



GREIFSWALD
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Policy instruments in agriculture guiding towards sustainable use of peatlands in Europe

Sabine Wichmann et al.



Photo: S. Wichmann



Photo: S. Wichmann



Photo: S. Wichmann

Living peatlands ('mires') store carbon

- Water saturation
- Biomass production > decay
- Dead plants accumulate as 'peat'

Peat accumulates during thousands of years
→ stores concentrated carbon in thick layers



A 15 cm thick peat layer contains per hectare more carbon than a High-Carbon-Stock tropical rainforest



On only 3% of the global land area, peatlands contain
> 500 Gigaton of carbon in their peat



i.e. twice the carbon stock of the World's total forest biomass (30% of land)



Global peat C-sink is small

equals only 1% of annual C-emissions from burning fossil fuels

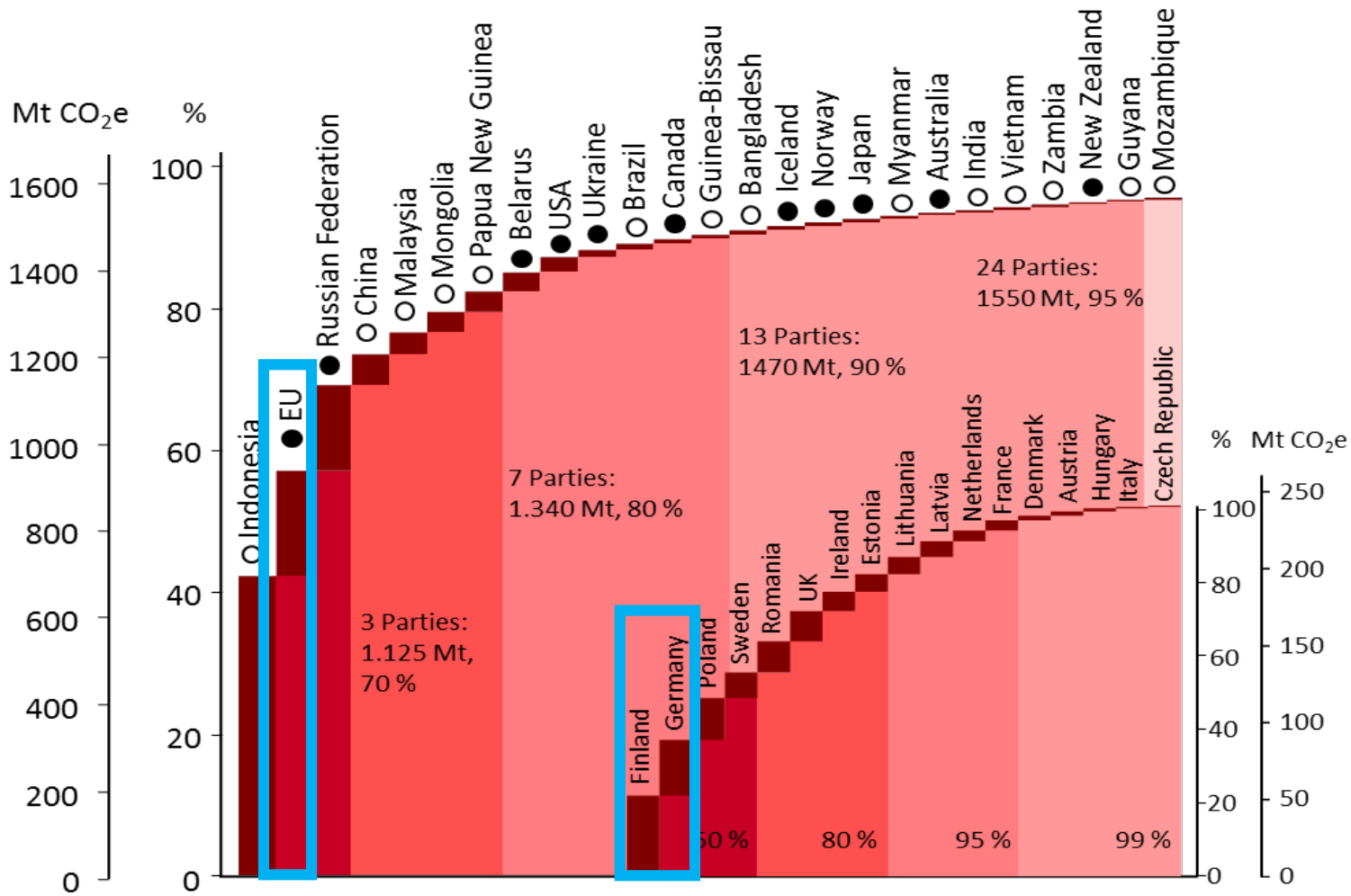


Drained peatlands = large GHG source

- Drainage for agriculture, forestry, peat extraction...
- Destroys long-term carbon store
- Peat is oxidised \rightarrow $\text{CO}_2 \uparrow + \text{N}_2\text{O} \uparrow$

Emissions from drained peatlands

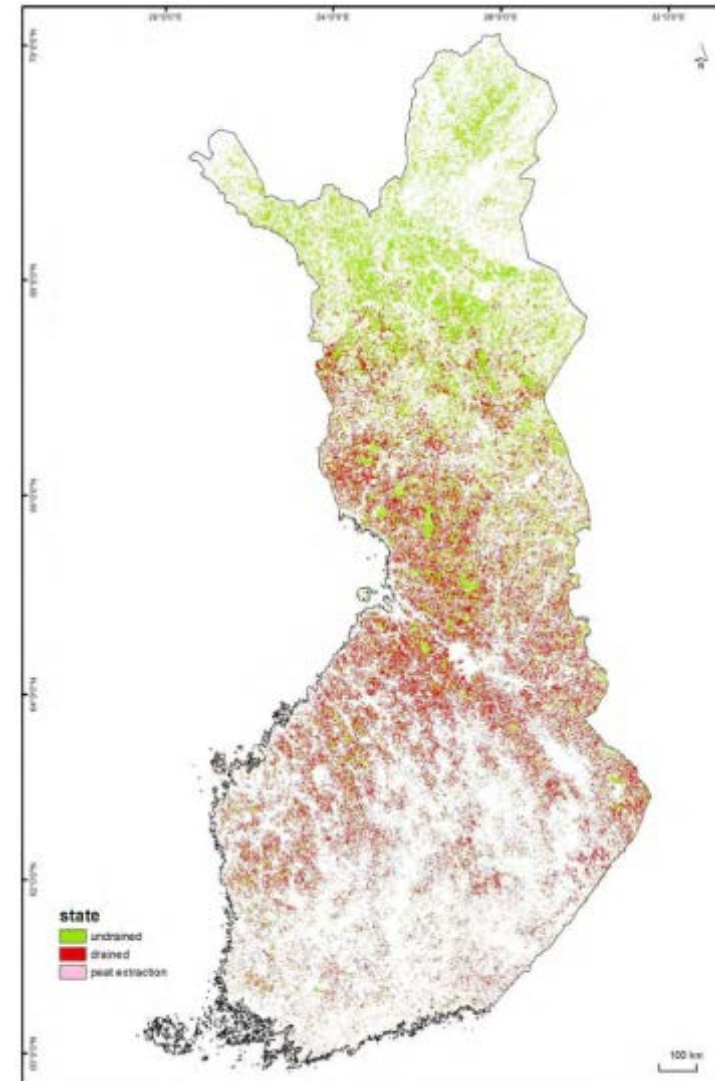
- Indonesia leads the list of global top emitters, but **EU is 2nd**
- within the EU: **Finland** is 1st and **Germany** 2nd



Peatlands in Finland

- one of the most peatland rich countries of the world
- maximum extent of “suo” (land with peat-forming vegetation):
10.4 M ha / 104,000 km²
- pristine “suo” habitats left untouched:
3.5 M ha

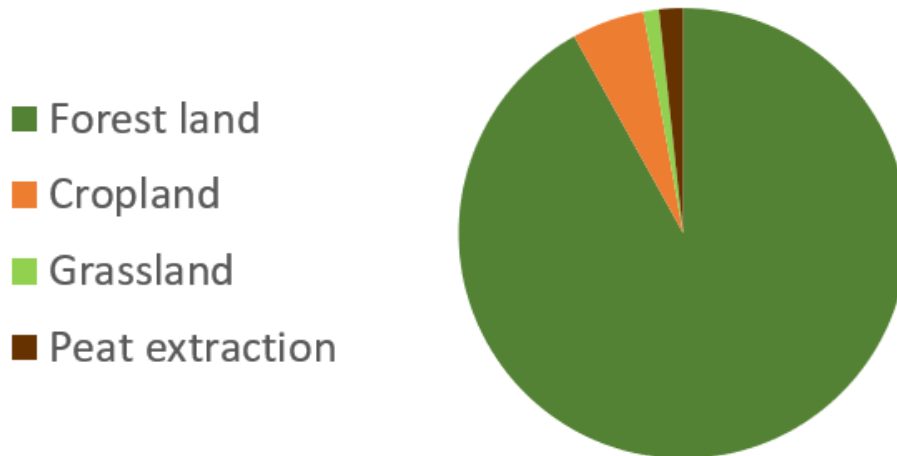
- the world’s most extensive programme of draining peatlands, mostly for forestry:
~ 300.000 ha per year (1970s)



Finland: drainage & emissions

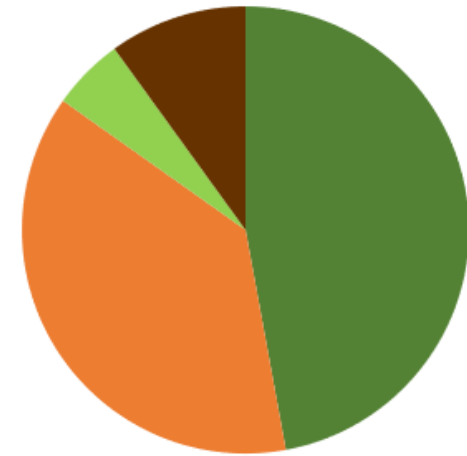
Drained land on organic soils

Total area: ~ 6.5 M ha



Emissions

Total: 16.4 Mt CO₂ / yr

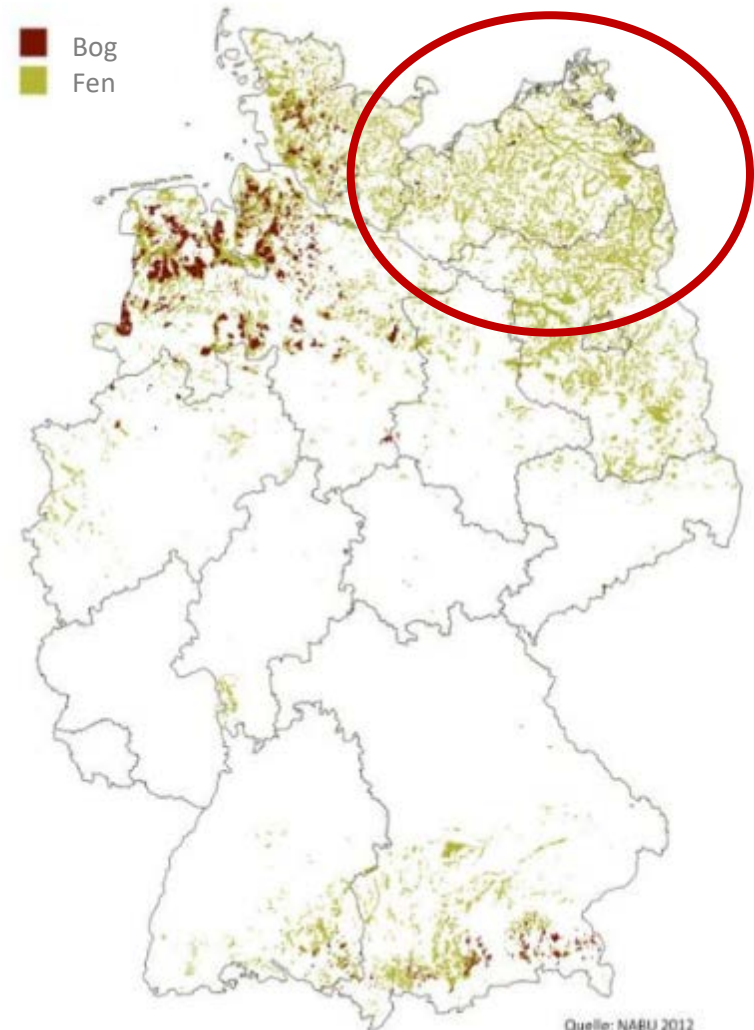


→ Agricultural land: 6% of area, but 43% of CO₂ emissions

→ IPCC (2014) default emission factors: 54 % (total: 20.7 Mt CO₂)

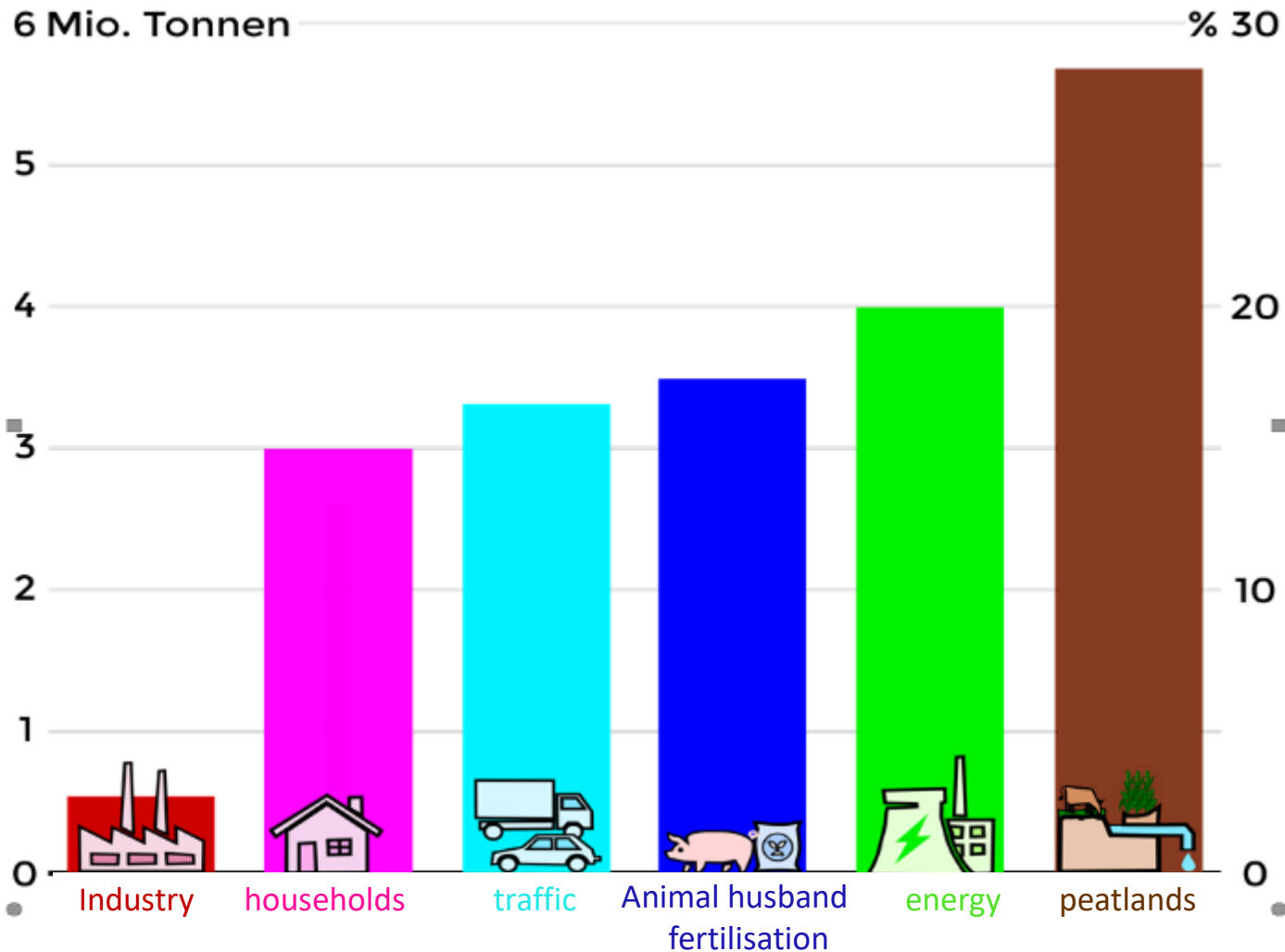
Peatlands in Germany

- Area: 1.4 M ha organic soils
→ 98 % drained
- GHG emissions: 47 M t CO₂e
→ 5.4 % of total German emissions
- In peatland rich regions even more...



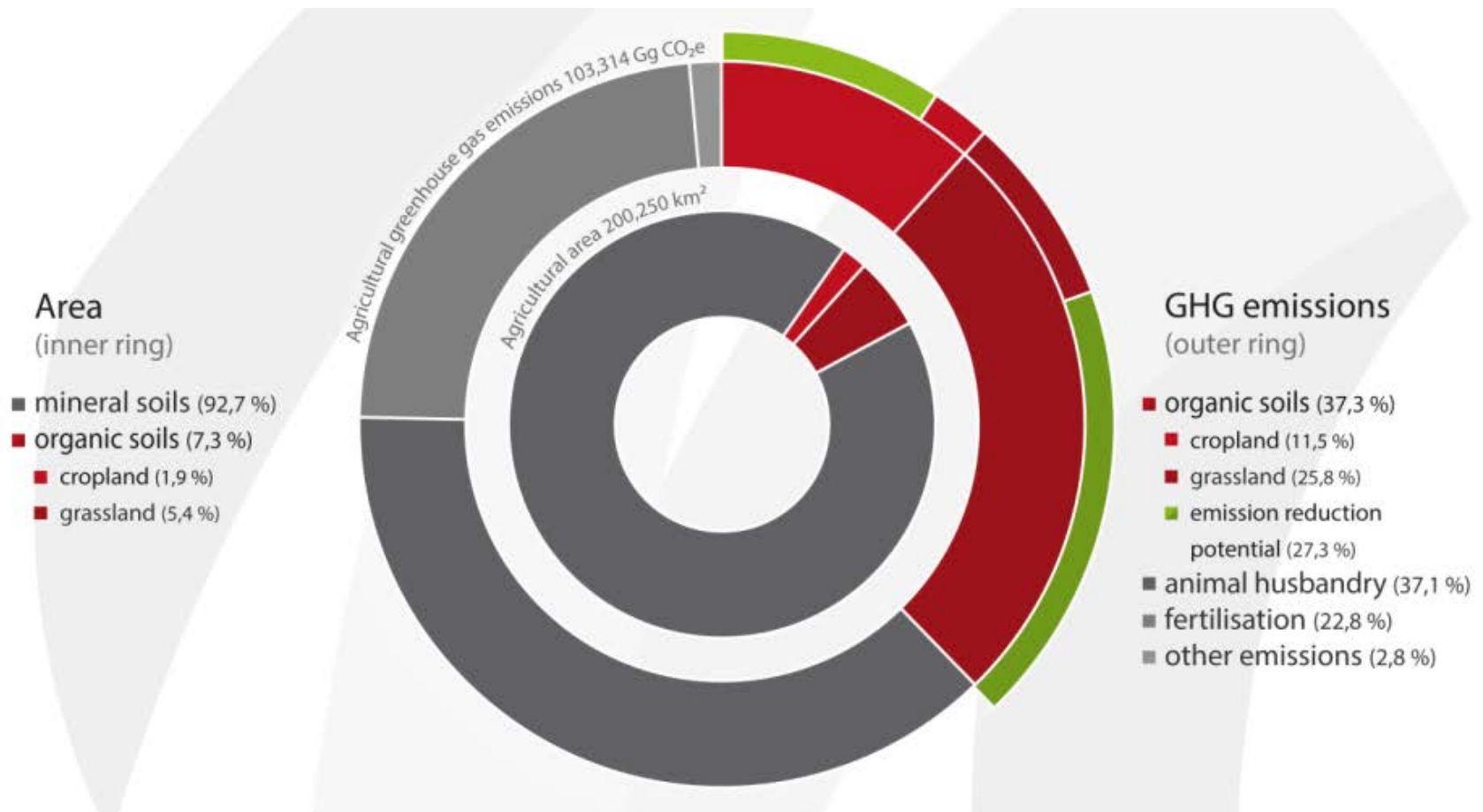
Mecklenburg-Westernpomerania

→ drained peatlands largest source of GHG emissions



German agricultural GHG emissions

7 % of agricultural area → 37 % of agricultural emissions



Deeply drained grassland on peat in Germany emits
29 t CO₂e per ha per year = 145,000 km with middle class car



Milk and cheese from peat grassland have a huge emission foot print



1 kg cheese
= 55 kg CO₂

1 L milk
= 2.4 L petrol

A potato field on peat in Europe emits 37 t CO₂e /ha/yr
= more C than the produced potatoes contain...



Potatoes are fossil
resources...



German peatland agriculture causes a **climate damage of € 7.2 billion**¹
= equals the total net value added of German agriculture
and gets ~ € 410 million EU CAP direct payments²



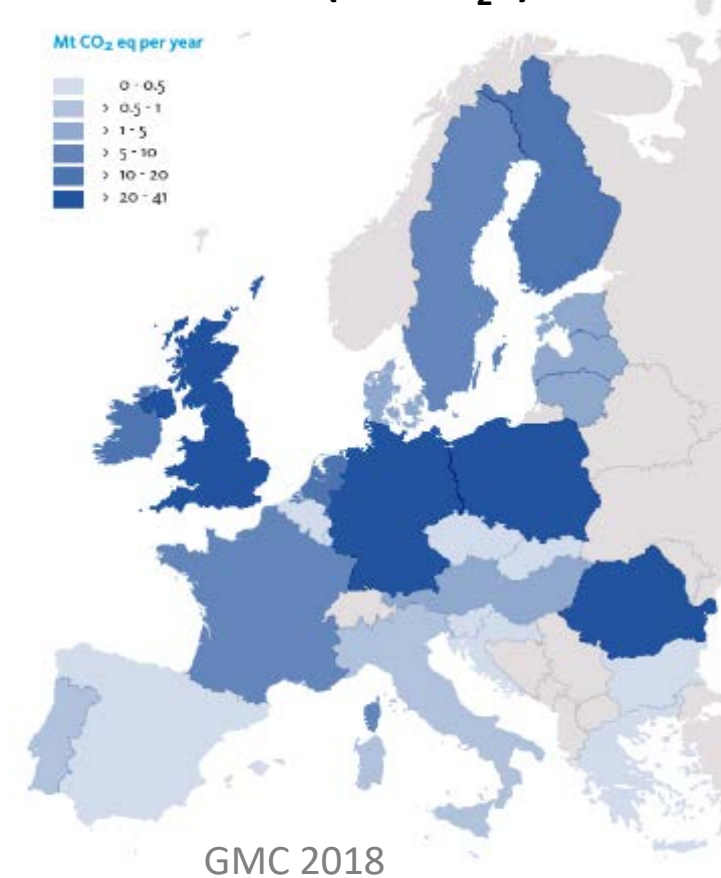
¹ 40 M t CO₂e á € 180

² 1.4 M ha á € 281

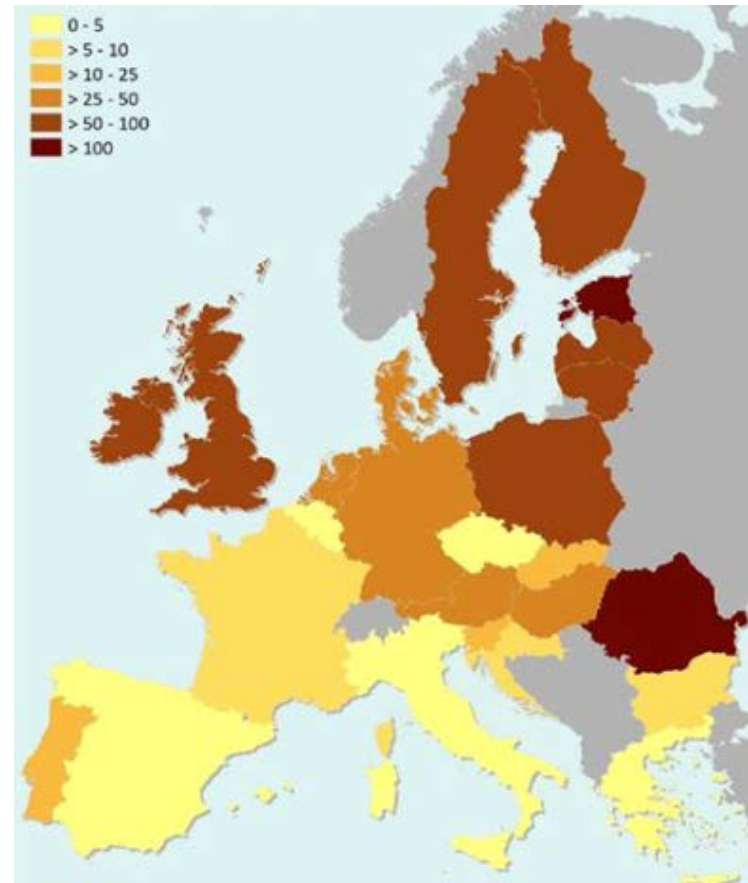
Peatland agriculture in the EU

- high GHG emissions from agriculturally used organic soils
- **CAP: public money for climate damage**

Total emissions (M t CO₂e)



Share of emissions in total agricultural emissions (%)



Globally, drained peatlands emit 2 Gigatonnes CO₂e /yr,
i.e. 0.4 % of the land produces 5% of all global emissions



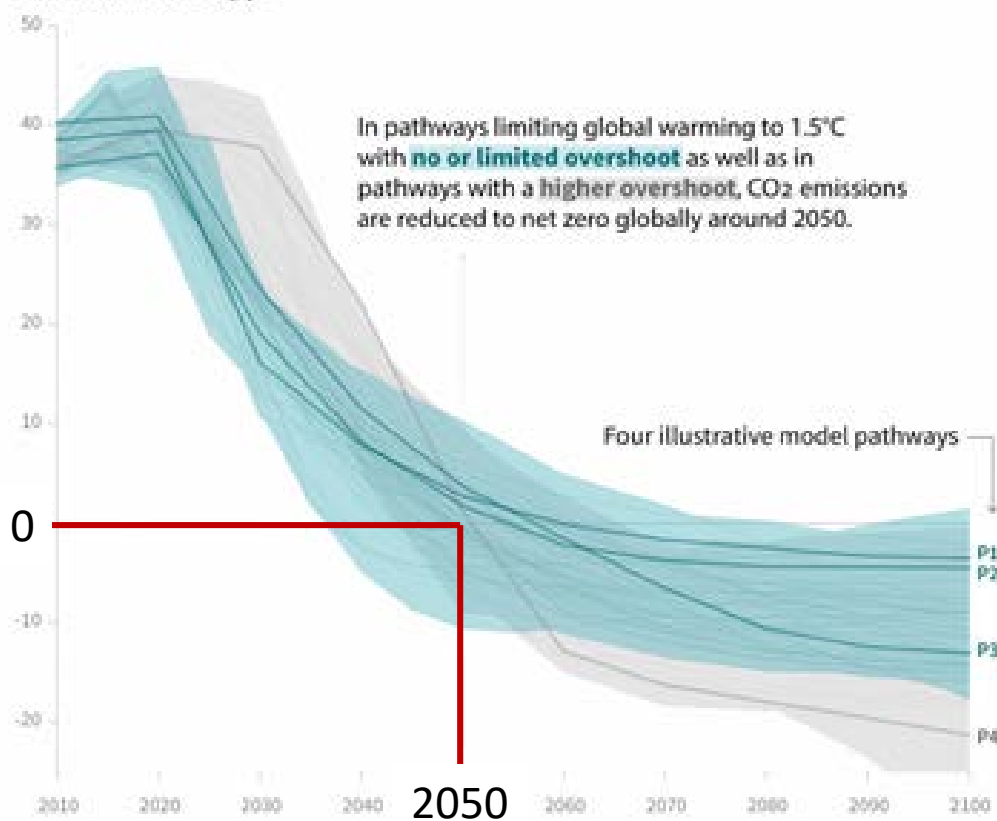
...by microbial oxidation and peat fires...

Paris Agreement: limit global warming to 1.5 °C

→ net CO₂ emissions: Zero by 2050

Global total net CO₂ emissions

Billion tonnes of CO₂/yr



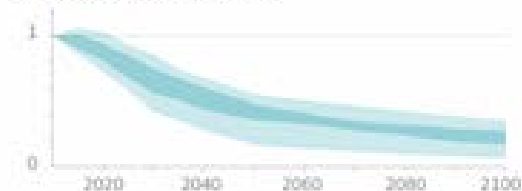
Non-CO₂ emissions relative to 2010

Emissions of non-CO₂ forcers are also reduced or limited in pathways limiting global warming to 1.5°C with **no or limited overshoot**, but they do not reach zero globally.

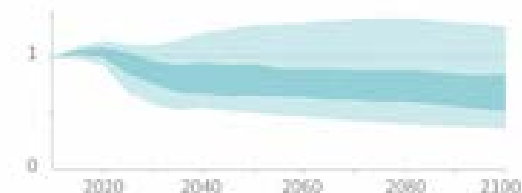
Methane emissions



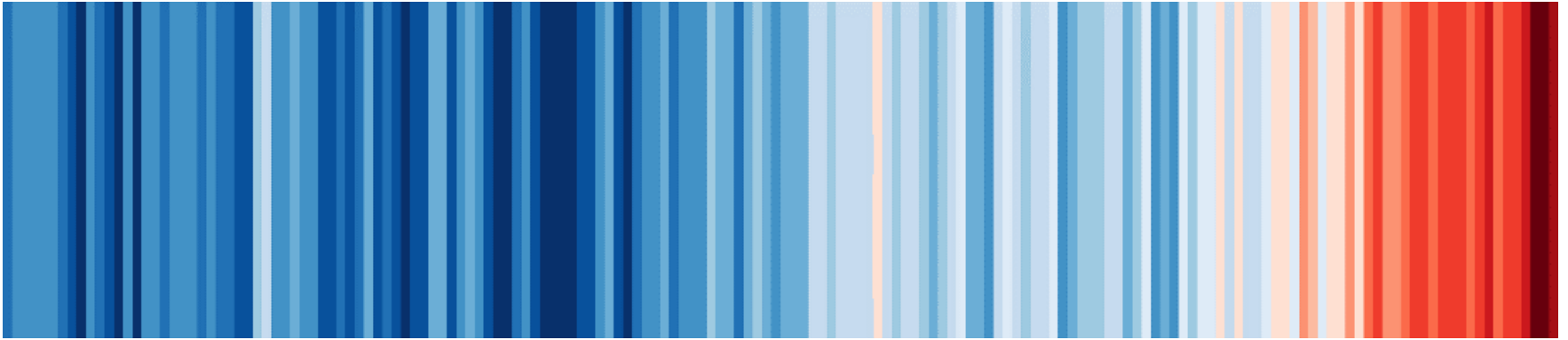
Black carbon emissions



Nitrous oxide emissions



Climate change is obvious



“Warming stripes”: annual global temperatures from 1850-2017

→ last 20 years included the 19 warmest years on record...

→ break radically with outdated developments from the past, also with respect to peatlands



Stop draining peatlands

| Land use category | Emission reduction after rewetting (t CO ₂ eq ha ⁻¹ yr ⁻¹) | |
|-------------------|--|--------------------|
| | <i>Temperate zone</i> | <i>Boreal zone</i> |
| Forest land | 6 | 2 |
| Cropland | 28 | 34 |
| Grassland | 20 | 25 |
| Wetlands | 9 | 11 |

GMC (2018), based on Wilson et al. (2016)

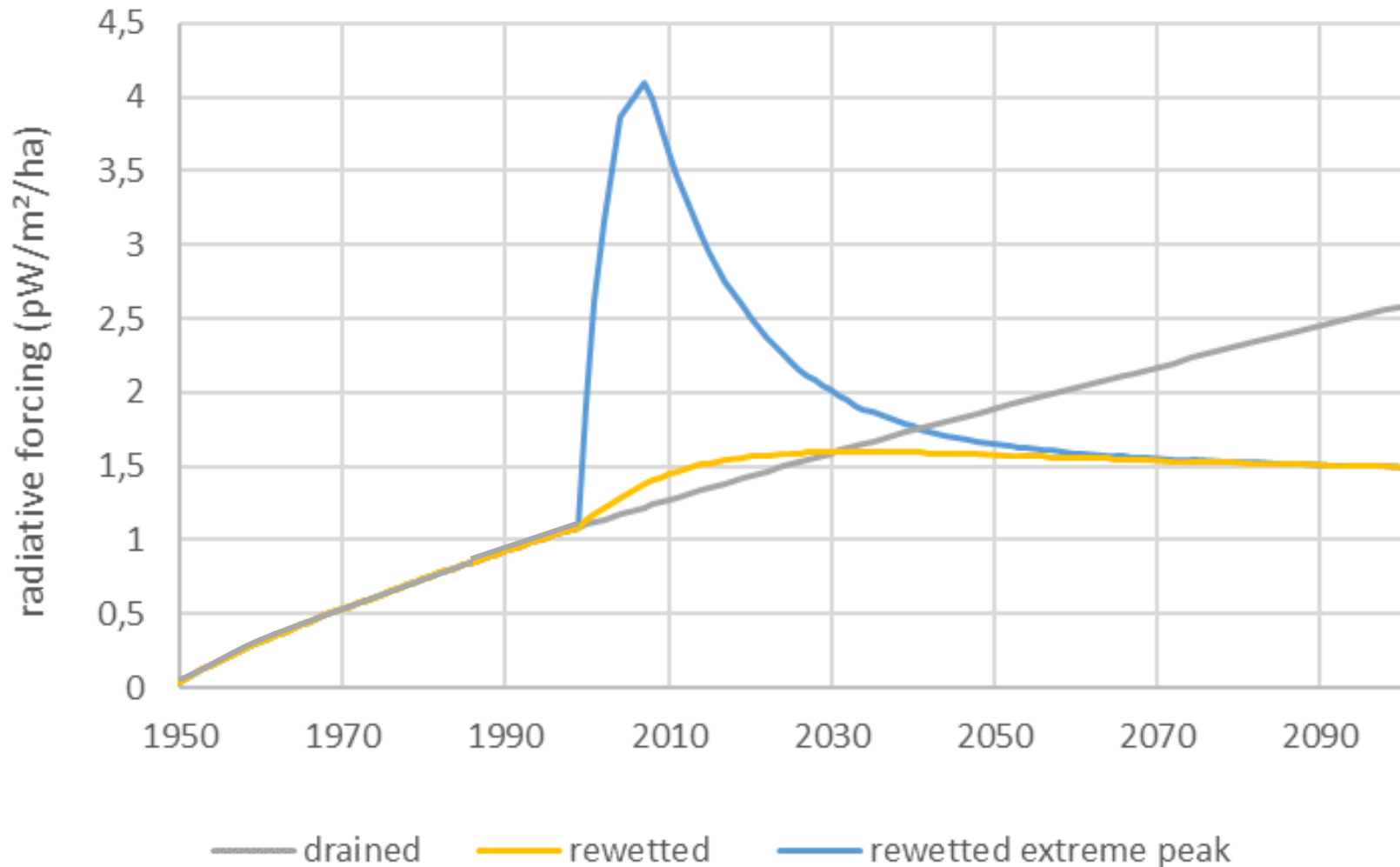
→ High emission reduction potential especially for agricultural land

Peatland rewetting efficiently mitigates CO₂ emissions

→ and don't be afraid of CH₄ emissions

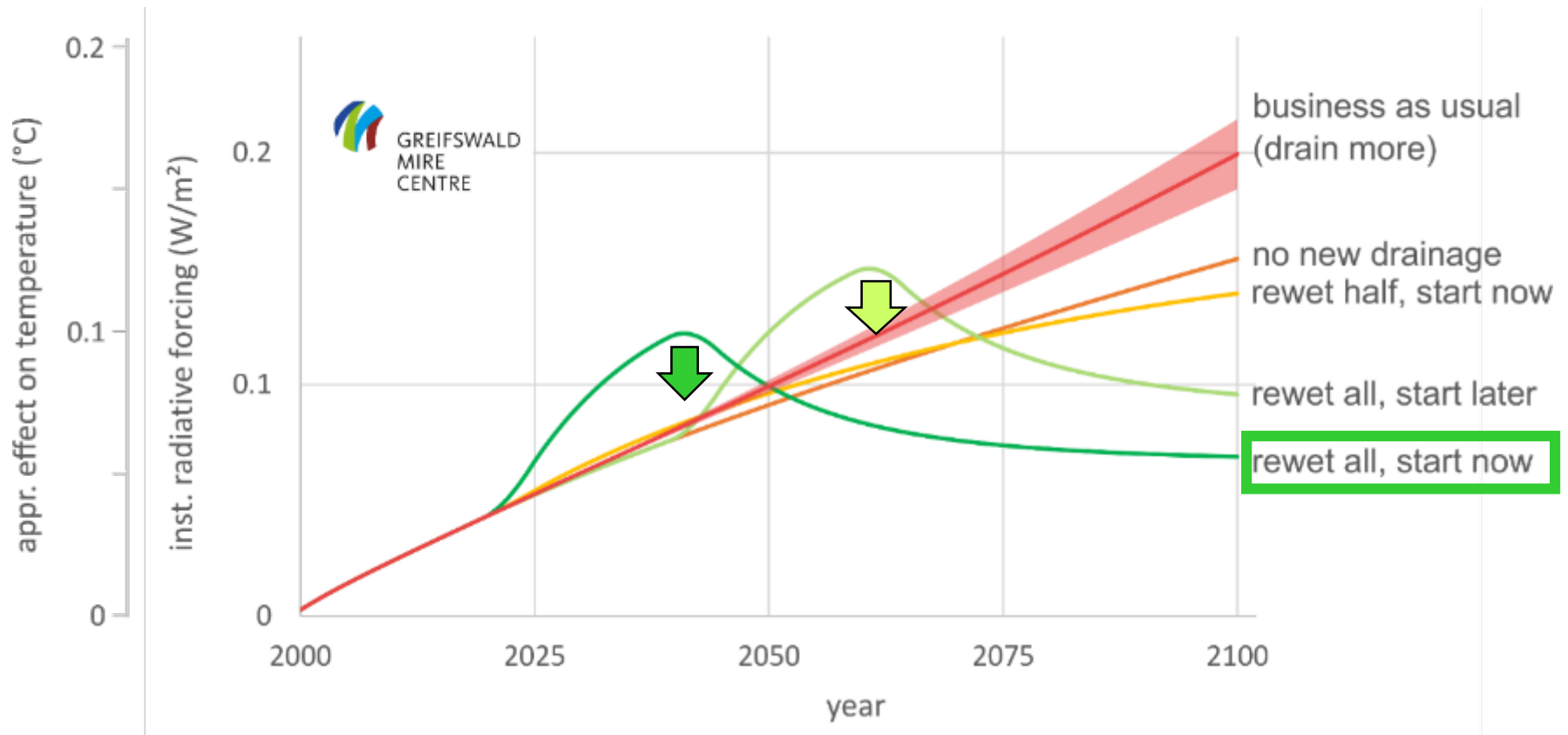


CH₄ is strong but short-lasting, CO₂ weak but persistent and thus accumulative. On longer run, CO₂ is much worse



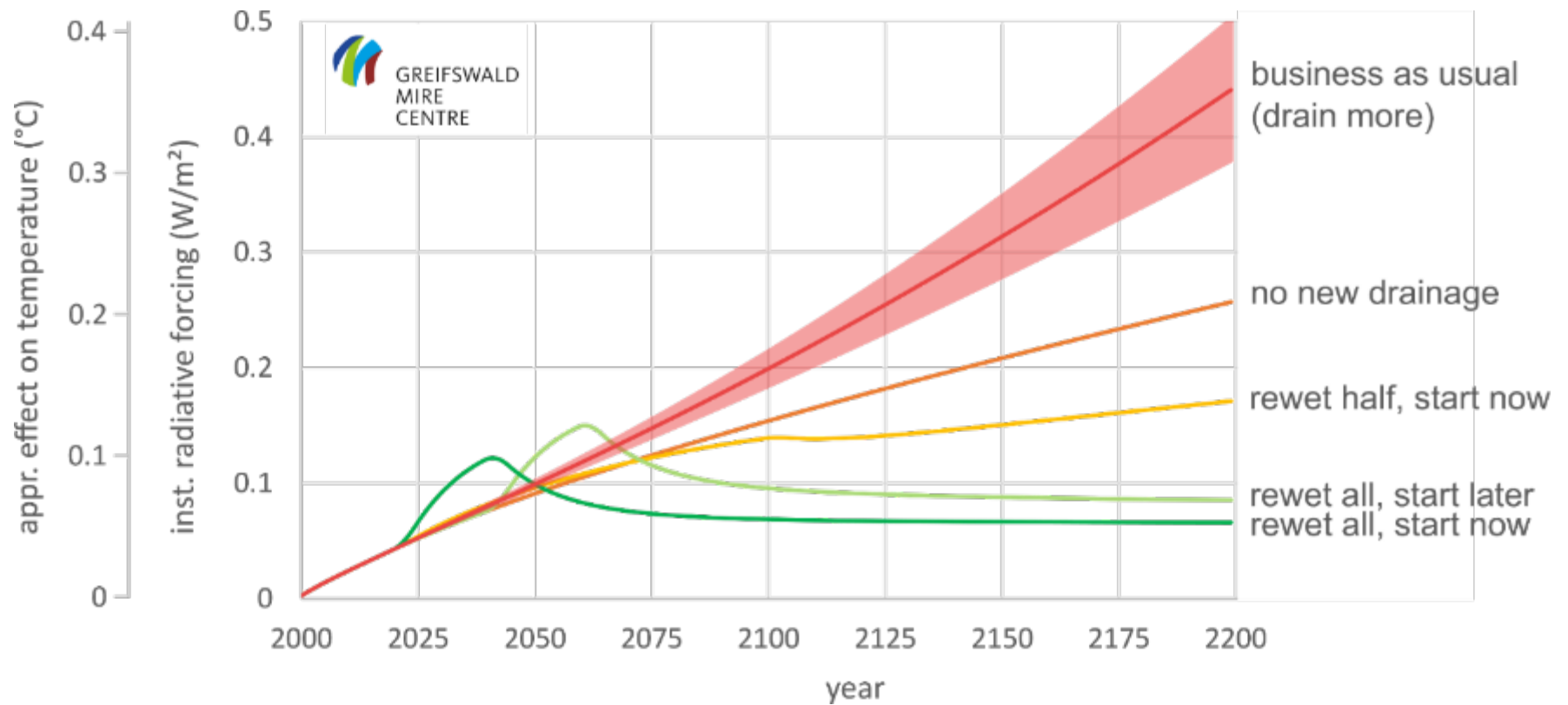
Global scenarios: Full rewetting is the best scenario of all.

Rewet all, start now avoids adding to peak temperature



Cf. Günther et al. (2019) Prompt rewetting of drained peatlands reduces climate warming despite methane emissions. Pre-Print: <http://dx.doi.org/10.1101/748830>.

Differences become larger in time.



Peatland rewetting = losing productive land?



Paludiculture

„*palus*“ - swamp + „*cultura*“ - cultivation

→ **productive use of wet and rewetted peatlands**

Objectives

- Production → agricultural or silvicultural utilisation
- Maintain peat → stop subsidence and soil degradation
→ reduce GHG emissions
- Optional → peat formation; other ecosystem services

Paludiculture



Bogs

- Peatmoss
- Sundew

Fens

- Reed
- Cattail
- Sedges
- Reed carnary grass
- Alder
- Willow
- Medicinal plants



→ Wide range of utilisation options

Sphagnum moss: renewable high quality growing media



Sundew: medicinal plant



Alder: furniture



Wet grasslands: biodegradable dishes, panels, bedding, combustion, ...

Reed Carnary Grass



Sedges



Photo: S. Wichmann

Photo: T. Dahms

Water buffaloes: meat & milk



Reed: thatching, construction, insulation, paper, combustion, biogas...



Foto: S. Wichmann

Foto: F. Tanneberger

Cattail: insulation, construction, fodder, energy, ...



www.typhatechnik.com
www.naporo.com

Potential of paludiculture

Climate change mitigation

Efficiently reduces agriculturally GHG emission: 37% from only 7% of the area (D)

Water quality

„kidneys of the landscape“: N & P retention (e.g. DK, S)

Nature conservation

< 1% near-natural state → substitute habitat for endangered species (D)

Soil protection

Stops soil degradation and subsidence (infrastructure costs, risk of flooding, cf. NL)

Rural development

Sustaining peatland use, income, employment, renewable + regional products

→ Paludiculture = prospects for peatlands and for people!

Award winning pilot projects



**GEWINNER
FORSCHUNGSPREIS
„NACHHALTIGE ENTWICKLUNGEN“ 2013**

ein Preis des Bundesministeriums für Bildung und Forschung

**Deutschland
Land der Ideen**

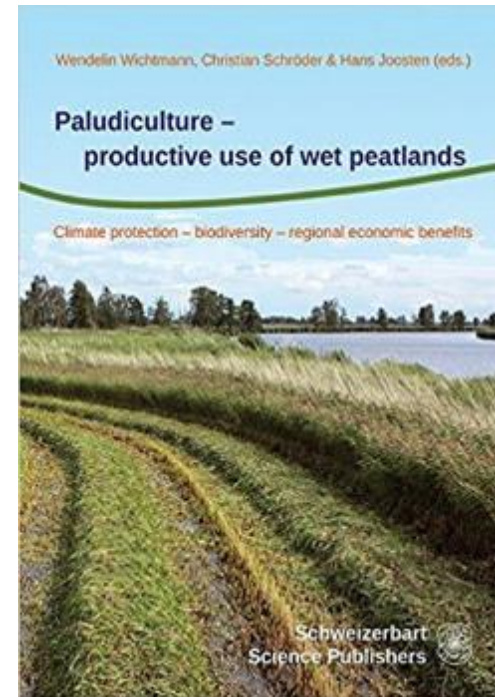
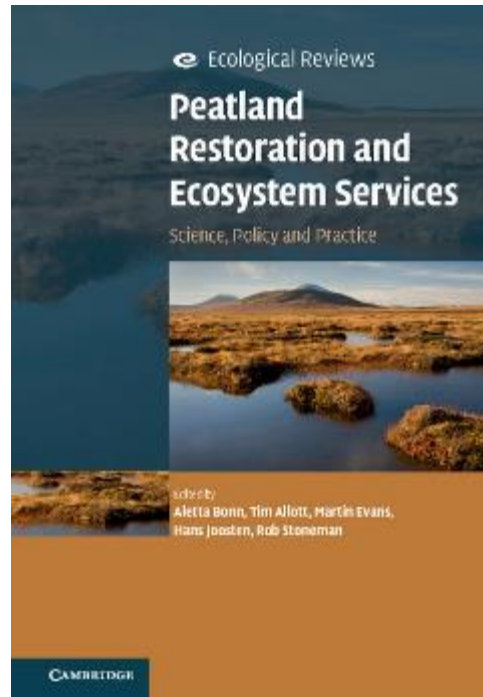
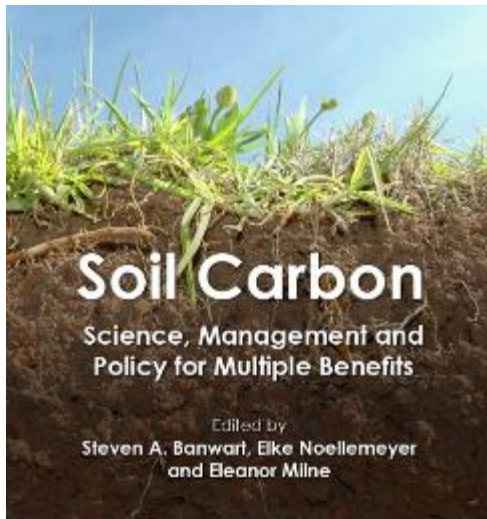


Ausgezeichneter Ort 2014/15

Nationaler Förderer
Deutsche Bank

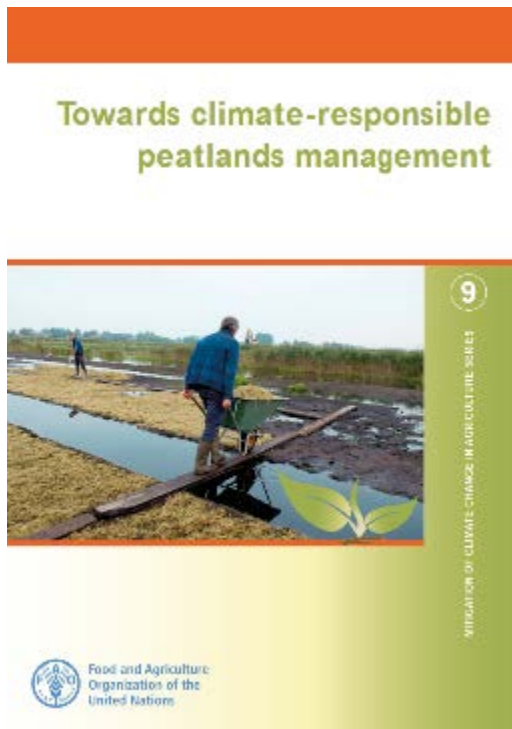


... knowledge is available ...

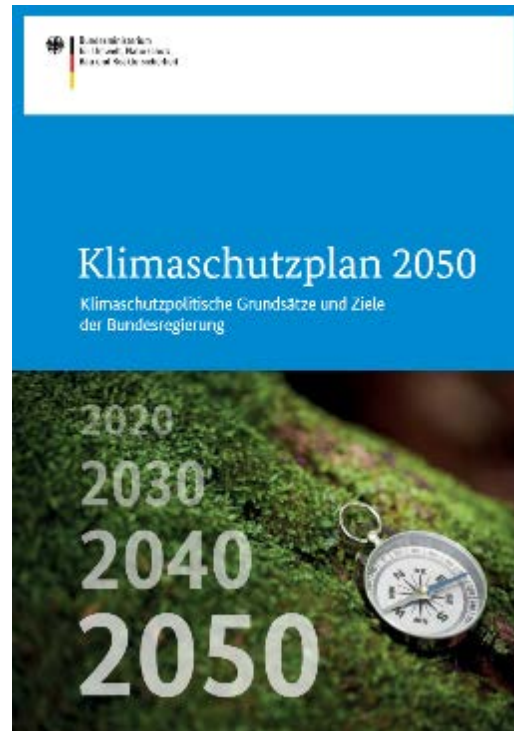


... approval on all levels

international



national



regional





→ Constraints: Why is there no large-scale implementation?

→ Opportunities: Which solutions are feasible?

Public money for continued drainage based peatland utilisation

- Pillar I: direct payments
 - Pillar II: organic farming, agri-environment-climate measures
 - Investment grants with long-term effects (e.g. new stables)
 - „biogas“ from peatland
- Support increases competitiveness artificially

Eligibility of paludicultures

- Uncertain / not given / only by exception
- Uncertainty and discrimination frustrate interested farmers

→ Approval of paludiculture as agriculture

→ Phasing out CAP funding for drainage-based peatland utilisation

EU agricultural policies II

Conversion to paludiculture

- High investment costs: rewetting, planting, adapted machinery
- Revenues generated partly only after several years (peatmoss, alder)
- Pioneers bear higher risks
- Large barriers for single farmers

→ Compensation through economic incentives for conversion

Demonstration site (8.5 ha): 50,000 Cattail seedlings planted last week



EU agricultural policies II

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→ Compensation through economic incentives for conversion

- Climate change mitigation & adaptation
- Water protection
- Soil protection
- Biodiversity
- Large benefits for society are not priced in

→ Remuneration of services: additional income + long-term perspective

EU agricultural policies / Legal framework

Maintenance of permanent grassland

- Greening (EU)
- National law (e.g. some German federal states)
- Qualitative reasons, but mainly quantitative area controlled

→ Impedes the rewetting of grassland for permanent paludicultures

→ Introducing exceptions for paludiculture

e.g. drained bog grassland



Sphagnum farming



Legal framework II

Regulations for soil protection

- Cross compliance (EU: GAEC* standard 6 „Maintenance of soil organic matter“)
- Codes of good practice (Germany: §17 Soil protection law)
- No differentiation: mineral vs. organic soils

→ Water level targets are missing to ensure low-impact cultivation

→ Codes of good practice for organic soils would reduce macro-economic damage and promote paludiculture

* GAEC - Good Agricultural and Environmental Condition

Legal framework III

Agriculture vs. nature conservation

- Raising water levels/ establishing paludicultures
- Creation of protected habitats?
- Occurrence of rare and endangered species?

→ Farmers are afraid of restrictions and prohibitions

→ Clarification: compensation and principle of free choice, if restrictions are desired for nature conservation.

Rewetting & land availability

Ownership structure

- High proportion of leased land: user and owner must agree
- Highly fragmented land and parcel structure → many parties involved

Impact on neighbouring sites

- Implementing paludiculture on single parcels is very expensive
- A catchment area based approach is needed

Resistance of local population

- Worries & fears: change, wet cellars, dead trees, mosquitoes, accessibility ...
- Acceptance for paludiculture higher than for abandonment

→ Go-it-alones not possible, willingness + time for collective action needed

→ Land consolidation and regional cooperation (e.g. water boards) can be used for hydrological planning of the catchment area

Paludiculture = paradigm shift

- Break with family and farming traditions
- Pressure for justification to neighbours and farming community
- Willingness for change and risk-taking are needed

→ Insufficient knowledge of impacts of peatland drainage and alternatives

→ Education, further training, advice

→ Demonstration farms

Farm issues II

Farm A



- Cash crop farm
- No use for peatland biomass
- Mowed for subsidies

Farm B



- Dairy cattle: high quality forage
- New, large stable
- Land + buildings on peat

Farm C



- Vegetable cultivation
- High added-value

→ Operational constraints and opportunity costs are very different

→ Solutions must be adapted to starting conditions

Processing & markets

Wet meadows



- Low-value: energetic uses
- Biomass: heterogenic, transport limited
- Local solutions, e.g. district heating plant

Cattail (*Typha*)



- High-value: insulation/ construction
- marketable products + high demand
- Only small production plants: lack of biomass

Peatmoss (*Sphagnum*)



- High-value growing media constituent
- Large market: ~ 15 Mio (EU) / 3 Mio (D) m³ a⁻¹
- Lack of diaspores + high investment costs

→ Mismatch between supply and demand of paludiculture biomass

→ Purchasing security / support, e.g. laws/regulations

Research, development & demonstration

- Pilot trial for single species (groups)
- Adapted harvesting machines available (conservation management, thatching reed)
- Future-orientated processing avenues (Bio-economy)

→ Demonstration and adaptation at farm-scale are missing

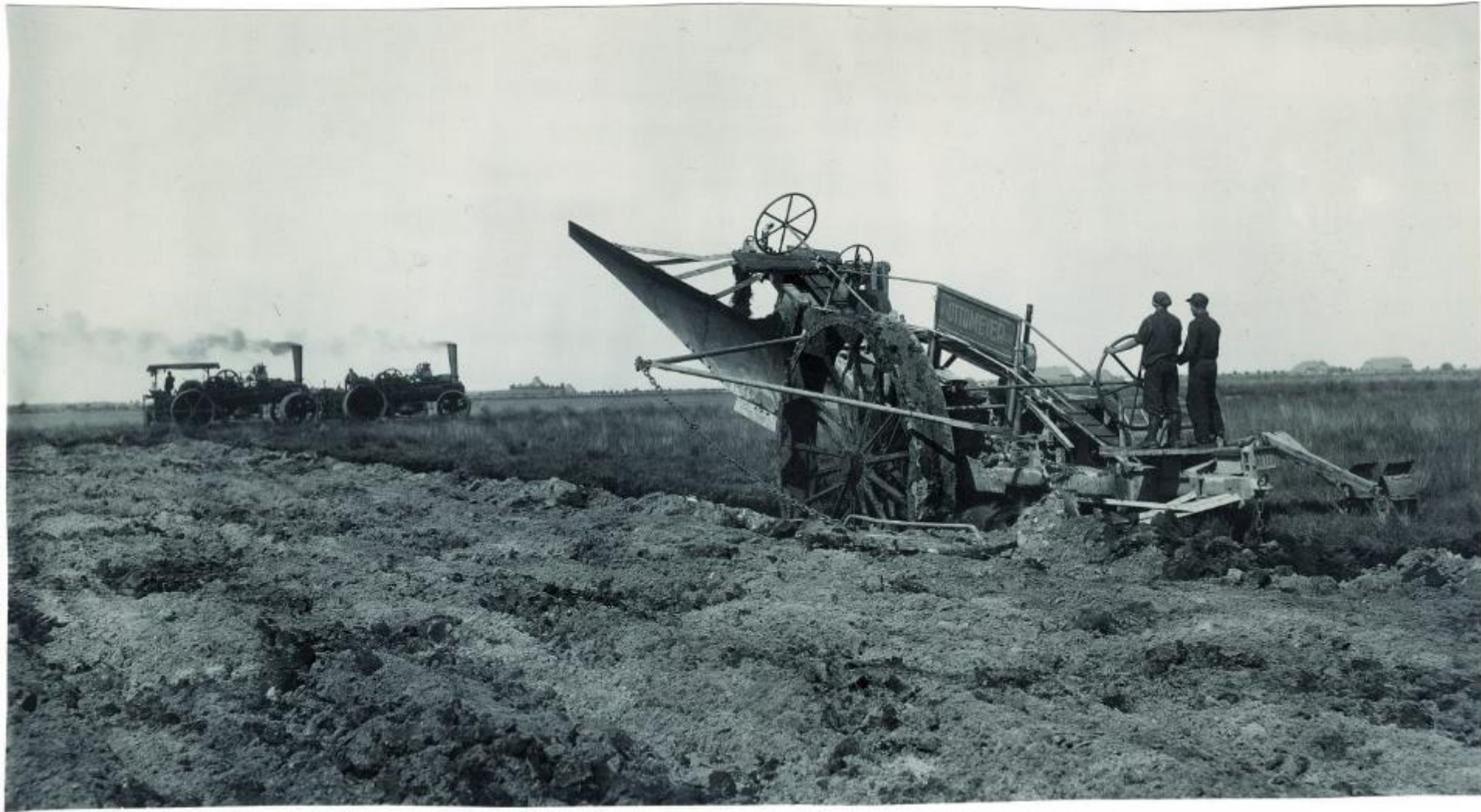
→ More implementation for optimisation + specific answers

The introduction of potatoes in Prussia required decades ... - and several tricks.



Frederick the Great (Friedrich II) inspects the cultivation of potatoes („The king is everywhere“, Robert Warthmüller)

Peatland drainage and reclamation took centuries...



<http://klasmann-deilmann.com/unternehmen/ueber-uns/geschichte/>

deep ploughing in the 1950ies (Mammut / Co. Ottomeyer), Emsland (Germany)

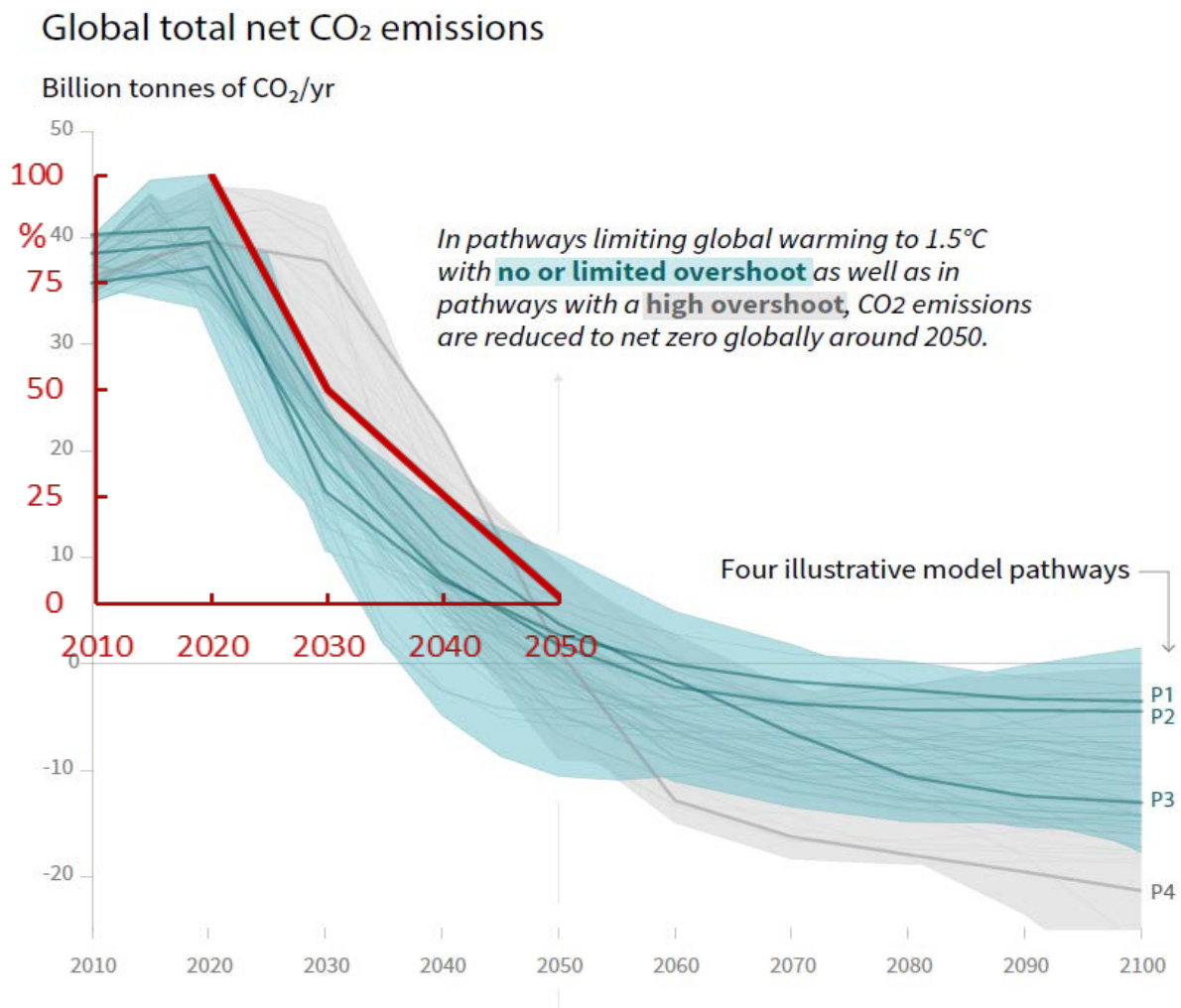
New challenges – less time ... but many opportunities for action

- Agricultural policy
- Legal framework
- Rewetting and land availability
- Farm issues
- Processing & markets
- Research, development & demonstration

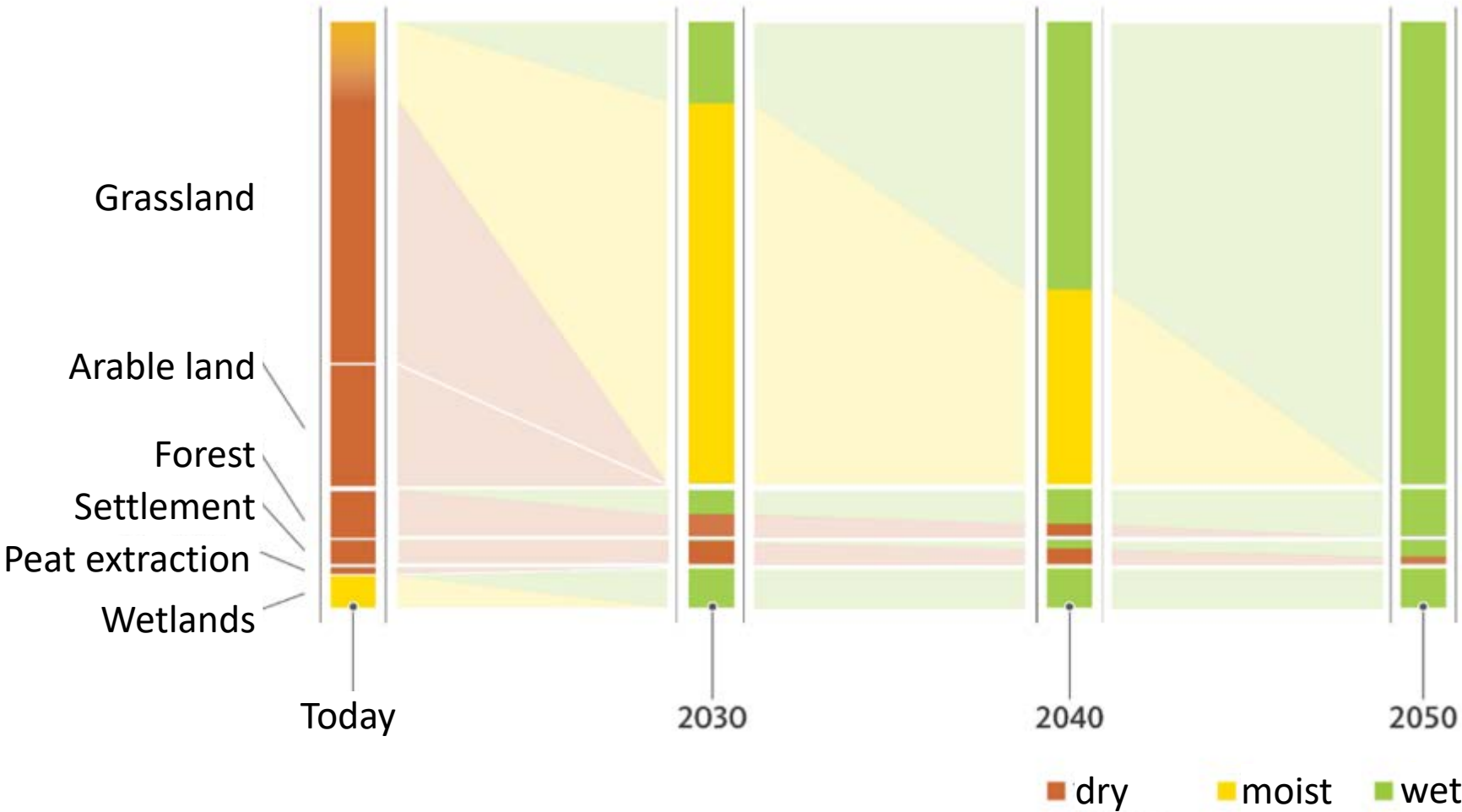
→ The society is responsible, not the single farmer.

→ Set the course today to make future peatland utilisation sustainable.

Paris agreement sets clear targets → every sector needs to contribute
→ what does it mean for peatlands?



Transformation pathway for German peatlands based on Paris



Germany: until 2050 rewet ~50,000 ha per year...
Impossible, naive...?



Finland drained in the 1970s ~300,000 ha every year!

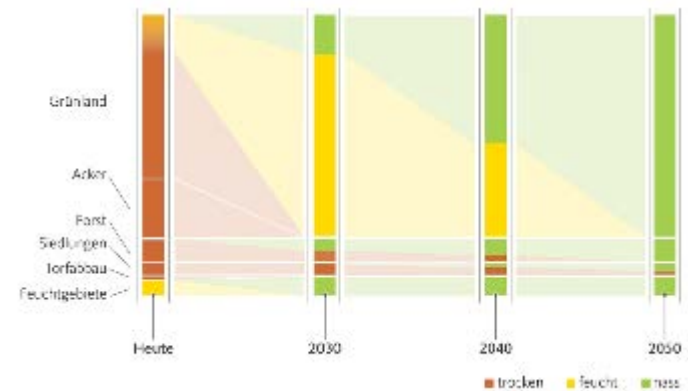


Photo: H. Joosten

Indonesia has in 2017-2018 rewetted 670,000 ha of peatland, i.e. 3x as much as *entire* Europe in its *entire* history!



Transformation pathway → interim goals for German peatlands until 2030



- Stop subsidies for **arable use** on drained peatlands from 2021
→ phase out arable use
- Raise water levels for all **grassland** on peat soils:
a) ≤ 30 cm below surface, b) on at least 200.000 ha (15%) near surface
+ stop subsidies for deeper drainage
- Rewet 50% of **forests** on drained peatlands
- Phase out **peat extraction** + replace peat by renewable alternatives
- Acknowledge **paludiculture** as agriculture and ensure eligibility for CAP payments, introduce investment programs + payments for climate mitigation;
- Stop drainage of all **state owned peatlands** until 2030
+ establish demonstration farms for paludiculture
- **Education** campaign in all peatland rich federal states for rewetting
50,000 ha of peatlands up to 2050.

EU CAP reform

= “window of opportunity”

→ setting a new course for peatlands

EU level

- Conditionality: preserving carbon rich soils (GAEC 2*)
- Pillar I: eligibility of paludiculture for agricultural payments
“eligible hectare’ shall be defined in a way that it includes any agricultural area of the holding, including [...] rewetted areas used for paludiculture”
Amendment 91, in April 2019 approved by EP Committees of Environment and of Agriculture → not yet in plenary
- Pillar I: eco-schemes (voluntary for farmers)

National strategy plans

- Pillar II: plenty of possibilities for tailor-made solutions!

*standards for the Good Agricultural and Environmental Condition

What to learn from current EU funding period?

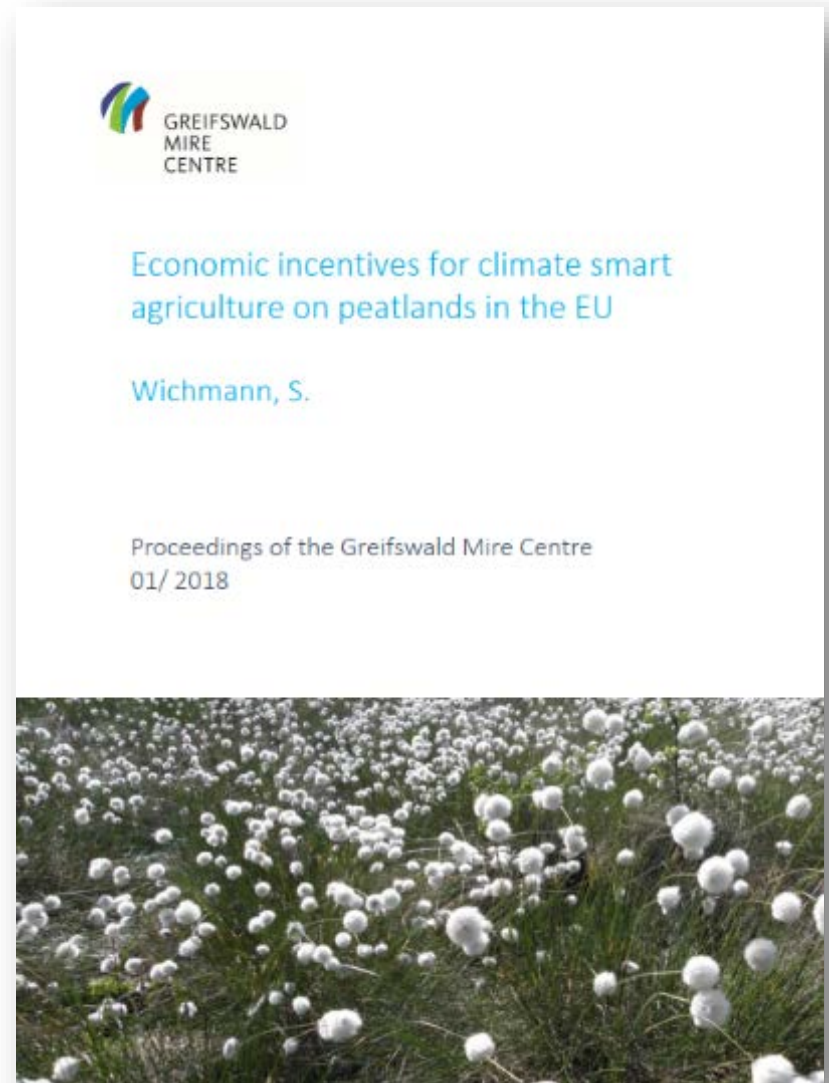
Review:

Are there any incentives for sustainable peatland use?



Funding was provided by FACCE-ERA-Net+ 'Climate Smart Agriculture' (EU)

Report available online at:
<https://greifswaldmoor.de/publikationen.html>



Review on economic incentives

EU member states

- selected countries / regions:
Germany, Netherlands, UK, Denmark, Sweden, Poland, Estonia, ...

Financing

- Focus: CAP 2nd Pillar → National Rural Development Programs
- European Fund for Regional Development
- Private: Payments for ecosystem services

→ No incentives for shifting to climate-smart peatland agriculture!

... but a wealth of good practice examples

a) providing incentives

- to invest in rewetting
- to maintain target water levels
- to adapt management

b) ensuring efficiency

- e.g. target areas
- indicator species
- scoring systems

c) facilitating implementation

- advisory services
- land consolidation
- cooperation at landscape scale

→ Outreach is limited: implemented only partly and in single Member States

Summarising table: incentives addressing peatland or wetland ecosystem services

| | State - region | Ecosystem service | | | | | | Financing | | | | Payment | | | Point along production chain | | | | | Scheme | | Implementation | |
|--|----------------|-------------------|---------------|----------------|--------------|------------|--------|-----------|----------|------------|-----------|---------|------------|-----------|------------------------------|-----------|------------|------------|-----------|-------------|--------------|----------------|--------|
| | | Carbon store | Water quality | Water quantity | Biodiversity | Recreation | Others | EU | National | Compulsory | Voluntary | One-off | Short term | Long term | Establishing | Rewetting | Management | Processing | Marketing | Input-based | Output-based | Cooperation | Advice |
| Rural development programmes – EAFRD (public) | | | | | | | | | | | | | | | | | | | | | | | |
| (Re-) Establishment and maintenance of wetlands | DK | (x) | x | | (x) | | | x | x | | | | x | x | x | | | | | x | (x) | | |
| Habitat management; conversion to grassland | D-BAV | (x) | x | | x | | | x | x | | | | | | (x) | x | | | | x | | | |
| Water retention on peatland, conversion to grassland | D-BB | x | x | | | | | x | x | | | | x | | | x | | | | x | (x) | | x |
| Habitat management; rewetting | D-LS | x | | | x | | | x | x | | | | x | x | | | | | | x | (x) | | x |
| Habitat management; rewetting; conversion to grassland | D-MW | x | x | | x | | | x | x | | | | x | x | | | | | | x | | | x |
| Habitat management; rewetting | D-SH | x | x | x | x | | | x | x | | | | x | x | | | | | | x | | | |
| Habitat management; organic soil protection | EST | (x) | | | x | | | x | x | | | | | | | x | | | | x | | | |
| Habitat management; water category | NL | | x | x | x | | x | x | x | | | | x | x | | | | | | x | | | x |
| Construction and restoration of wetlands; cooperation | S | (x) | x | (x) | x | (x) | | x | x | | | | x | x | | | | | | x | (x) | | x |
| Adjustable / controlled drainage (control wells) | S + Fi | (x) | x | (x) | | | | x | x | | | | x | (x) | | | | | | (x) | | | |
| Habitat management | It | | | | x | | | x | x | | | | | | | | | | | x | | | |
| Fen habitats and endangered species | PL | | | | x | | | x | x | | | | | | | | | | | x | (x) | | |
| Countryside stewardship scheme: uplands and lowlands | UK-E | x | x | x | x | x | x | x | x | | | | x | x | | | | | | x | (x) | | x |
| Agri-environment-climate scheme: uplands and lowlands | UK-S | x | x | x | x | x | x | x | x | | | | x | x | | | | | | x | (x) | | x |
| Sustainable management scheme 'Glastir' | UK-W | x | x | x | x | x | x | x | x | | | | x | x | | | | | | x | (x) | | x |
| Regional development – ERDF (public) | | | | | | | | | | | | | | | | | | | | | | | |
| Reducing CO ₂ emissions from peatlands (pilots) | D-BAV | X | | | | | | | | x | x | | | | | x | x | x | x | | | | |
| Reducing CO ₂ emissions from peatlands (pilots) | D-LS | X | | | | | | | | x | x | | | | | x | x | x | x | | | | x |
| Payments for ecosystem services (private-voluntary) | | | | | | | | | | | | | | | | | | | | | | | |
| MoorFutures® | D | x | (x) | (x) | (x) | | | | | (x) | | | x | x | | | | | | x | | | x |
| Peatland Code | UK | x | | | | | | | | | | | x | x | | | | | | x | | | x |
| Upstream thinking | UK-E | (x) | x | (x) | (x) | | | | | | | | x | x | x | | | | | x | x | (x) | (x) |
| Payments for ecosystem services (private-compulsory) | | | | | | | | | | | | | | | | | | | | | | | |
| Peatland rewetting financed by water fee | D-SH | | x | x | x | | | | | | | | x | x | | | | | | x | (x) | | |
| Payments for ecosystem services (mixed: public & private) | | | | | | | | | | | | | | | | | | | | | | | |
| Sustainable Catchment Management Programme | UK-E | (x) | x | (x) | x | (x) | | (x) | | | | | x | x | x | | | | | x | x | (x) | (x) |
| Pumlumon project | UK-W | x | x | x | x | x | x | x | x | x | x | x | x | | | | | | | x | x | (x) | x |
| Under appraisal | | | | | | | | | | | | | | | | | | | | | | | |
| Reducing CO ₂ emissions from peatlands (ERDF) | D-BB | x | | | | | | | | | | | x | | | x | x | | | x | (x) | | x |
| Rewetting agricultural land on organic soils | S | x | | | | | | | | | | | | | | | | | | | | | |

DK – Denmark, D – Germany (BAV – Bavaria, BB – Brandenburg, LS – Lower Saxony, MW – Mecklenburg-Western Pomerania, SH – Schleswig-Holstein), EST – Estonia, Fi – Finland, It – Italy, NL – the Netherlands, S – Sweden, UK – United Kingdom (E – England, S – Scotland, W – Wales)

Classification of economic incentives

(a) Ecosystem Services in focus

- predominant: biodiversity, partly also water quality
- **rarely carbon**, water retention, recreation...

(b) Sources of the financing

- public: EU + national → CAP
- voluntary, e.g. carbon credits for the private market
- compulsory, e.g. water fee used for peatland rewetting

(c) Duration of the payment

- one-off
- short term: usually 5-7 years
- **almost no long term**: 10-20 years



+ combinations

(d) Points addressed along the production chain

Incentives along production chain



→ Current incentives focus on rewetting + management

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} + combinations
- (d) Points addressed along the production chain
- (e) Payments for actions or results
 - action, e.g. covering costs of management measures
 - rarely results, only in case of carbon credits
 - targeting elements, e.g. a prescribed water level; scoring systems; target areas
- (f) Payments supporting general implementation
 - cooperation
 - advice and/or technical assistance

Example

Agri-environment-climate commitments

Poland – targeted packages for fen species (since 2009)

Facilitating large-scale habitat management

Late mowing of land occupied by Aquatic Warblers 334 €/ha
(similar for sites with typical vegetation indicating potential habitat)

→ about 10,000 ha became mown with adapted machinery



Example

Agri-environment-climate commitments

Germany – state of Brandenburg (2014 – 2020)

Peat conserving water retention (fixed wear)

387 €/ha

Raise to or keep high water level

- 10 cm

01.06. - 15.10., up to

- 30 cm



Example

Agri-environment-climate commitments

UK – England: Rural Development Programm (2014-2020)

Wetland commitments

to maintain, restore or create ponds, ditches, bogs, fens, reedbeds

| | | €/ha |
|-------|----------------------------|------|
| WT 6 | Management of reedbed | 98 |
| WT 7 | Creation of reedbed | 404 |
| WT 11 | Wetland cutting supplement | 550 |
| WT 12 | Wetland grazing supplement | 380 |

Example:

Rural Development Programme (EU)

Sweden - **Construction and restoration of wetlands** (since 1996)

- objectives: **biodiversity** and retention of **nutrients**,
peatland rewetting not in focus
- Targeting: ca. 100 different selection criteria at county level,
placed on organic soils → may give additional scores
- Investment cost (90%) + maintenance cost (over 5 years)



Example

European Rural Development Fund

Germany - Lower Saxony, Bavaria and Brandenburg

„Climate protection by reducing emissions from carbon rich soils“

- **Rewetting of peatlands:** planning, preparatory measures, implementation
- Pilot projects on **land use options adapted to high water levels:** research and development
- ProMoor (Brandenburg, since 2019): adaptation of practices, e.g. purchase of adapted machines or seedlings by farming enterprises



Example

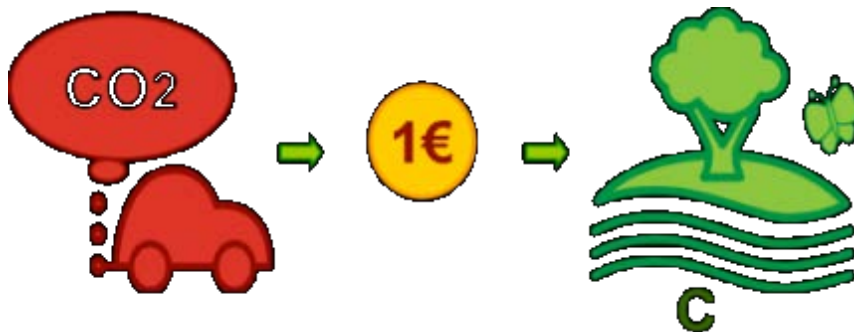
Private sector investment

Germany (MV, SH, BB) – MoorFutures®

Voluntary carbon mitigation

Mitigating 1 t CO₂e

35€ / 54 € / 67€ (site dependent)



**Moor
Futures**

Ihre Investitionen in Klimaschutz.

Where does us take the future CAP?



Setting a new course...

1) Overcome current shortcomings

- **Phase out** CAP 1st and 2nd Pillar **support for drainage based peatland use**
- General eligibility of **paludiculture** for agricultural payments
- Provide **attractive incentives** for rewetting, e.g. by remunerating climate benefits
- Run long-term schemes (15-20 years)

2) Apply and refine existing tool box (Pillar II)

- **For all steps:** establishment → management/harvest → processing → marketing
- Knowledge transfer & **advice**
- **Cooperation:** support processes at landscape levels

3) Learn from experiences in other peatland rich region

- **Accepted by stakeholders:** e.g. rewarding instead of compensating; reducing financial risks; basic entry measures + combination with different targeted high-level measures.
- **Result-orientated:** e.g. targeting approaches as carbon priority maps
- **Good value-for-money,** e.g. scoring systems; compare with other measures to reduce agricultural GHG emissions

Align agricultural policy to climate goals

- Keep all wet peatlands wet!
- Rewet all drained peatlands, and do it fast!
- If you use them, use them wet: paludiculture!

Thank you for your attention!

