

To: [redacted] [redacted] [redacted]@rivm.nl]
From: [redacted] [redacted] [redacted] [redacted]
Sent: Wed 3/17/2021 1:29:48 PM
Subject: Re: [Spam] Re: Re:HORIZON call
Received: Wed 3/17/2021 1:29:49 PM

Leuke discussies. Wie is [redacted] [redacted] ook alweer?

gr,

[redacted]

From: [redacted] [redacted]
Sent: Wednesday, 17 March 2021 12:20:07
To: [redacted] [redacted] [redacted] [redacted]
Subject: FW: [Spam] Re: Re:HORIZON call

Hoi [redacted]

Ik wilde onderstaande eerst naar iedereen sturen die jij de call had doorgestuurd, maar het lijkt erop dat zij er toch niet voor willen gaan. Zij zien meer in andere calls (zie mailwisseling). Maar ik wilde je toch laten weten dat in dit gremium (een vervolg van de COST action NEOH (network for evaluation of OH) dus ook uitgebreid gesproken wordt over deze call en ook in een One Health aanpak. Deze groep richt zich wel steeds meer op biodiversiteit.

Groet

[redacted]

From: [redacted] [redacted] <[redacted]@gmail.com>
Sent: woensdag 17 maart 2021 12:07
To: [redacted] [redacted] <[redacted]@rvc.ac.uk>
Cc: [redacted] [redacted] [redacted] [redacted]@sund.ku.dk>; [redacted] <[redacted]@gmail.com>; <[redacted]@vetsuisse.unibe.ch>
 <[redacted]@vetsuisse.unibe.ch>; [redacted] [redacted] <[redacted]@niv.ns.ac.rs>; [redacted] [redacted] <[redacted]@yahoo.co.uk>; [redacted] [redacted]
 <[redacted]@unito.it>; [redacted] [redacted] [redacted] <[redacted]@gmail.com>; [redacted] <[redacted]@gmail.com>;
 [redacted] @hotmail.com; [redacted] [redacted] <[redacted]@inbo.be>; [redacted] [redacted] <[redacted]@gmail.com>; [redacted] [redacted]
 <[redacted]@liverpool.ac.uk>; [redacted] [redacted] <[redacted]@unibo.it>; [redacted] [redacted] <[redacted]@vetbakt.uzh.ch>; [redacted] [redacted]
 <[redacted]@rug.nl>; [redacted] [redacted] <[redacted]@uliege.be>; [redacted] [redacted] <[redacted]@um.es>; [redacted] [redacted] <[redacted]@swisstph.ch>;
 [redacted] [redacted] <[redacted]@unito.it>; [redacted] [redacted] <[redacted]@sciensano.be>; [redacted] [redacted] <[redacted]@uevora.pt>; [redacted]
 [redacted] <[redacted]@ugent.be>; [redacted] [redacted] <[redacted]@vetsuisse.unibe.ch>; [redacted] [redacted] <[redacted]@vetclinics.uzh.ch>;
 [redacted] @unige.ch; [redacted] @outlook.com; [redacted] [redacted] <[redacted]@um.es>; [redacted] @vetsuisse.unibe.ch;
 [redacted] @um.es; [redacted] [redacted] <[redacted]@rivm.nl>; [redacted] [redacted] <[redacted]@odysseyconservationtrust.com>;
 [redacted] [redacted] <[redacted]@swisstph.ch>; [redacted] [redacted] <[redacted]@unibo.it>;
 [redacted] @vetsuisse.unibe.ch; [redacted] [redacted] @vetsuisse.unibe.ch; [redacted] [redacted] <[redacted]@liverpool.ac.uk>;
 [redacted] @uzh.ch; [redacted] [redacted] [redacted] <[redacted]@unito.it>; [redacted] [redacted] <[redacted]@gmail.com>;
 [redacted] [redacted] <[redacted]@h-brs.de>; [redacted] [redacted] <[redacted]@rvc.ac.uk>; [redacted] [redacted] <[redacted]@unibo.it>;
 [redacted] [redacted] [redacted] <[redacted]@ucd.ie>; [redacted] [redacted] [redacted] <[redacted]@uni-heidelberg.de>; [redacted] [redacted] [redacted]
 [redacted] <[redacted]@uevora.pt>; [redacted] [redacted] <[redacted]@vetsuisse.unibe.ch>; [redacted] [redacted] @googlemail.com

Subject: [Spam] Re: Re:HORIZON call

Dear colleagues,

Thank you [redacted] for sharing call with us.

Thank you [redacted] I appreciate your oppinions and proposals. I agree with [redacted] that the other proposed calls are more appropriate for us, NEOH. I agree with [redacted] proposals and opinions, and in particular:

"A central One Health issue which if resolved would probably do more overall good than the much vaunted Paris Agreement on climate change. This multidisciplinary group could pull all the threads together under the OH paradigm and show how one significant intervention in food policy - to reduce meat consumption (of a similar nature to the post war food security narrative)

could transform and secure healthier futures for all and our planet".

Of course, one project could not be enough to bring changes for saving the planet and the world to become better place for living.

Best regards,

5.1.2e

>

On Wed 17 Mar 2021 11:30 5.1.2e, 5.1.2e <5.1.2e@rvc.ac.uk> wrote:

Thank you 5.1.2e these other calls seem much more appropriate to this group. And also outcomes would be very relevant to emerging pandemic issues. E.g. one of the key co-morbidities with COVID mortality have been obesity, clearly closely linked to food systems (ref attached and more specific research to be published in American Journal of Tropical Medicine & Hygiene - AJTMH-20-1496.R2 soon) and this extends to many other health issues as we all know. If we went for the food systems call then we also bring the very important aspects of farming/livestock and zoonosis/EID risks and we can also cover biodiversity loss, loss of habitat and climate change impacts <https://www.theguardian.com/environment/2021/mar/16/eating-up-the-rainforest-chinas-taste-for-beef-drives-exports-from-brazil>

A central One Health issue which if resolved would probably do more overall good than the much vaunted Paris Agreement on climate change. This multidisciplinary group could pull all the threads together under the OH paradigm and show how one significant intervention in food policy - to reduce meat consumption (of a similar nature to the post war food security narrative) could transform and secure healthier futures for all and our planet.

Sincerely

5.1.2e

From: 5.1.2e 5.1.2e 5.1.2e <5.1.2e@sund.ku.dk>
Sent: 16 March 2021 18:11
To: 5.1.2e 5.1.2e @gmail.com>; <5.1.2e@vetsuisse.unibe.ch> <5.1.2e@vetsuisse.unibe.ch>
Cc: 5.1.2e, 5.1.2e <5.1.2e@rvc.ac.uk>; 5.1.2e 5.1.2e <5.1.2e@niv.ns.ac.rs>; 5.1.2e 5.1.2e <5.1.2e@yahoo.co.uk>; 5.1.2e 5.1.2e <5.1.2e@unito.it>; 5.1.2e 5.1.2e 5.1.2e <5.1.2e@gmail.com>; 5.1.2e <5.1.2e@gmail.com>; 5.1.2e @hotmail.com>; 5.1.2e 5.1.2e <5.1.2e@inbo.be>; 5.1.2e 5.1.2e <5.1.2e@gmail.com>; 5.1.2e 5.1.2e <5.1.2e@liverpool.ac.uk>; 5.1.2e @unibo.it>; 5.1.2e 5.1.2e <5.1.2e@vetbakt.uzh.ch>; 5.1.2e 5.1.2e <5.1.2e@rug.nl>; 5.1.2e 5.1.2e <5.1.2e@uliege.be>; 5.1.2e @um.es>; 5.1.2e @gmail.com>; 5.1.2e @swisstph.ch>; 5.1.2e @unito.it>; 5.1.2e 5.1.2e @sciensano.be>; 5.1.2e 5.1.2e <5.1.2e@uevora.pt>; 5.1.2e 5.1.2e @ugent.be>; 5.1.2e @vetsuisse.unibe.ch>; 5.1.2e 5.1.2e <5.1.2e@vetclinics.uzh.ch>; 5.1.2e @unige.ch>; 5.1.2e @outlook.com>; 5.1.2e @um.es>; 5.1.2e @vetsuisse.unibe.ch>; 5.1.2e @um.es>; 5.1.2e 5.1.2e @rivm.nl>; 5.1.2e 5.1.2e @odysseyconservationtrust.com>; 5.1.2e 5.1.2e @swisstph.ch>; 5.1.2e 5.1.2e @unibo.it>; 5.1.2e @vetsuisse.unibe.ch>; 5.1.2e @vetsuisse.unibe.ch>; 5.1.2e 5.1.2e @liverpool.ac.uk>; 5.1.2e @uzh.ch>; 5.1.2e 5.1.2e @unito.it>; 5.1.2e 5.1.2e @gmail.com>; 5.1.2e 5.1.2e @h-brs.de>; 5.1.2e 5.1.2e <5.1.2e@rvc.ac.uk>; 5.1.2e 5.1.2e @unibo.it>; 5.1.2e 5.1.2e @ucd.ie>; 5.1.2e 5.1.2e @uni-heidelberg.de>; 5.1.2e 5.1.2e @uevora.pt>; 5.1.2e 5.1.2e @vetsuisse.unibe.ch>; 5.1.2e @googlemail.com

Subject: SV: Re:HORIZON call

Dear all,

I was coordinator of a 10 million Euro Horizon2020 grant proposal last year, and I have to say, it was a huge and complex job that ran over a 1 year period. I had good support from our EU-grant support office and a professional consultant. It was within the core of my area of expertise. Although we had a very focused proposal covering essentially all aspects the call asked for, to be carried out by a good consortium, and the proposal got good reviews and high scores, we did not get funded. We scored 0.5 points lower than the winning consortium, who got all of the money in the call :-/

So I do not really want to sound too discouraging, if you really want to do it. Just know that it will take quite a lot. I think in this is call, it would really need somebody with expertise on biodiversity in the center of the consortium and a very well thought through idea that can cover all aspects - not just a few of those listed - to stand a chance. Also, it will be an advantage to already be linked with existing initiatives as those mentioned in the call text. The

same goes for some of the other calls in the same topic:

http://alter-net.info/about-alter-net/members/call-exchange/Annex1HORIZONCL620212022_12_21_2020.pdf

There are some other/more interesting calls in there that we might have a better chance at, see:
 HORIZON-CL6-2022-BIODIV-01-08: Understanding the role of behaviour, gender specifics, lifestyle, religious and cultural values, and addressing the role of enabling players (civil society, policy makers, financing and business leaders, retailers) in decision making (page 111) Call Opening: na (*probably in Oct 2021*), Deadline(s): 15 Feb 2022

Or

HORIZON-CL6-2021-FARM2FORK-01-17: One health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA) on page 175 (here we might actually be able to build on the NEOH2-network as I see it.

Call Opening: 15 Apr 2021, Deadline(s): 01 Sep 2021 *so some consortia are probably already working on that call.*
 Here we could draw on NEOH-relations with Africa and prior work and networks on systems approach, gender, transdisciplinarity and learning aspects in One Health.

And certainly this one:

HORIZON-CL6-2022-GOVERNANCE-01-08: Environmental observations solutions contributing to meeting "One Health" challenges (page 489-90 in the document I linked to). Call opening: 28 Oct 2021, Deadline(s): 15 Feb 2022

Note that all expected outcomes must be addressed to stand a chance in those calls.

Best wishes,

5.1.2e

Fra: 5.1.2e <5.1.2e@gmail.com>
Sendt: 16 March 2021 16:13
Til: <5.1.2e@vetsuisse.unibe.ch> <5.1.2e@vetsuisse.unibe.ch>
Cc: 5.1.2e <5.1.2e@rvc.ac.uk>; 5.1.2e <5.1.2e@niv.ns.ac.rs>; 5.1.2e <5.1.2e@yahoo.co.uk>; 5.1.2e <5.1.2e@unito.it>; 5.1.2e <5.1.2e@gmail.com>; 5.1.2e <5.1.2e@gmail.com>; 5.1.2e <5.1.2e@hotmail.com>; 5.1.2e <5.1.2e@inbo.be>; 5.1.2e <5.1.2e@sund.ku.dk>; 5.1.2e <5.1.2e@gmail.com>; 5.1.2e <5.1.2e@liverpool.ac.uk>; 5.1.2e <5.1.2e@unibo.it>; 5.1.2e <5.1.2e@vetbakt.uzh.ch>; 5.1.2e <5.1.2e@rug.nl>; 5.1.2e <5.1.2e@uliege.be>; 5.1.2e <5.1.2e@um.es>; 5.1.2e <5.1.2e@gmail.com>; 5.1.2e <5.1.2e@swisstph.ch>; 5.1.2e <5.1.2e@unito.it>; 5.1.2e <5.1.2e@sciensano.be>; 5.1.2e <5.1.2e@uevora.pt>; 5.1.2e <5.1.2e@ugent.be>; 5.1.2e <5.1.2e@vetsuisse.unibe.ch>; 5.1.2e <5.1.2e@vetclinics.uzh.ch>; 5.1.2e <5.1.2e@unige.ch>; 5.1.2e <5.1.2e@outlook.com>; 5.1.2e <5.1.2e@um.es>; 5.1.2e <5.1.2e@vetsuisse.unibe.ch>; 5.1.2e <5.1.2e@um.es>; 5.1.2e <5.1.2e@rivm.nl>; 5.1.2e <5.1.2e@odysseyconservationtrust.com>; 5.1.2e <5.1.2e@swisstph.ch>; 5.1.2e <5.1.2e@unibo.it>; 5.1.2e <5.1.2e@vetsuisse.unibe.ch>; 5.1.2e <5.1.2e@vetsuisse.unibe.ch>; 5.1.2e <5.1.2e@liverpool.ac.uk>; 5.1.2e <5.1.2e@uzh.ch>; 5.1.2e <5.1.2e@unito.it>; 5.1.2e <5.1.2e@gmail.com>; 5.1.2e <5.1.2e@h-brs.de>; 5.1.2e <5.1.2e@rvc.ac.uk>; 5.1.2e <5.1.2e@unibo.it>; 5.1.2e <5.1.2e@ucd.ie>; 5.1.2e <5.1.2e@uni-heidelberg.de>; 5.1.2e <5.1.2e@uevora.pt>; 5.1.2e <5.1.2e@vetsuisse.unibe.ch>; 5.1.2e <5.1.2e@googlemail.com>

Emne: Re: Re:HORIZON call

Dear [redacted] and @< [redacted] @vetsuisse.unibe.ch> ,

I actually totally agree with you, also in particular now that I am learning much more about governance and political economy. But I also see a big correlation with the two last points of the call and political economy /gender equality / governance topics.

- New multidisciplinary collaborations that embody the One Health concept as a way to prevent pandemics, sustain biodiversity, promote human, animal and ecosystem health and nature conservation, as well as support the needed transformative change.
- Effective participation of indigenous and local communities in pandemics prevention strategies: risks management and opportunities for biodiversity recovery

Actually we can try to organize a call that focus , as @< [redacted] @vetsuisse.unibe.ch> writes, to use this opportunity to move human behaviour and underline the importance of shifting political economy to another pathway , of course keeping the ingredients mentioned in the call but with this main vision in mind.

Best,

[redacted]

Il giorno mar 16 mar 2021 alle ore 15:54 < [redacted] @vetsuisse.unibe.ch> ha scritto:

Dear Colleagues:

[redacted] I completely agree with you and with your assessment. And I totally agree that the problems we facing are due to our own behaviors.

But I am quite worried that our leading international health organizations are going to continue focusing on animals and pathogens, and in response to COVID-119 will begin to develop naïve, uninformed regulations that will cause more harm than good. Maybe we should jump on this as an opportunity to develop a strategy to change human behavior. I am certain we can't change the world with one research project, but maybe can we develop a research project that derails the current "blame the animals and pathogens" narrative and move these groups to a more informed and sensible pathway?

Just a thought

Best

[redacted]

From: [redacted], [redacted] < [redacted] @rvc.ac.uk>

Sent: Dienstag, 16. März 2021 15:28

To: [redacted] < [redacted] @gmail.com>; [redacted] < [redacted] @niv.ns.ac.rs>; [redacted] < [redacted] @yahoo.co.uk>; [redacted] < [redacted] @unito.it>; [redacted] < [redacted] @gmail.com>; [redacted] < [redacted] @gmail.com>; [redacted] < [redacted] @hotmail.com>; [redacted] < [redacted] @inbo.be>; [redacted] < [redacted] @sund.ku.dk>; [redacted] < [redacted] @gmail.com>; [redacted] < [redacted] @liverpool.ac.uk>; [redacted] < [redacted] @unibo.it>; [redacted] < [redacted] @vetbakt.uzh.ch>; [redacted] < [redacted] @rug.nl>; [redacted] < [redacted] @uliege.be>; [redacted] < [redacted] @um.es>; [redacted] < [redacted] @gmail.com>; [redacted] < [redacted] @swisstph.ch>; [redacted] < [redacted] @unito.it>; [redacted] < [redacted] @sciensano.be>; [redacted] < [redacted] @uevora.pt>; [redacted] < [redacted] @ugent.be>; [redacted] < [redacted] @vetsuisse.unibe.ch>; [redacted] < [redacted] @vetclinics.uzh.ch>; [redacted] < [redacted] @vetsuisse.unibe.ch>; [redacted] < [redacted] @unige.ch>; [redacted] < [redacted] @outlook.com>; [redacted] < [redacted] @um.es>; [redacted] < [redacted] @vetsuisse.unibe.ch>; [redacted] < [redacted] @um.es>; [redacted] < [redacted] @rivm.nl>; [redacted] < [redacted] @odysseyconservationtrust.com>; [redacted] < [redacted] @swisstph.ch>; [redacted] < [redacted] @unibo.it>; [redacted] < [redacted] @vetsuisse.unibe.ch>; [redacted] < [redacted] @vetsuisse.unibe.ch>; [redacted] < [redacted] @liverpool.ac.uk>; [redacted] < [redacted] @uzh.ch>; [redacted] < [redacted] @unito.it>; [redacted] < [redacted] @gmail.com>; [redacted] < [redacted] @h-brs.de>; [redacted] < [redacted] @rvc.ac.uk>; [redacted] < [redacted] @unibo.it>; [redacted] < [redacted] @ucd.ie>; [redacted] < [redacted] @uni-heidelberg.de>; [redacted] < [redacted] @uevora.pt>; [redacted] < [redacted] @vetsuisse.unibe.ch>; [redacted] < [redacted] @googlemail.com>

Subject: RE: Re:HORIZON call

Dear colleagues

I will give you my opinion on this for what it is worth.

Of course I am pleased to see EU doing this in principle but the call is so loaded it is very worrying. "What else is out there" is so destructive a narrative straight out of the myth of Pandora's box. Wildlife (in nature) has very little to do with COVID or the pandemic age, other than just being a repository of genetics (biodiversity) all the issues and drivers are in the domestic domain. These pathogens do not just pop out of nowhere. Of course we prefer not to say this (easier to blame something that is not anyone's responsibility). The call should be about human behaviour and political economy as this is behind all these emerging disease problems that we are now suffering. We should be focusing on this (and domestic animals and animal breeding farms which include wildlife as they have a **very important** role in zoonosis and EID) – this call I believe has arisen in this form because of so much twisted narrative (whatever you want to blame ...do it!) and misinformation coming through from early white papers and reports (even IPBES pandemics and others I am afraid to say) and old narrative that has built over years with certain Institutional agendas being promoted. One Health is biased as we all know towards human health first, then veterinary (domestic animal) health and then the afterthought is wildlife and environment. There are so few to speak up for nature so this is why I do!

And how can they expect 12 million euro to solve the problem ...120 billion euro will not do it....it is such a fundamental issue around humanity and its progression along a destructive pathway for selfish interests – it is going to cost humanity much much more to get out of this mess...

Good luck on the call though!

Sincerely

5.1.2e
From: 5.1.2e <5.1.2e@gmail.com>
Sent: 16 March 2021 14:04
To: 5.1.2e <5.1.2e@niv.ns.ac.rs>; 5.1.2e @yahoo.co.uk; 5.1.2e @unito.it; 5.1.2e @gmail.com;
 5.1.2e @gmail.com; 5.1.2e @hotmail.com; 5.1.2e 5.1.2e <5.1.2e@inbo.be>; 5.1.2e@sund.ku.dk;
 5.1.2e @gmail.com; 5.1.2e , 5.1.2e <5.1.2e@liverpool.ac.uk>; 5.1.2e @unibo.it;
 5.1.2e @vetbakt.uzh.ch; 5.1.2e 5.1.2e <5.1.2e@rug.nl>; 5.1.2e @uliege.be; 5.1.2e @um.es;
 5.1.2e @gmail.com; 5.1.2e @swisstph.ch; 5.1.2e @unito.it; 5.1.2e @sciensano.be;
 5.1.2e @uevora.pt; 5.1.2e @ugent.be; 5.1.2e @vetsuisse.unibe.ch; 5.1.2e @vetclinics.uzh.ch;
 5.1.2e @vetsuisse.unibe.ch; 5.1.2e @unige.ch; 5.1.2e @outlook.com; 5.1.2e @um.es;
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 5.1.2e @vetsuisse.unibe.ch; 5.1.2e @vetsuisse.unibe.ch; 5.1.2e @liverpool.ac.uk;
 5.1.2e @uzh.ch; 5.1.2e @unito.it; 5.1.2e @gmail.com; 5.1.2e @h-brs.de; 5.1.2e , 5.1.2e
 <5.1.2e@rvc.ac.uk>; 5.1.2e @unibo.it; 5.1.2e @ucd.ie; 5.1.2e @uni-heidelberg.de;
 5.1.2e @uevora.pt; 5.1.2e @vetsuisse.unibe.ch; 5.1.2e @googlemail.com; 5.1.2e , 5.1.2e
 <5.1.2e@rvc.ac.uk>
Subject: Re:HORIZON call

Could be great to be part of it. As a consultant company I don't know if I can lead it, but surely I would love to be part of it. I think I can really contribute and already have lots of ideas about it.

Best,

5.1.2e

Sent from my Huawei phone

----- Original message -----

From: 5.1.2e 5.1.2e <5.1.2e@niv.ns.ac.rs>
Date: Tue, Mar 16, 2021, 2:24 PM
To: 5.1.2e @yahoo.co.uk, 5.1.2e @unito.it, 5.1.2e @gmail.com, 5.1.2e @gmail.com,
 5.1.2e @hotmail.com, 5.1.2e 5.1.2e <5.1.2e@inbo.be>; 5.1.2e@sund.ku.dk, 5.1.2e @gmail.com,
 5.1.2e @liverpool.ac.uk, 5.1.2e @unibo.it, 5.1.2e @vetbakt.uzh.ch, " 5.1.2e , 5.1.2e " <5.1.2e@rug.nl>,
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 5.1.2e @swisstph.ch, 5.1.2e @unito.it, 5.1.2e @sciensano.be, 5.1.2e @uevora.pt,
 5.1.2e @ugent.be, 5.1.2e @vetsuisse.unibe.ch, 5.1.2e @vetclinics.uzh.ch, 5.1.2e @vetsuisse.unibe.ch,
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 5.1.2e @vetsuisse.unibe.ch, 5.1.2e @vetsuisse.unibe.ch, 5.1.2e @liverpool.ac.uk,

5.1.2e @uzh.ch, 5.1.2e @unito.it, 5.1.2e @gmail.com, 5.1.2e @h-brs.de,
 5.1.2e @rvc.ac.uk, 5.1.2e @unibo.it, 5.1.2e @ucd.ie, 5.1.2e @uni-heidelberg.de,
 5.1.2e @uevora.pt, 5.1.2e @vetsuisse.unibe.ch, 5.1.2e @googlemail.com, 5.1.2e @rvc.ac.uk

Subject: HORZON call

Dear everybody, there is an upcoming Horizon Europe call '2021: **HORIZON-CL6-RES-2021-00-00: What else is out there? Exploring the connection between biodiversity, ecosystems services and pandemics**'

It could be interesting for our group, has anybody thought of leading a project? *

I would love to join *

kisses

5.1.2e

CLUSTER 6 'FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT'

Destination 1 – Biodiversity and Ecosystem Services

HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	
<i>Expected EU contribution per project</i>	The EU estimates that an EU contribution of between EUR 4.00 and 12.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 12.00 million.
<i>Type of Action</i>	Innovation Actions
<i>Eligibility conditions</i>	The conditions are described in General Annex B. The following exceptions apply: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).
<i>Technology Readiness Level</i>	Activities are expected to achieve TRL 4-6 by the end of the project – see General Annex B.

Expected Outcome: A successful proposal will contribute to European Green Deal priorities and the EU Biodiversity Strategy for 2030, whilst supporting the EU's response to the coronavirus outbreak, in the context of EU's goal of leading just digital, economic and ecological transitions that will leave no one behind, One Health approaches, and the future European Health Union. It will explore the evolution and spread of microbiomes in the wild and their relationship with biodiversity loss, ecosystems dynamics and epidemics risk, in a broad societal, climate change and global context. By doing so, the interrelations between biodiversity, health and climate will be better known and communicated to citizens and policy-makers. In particular, risks associated with microbiomes and biodiversity-friendly prevention/mitigation measures, and opportunities for biodiversity recovery will be identified. This topic is also expected to have impacts related to "Climate change mitigation and adaptation" and "A resilient EU prepared for emerging threats".

Projects results are expected to contribute to some or all of the following expected outcomes:

- The evolution and spread of microbiomes in the wild and their relationship with biodiversity loss and ecosystems dynamics is understood and modelled, within the broader context of socio-economic driving forces, climate change, public health, and increasing resilience.

- Epidemics risks are understood, mapped and forecasted on the basis of relationships between factors such as land use, ecology, climate, biodiversity, and socio-economic factors, including wildlife trade, that determine the pace at which new pathogens emerge and then spread once transmission between humans occurs.
- Contribution to ecosystem services: use of novel technologies for better land use increasing biodiversity under unfavourable environmental/climatic conditions.
- Sustainable prevention/mitigation measures improving microbiomes and biodiversity recovery are proposed.
- Molecular and phylogenetic characterisation of potential emerging and novel pathogens and their hosts in natural areas for use as pre-leads in future vaccines and antimicrobials.
- Pathogen detection and surveillance strategies based on rapid, on-site, genomic tools allowing a fast and early response when facing potential outbreaks.
- New multidisciplinary collaborations that embody the One Health concept as a way to prevent pandemics, sustain biodiversity, promote human, animal and ecosystem health and nature conservation, as well as support the needed transformative change.
- Effective participation of indigenous and local communities in pandemics prevention strategies: risks management and opportunities for biodiversity recovery.

Scope: Wildlife microbiomes, whether symbiotic, commensal or pathogenic, and their potential to spread by crossing interspecies barriers, eventually reaching humans, are still largely unknown. Complex links between increased human disturbance, land-use change, habitat loss/degradation/fragmentation and biodiversity loss have all been linked to increases in the prevalence and risk of zoonotic disease for a variety of pathogens, mostly driven by human activities that modify the environment or spread pathogens into new ecological niches⁴⁹. Zoonotic diseases are significant threats to human health, with vector-borne diseases accounting for approximately 17 per cent of all infectious diseases and causing an estimated 700,000 deaths globally⁵⁰ in a normal year, which can more than double in pandemic years⁵¹.

The magnitude and direction of altered disease incidence due to anthropogenic disturbance differ globally and between ecosystems. Some described mechanisms and drivers that especially affect infectious disease risk are⁵² habitat alteration, depletion of predators, deforestation, niche invasion, host transfer, biodiversity change, human-driven genetic changes, bushmeat hunting, environmental contamination by infectious agents, etc.

This call aims to recover biodiversity and ecosystems services whilst predicting and preventing future pandemics and epidemic outbreaks, especially in tropical areas and biodiversity hotspots, through collaboration between environmental, biomedical and social sciences. Projects should map, identify and characterise with molecular techniques potential emerging pathogens (especially viral) and their hosts in carefully selected natural areas, explore the relationship of biodiversity and ecosystems dynamics with microbiomes' evolution and spread, within the broader context of socio-economic driving forces, climate change and public health.

Pathogen discovery, profilaxis and surveillance strategies should be developed to search for new pathogens, especially viral, within natural ecosystems and hosts as well as in cases of human infectious diseases of unknown etiology, to prevent, detect and contain their outbreaks. Risk maps and predictive models should be built based on development trends, the presence of probable host species, and socio-economic factors.

The impacts of land use and climate change on biodiversity, ecosystem services and pandemics should be also taken into account, as well as any recent IPBES reports on the links between biodiversity and pandemics⁵³.

Ecologists, infectious-disease researchers, medical doctors, environmental researchers and authorities, public-health and animal-health experts, and the private sector, particularly SMEs, should contribute among others to devise an early warning mechanism, track environmental change, assess the risk of pathogens crossing over and reduce risky human activities.

Efforts to preserve biodiversity should address the economic and cultural factors that drive deforestation and the rural poor's dependency on hunting and trading wild animals. International cooperation with non-EU countries where new pathogens have emerged is encouraged.

Projects should contribute their data to and earmark the necessary resources for cooperation with the Knowledge Centre for Biodiversity. Collaboration with the Biodiversity Partnership (HORIZON-CL6-2021-BIODIV-01-19) and creating links to its activities is expected⁵⁴.

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