





Lecture by international expert:

#### **Frans Schepers**

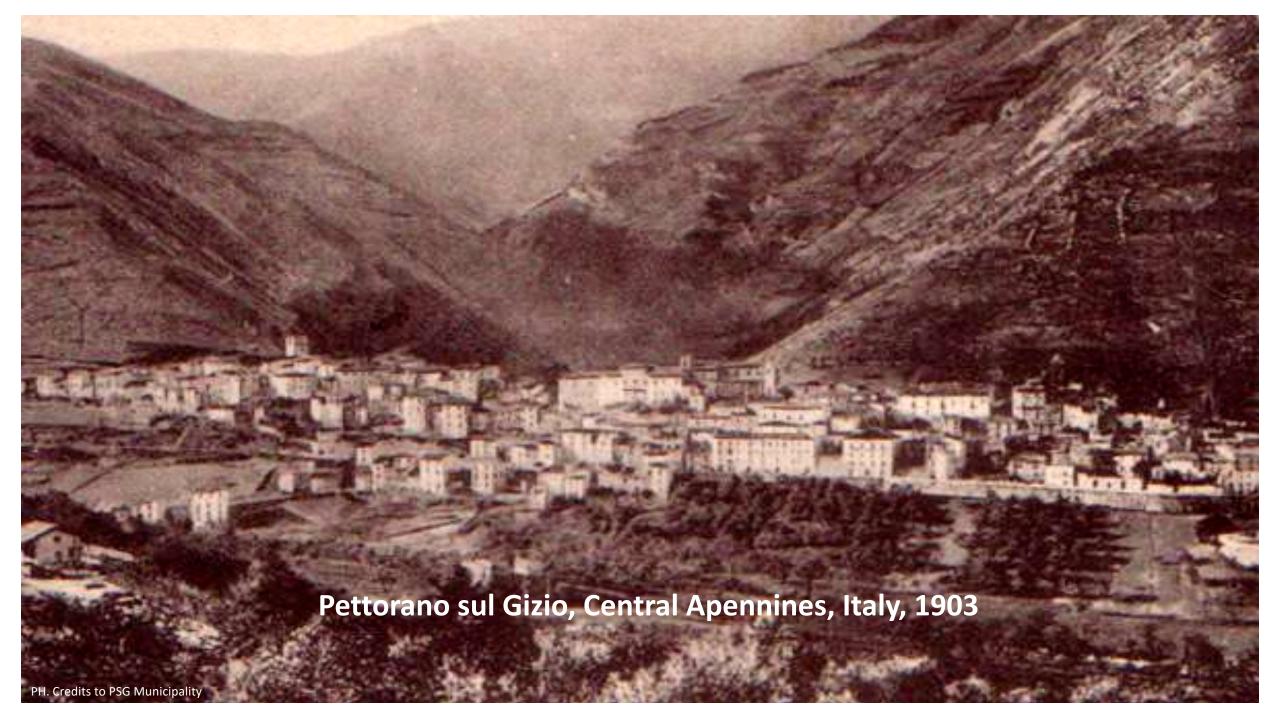
**Rewilding Landscapes in Europe** 

Date: November 8<sup>th</sup> at 2pm CET

Facilitated by Handrij Härtel

Note: lecture will be held in English



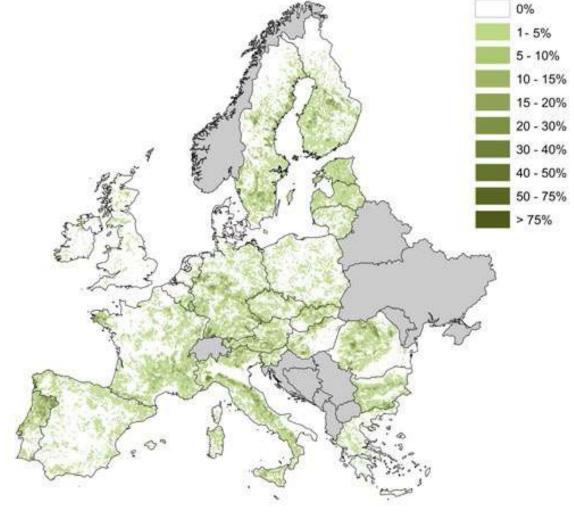




### RURAL DEPOPULATION, URBAN EXPANSION

- 2020: 4 of 5 Europeans live in urban areas
- 18-25 million hectares left aside until 2035 (IEEP, 2010)
- Main drivers: young people leaving, local economy and culture suffering (despite subsidies)









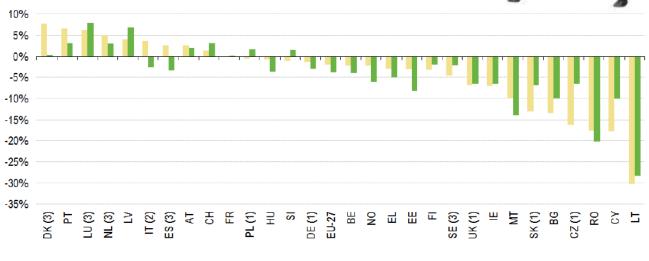




Old generations stay behind...

# Large European landscapes without grazing for the first time in a long history





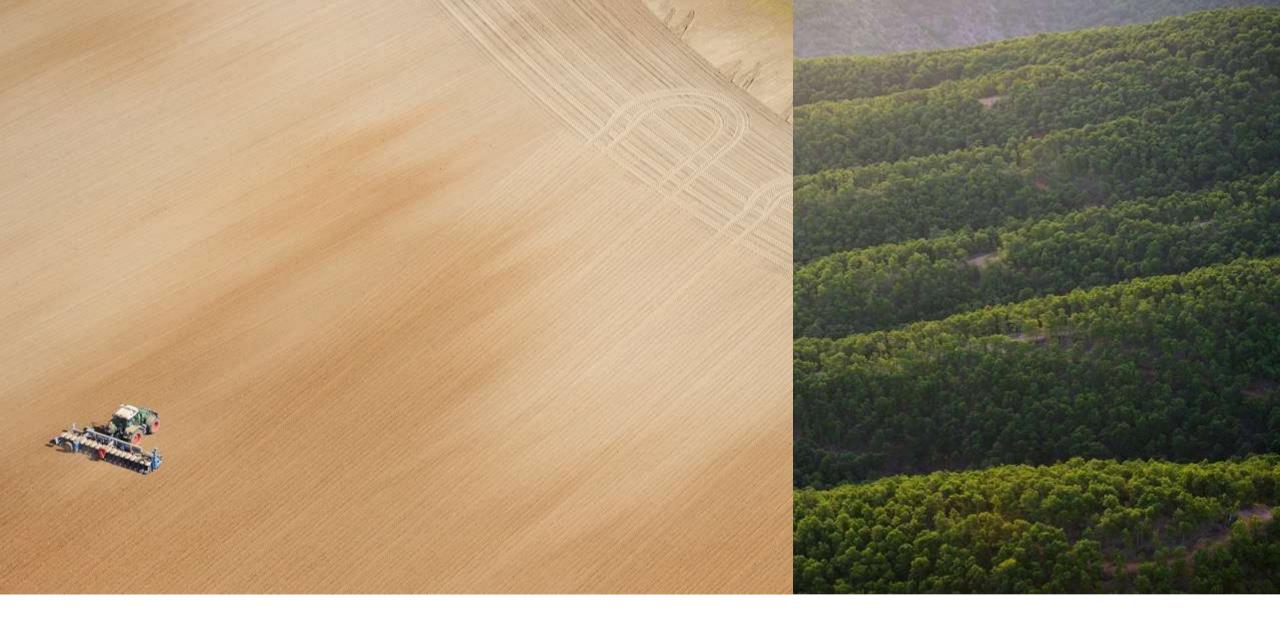




Livestock grazing is declining









Impact on biodiversity: a digital landscape?

#### THREATS OF RURAL LAND ABANDONMENT



#### **Environmental impact**

- Open and diverse habitat biodiversity is being lost because of bush and forest encroachment, resulting in a rapid decline of species, biodiversity and natural ecosystems.
- Populations of many species (mammals, birds, reptiles, insects, plants) dependent on open and half-open (mosaic) landscapes are declining and loosing terrain.



#### Socio-economic impact

- Experienced labour forces and associated enterprises are diminishing.
- Employment prospects are worsening.
- Rural areas are becoming less economically productive and increasingly dependent on subsidy support.
- Rural economies are becoming less attractive for investors that cannot see the opportunities they present.



#### **Cultural** impact

- Rural populations are becoming aged as younger community members move to urban areas.
- Cultural heritage and traditional skills of rural areas are being eroded.
- Families are fragmenting also resulting in associated land marginalisation.

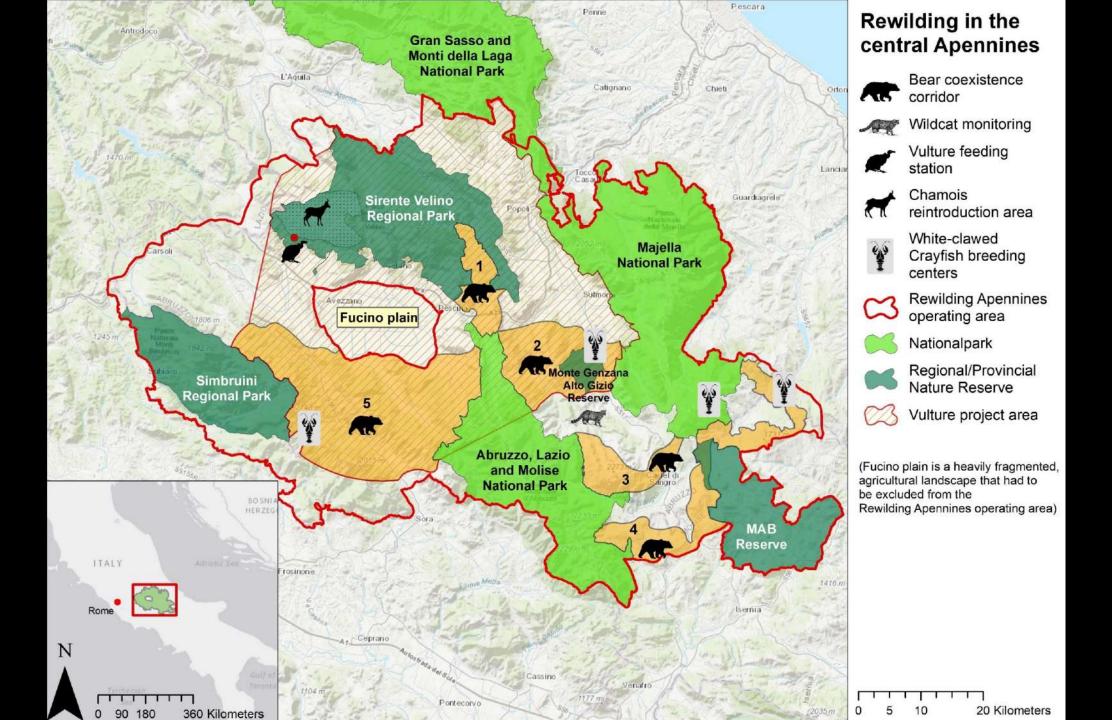












#### OPPORTUNITIES OF RURAL LAND ABANDONMENT



#### **Environmental impact**

- Less human influence means natural processes have a chance to help improve the natural environment and restore nature.
- Wildlife species can come back and experience less conflict with humans, and food chains can restore.
- Dynamic, mosaic landscapes can develop driven by large herbivores and large carnivores, supporting species of a wide range of open/semi-open habitats.



#### **Socio-economic impact**

- New businesses can be developed based on wilder landscapes and wildlife comeback, offering new and different products.
- Provision of new job and income opportunities.
- Social coherence and local society can be enhanced if new local businesses build networks and generate multiplier effects.
- Reduces dependency on subsidies.

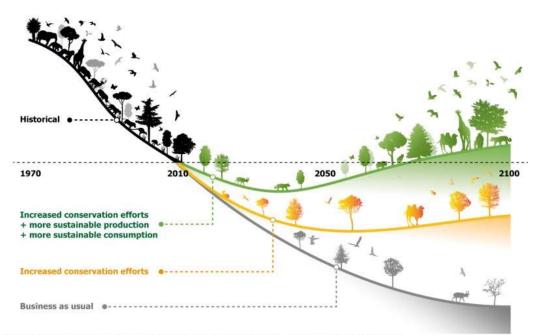


#### **Cultural impact**

- Younger people and families returning to the countryside looking for new opportunities, bringing new life into rural communities.
- Local/regional branding of areas and products providing new identities and local pride that are nature/wildlife related.
- Cultural heritage and traditional skills reinvigorated and in a different setting.



# DEGRADATION OF EUROPEAN LANDSCAPES



This artwork illustrates the main findings of the article, but does not intend to accurately represent its results (https://doi.org/10.1038/s41586-020-2705-y)



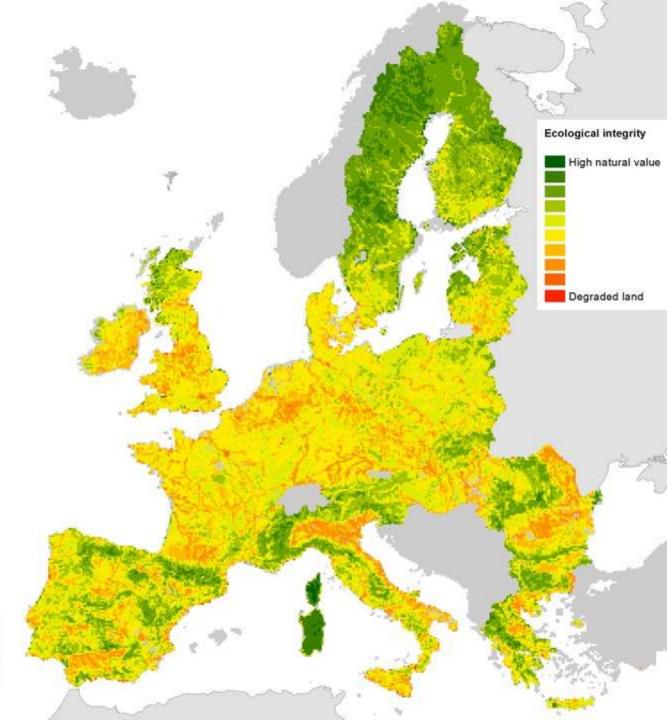
















Natura 2000: only 9-19% of financing needs covered

#### **REWILDING: WHAT'S DIFFERENT?**

- A new and positive appreciation of wild nature
- Biodiversity derived from natural processes
- Future oriented, learning from the past
- Reconnecting people with wild nature, seeking for coexistence and benefits
- Much more cost-effective, compared to recurrent management
- Huge potential to capture carbon and adapt through large-scale nature recovery
- Progressive, moving up a scale of wildness



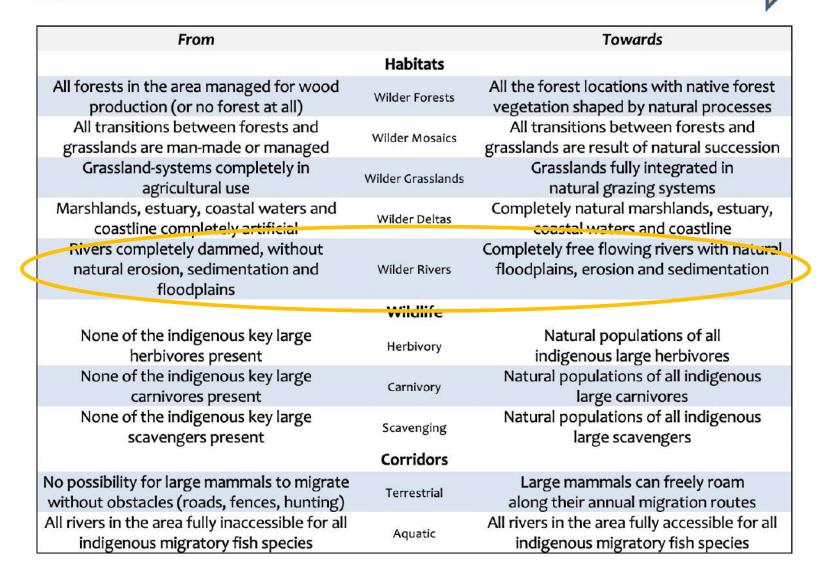






#### A REWILDING SCALE

"The goal of rewilding is not to restore a painting that then needs curating, it is about restoring a system that can come to look after itself"





#### PRINCIPLES OF REWILDING

Rewilding practitioners from across Europe have co-formulated a set of principles that characterise and guide rewilding in a European context. All equally important, these are as follows.



**PROVIDING HOPE AND PURPOSE** 



**COMPLEMENTARY CONSERVATION** 



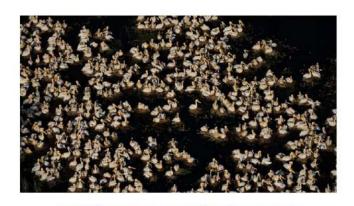
OFFERING NATURAL SOLUTIONS



**LETTING NATURE LEAD** 



THINKING CREATIVELY



**WORKING AT NATURE'S SCALE** 

# A NETWORK OF REWILDING PRACTITIONERS

- Started in 2013 at WILD10
- Now 85 members in 27 European
   countries ~ 5 million hectares involved
- Sharing experiences through webinars
   (> 30 so far)
- Physical exchanges, trainings and visits across the continent
- Target: 160 members by 2030





# TOWARDS MULTIPLE LARGE REWILDING LANDSCAPES

- Currently 10 (->15) 'flagship' landscapes, selected from > 30 nominations
- At least 100,000 ha part of larger landscapes
- Each focusing on specific themes;
- Locally anchored and led, each embedded in local





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#### **OUR INTERCONNECTED ROLES**



#### A demonstrating role

- Our landscapes the physical places where we pioneer and show rewilding in a holistic way
- Place-based, tangible, meaningful and substantial results and impact
- Acting as labs, application of rewilding models and principles – learning by doing
- Building expertise and knowledge
- Building our brand as practitioners

#### A catalysing role

- Using our convening power
- Developing smart financial mechanisms for scaling up, e.g. rewilding credits, commercial finance, green bonds etc.
- Working through strategic amplification partners at European scale
- Advocacy and enabling policies at global,
   EU and national level
- Science-based impact monitoring
- Marketing, communication and training



#### **PUTTING PRACTICE CENTRE STAGE – 4 MAIN INTERVENTIONS**



#### Wilder Nature

Enabling natural processes through river restoration, reflooding, dam removal, natural grazing, peatland rewetting, natural regeneration



#### **Nature-based economies:**

Support transition of local economy with landscape business plans, new business models, providing finance, access to markets



#### Wildlife Comeback

Enabling species return by creating conditions, restoring trophic networks, reintroductions, coexistence, wildlife corridors, change hunting regimes



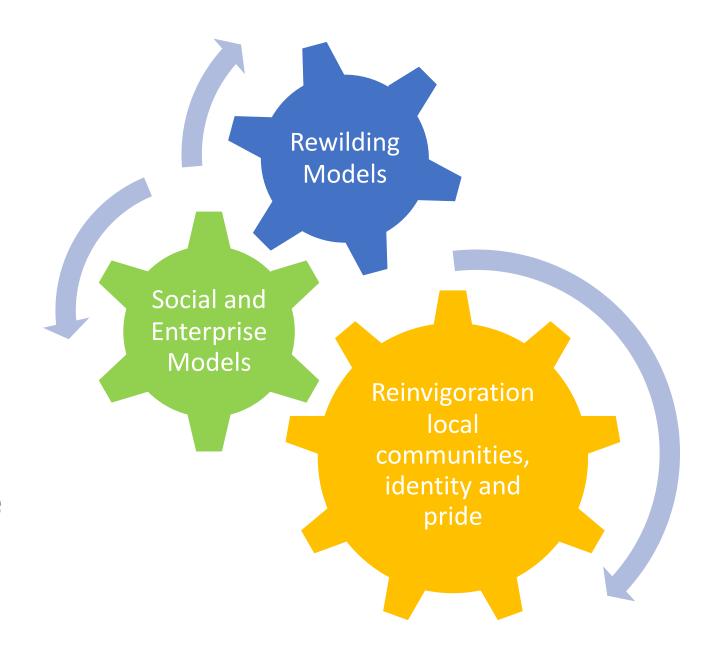
#### Interest in the Wild

Inspiring and reaching out to large audiences, new engagements, providing new perspectives, empowering communities, providing new identity and pride



### LEVERAGING A NEW AND POSITIVE NARRATIVE

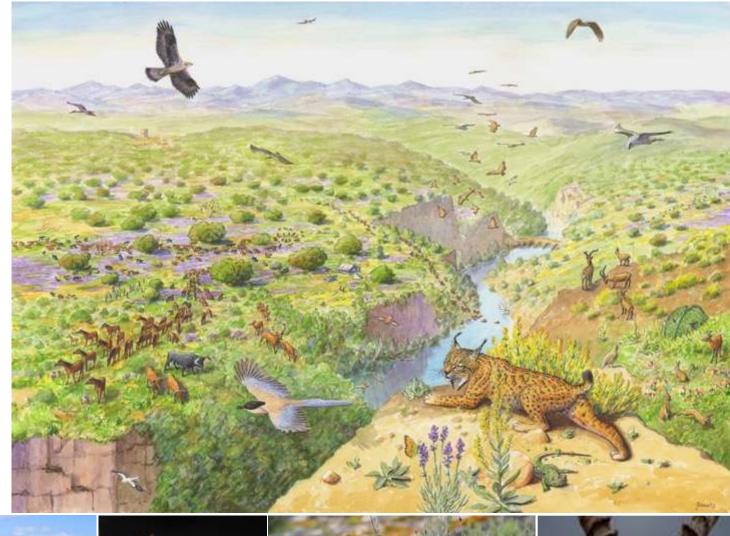
- Turning problems into opportunities
- Rewilding as the engine of change
- Scalable models become spinning wheels
- Scaling-up potential leading to a nature positive, more climate resilient, local economy





#### **GREATER COA VALLEY**

- Portugal
- Restoring Mediterranean forests and wildlife corridor
- Reducing risk of fire: natural grazing
- Iberian wolf & Iberian lynx
- Local economy: Wild Côa Network, local products and culture







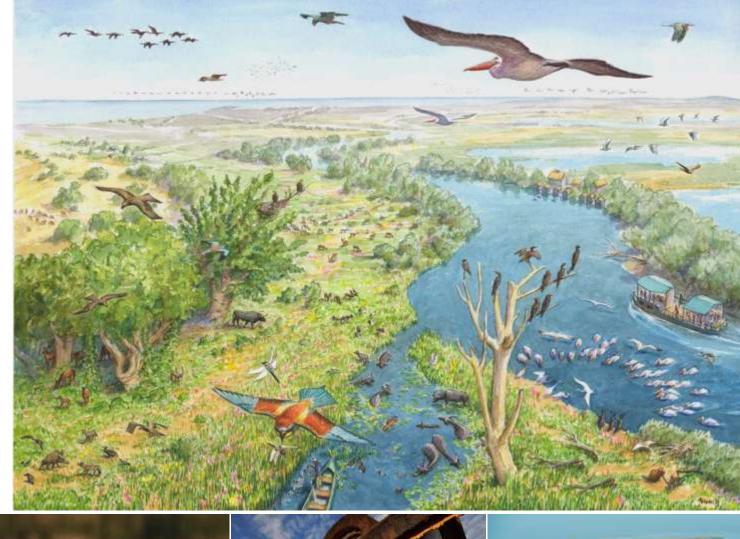






#### DANUBE DELTA – Romania, Ukraine & Moldova

- Reinvigorated delta vision, supporting nature & local communities
- Large-scale wetland & steppe restoration
- Natural grazing: kulan, water buffalo, konik, deer
- Nature-based economy













# **SOUTHERN CARPATHIANS -** Romania

- Free-roaming population of European bison (>150 animals in 2025)
- Representing large landscape restoration plans
- Development of local 'bison economy'







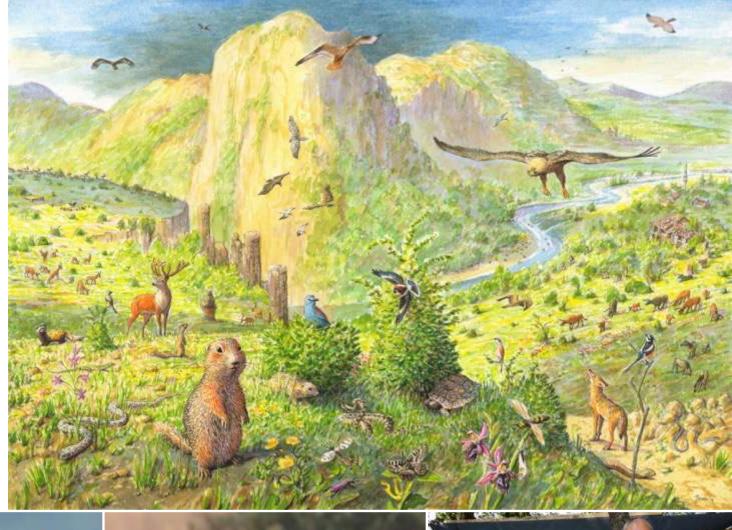






# RHODOPE MOUNTAINS - Bulgaria - Greece

- Restoring trophic chains
- Improve prey base for large carnivores and scavengers
- Natural grazing with rewilded horses and bovines
- Three vulture species as 'flagship species'
- Local nature-based economy











# WORKING TOWARDS LONG-TERM IMPACT

#### **ECOGRAPHY**

A JOURNAL OF SPACE AND TIME IN ECOLOGY

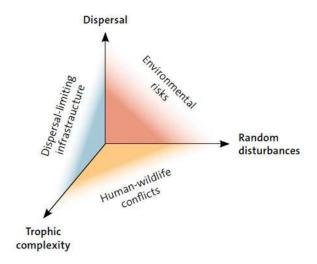
Research 🗈 Open Access 💿 👣

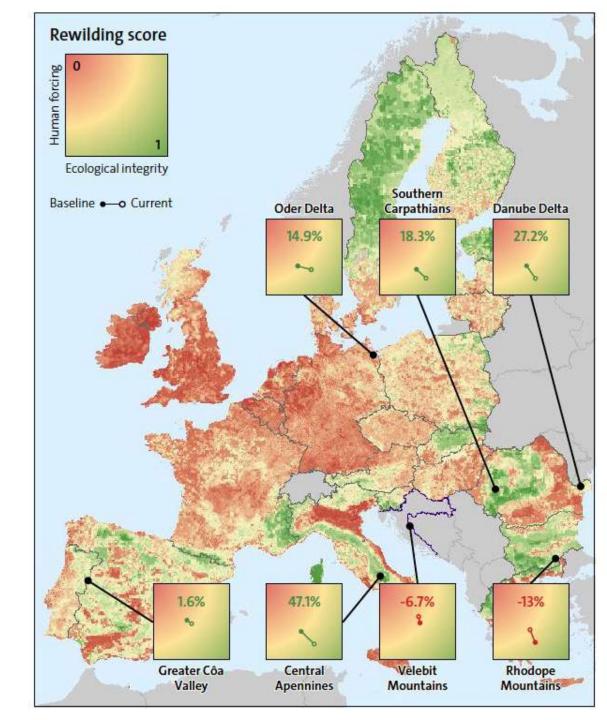
Expert-based assessment of rewilding indicates progress at sitelevel, yet challenges for upscaling

Josiane Segar ➡, Henrique M. Pereira, Raquel Filgueiras, Alexandros A. Karamanlidis, Deli Saavedra, Néstor Fernández

First published: 01 September 2021 | https://doi.org/10.1111/ecog.05836

#### Three dimensions of ecological recovery





# **ECOLOGICAL INTEGRITY OF PROTECTED AREAS**

### Based on a quick scan, showing preliminary results

Ia – Strict Nature Reserve

Ib – Wilderness Area

II – National Park

III – Natural Monument

IV – Habitat/Species Management Area

V – Protected Landscape

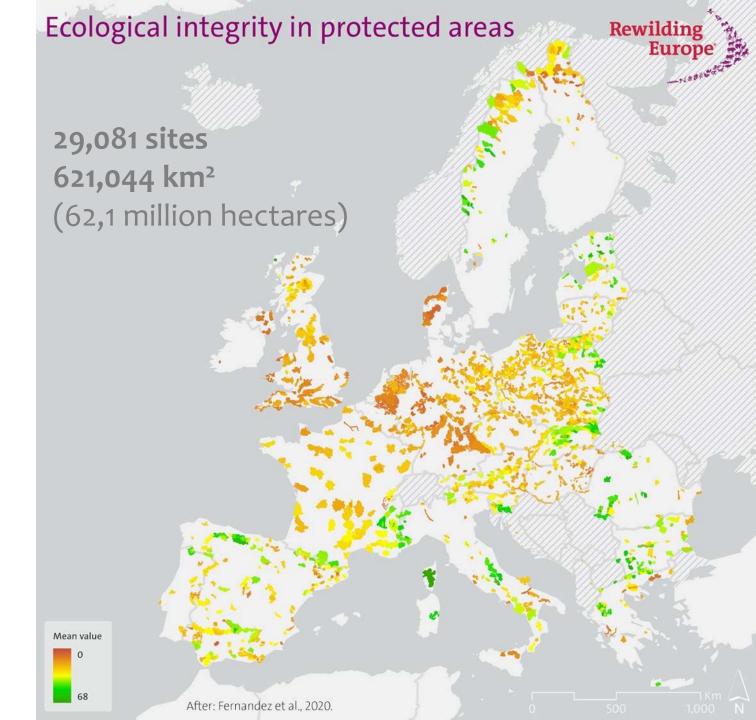
VI – Managed Resource Protected Area

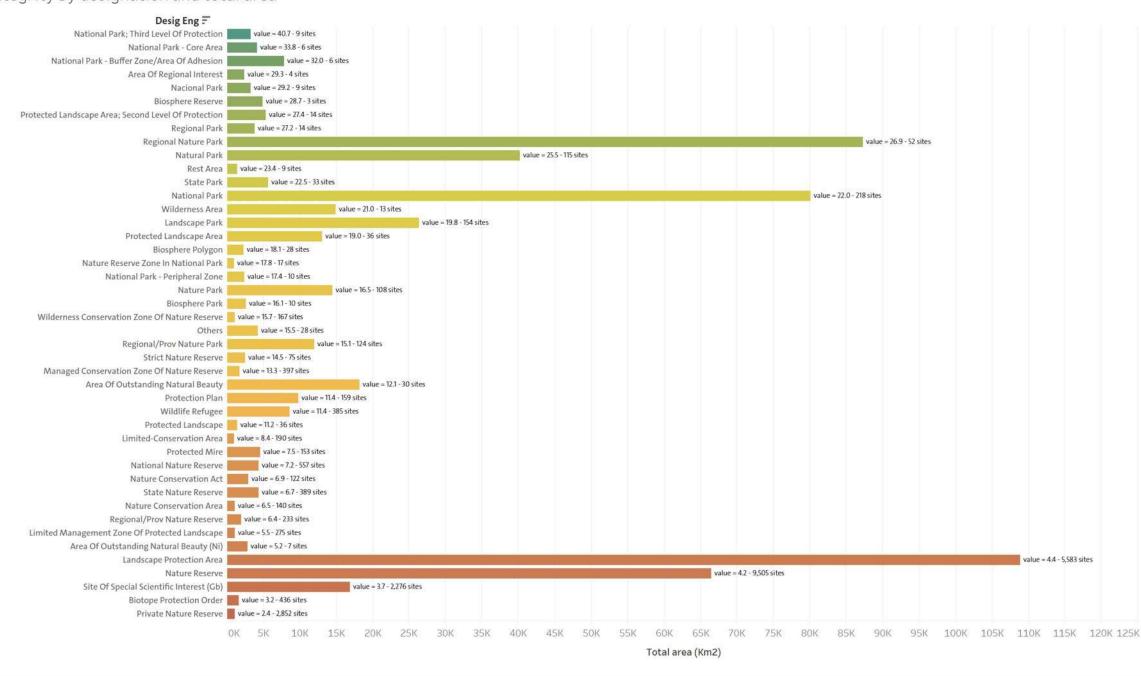








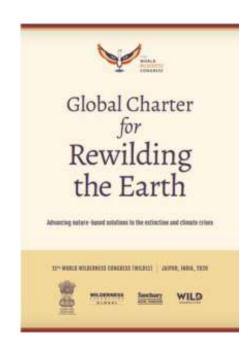




#### AN EMERGING GLOBAL MOVEMENT

- Established in spring 2021 out of a few leading initiatives, facilitated by the WILD Foundation
- 120+ members joined so far, from all continents
- Accelerating and mobilizing a global community to rewild the Earth (Charter)
- Putting rewilding on the global agenda (UN Decade,
   CBD COP 2022 Montreal)
- Focus on animating the carbon cycle (ACC)
- 1st World Rewilding Day on 21 March 2021























































Our supporters (up) and partners (below)





























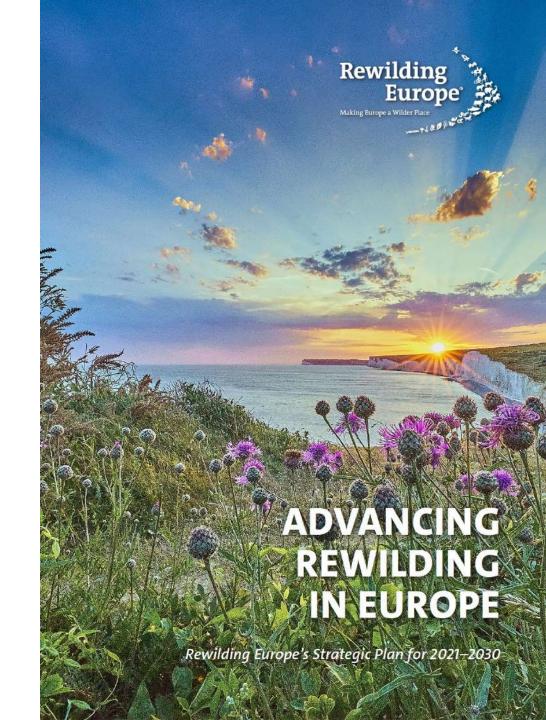




#### WHERE ARE WE NOW?

- Exciting rewilding movement in Europe
- 10 Rewilding Landscapes operational
- >10 years of unique rewilding experience
- European team of > 160 people in > 17 countries, 9 local organisations set up
- Rewilding principles and models developed and being applied
- European Rewilding Network with 85 members in 27 countries
- Many results, impacts starting to show
- Big opportunities ahead for European rewilding





#### **SETTING – A REAL MOMENTUM**



- Momentum for rewilding is growing rapidly, in Europe and worldwide
- Huge opportunity to connect nature recovery with the climate agenda (COP26)
- UN Decade, EU Green Deal, Restoration Directive – serious change is underway
- Climate and Biodiversity COP 2022
- Strong growth in interest by philanthropic & financial institutions and corporates (ESG, Nature Positive)



# Rewilding the Sea

How to Save Our Oceans

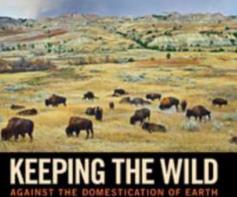
'I doubt any more important book will be published this year' STEPHEN FRY

'Desperately needed'

CHARLES CLOVER
Prizewinning author of The End of the Line

ESSAYS OVER EEN OFFENSIEVE NATUURSTRATEGIE
KOEN ARTS; LIESBETH BAKKER, ARJEN BUIJS (RED.)

KNNYUTGEVERLI





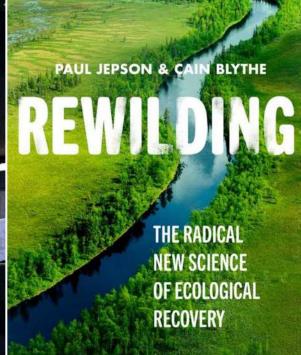
#### **FERAL**

REWILDING THE LAND, SEA AND HUMAN LIFE

'Captivating. Will change the way you think about the natural world, and your place in it'

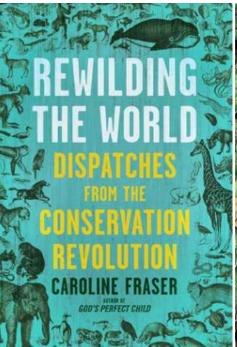


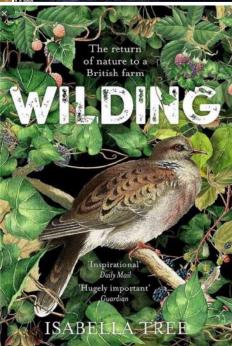
GEORGE MONBIOT

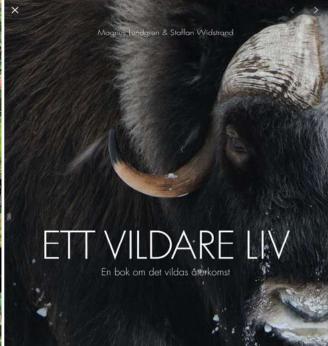




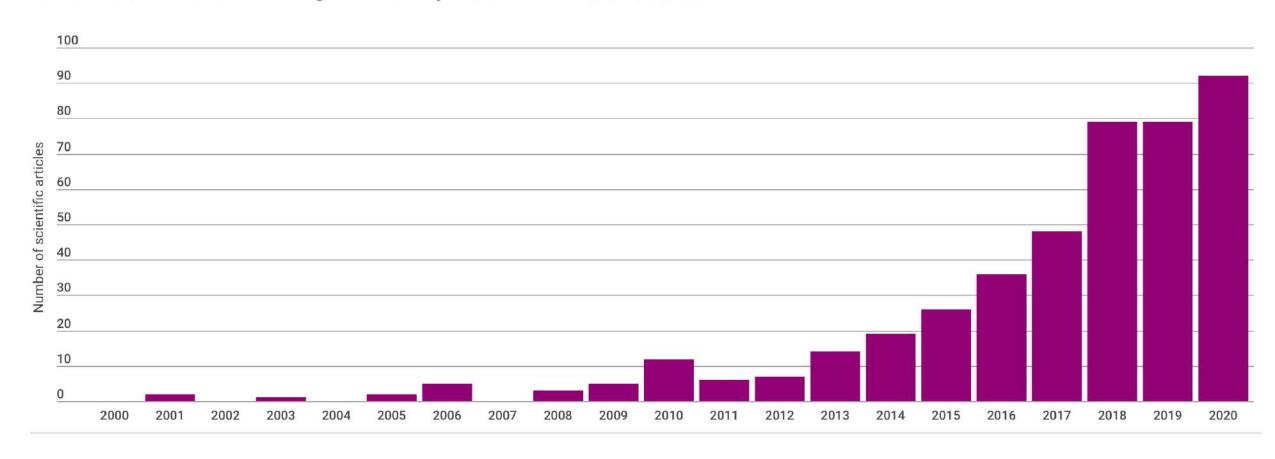








Number of scientific articles with "rewilding" in the title or keywords on the Web of Science database













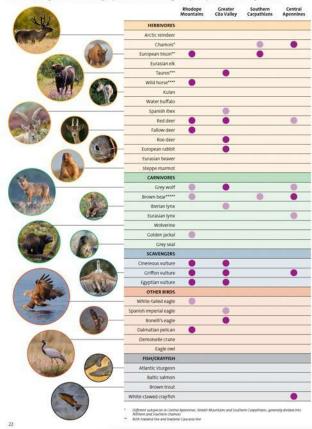




#### **READING MORE...**

#### Working with wildlife

An overview of the various wildlife species that Rewilding Europe's operational areas focus on.



reintroduction, anti-poaching, anti-poisoning and coexistence work, and habitat improvement. Wild horse\*\* Water buffaki Smanish ilbex Red deer Fallow deer Roe deer European rabbit Eurasian beave CARNIVORES Grey wolf Brown bear\*\*\*\* therian lynx Eurasian lynx Golden jackal Grey seal Dalmatian pelican Demoiselle crane Eagle owl FISH/CRAYFISH Atlantic sturgeon Baltic salmon Brown trout White-clawed cravit

The species is keystone/flagship and benefits indirectly from

Populations are enhanced through measures such as restocking.

