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Under climate change,
~~dams~~ free-flowing rivers are
more needed than ever

To have high yield,
we need to work with ~~fight~~ nature

Too ~~small~~ important
~~not~~ to be considered

Nature is ~~only~~
about living organisms
and their physical environment

Busting myths

***“Under climate change,
dams are more needed
than ever”***



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Recommended Reading

- Belletti, B., Garcia de Leaniz, C. et al 2020. More than one million barriers fragment Europe's rivers. *Nature*. **588**, 436-441. <https://doi.org/10.1038/s41586-020-3005-2>
- Berg, M. et al. 2024. Assessing the IUCN global standard for nature-based solutions in riverine flood risk mitigation. *Environmental Development*. **51**, 101025. <https://doi.org/10.1016/j.envdev.2024.101025>
- Carolli, M., Garcia de Leaniz, C. et al. 2023. Impacts of existing and planned hydropower dams on river fragmentation in the Balkan Region. *Science of the Total Environment*. **871**. <http://dx.doi.org/10.1016/j.scitotenv.2023.161940>
- Dottori, F. et al., 2023. Cost-effective adaptation strategies to rising river flood risk in Europe. *Nature Climate Change*. **13**, 196-202. <https://doi.org/10.1038/s41558-022-01540-0>
- Garcia de Leaniz, C., O'Hanley, J.R., 2022. Operational methods for prioritizing the removal of river barriers: Synthesis and guidance. *Science of the Total Environment*. **848**, 157471. <https://doi.org/10.1016/j.scitotenv.2022.157471>
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- Li, Y., et al., 2023. Diminishing storage returns of reservoir construction. *Nature Communications*. **14**, 3203. <https://doi.org/10.1038/s41467-023-38843-5>
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- Richter, B.D. et al., 2024. New water accounting reveals why the Colorado River no longer reaches the sea. *Communications Earth & Environment*. **5**, 134. <https://doi.org/10.1038/s43247-024-01291-0>
- Schmitt, R.J.P., Rosa, L., 2024. Dams for hydropower and irrigation: Trends, challenges, and alternatives. *Renewable and Sustainable Energy Reviews*. **199**, 114439. <https://doi.org/10.1016/j.rser.2024.114439>
- Zhou, K., et al., 2024. Urban flood risk management needs nature-based solutions: a coupled social-ecological system perspective. *npj Urban Sustainability*. **4**, 25. <https://doi.org/10.1038/s42949-024-00162-z>

Under climate change,
dams free-flowing
rivers are more
needed than ever



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Busting myths

“To have high yields, we need to fight nature”



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Recommended literature

- *Global consequences of land use.* Foley, J. A., DeFries, R., Asner, G. P., Barford, C., Bonan, G., Carpenter, S. R., Chapin, F. S., Coe, M. T., Daily, G. C., Gibbs, H. K., Helkowski, J. H., Holloway, T., Howard, E. A., Kucharik, C. J., Monfreda, C., Patz, J. A., Prentice, I. C., Ramankutty, N., & Snyder, P. K. *Science*, 309(5734), 570–574. (2005).
<https://doi.org/10.1126/science.1111772>
- *Agroecology: Principles for the conversion and redesign of farming systems.* Nicholls, C. I., Altieri, M. A., & Vazquez, L. (2016). *Journal of Ecosystem & Ecography*, S5(1), 1–8.
<https://doi.org/10.4172/2157-7625.S5-010>
- *Solutions for a cultivated planet.* Foley, J. A., Ramankutty, N., Brauman, K. A., Cassidy, E. S., Gerber, J. S., Johnston, M., Mueller, N. D., O'Connell, C. S., Ray, D. K., West, P. C., Balzer, C., Bennett, E. M., Carpenter, S. R., Hill, J., Monfreda, C., Polasky, S., Rockström, J., Sheehan, J., Siebert, S., Tilman, D., & Zaks, D. P. M. (2011). *Nature*, 478(7369), 337–342.
<https://doi.org/10.1038/nature10452>
- *Ecosystem services and agriculture: Tradeoffs and synergies.* Power, A. G. (2010). *Philosophical Transactions of the Royal Society B: Biological Sciences*, 365(1554), 2959–2971. <https://doi.org/10.1098/rstb.2010.0143>

To have  high yields,
we need to **fight**
 work  with nature 



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Busting myths

***“Too small
to be considered”***

Recommended literature

- J.Biggs, S. von fumetti and M. Kelly-Quinn. *The importance of small waterbodies for biodiversity and ecosystem services: implications for policy makers. Small water bodies*. Review Paper. Published: 01 November 2016.
- Mancuso, G.; Bencreciuto, G.F.; Lavrni' c, S.; Toscano, A. *Diffuse Water Pollution from Agriculture: A Review of Nature-Based Solutions for Nitrogen Removal and Recovery*. *Water* 2021, 13, 1893. <https://doi.org/10.3390/w13141893>
- ACA-Agència Catalana de l'Aigua. *Caracterització de les masses d'aigua i anàlisi del risc d'incompliment dels objectius de la Directiva Marc de l'Aigua (2000/60/CE) a Catalunya*. Agència Catalana de l'Aigua. Departament de Medi Ambient i Habitatge de la Generalitat de Catalunya, Octubre. 2019. Available online: <https://aca.gencat.cat/ca/plans-i-programes/pla-de-gestio/3r-cicle-de-planificacio-2022-2027/document-impress/index.html>
- ACA-Agència Catalana de l'Aigua. 6. *Desenvolupament d'un índex integral de qualitat ecològica i regionalització ambiental dels sistemes lacustres de Catalunya*. <https://aca.gencat.cat/ca/plans-i-programes/programa-de-seguiment-i-control/>
- ACA-Agència Catalana de l'Aigua. 7. *Caracterització, regionalització i elaboració d'eines d'establiment de l'estat ecològic de les zones humides de Catalunya*. <https://aca.gencat.cat/ca/plans-i-programes/programa-de-seguiment-i-control/>
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Too ~~small~~
important not
to be considered



Agència Catalana
de l'Aigua



Generalitat
de Catalunya

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Busting myths

***“Nature is only about
living organisms”***



José F. Martín Duque

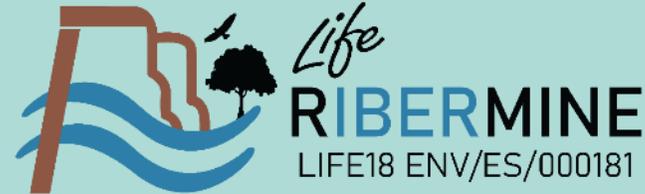
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Recommended websites

This websites include the most globally updated literature and information about GEOMORPHIC RESTORATION.

- LIFE RIBERMINE PROJECT
<https://liferibermine.com>



- Restauración Geomorfológica
www.restauraciongeomorfologica.es



Nature is ~~only~~ about
living organisms
and their physical
environment



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Christian Holzleitner
DG CLIMA, European Commission

Mari Palolill
WaterLANDS | University of Tartu,
Estonian Fund for Nature

11h25 | 11h50

Undisturbed Nature-rich forests
must be the target for forest
restoration

Urban sprawl ~~can~~
cannot go on for ever

Nature-based carbon removals
are **NOT** inevitably greenwashing

Preserving and rewetting **Drained**
forests as climate win

Busting myths

***“Undisturbed forests
must be the target for
restoration in Europe”***



SUPERB
Upscaling Forest Restoration

Jo O’Hara

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Recommended literature

- *SUPERB PROJECT.* <https://forest-restoration.eu/>

~~Undisturbed~~ Nature-rich



forests must be



the target for restoration



in Europe



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Busting myths

***“Urban sprawl can
go on forever”***

Annelaure WITTMANN

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Recommended literature (1/2)

Reports

- *Objective "Zero net artificialization": which levers should be used to protect soils?* Julien Fosse. France Stratégie. 2019. <https://www.strategie.gouv.fr/english-articles/objective-zero-net-artificialization-which-levers-should-be-used-protect-soils>
- *Sols artificialisés - Déterminants, impacts et leviers d'action.* Collective scientific expertise. 2019. <https://www.inrae.fr/actualites/sols-artificialises-processus-dartificialisation-sols>

Data and analyses

- *Portail de l'artificialisation des sols.* Cerema / Ministry of Ecological Transition. <https://artificialisation.developpement-durable.gouv.fr/>
- *L'analyse des déterminants de la consommation d'espace 2009-2022.* Cerema. 2023. https://artificialisation.developpement-durable.gouv.fr/sites/artificialisation/files/fichiers/2024/07/rapport_V4_2009-2022-2.pdf

Laws

- Loi du 22 août 2021 portant lutte contre le dérèglement climatique et renforcement de la résilience face à ses effets. <https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000043956924>
- Loi du 20 juillet 2023 visant à faciliter la mise en œuvre des objectifs de lutte contre l'artificialisation des sols et à renforcer l'accompagnement des élus locaux. <https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000047866733>

Recommended literature (2/2)

Law interpretation and guidelines

- *ZAN – Guide synthétique*. Ministry of Ecological Transition. 2023. <https://artificialisation.developpement-durable.gouv.fr/bibliographie/zan-guide-synthetique>
- *Fascicules de mise en oeuvre de la réforme ZAN (1: définir et observer, 2: planifier, 3: mobiliser les leviers; 4: accompagner)*. Ministry of Ecological Transition. 2024. <https://artificialisation.developpement-durable.gouv.fr/bibliographie/fascicules-mise-en-oeuvre-la-reforme-zan>

Awareness-raising tools

- *Le “ZAN en 20 questions” : quiz grand public pour comprendre le Zéro Artificialisation Nette*. Agence de la transition écologique (Ademe). 2024. <https://librairie.ademe.fr/7448-le-zan-en-20-questions-quiz-grand-public-pour-comprendre-le-zero-artificialisation-nette.html>
- Videos. Ministry of Ecological Transition. 2024. <https://www.dailymotion.com/playlist/x8e9jg>



Urban sprawl



~~can~~ cannot



go on forever

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Busting myths

***“Nature-based carbon
removals are inevitably
greenwashing”***

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**Nature-based
carbon removals
are NOT inevitably
greenwashing**

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Busting myths

“Drained forests as climate win”

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Recommended literature

Please provide here relevant links and references (books, reports, links to cases studies, laws) related to your presentation. These links will be shared with the attendees in case they want to explore your topic further.

- *Project WaterLANDS: www.waterlands.eu*
- *Articles in regional newspapers:*
 - [*Veereziimi muutmine võib põhjustada ulatusliku metsade huku 25.01.2024;*](#)
 - [*Soometsade taastamine vaid rikub meie elukeskkonda 13.03.2024*](#)
- [*Wet forest action plan*](#) *Estonian min of Climate (to be approved yet)*
- *EU Carbon Permits <https://tradingeconomics.com/commodity/carbon>*
- *Estonian National Inventory Report 2023*



Preserving and rewetting **drained** forests as climate **win**

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Delphine Dupeux
European Landowners

Richard Grayson
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Flexible barriers ~~Rigid walls~~,
resilient coasts

Ensuring ~~Improving~~ **secure access**
to nature ~~creates benefits~~ **for all**

Working for nature is ~~against~~ **in**
landowners' interests

Our landscapes
have ~~not~~ **always looked like this!**

Busting myths

***“Rigid walls,
resilient coasts”***



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References

- Barriers and enablers for upscaling coastal restoration, Sánchez-Arcilla, A., Cáceres, I., Le Roux, X., et al., Nature-Based Solutions, (2022). <https://doi.org/10.1016/j.nbsj.2022.100032>
- Evaluation of seagrass as a nature-based solution for coastal protection in the german wadden sea, B. Jacob, T. Dolch, A. Wurpts, J. Staneva, Ocean Dynamics 73 (11) (2023) 699–727. <https://doi.org/10.1007/s10236-023-01577-5>
- Evaluating barrier beach protection with numerical modelling. A practical case, Sánchez-Artús, X., Subbiah, B., Gracia, V., Espino, M., Grifoll, M., Espanya, A., & Sánchez-Arcilla, A. (2024), Coastal Engineering, 191, 104522. <https://doi.org/10.1016/j.coastaleng.2024.104522>
- What-if nature-based storm buffers on mitigating coastal erosion, W. Chen, J. Staneva, B. Jacob, X. Sánchez-Artús, A. Wurpts, Science of The Total Environment 928 (2024) 172247. <https://doi.org/10.1016/j.scitotenv.2024.172247>

Flexible barriers

~~Rigid walls,~~

resilient coasts



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Busting myths

***“Improving access to
nature creates
benefits for all”***

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Environmental Justice
and Sustainability

Recommended literature

- Segregating by Greening: What do We Mean by Green Gentrification?, Anguelovski. I; Connolly, J JT, 2024. Journal of Planning Literature. [LINK](#)
- The Green City and Social Injustice: 21 Tales from North America and Europe. 2021. Anguelovski, J. J. Connolly. Routledge (book)
- Racial Inequity in Green Infrastructure and Gentrification: Challenging Compounded Environmental Racisms in the Green City. 2024. Lewartowska et al. *International Journal of Urban and Regional Research*. [LINK](#)
- Urban green boosterism and city affordability: for whom is the ‘branded’ green city. 2021. Garcia Lamarca et al. Urban Studies. [LINK](#)
- Policy and Planning Tools Urban Green Justice. 2021. BCNUEJ. [LINK](#)
- The Green Divide documentary. 2024. BCNUEJ. [LINK](#)



Ensuring ~~Improving~~ secure access to nature ~~creates benefits~~ for all



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Additional logos

Busting myths

***“Protecting nature is
against landowners’
interests”***

Recommended literature

- Visit our website <https://europeanlandowners.org/>
- Research paper / report :
<https://europeanlandowners.org/publications/small-wildlife-of-fields-and-meadows-in-europe/>
- Life programme : <https://enplc.eu/>

[Publications](#): Private Land Conservation in Europe; how to set credits for ecosystems services in the international market?



Protecting nature is ~~against~~ in landowners' interests



Busting myths

***“Our landscapes
have always
looked like this!”***



Richard Grayson

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Recommended literature

- Blundell, A and Holden, J. (2015) Using palaeoecology to support blanket peatland management <https://doi.org/10.1016/j.ecolind.2014.10.006>
- Chambers et al. (1999) Recent rise to dominance of *Molinia caerulea* in environmentally sensitive areas: New perspectives from palaeoecological data <https://doi.org/10.1046/j.1365-2664.1999.00435.x>
- McCarroll et al. (2017) Application of palaeoecology for peatland conservation at Mossdale Moor, UK <https://doi.org/10.1016/j.quaint.2014.12.068>



**Our landscapes
have **not** always
looked like this!**



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Busting myths

***“Data will tell us
what to do”***



Florence DAMIENS
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Recommended literature

IPBES Chapter: Razzaque, Jona, Ingrid Visseren-Hamakers, Ambika Prasad Gautam, Leah R. Gerber, Mine Islar, Md Saiful Karim, Eszter Kelemen, et al. “Chapter 6.options for Decision Makers”. Zenodo, May 31, 2019.

<https://doi.org/10.5281/zenodo.5519491>.

Visseren-Hamakers, I.J. et al. (2021) ‘Transformative governance of biodiversity: insights for sustainable development’, *Current Opinion in Environmental Sustainability*, 53, pp. 20–28. Available at: <https://doi.org/10.1016/j.cosust.2021.06.002>.



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Aveliina Helm

Science advisor to the minister,
Ministry of Climate, Estonia

Micheál O' Cinneide

Corrib Beo, Ireland

We will decide what to do with **Data**
~~will tell us what to do~~

Science as quest
~~for objective truth~~ for socially
actionable and robust knowledge

~~We are too small to make an
impact~~ Every action matters

Citizens ~~aren't interested
in protecting~~ really do care
about nature



We will decide what to
do with the data **will**
~~tell us what to do~~



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Busting myths

***“Science as quest
for objective truth”***

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Recommended literature

Büttner, L., Darbi, M., Haase, A., Jax, K., Lepenies, R., Priess, J., Zeug, W., 2023. Science under pressure: how research is being challenged by the 2030 Agenda. *Sustain. Sci.* 18, 1569–1574.

<https://doi.org/10.1007/s11625-023-01293-5>

Funtowicz, S.O., Ravetz, J.R., 1993. Science for the Post-Normal Age. *Futures* 25, 739–755.

[https://doi.org/https://doi.org/10.1016/0016-3287\(93\)90022-L](https://doi.org/https://doi.org/10.1016/0016-3287(93)90022-L)

Nowotny, H., 2003. Re-Thinking Science: From Reliable Knowledge to Socially Robust Knowledge, in: Lepenies, W. (Ed.), *Entangled Histories and Negotiated Universals: Centers and Peripheries in a Changing World*. Campus Verlag, Frankfurt/New York, pp. 14–31.

Science for socially actionable and robust knowledge ~~as~~ ~~quest for objective truth~~



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Busting myths

***“We are too small to
make an impact”***



REPUBLIC OF ESTONIA
MINISTRY OF CLIMATE



Aveliina Helm

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Professor of Restoration Ecology, University of Tartu
Chair, Society for Ecological Restoration, European chapter*

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Recommended literature

- *Greenmeter*. University of Tartu. greenmeter.eu
- *IPBES assessments*. ipbes.net

~~We are too small to~~
~~make an impact~~ Every
action matters



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Busting myths

***“Citizens aren’t
interested in
protecting nature”***



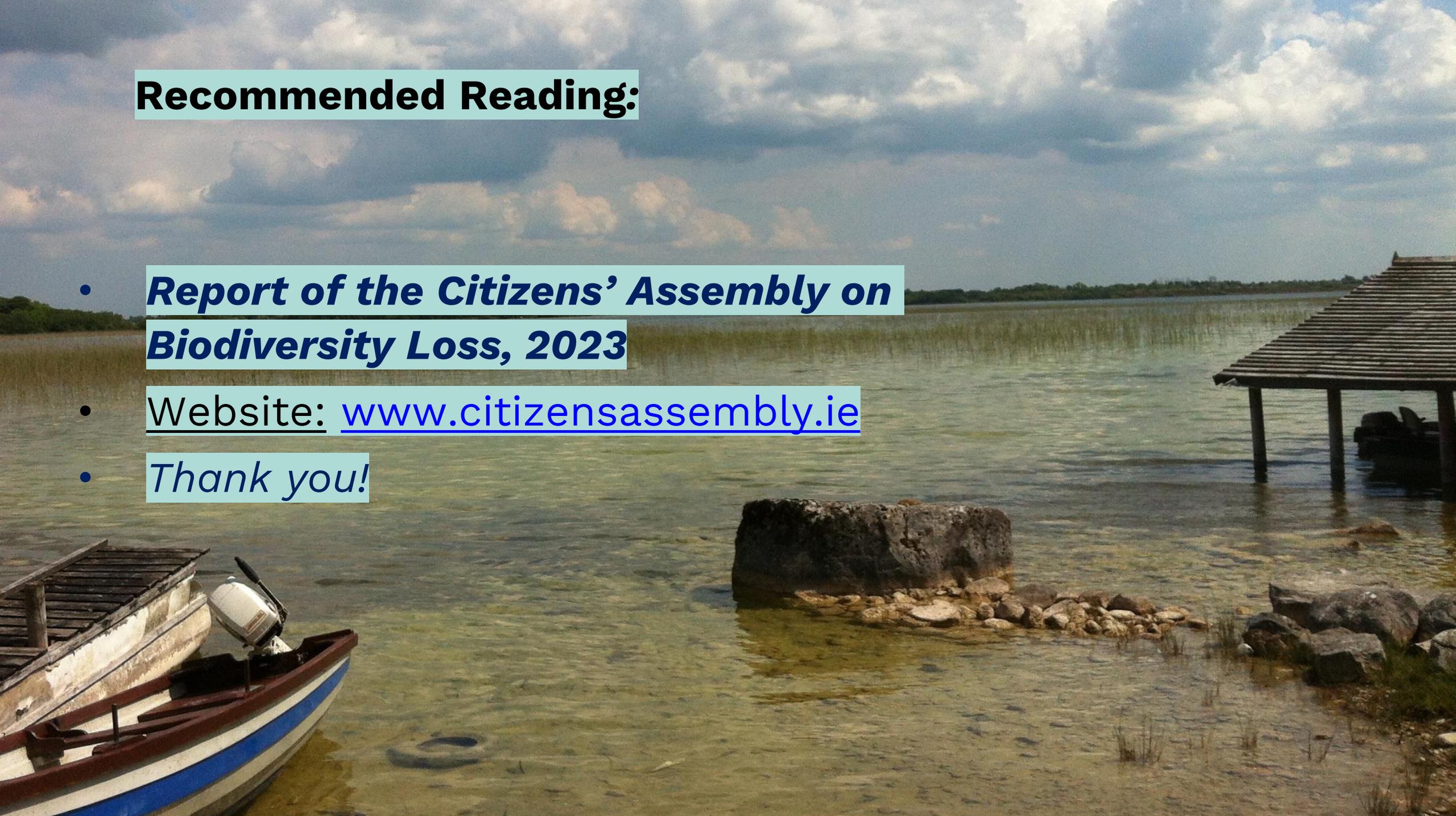
Dr. Micheál Ó Cinneide

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Recommended Reading:

- ***Report of the Citizens' Assembly on Biodiversity Loss, 2023***
- Website: www.citizensassembly.ie
- *Thank you!*



Citizens aren't
interested in
protecting *really* do
care about nature



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Sander Jacobs
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Milena Pereira Kozlowski
Generation Climate Europe

Sjanne Quellhorst
PRO Eijsden-Margraten

Valuation of nature
is a **technical** **political** challenge

~~Nothing there, just dirt~~ Living
soils provide us with essential
services

Nature has to come **last** first

~~Only people have~~ Everything
including nature can have rights

Busting myths

***“Valuation of nature
is a technical
challenge”***



**RESEARCH INSTITUTE
NATURE AND FOREST**

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Recommended literature

- [Diverse values of nature for sustainability](#) U Pascual, P Balvanera, CB Anderson, R Chaplin-Kramer, M Christie, ... Nature 620 (7975), 813-823
- [Summary for policymakers of the methodological assessment of the diverse values and valuation of nature of the Intergovernmental Science-Policy Platform on Biodiversity and ecosystem services](#). U Pascual, PB Levy, M Christie, B Baptiste. IPBES secretariat 2022
- [Five steps towards transformative valuation of nature](#). M Termansen, S Jacobs, R Pandit, TH Mwampamba, N Dendoncker, ...Current Opinion in Environmental Sustainability 64, 101344 2023
- [The pitfalls of plural valuation](#). S Jacobs, E Kelemen, P O'Farrell, A Martin, M Schaafsma, N Dendoncker, ... Current Opinion in Environmental Sustainability 64, 101345 2023

Valuation of nature



is a ~~technical~~

political challenge



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Busting myths

***“Nothing there,
just dirt”***

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References

- EU Soil Strategy. European Commission. https://environment.ec.europa.eu/topics/soil-and-land/soil-strategy_en
- Proposal for a Soil Monitoring and Resilience Directive. European Commission. https://environment.ec.europa.eu/publications/proposal-directive-soil-monitoring-and-resilience_en
- Mission soil. European Commission. <https://mission-soil-platform.ec.europa.eu/>
- EU Soil Observatory. European Commission. <https://esdac.jrc.ec.europa.eu/euso>

~~Nothing there, just dirt~~



Living soils provide us
with essential services



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Busting myths

***“Nature has to
come last”***



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Nature has to



come ~~last~~ first



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Busting myths

***“Only people
have rights”***



Sjanne Quellhorst

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Recommended literature

- Rechten voor de Natuur, Jessica den Outer, 2023
- Rechtsgelijkheid voor de natuur, Erik Kaptein, 2021
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 Only people

Everything, including
nature, can have rights



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~~It is~~ Is it all about immediate profit?

Ecosystem insurance is **not** workable

Biodiversity **makes** ~~or~~ profit

Stability can only be guaranteed when ~~the economy is growing~~ people and planet are prioritised

Busting myths

***“It’s all about
immediate profit”***



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Is it ~~It's~~ all about
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Busting myths

***“Ecosystem insurance is
not workable”***



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Recommended literature

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Ecosystem insurance **is** ~~not~~ workable



Busting myths

“Biodiversity or profit”



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Biodiversity or makes profit



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Busting myths

“Stability can only be guaranteed when the economy is growing”

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This project has received funding from the European Union's Research Executive agency under grant No. 101082213. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the



This work is also funded by UK Research and Innovation (UKRI) under the UK government's Horizon Europe