



COP18 / CMP8 Side Event

'Ecosystems-based mitigation: from incentives to practice'

Doha, 6th December 2012



MICHAEL SUCCOW FOUNDATION
for the Protection of Nature

Paludiculture

Business opportunities for rewetted peatlands

Jan Peters

Peatlands & Climate Change

Michael Succow Foundation, Greifswald (Germany)



C. Schröder



W. Wichmann



J. Peters

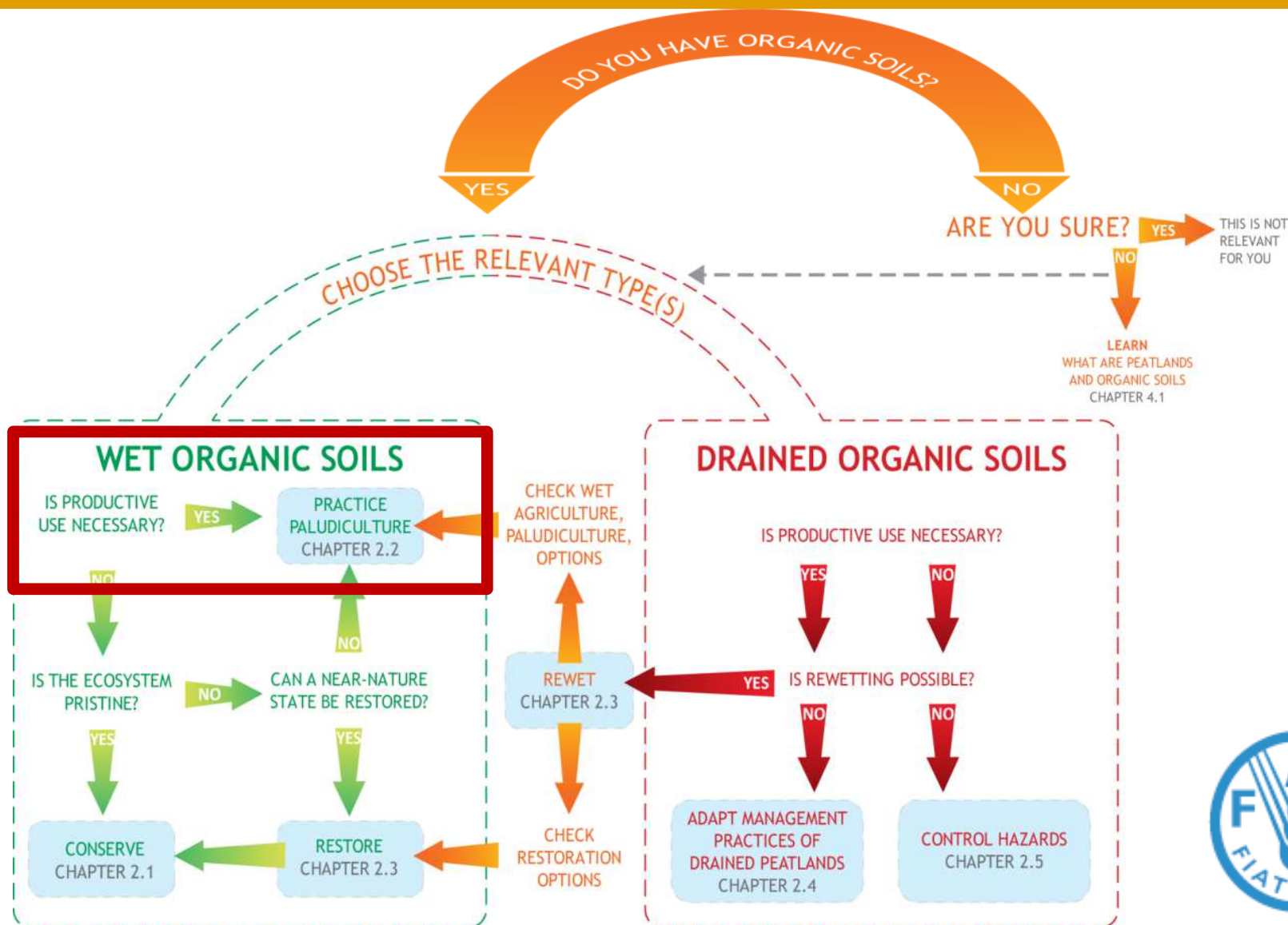


C. Schröder

Paludiculture in FAO Decision Support Tree



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Introduction to Paludiculture

„palus“ – lat.: swamp, marsh + „cultura“ – lat.: care, cultivation

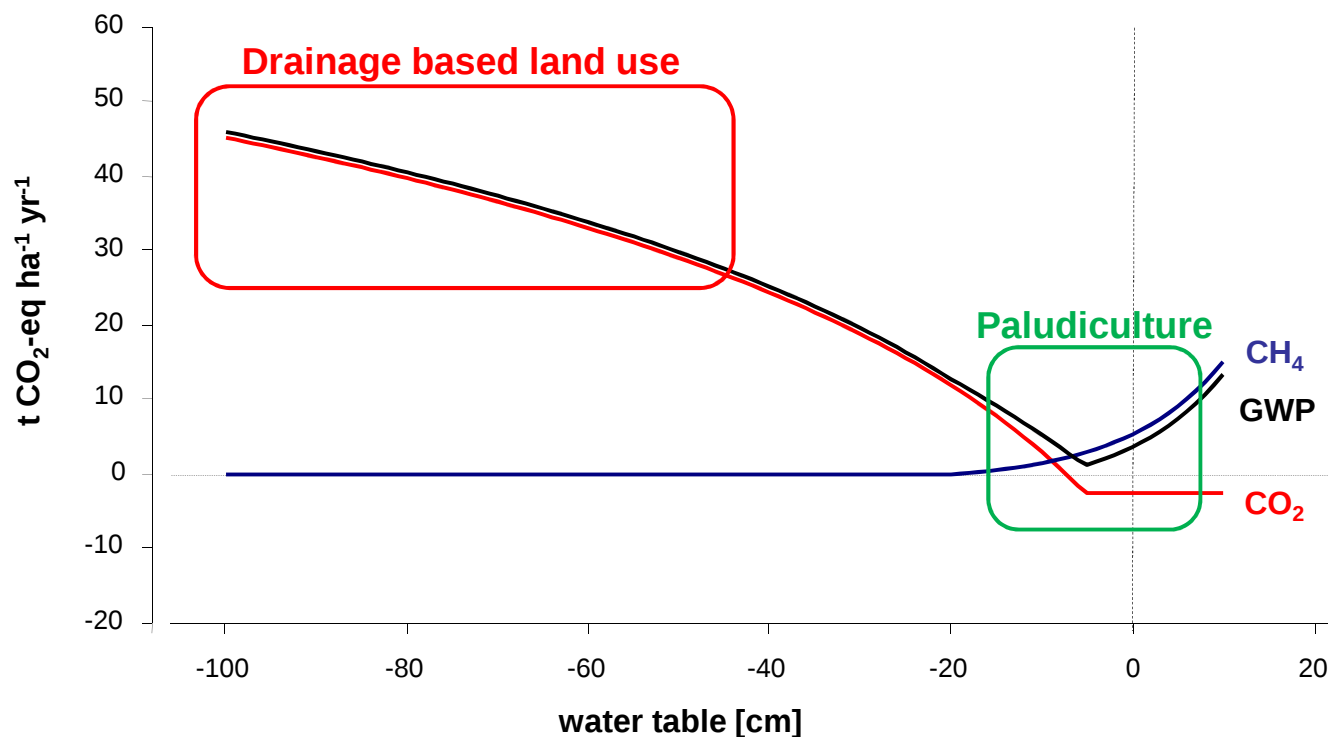
Sustainable land use of wet peatlands

- Preservation of the peat body
- Reduction of GHG emissions
- Production of renewable biomass
- Maintenance of ecosystem services
- Conservation of biodiversity

Peatland conservation by sustainable land use



GHG emission balance of land use types



Croplands, common grasslands

Low intensity pasture

Nature conservation grasslands

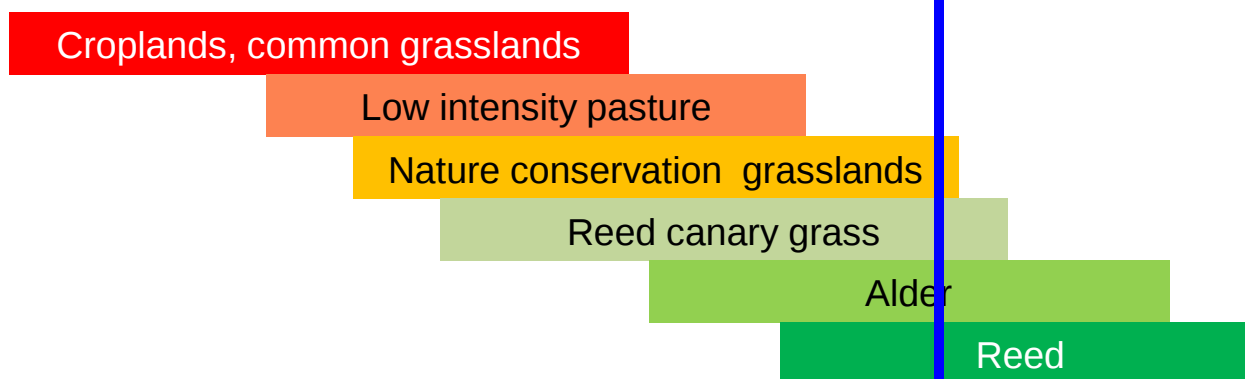
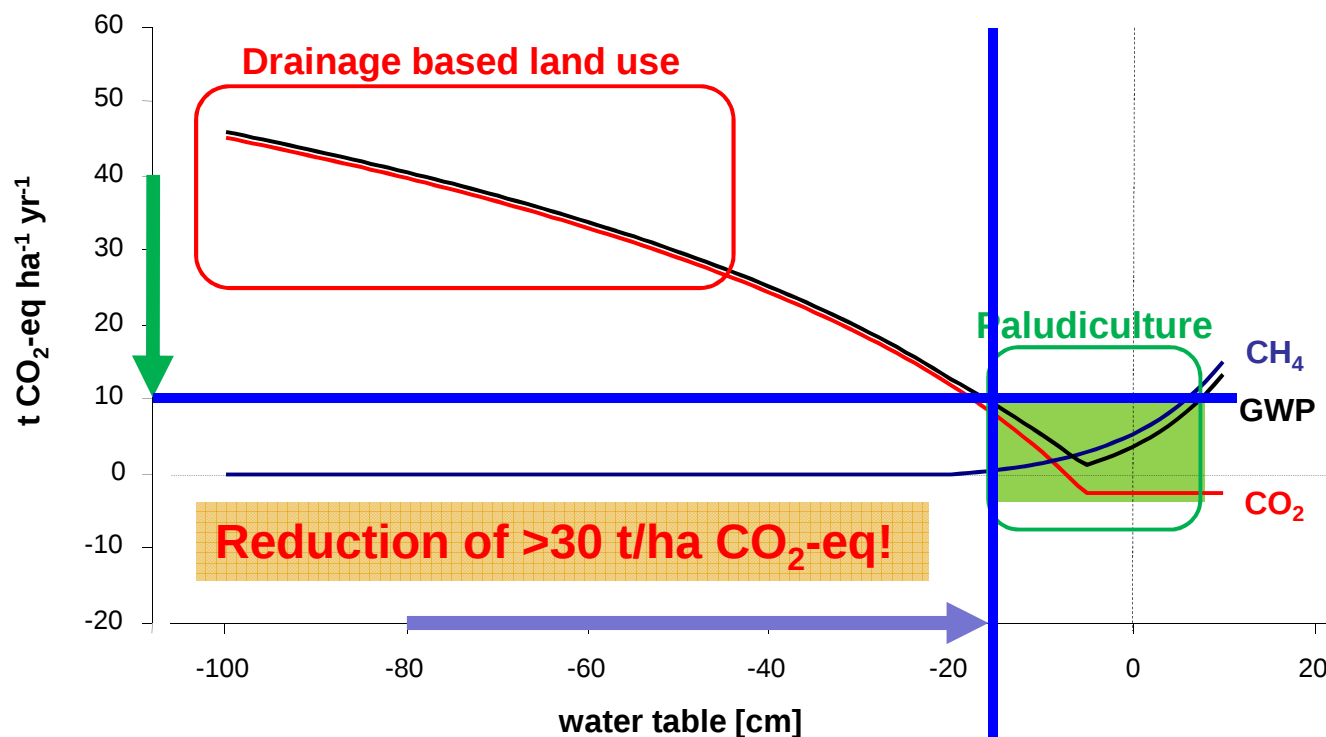
Reed canary grass

Alder

Reed

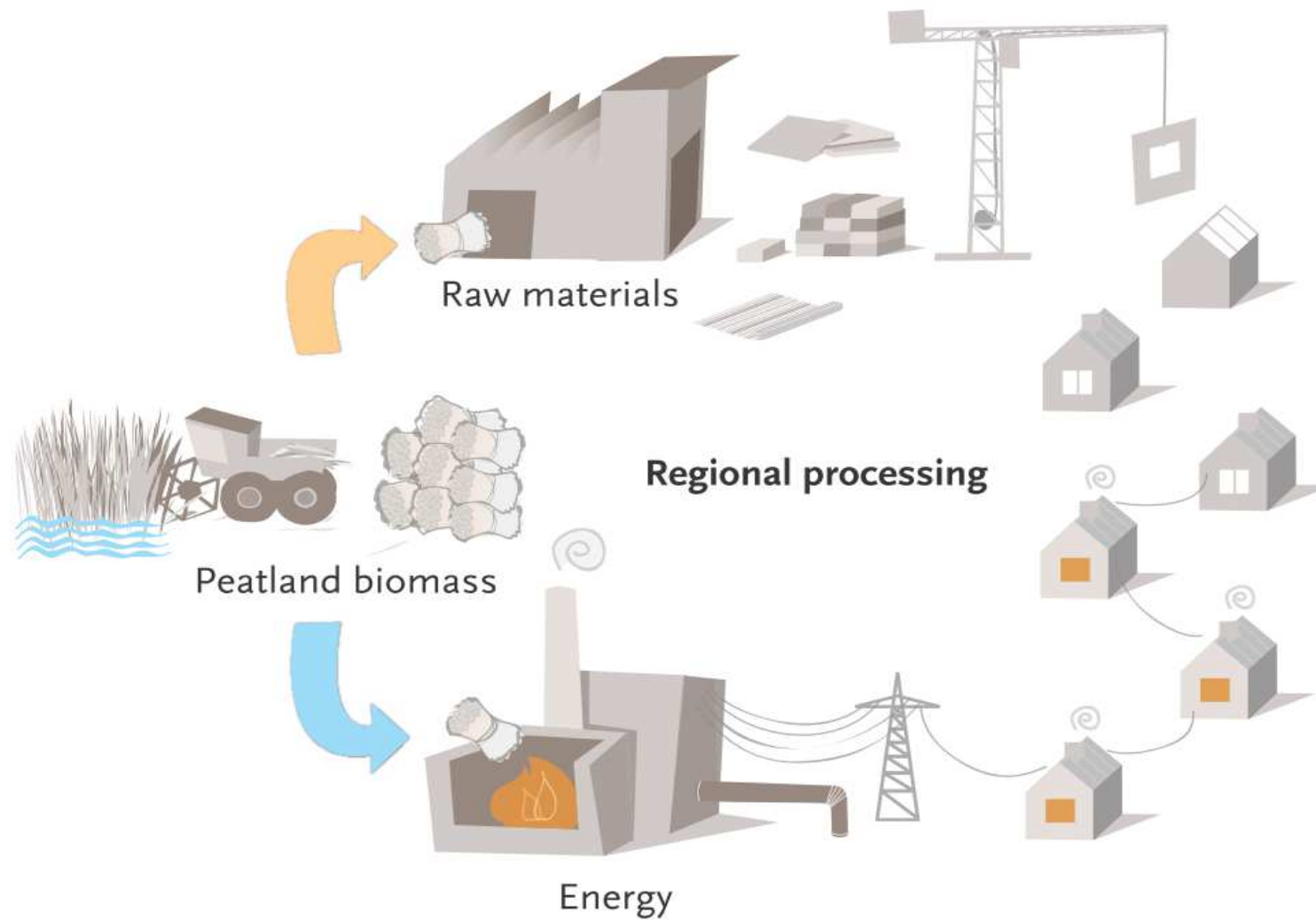


GHG emission balance of land use types





Potential value chains of paludiculture



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Harvesting and collecting of biomass



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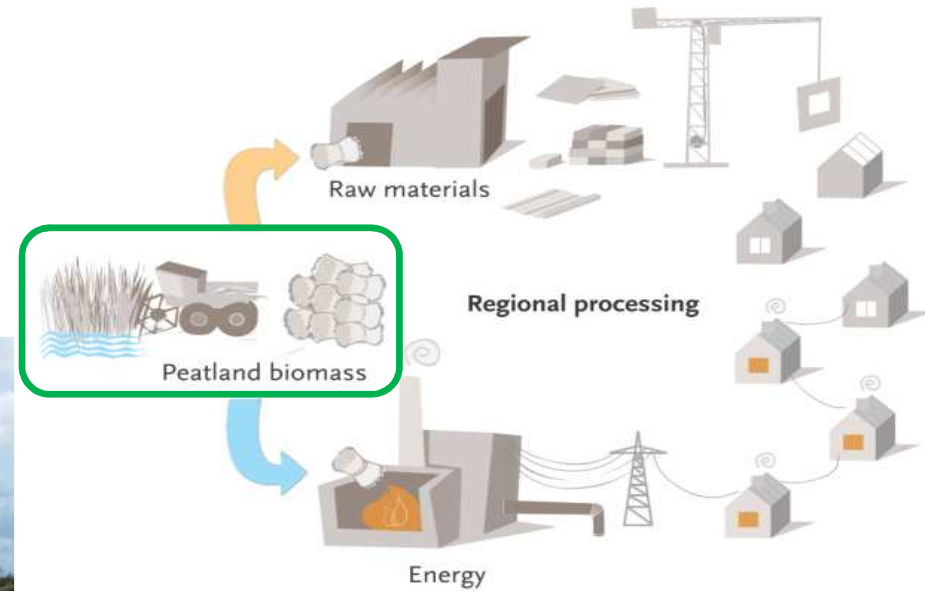
C. Schröder



W. Wichtmann



C. Schröder



S. Wichtmann

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Processing of raw materials



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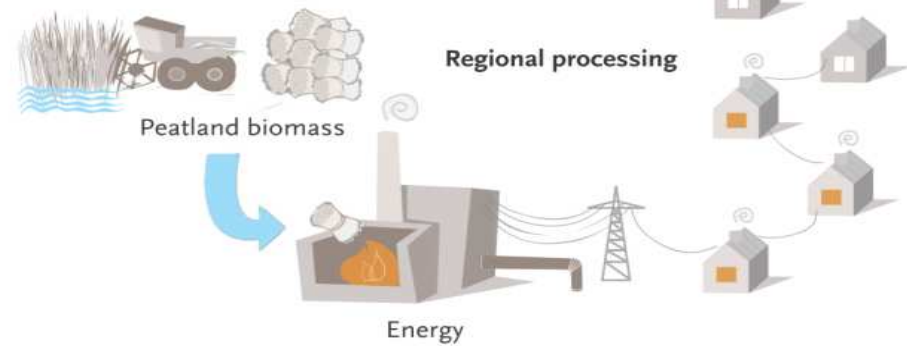
S. Wichmann



F. Tanneberger



www.typhatechnik.com



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Sphagnum farming



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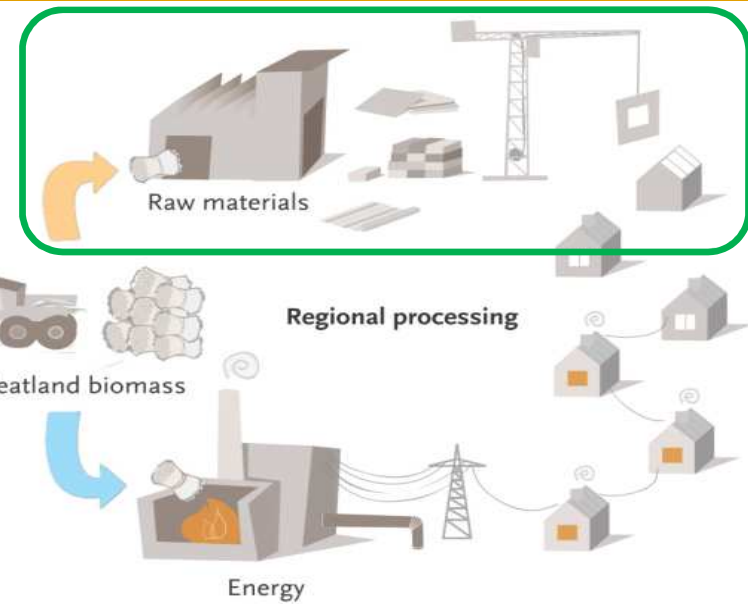
S. Wichmann



A. Prager



S. Wichmann



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Paludi-biomass in the tropics



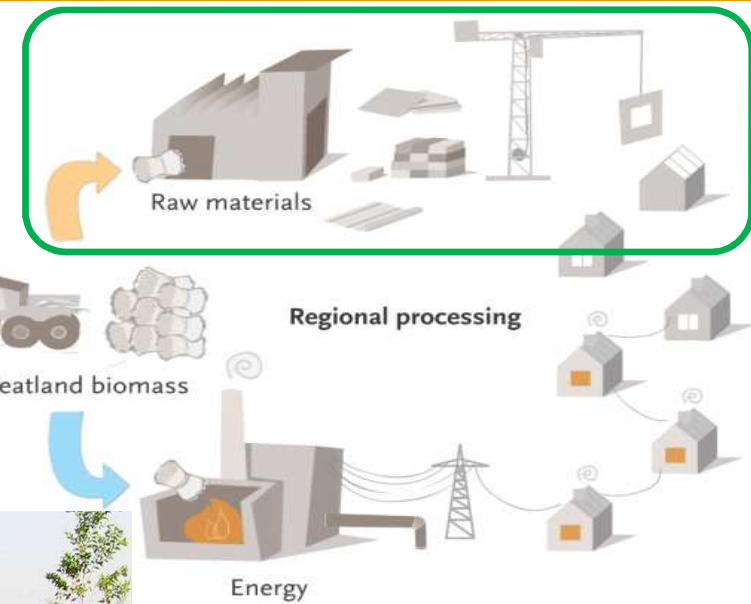
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R. Dommain



R. Dommain



greatbasinbasketmakers.org

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Biomass as fuel for energy



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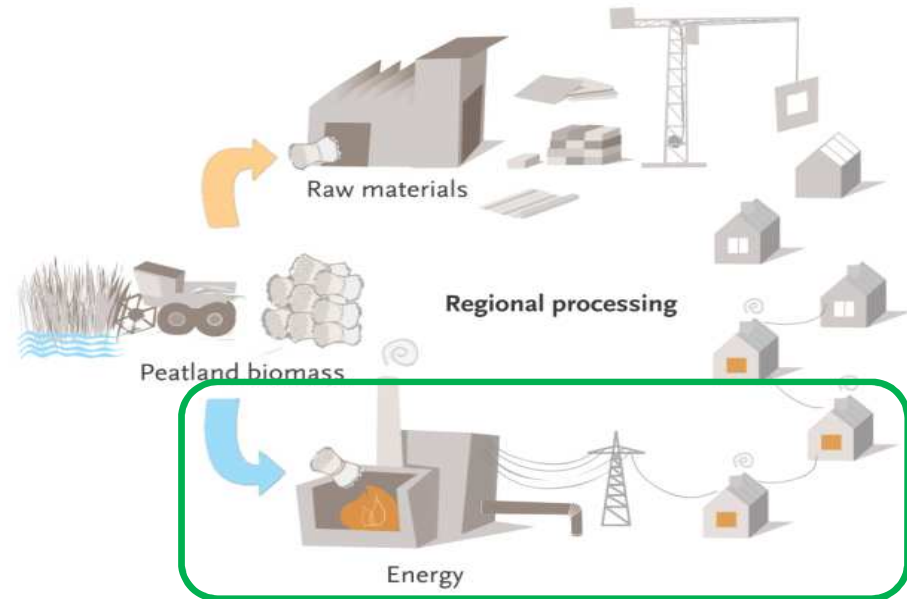
L. Lachmann



T. Dahms



W. Wichtmann



W. Wichtmann

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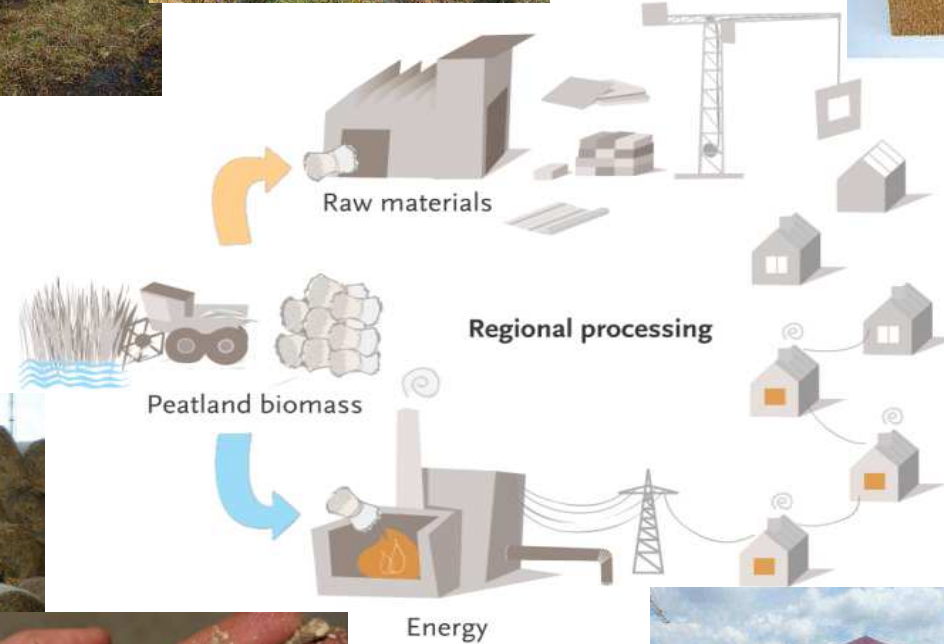
PALUDICULTURE IS FEASIBLE!



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Comparison of GHG avoidance costs

	\$/t CO ₂ -eq
Paludiculture „Reed“	0
Paludiculture „Alder“	0-2.5
Hydro & Wind power	25-50
„Bio natural gas“	67-502
„Bio fuel“	250-750

www.co2-emissionen-vergleichen.de/Vermeidungskosten/Vergleich-CO2-Vermeidungskosten.html
Wiss. Beirat Agrarpolitik beim BMELV 2007; Nutzung von Biomasse zur Energiegewinnung

→ Paludiculture is a low-hanging fruit for climate change mitigation

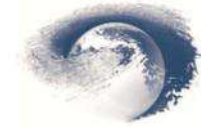


Future perspectives

Paludiculture is an innovative, climate-smart alternative!

In future we have to:

- Adapt concept to multitude of climatic zones and common agricultural practices
 - Large-scale implementation on potential paludiculture sites worldwide
 - Benefit from GHG emission accounting under new KP LULUCF activity 'Wetland Drainage and Rewetting' or on the voluntary carbon market (VCS-WRC)
 - Cut dissent subsidies for agriculture on drained peatlands (EU-CAP)
 - Identify potential paludiculture crops
- **DPPP** = “**Database of Potential Paludiculture Plants**” collects information of economically productive wetland plants, will be available soon



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For the climate, for the people, for biodiversity!

General recommendations:

1. Conserve undrained peatlands
2. Rewet/restore drained/degraded peatlands
3. Adapt management of peatlands
→ Paludiculture as climate-smart agriculture



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Paludiculture

*Sustainable productive utilisation
of rewetted peatlands*



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*Sustainable productive
utilisation of rewetted
peatlands*

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Thank you!

Visit

www.paludiculture.org

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