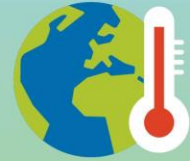




EUROPEAN UNION

EU MISSIONS



Concrete solutions for our greatest challenges

19th Czech days for European Research

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Policy Officer

DG RTD – Unit G4 – Missions and Partnerships

#EUmissions #HorizonEU



What are missions?

R&I missions should:

- Be bold and inspirational, with wide societal relevance
- Indicate a clear direction: targeted, measurable and time-bound
- Be ambitious but based on realistic research and innovation actions
- Spark innovation across disciplines, sectors and actors
- Be based on a bottom-up approach of multiple solutions



Scan me to read the report



Why do we need missions?

- Bring Europe **closer to people**

What does the EU do concretely about issues citizens care about?

- Delivering **EC priorities**

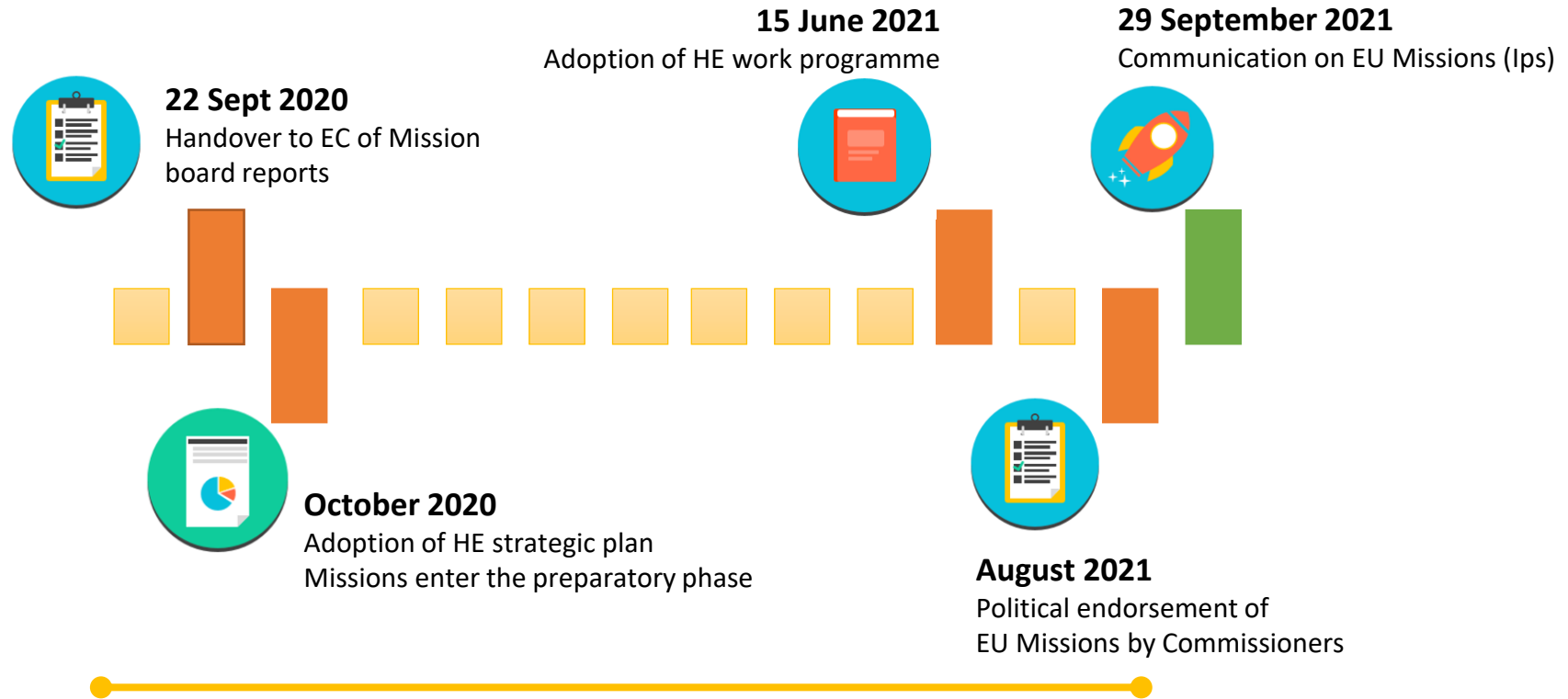
Green Deal, Beating Cancer Action Plan, Conference on the Future of Europe...

- Different way to **Impact**

portfolio approach, aligning programmes and policy



Timeline



Missions' preparatory phase:

Preparation of solid implementation plans

Preparatory actions in the WP to lay foundation for missions' implementation



EU Missions

The climate and health crises tackled through new way of working.

- **rooted in research and innovation**, aiming to address **societal challenges** and reconnect citizens with the EU
- directly **support EU priorities** such as the European Green Deal, Europe's Beating Cancer Plan and the New European Bauhaus etc.
- across policy areas, fields of expertise and science, engaging with companies, local communities and the innovation community





How will EU Missions operate?

Delivering impact through:

- *A new role for research and innovation*
- *An 'all-in' approach*
- *A new relationship with citizens*



Five EU Missions

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters



Soil Deal
for Europe



Adaptation to Climate Change



Support at least 150 European regions and communities to become climate resilient by 2030

- Preparing and planning for climate resilience;
- accelerating transformations to climate resilience;
- demonstrating systemic transformations to climate resilience (75 large-scale demonstrations of systemic transformations to climate resilience across European regions and communities).





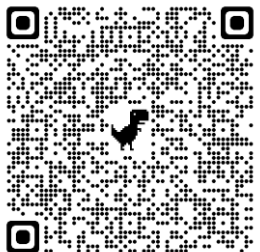
Cancer



Improve the lives of more than 3 million people by 2030 through prevention, cure and for those affected by cancer including their families, to live longer and better.

- Improve the understanding of cancer
- Prevention, including early detection and screening
- Optimise diagnostics and treatment
- Support the quality of life

Provide a vital research and policy development support for the **Europe's beating cancer plan.**





Restore our Seas and Waters



Restore the health of our ocean and waters by 2030

- Protect and restore marine and fresh water ecosystems and biodiversity
- Prevent and eliminate pollution of our ocean, seas and waters, and
- Make the sustainable blue economy carbon-neutral and circular



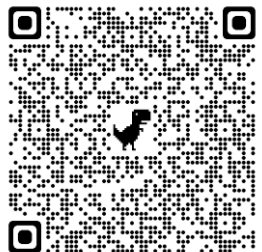


Climate Neutral and Smart Cities



Deliver at least 100 climate-neutral and smart European cities by 2030 and these cities should act as demonstration and innovation hubs to allow for all European cities to become climate-neutral by 2050.

- Cities can contribute to our European Green Deal targets to reduce GHG emissions by 55% by 2030 - leading in climate and digital innovation.
- Huge co-benefits to their citizens – lower energy bills, cleaner air, safer walking and biking in cities, less congestion.





Soil Deal for Europe



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

- Protect and restore soils in Europe and beyond.
- Put communities and stakeholders at the centre of the innovation process to co-create knowledge and solutions in real-life conditions.
- Have to act together so that future generations inherit clean, productive and resilient soils for food, people, nature and climate.





What is in Missions for research and industry?



Adaptation to Climate Change



Improving the performance of nature based solution and develop protocols for their implementation



Increasing and facilitating uptake of nature based solutions through the use of public procurement. Pre-Commercial Procurements and Public Procurement of Innovation



Cancer



Understand healthy versus cancer cells at individual and population level;



Develop non-invasive cancer screening and detection methodologies.



Restore our Ocean and Waters



Increase our knowledge of our oceans and water life, including DNA sequencing to unravel microbiomes of marine and coastal ecosystems



Innovative, affordable and scalable technologies for remote and accurate monitoring of fishing activities



What is in Missions for research and industry?



100 Climate Neutral and Smart Cities



Developing new urban planning and design practices to enable transition to sustainability, resilient, climate neutral and human centred solutions.



Large scale pilots acting as demonstrators for deployment of R&I and off the shelf solutions in lead European cities and districts.



Soil Deal for Europe



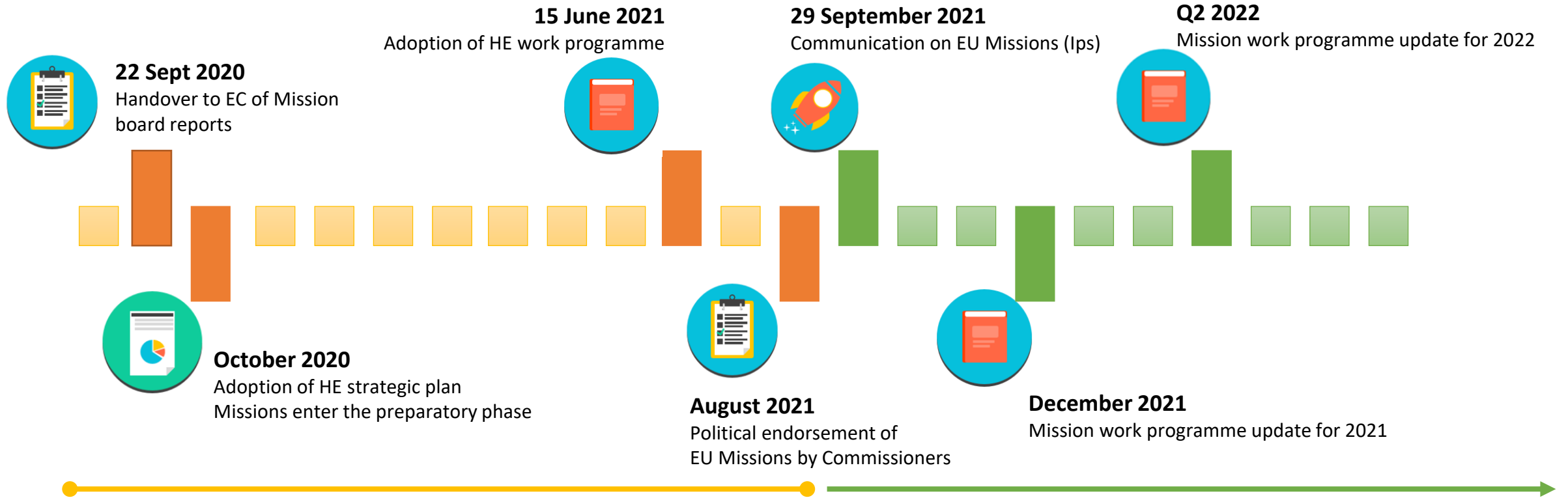
The soil functional (micro)biome and its potential to deliver improved soil health and associated ecosystem services.



100 living labs: user-centered, placed-based transdisciplinary research ecosystems to co-design, test, monitor and evaluate solutions in real-life settings, to improve their effectiveness for soil health and accelerate adoption.



Timeline



Missions' preparatory phase:

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Missions' implementation phase:

Two Missions work programme amendments (Q4 2021, Q2 2022) to start missions implementation on the ground.



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Thank you!

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