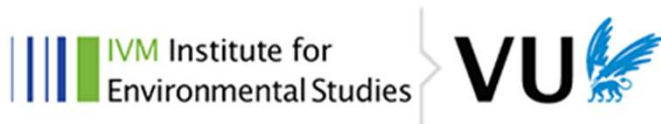




SALAD
Saline AgricuLture for ADaptation

Salinisation: a growing challenge

Dr. Kate Negacz



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Increasing Salinity in a Changing Climate Likely to Alter Sundarban's Ecosystem

January 22, 2017



How Farmers Are Preparing for a Saltier Future

As salinity affects more cultivated land due to climate change, researchers and growers are turning to salt-tolerant crops.

ENVIRONMENT · AGRICULTURE

Winegrowers in the Petite Camargue sound alarm over increasing soil salinity

Winegrowers are raising the alarm about the sudden death of their vines ravaged by salt. Higher temperatures and early drought may explain the phenomenon.

By Agathe Beaudouin (Nîmes (France) correspondent)

Published on June 16, 2022, at 5:55 pm (Paris), updated on June 16, 2022, at 5:55 pm · 3 min · [Lire en français](#)

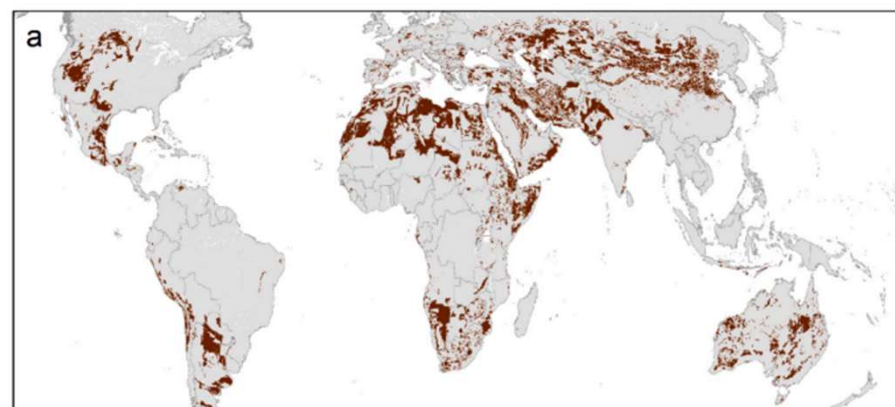
The Parliament

Saline solutions: As Europe's sea levels rise, farmers adapt

As climate change and rising sea levels make Europe's farmland increasingly salty and barren, can saline agriculture offer growers a way forward?

Promising areas for saline agriculture

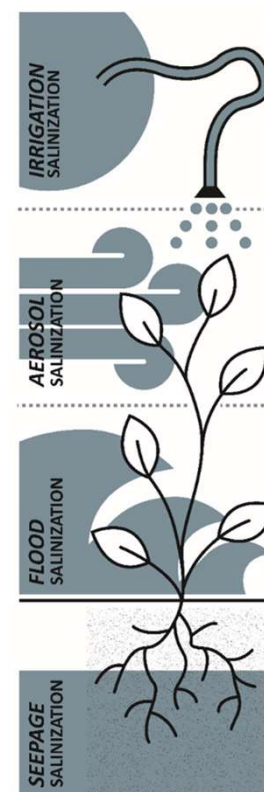
- Total area of salt-affected soils worldwide: 17 mln sq km
- Annual economic losses due to salt-affected land US\$27.3 billion (Qadir, 2014)
- Future mapping focus on high populated areas with favourable socio-economic conditions



(Negacz, Malek, de Vos, Vellinga, 2022)

Salinity in the North Sea and Mediterranean Region

- Effects of climate change
- Various saline environments
- Saline agriculture: salt-tolerant plants
- National governments and initiatives
- Stakeholders along value chain
- Investors and policy makers



Four salinization processes of the North Sea region. (De Waegemaeker 2019).

Impacts of salinity



Declining water quality



Climate change adaptation



Land abandonment and land use change with low yields



Loss of biodiversity

(Smaoui et al. 2024)

SALAD (Saline Agriculture for Adaptation)

- Transcontinental
- Innovative
- Bridging food systems and climate
- Saline agriculture
- Vision, research and practice
- Upscaling







Upscaling

- Horizontal – six countries and four crops
- Diagonal – new business models
- Vertical – from farmers to policy makers & investors



Future starts now

- How can we build inclusive multi-stakeholder international community of saline agricultural science and practice?
 - Current networks vs. new initiatives?
- How can we mobilize more investment in saline agriculture?
 - International financial institutions vs. microfinance?
 - Putting saline agriculture on the policy agenda



Thank you!

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SUSTAIN

Sustainable use of salt-affected lands



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