 26.01.

ca. 12:00

[Mission Krebs](#)

Do. 27.01.

[Mission Städte](#)



Infotage der EU-Kommission zu den EU-Missionen



Wann? 18. – 19. Januar 2022



Wer? EU Kommission



Was? Informationen zu den Europäischen Missionen



Infos? <https://www.nks-bio-umw.de/aktuelles/veranstaltungen/infotage-eu-kommission-eu-missionen>



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NKS Bioökonomie
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Nationale Kontaktstelle zum
EU-Programm Horizont Europa

Mission: A Soil Deal for Europe

100 living labs and lighthouses to lead the transition towards healthy soils by 2030

Online Veranstaltung | 13. Januar 2022

Dr. Rolf Stratmann

horizont-europa.de



Programm - Ablauf

- Was sind EU Missionen?
- Entwicklung von der Idee bis zur Mission
- EU Politiken
- Herausforderungen und Hauptziel
- Implementierungsplan (Ziele, Interventionslogik, Zeitplanung)
- Aktuelles Arbeitsprogramm
- Präsentation zum Projekt Soil Mission Support





Einordnung der Mission in ‚Horizont Europa‘





Missionen in Horizont Europa

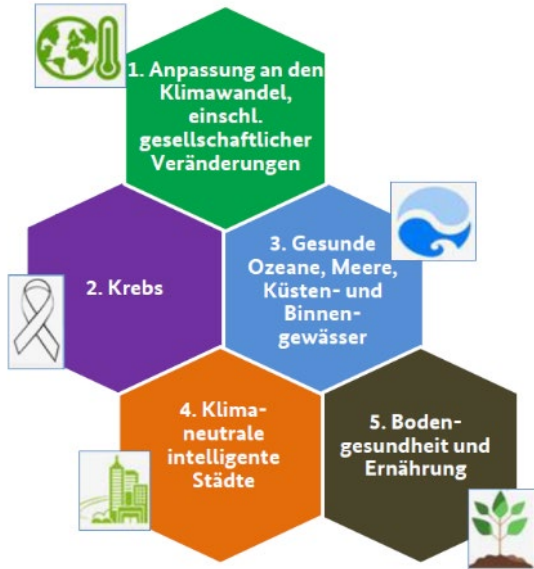
- **Inspiration:** Apollo 11 Mission mit dem Ziel, einen Menschen zum Mond zu bringen
- **Anspruch:** Lösungen für einige der größten Herausforderungen liefern
- **Mandat:** Jede Mission soll eine große Herausforderung der Gesellschaft innerhalb einer definierten Zeit und mit definiertem Budget lösen.
- Missionen sind Cluster-übergreifend



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Missionen in Horizont Europa



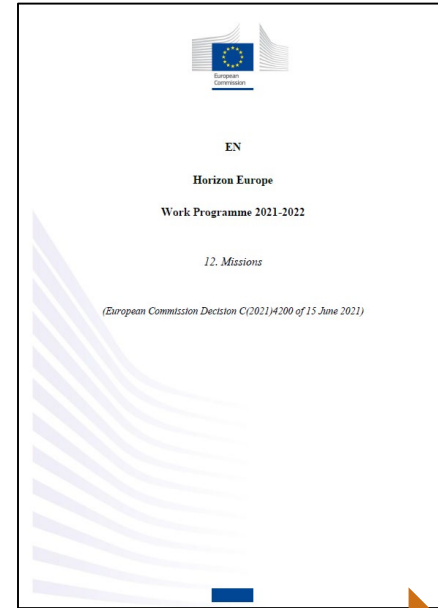
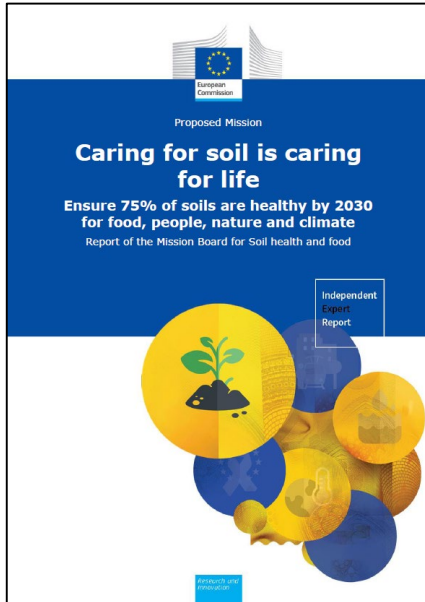
- Fünf Missionsbereiche wurden ausgewählt
- Für diese wurden Expertengremien – Mission Boards – etabliert um konkrete Missionen zu erarbeiten
- Die fünf Missionen wurden am 30. September 2021 offiziell gestartet.
- Die Historie, die Berichte und Vorschläge der Mission Boards, die Implementierungspläne sowie weitere Informationen können auf der offiziellen EU-Seite recherchiert werden:
 - https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/missions-horizon-europe_en



Concrete solutions for our greatest challenges



Die Entwicklung der Bodenmission: Vom Arbeitstitel „Soil Health and Food“ bis zur Implementierung



Auf dem Weg zu gesunden Böden in Europa

Quellen: EU Kommission



Weitere Entwicklungen und relevante Politikstrategien der EU



H2020-FNR-04-2020: Towards a European research and innovation roadmap on soils and land management

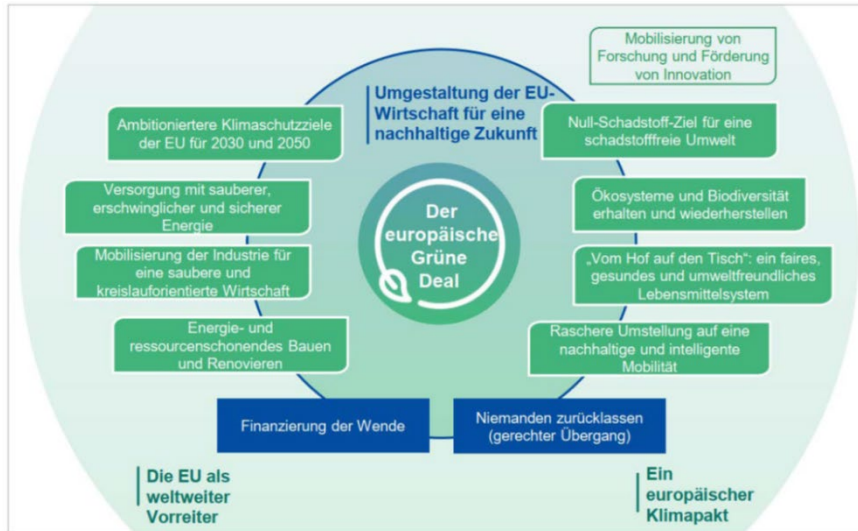
HORIZON-MISS-2021-SOIL-01-01: Preparing the ground for healthy soils: building capacities for engagement, outreach and knowledge

[EU Green Deal](#), insbesondere die Strategien zur [Biodiversität](#) und „[Vom Hof auf den Tisch](#)“; [Bodenstrategie](#);



Bezug zum EU – Green Deal ^{1/2}

Schutz der Umwelt und der Ozeane im Rahmen des Green Deals



Prioritäten des ‚European Green Deal‘

- gesunde Ozeane, Meere, Küsten- und Binnengewässer,
- Anpassung an den Klimawandel und gesellschaftlicher Wandel

Maßnahmen zur Umsetzung

- Schutz der biologischen Vielfalt und Ökosysteme
- Verringerung der Luft-, Wasser- und Bodenverschmutzung
- Übergang zu einer Kreislaufwirtschaft
- Verbesserung des Abfallmanagements
- Gewährleistung der Nachhaltigkeit unserer blauen Wirtschaft und unserer Fischereisektoren



Bezug zum EU – Green Deal 2/2

Beispiele für Ziele des Green Deals mit Bezug zur Bodengesundheit sowie weitere EU Politiken & Strategien

By 2030

- 25% of land under organic farming
- Reduce the overall use and risk of chemical pesticides by 50% and the use of more hazardous pesticides by 50%
- Reduce fertilizer use by at least 20%
- Reduce nutrient losses by at least 50%
- Reduce by 30% microplastics released into the environment
- Reduce net greenhouse gas (GHG) emissions by at least 55% compared to 1990 levels.

By 2035

- the EU should aim to reach climate neutrality in the land use, forestry & agriculture sectors.

Mission part of:

- Farm to Fork Strategy
- EU Biodiversity Strategy for 2030
- Climate Adaptation Strategy
- Forest Strategy
- Zero Pollution Action Plan for air, water and soil
- Organic Action Plan
- Long term vision for rural areas
- Communication on carbon farming (upcoming)
- new Soil Strategy





Herausforderungen



- **2,8 Millionen potenziell kontaminierte Standorte**, aber nur 24 % der Standorte sind inventarisiert und bis 2018 sind nur 65.500 saniert worden;
- 83 % der landwirtschaftlichen Böden mit **Pestizidrückständen**;
- 65–75 % der landwirtschaftlichen Böden mit Nährstoffeinträgen in einem Umfang, der zu einer **Eutrophierung von Böden** und **Beeinträchtigung der Artenvielfalt** führt;
- nur 13 % der **städtischen Bebauung** erfolgt auf wiedergewonnenen städtischen Flächen;
- Ackerböden verlieren 0,5 % Kohlenstoff pro Jahr, und 50 % der Torfmoore sind **entwässert** und **verlieren Kohlenstoff**;
- 24 % der Flächen mit **unhaltbaren Wassererosionsraten**;
- 23 % der Flächen mit einer hohen **Verdichtung des Unterbodens**;
- 25 % der Flächen in Süd-, Mittel- und Osteuropa sind stark oder sehr stark von **Wüstenbildung** bedroht.
- 520 Millionen Tonnen **Bodenaushub**, die jährlich **als Abfall behandelt** werden, was die **größte Abfallquelle in der EU** ist, obwohl der Großteil nicht kontaminiert ist.



Herausforderungen und die Möglichkeiten



HERAUSFORDERUNGEN

- **60-70% der Böden** in der EU gelten als ungesund;
- Etwa **70 % der landwirtschaftlichen Flächen** in der EU werden **übermäßig mit Nährstoffen belastet**, mit negative Auswirkungen auf die Wasserqualität und die Artenvielfalt;
- Etwa **25 % der Böden** in Süd-, Mittel- und Osteuropa sind stark oder sehr stark vom Risiko der **Wüstenbildung** bedroht;
- Die Verschlechterung der Bodenqualität kostet die EU mehr als **50 Milliarden €** pro Jahr.

MÖGLICHKEITEN

- Etablierung wirksamer Partnerschaften für den **Bodenschutz** und die **Bodensanierung**;
- Beitrag zu nachhaltiger Land- und Forstwirtschaft, gesunden und sicheren Lebensmittelsystemen, Klimaresilienz, biologischer Vielfalt und anderen **Zielen des Green Deal**;
- Unterstützung des Bestrebens der EU, eine Führungsrolle bei der Erreichung der **Ziele der nachhaltige Entwicklung (SDG)** einzunehmen.



Hauptziel

Etablierung von 100 Living Labs und Leuchttürmen, die den Übergang zu gesunden Böden ermöglichen

ACTIONS



The Horizon Europe programme will provide **€320 million** in seed funding during the period 2021-23 to help deliver on the mission;



Launch the first wave of **living labs in regions all over Europe**;



Set up an **international research consortium** on soil carbon sequestration and establish a **coordination platform** to oversee the network of 100 living labs and lighthouses;

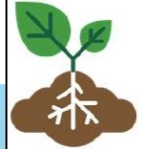


Launch a **campaign on soil health** by the European Innovation Partnership on Agriculture (EIP-AGRI) with a focus on the farming and forestry sectors.



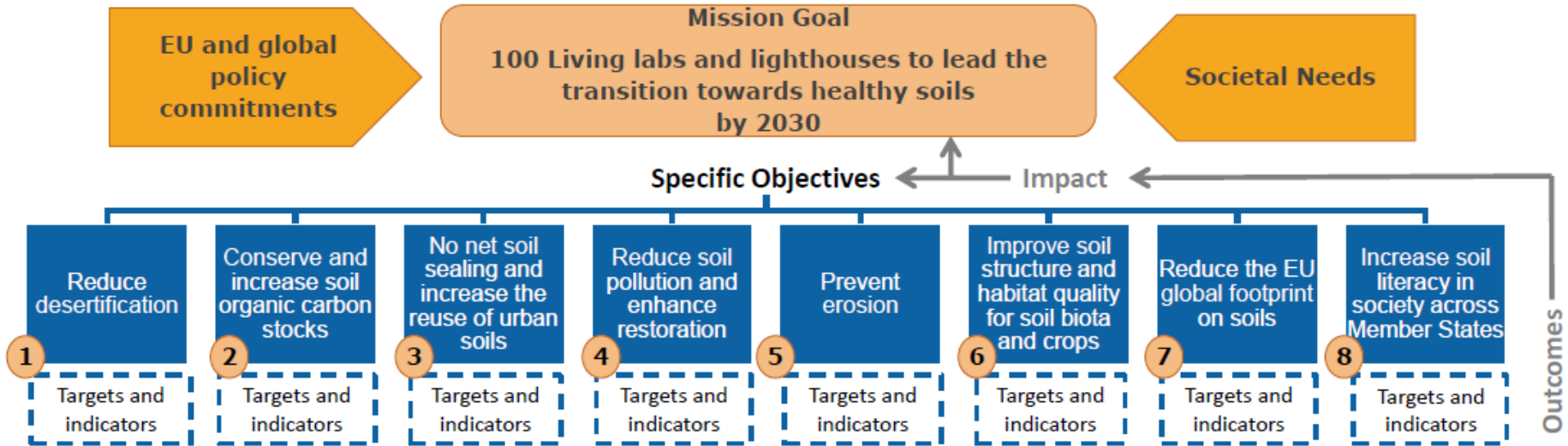
Implementierungsplan

- Hauptziel sowie spezifische und operative Ziele
- Beitrag zu EU Politiken
- Erwartete Ergebnisse und Impact sowie Monitoring
- Interventionslogik und Zeitrahmen
- Instrumente, Strukturen, Maßnahmen (HE, GAP, Soil Mission Support, ...)
- Budgets





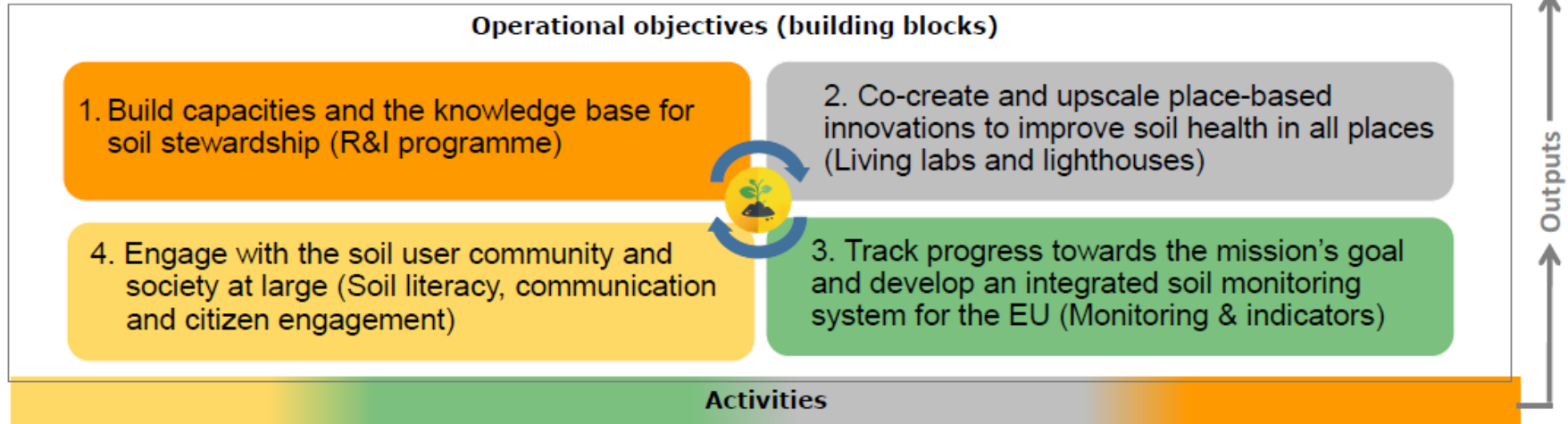
Implementierungsplan: Interventionslogik ^{1/2}



Quelle Grafik: Europäischen Kommission



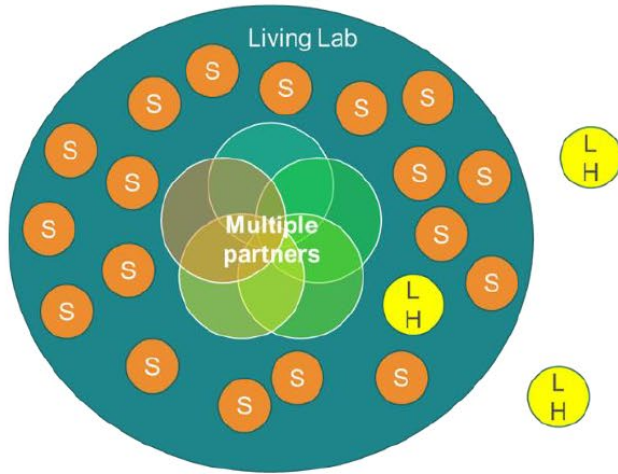
Implementierungsplan: Interventionslogik ^{2/2}



Quelle Grafik: Europäischen Kommission



Visualisierung von Skalen und Aktivitäten der Living Labs und Leuchttürme

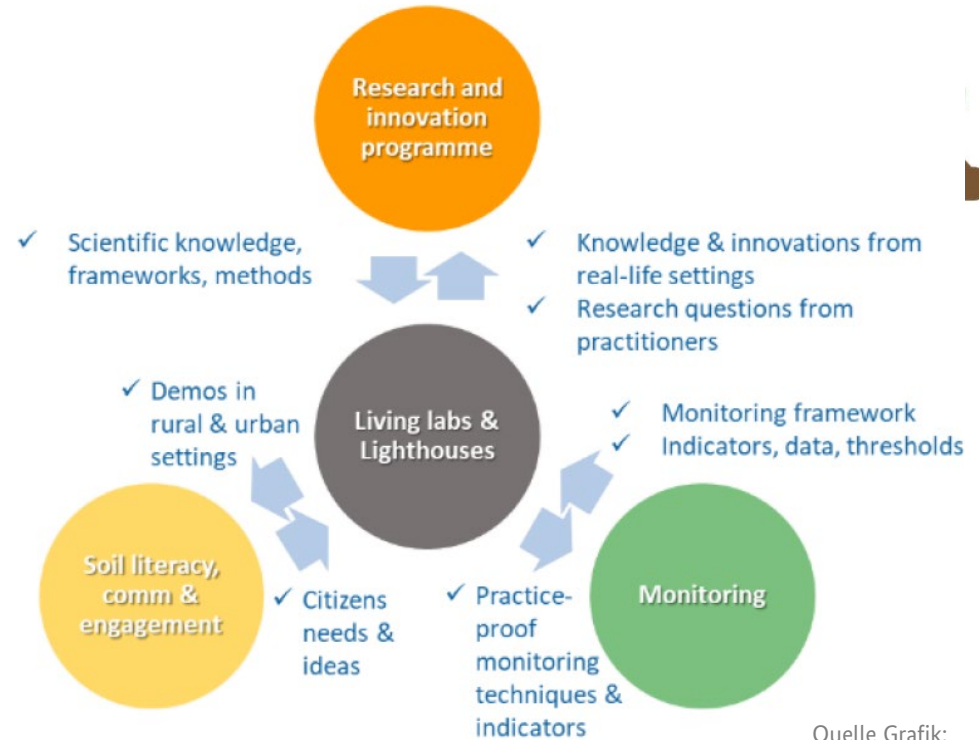


	Scale	Activities	Performance in soil health improvement
Living lab	Regional/sub-regional landscape	Coordinate experimentations & partners	In progress at landscape scale
Living lab experimentation site	Local (one farm/forest, one urban site, etc.)	Co-create knowledge and innovations	In progress on the site
Lighthouse	Local (one farm/forest, urban site.)	Experiment and/or demonstrate	Demonstrated high performance

Quelle Grafik:
Europäischen Kommission



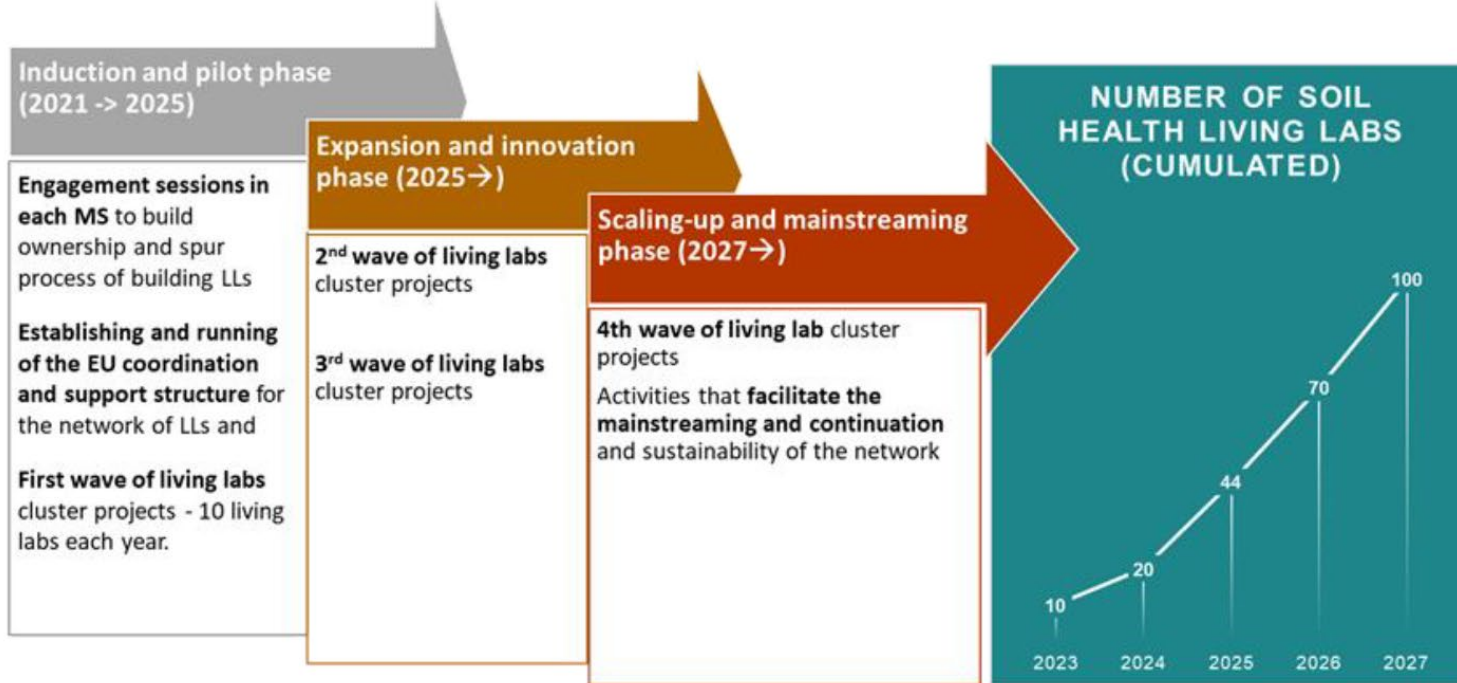
Living Labs und Leuchttürme in Relation zu den Aktivitäten und spezifischen Zielen



Quelle Grafik:
Europäischen Kommission



Zeitplan Implementierungsphasen



Quellen Grafik:
Europäischen Kommission



Arbeitsprogramm ^(1/3)

Call - Research and Innovation and other actions to support the implementation of a mission in the area of Soil health and Food



Veröffentlichung des Arbeitsprogramms	15. Dezember 2021
Öffnung des Calls	22. Dezember 2021
Einreichfrist	24. März 2022
Gesamtbudget des Aufrufs	62 Mio. €
Anzahl der zu fördernden Projekte (5 RIAs, 3 CSAs)	12
1x Public Procurement (Implementierung) und 1x Direct Action Grant (JRC, Monitoring)	5 Mio. €, (3 und 2)



Förderinstrumente



RIA: Forschungs- und Innovationsmaßnahmen

- Verbundforschung
- Erwerb neuer Erkenntnisse und/oder Prüfen der Realisierbarkeit neuer Lösungen
- Grundlagen- bzw. anwendungsbezogene Forschung bis zu Validierung an kleinen Prototypen im Labor

IA: Innovationsmaßnahmen CSA: Koordinierungs- und Unterstützungsmaßnahmen

- Verbundforschung
- Unmittelbares Ziel ist die Entwicklung veränderter / verbesserter Produkte, Verfahren, Dienstleistungen
- Prototyping, Testung, (großmaßstäbliche) Validierung, Demonstration, Piloting, Marktreplication
- (Einzelanträge oder) Verbünde
- Maßnahmen zur Verwirklichung der Ziele des Programms (z. B. Verbreitung, Vernetzung, Studien)
- Keine Forschung und Innovation



Multi-actor approach*

- Forschung und Innovation unter maßgeblicher Beteiligung von relevanten Unternehmen bzw. Stakeholdern und Endnutzern → Nachfragebasierte F&I
- Eindeutige Einbeziehung von Nicht-Forschungsbeteiligten in allen Phasen des Projekts
- Alle Akteure - einschließlich der Endnutzer - sollten als Partner in das Projekt einbezogen werden
- Beteiligung von Akteuren an Kommunikations- und Verbreitungsaktivitäten
- Mögliche Teilnahme von [EIP-Agri-Fokusgruppen](#) und/oder [operativen Gruppen](#)

* Die vollständige Definition der EU-Kommission aus dem Missions-Arbeitsprogramm 2021-22 (Seiten 172 bis 174) ist auf den Folien am Ende dieser Präsentation enthalten



Arbeitsprogramm (2/3)

Call - Research and Innovation and other actions to support the implementation of a mission in the area of Soil health and Food



Topic	Type of action	Budget [Mio. €]
HORIZON-MISS-2021-SOIL-02-01: From knowledge gaps to roadmaps on soil mission objectives	CSA	5
HORIZON-MISS-2021-SOIL-02-02: Validating and further developing indicators for soil health and functions	RIA	12
HORIZON-MISS-2021-SOIL-02-03: Linking soil health to nutritional and safe food	RIA	7
HORIZON-MISS-2021-SOIL-02-04: Social, economic and cultural factors driving land management and land degradation	RIA	10; 2 projects



Arbeitsprogramm (3/3)

Call - Research and Innovation and other actions to support the implementation of a mission in the area of Soil health and Food



Topic	Type of action	Budget [Mio. €]
HORIZON-MISS-2021-SOIL-02-05: Incentives and business models for soil health	RIA	10; 2 projects
HORIZON-MISS-2021-SOIL-02-06: Engage with and activate municipalities and regions to protect and restore soil health	CSA	10; 3 projects; 60.000€ to 3 rd parties
HORIZON-MISS-2021-SOIL-02-07: National engagement sessions and support to the establishment of soil health living labs	CSA	3
HORIZON-MISS-2021-SOIL-02-08: Next generation soil advisors	RIA	5

Übersicht und Zuordnung der Topics zu den operationellen Zielen

Forschungs- und Innovationsprogramm	Inst.
HORIZON-MISS-2021-SOIL-02-01: From knowledge gaps to roadmaps on soil mission objectives	CSA
HORIZON-MISS-2021-SOIL-02-03: Linking soil health to nutritional and safe food	RIA
HORIZON-MISS-2021-SOIL-02-04: Social, economic and cultural factors driving land management and land degradation	RIA
HORIZON-MISS-2021-SOIL-02-05: Incentives and business models for soil health	RIA
Living Labs und Leuchttürme	
HORIZON-MISS-2021-SOIL-02-07: National engagement sessions and support to the establishment of soil health living labs	CSA
Monitoring	
HORIZON-MISS-2021-SOIL-02-02: Validating and further developing indicators for soil health and functions	RIA
Bodenkenntnis, Kommunikation und bürgerschaftliches Engagement	
HORIZON-MISS-2021-SOIL-02-06: Engage with and activate municipalities and regions to protect and restore soil health	CSA
HORIZON-MISS-2021-SOIL-02-08: Next generation soil advisors	RIA



Topic: HORIZON-MISS-2021-SOIL-02-01: From knowledge gaps to roadmaps on soil mission objectives

Typ: Coordination and Support Action; Budget: 5 Mio. €



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- improved understanding of main gaps in our knowledge; causes, consequences, drivers, barriers
- improved capacities to assess potential trade-offs
- establishment of dynamic roadmaps to support the development and coordination of a coherent portfolio of R&I and other activities for each mission objectives
- integrate the needs from different disciplines and sectors and address various soil types, land uses and climatic zones across Europe
- increased capacities to develop, monitor and evaluate the mission's activities



Topic: HORIZON-MISS-2021-SOIL-02-02: Validating and further developing indicators for soil health and functions 1/2

Typ: Research and Innovation Actions; Budget: 12 Mio. €



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- Help develop and implement a harmonised reporting structure at EU, national and local levels for soil health.
- Test the eight indicators proposed by the mission board against their suitability to measure in a reliable way the status and changes in soil health.
- Identify alternative indicators where the ones proposed by the mission board do not prove to be appropriate (e.g. some indicators may take a long time to show changes).



Topic: HORIZON-MISS-2021-SOIL-02-02: Validating and further developing indicators for soil health and functions 2/2

Typ: Research and Innovation Actions; Budget: 12 Mio. €



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- Identify proxies for soil health, which are “easier” to monitor or more reactive to change (“next generation indicators”).
- Harmonize the proposed indicators for a range of soil types, land uses and climate zones in the EU.
- Demonstrate the link between soil indicators and soil functions/ecosystems services, beyond agricultural soils.



Topic: HORIZON-MISS-2021-SOIL-02-03: **Linking soil health to nutritional and safe food**

Typ: Research and Innovation Actions; Budget: 7 Mio. €



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- Gain further understanding of the interlinkages between soil health and three food quality-related characteristics of agri-food products: their nutritional composition, their tastiness and their safety;
- Elucidate the current state of knowledge on the nexus of soils, food and human health and identify research and innovation areas where gaps need to be filled.
- Catalyse interdisciplinary collaboration as a holistic perspective (including medical researchers, innovators and practitioners).
- Investigate how well current funding protocols address soils and human health research and innovation needs..
- Provide conclusions and recommendation for future R&I



Topic: HORIZON-MISS-2021-SOIL-02-04: Social, economic and cultural factors driving land management and land degradation ^{1/2}

Typ: Research and Innovation Actions; Budget: 10 Mio. €; 2 Projekte á 5 Mio. €



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- in-depth investigation of the role of the following factors in soil health and land degradation: economic (e.g. policy instruments, price of agricultural products, income, land markets and prices); social aspects (e.g. to social cohesion, civil society, inequality, population density, farm structures, rural economy, farm demography); cultural aspects (e.g. values and norms, governance and public institutions, environmental awareness, product preferences, rural cultures, education);
- identify the most important aspects that drive land management and land degradation with a view to elaborate integrated approaches, policies and strategies contributing to lifting the constraints impeding soil health recovery and land improvement and enable sustainable land management;



Topic: HORIZON-MISS-2021-SOIL-02-04: Social, economic and cultural factors driving land management and land degradation 2/2

Typ: Research and Innovation Actions; Budget: 10 Mio. €; 2 Projekte á 5 Mio. €



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- take account of the diversity of land uses (agriculture, forestry, abandoned land, residential, mining and industry, recreational, etc.) and of geographical diversity in the EU;
- work in a interdisciplinary manner and involve the effective contribution of social sciences and humanities (SSH) disciplines (including economics, sociology, history, geography);
- mobilise on-going H2020 or HE and build on their results, in particular: projects financed under H2020 RUR-03-2018 (CONSOLE , Contract2.0 and EFFECT) and, as relevant, HE projects financed under topic HORIZON-CL6-2021-GOVERNANCE-01-13 “Modelling land use and land management in the context of climate change”.



Topic: HORIZON-MISS-2021-SOIL-02-05: Incentives and business models for soil health 1/2

Typ: Research and Innovation Actions; Budget: 10 Mio. €; 2 Projekte á 5 Mio. €;
Multi-Actor Approach



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- detailed analysis of existing models for creating incentives and generating revenues from healthy soils. Incentives to promote:
 - sustainable soil management across various land uses;
 - products and consumption taking into account a lower soil footprint;
 - the reuse of land and reducing soil sealing;
- showcase “good examples” for investment in soil health and “innovators” that lead the transition towards sustainable soil practices
- co-design with stakeholders “new” models for soil health where existing ones do not sufficiently cover the manifold needs



Topic: HORIZON-MISS-2021-SOIL-02-05: Incentives and business models for soil health 2/2

Typ: Research and Innovation Actions; Budget: 10 Mio. €; 2 Projekte á 5 Mio. €;
Multi-Actor Approach



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- provide testing grounds for soil business cases with broad engagement of stakeholders
- identify avenues for scaling up action on soil health and making sustainable soil management profitable for farmers, foresters, businesses, municipalities and other actors;
- develop material and carry out promotion events and (a) campaign(s) to raise awareness regarding opportunities for soil investments.



Topic: HORIZON-MISS-2021-SOIL-02-06: Engage with and activate municipalities and regions to protect and restore soil health ^{1/2}



Typ: Coordination and Support Action; Budget: 10 Mio. €; 3 Projekte á 3.3 Mio. €; Multi-Actor Approach; Support to third parties through grants possible, 60.000 €



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- develop and implement effective participatory processes for an extensive dialogue on soil and land related activities at local and regional level
- support municipalities and regions to work with relevant actors regarding protection and restoration of soil health
- explore with regional authorities opportunities for making better use of EU financial instruments for sustainable soil management (taking into account programming options at level of MS and regions)
- enable and support municipalities and regions to co-design strategies and actions for the protection and restoration of soil health with citizens
- enhance knowledge sharing among municipalities and regions on best practice processes and outcomes



Topic: HORIZON-MISS-2021-SOIL-02-06: Engage with and activate municipalities and regions to protect and restore soil health ^{2/2}



Typ: Coordination and Support Action; Budget: 10 Mio. €; 3 Projekte á 3.3 Mio. €;
Multi-Actor Approach; Support to third parties through grants possible, 60.000 €



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- enhance knowledge sharing among municipalities and regions on best practice processes and outcomes
- create an inclusive and extensive European network of municipalities and regions to pursue citizen-identified soil related objectives.



Topic: HORIZON-MISS-2021-SOIL-02-07: National engagement sessions and support to the establishment of soil health living labs

Typ: Coordination and Support Action; Budget: 3 Mio. €



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- a common understanding of the concept of soil health living labs in relation with mission objectives among potential applicants, including awareness of the selection criteria established for living labs and lighthouses;
- increased awareness and skills of potential applicants on how to setup and run a soil health living lab;
- a varied range of proposals to future calls received in terms of geography, soil types and uses, actors involved and coverage of mission objectives;
- high-quality, collaborative, multi-actor consortia selected to create the first soil health living labs



Topic: HORIZON-MISS-2021-SOIL-02-08: Next generation soil advisors



**Typ: Research and Innovation Action; Budget: 5 Mio. €;
Multi-Actor-Approach**



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- create and test curricula targeted to various types of education and advise capitalising on existing knowledge;
- train advisors to deliver advice to farmers and foresters on practices to protect and restore soil health and soil ecosystem services;
- create testing-grounds for peer-to-peer knowledge exchange and encourage practitioner-driven experimentation on sustainable soil management practices;
- develop novel, user-friendly and easy-to-access tools and methods for advise, making use of IT technologies;
- identify, map, and connect with the main actors working on soil health related practices and issues (within AKIS framework)



Weiterführende Informationen



Links

[Kommentiertes Antragstemplate](#)

[EU Mission: A Soil Deal for Europe](#)

[Anmeldung Newsletter NKS-B &U](#)

Wichtige Termine

[InfoDays der EU Kommission: 18./19.01.22](#)

(Mission Boden: 19.01.22, 14:00 - 16:00)



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Zeit für Q & A

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Specific requirements for multi-actor projects:

Proposals submitted for topics requesting to follow the multi-actor approach should meet all requirements listed below.



The multi-actor approach described here, aims to make the R&I process and its outcomes more demand-driven, relevant to society and socially innovative. A multi-actor project ensures the genuine involvement of different types of actors. The choice of the key actors participating in projects will depend on the objectives of the call topic. The actors are essentially the (end-) users of project results. In the area of agriculture these can be for example farmers and farmers' groups, foresters and foresters' groups, advisors, food processors, businesses, consumer associations, local communities, citizens, civil society organisations including NGOs, social partners and government representatives.



The genuine involvement of different types of actors should take place over the course of the project to ensure co-creation: from participation in project planning and experiments to implementation, dissemination of results and a possible demonstration phase. This is expected to speed up the acceptance and take-up of new ideas, approaches and solutions developed in the project. A multi-actor project proposal should describe:



- how the project proposal's objectives and planning are targeting the needs/problems and opportunities of the (end-)users of the project results;
- how the project concept and in particular the composition of the consortium reflects a balanced choice of key actors who have complementary types of knowledge (scientific and practical), and will ensure a broad implementation of project results;



- how the project intends to include existing practices and tacit knowledge in scientific work. This should be reflected in the number of high quality knowledge exchange activities indicating the precise and active roles of the different non-scientific actors in the work. Thanks to the cross-fertilisation of competencies and ideas between actors, this should generate innovative findings and solutions that are more likely to be applied;
- how the project will facilitate the multi-actor engagement process by making use of the most appropriate methodologies;
- how the project will result in practical knowledge, approaches or tools, made easily understandable and accessible, and how this free material for practice will feed into the existing dissemination channels most consulted by the (end-) users of the project results in the countries and regions



For topics working in the area of agriculture and forestry (linked to Intervention Area 3 of Horizon Europe Cluster 6):

- practice oriented knowledge resulting from projects should be assembled amongst others in form of 'practice abstracts' in the common EIP format of the European Innovation Partnership 'Agricultural Productivity and Sustainability' (EIP-AGRI). Involvement or cooperation with EIP-AGRI Operational Groups funded under Rural Development Programmes should be sought, as appropriate.