



Food and Agriculture
Organization of the
United Nations

Managing salt-affected soils for sustainable future

2nd Meeting of the International Network of Salt-Affected Soils (INSAS)



| Hybrid meeting
| Tashkent/Nukus, Uzbekistan
| May 22-26, 2023



Putting Salt-Affected Soils on the EU Policy Agenda



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Introduction

- Salt-affected soils are becoming an increasingly critical environmental issue in the European Union (EU)
- EU policy documents scarcely address this issue and legal instruments are only adopted nationally in some EU member states (FAO SoiLEX Portal, 2023).
- This study examines existing supranational policies, frameworks, and legal instruments and presents a way forward based.

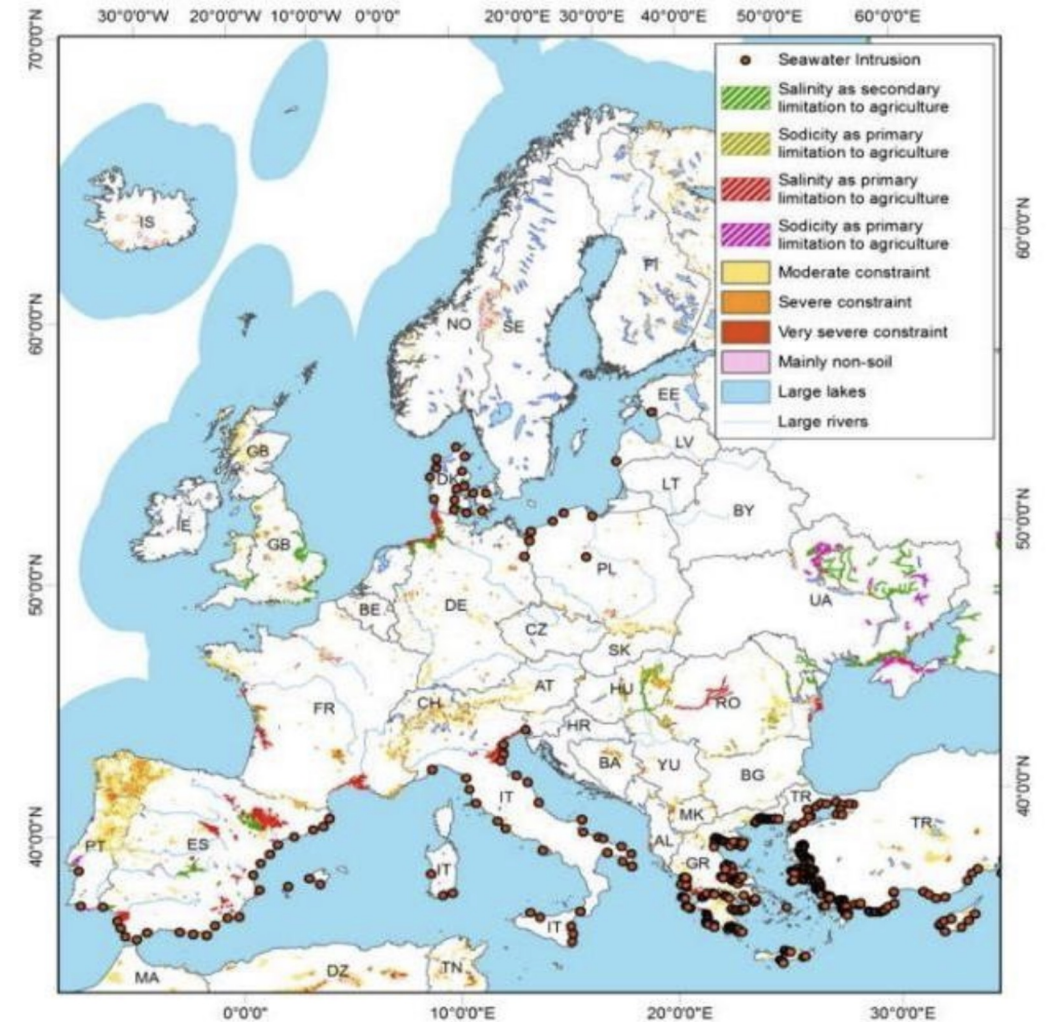
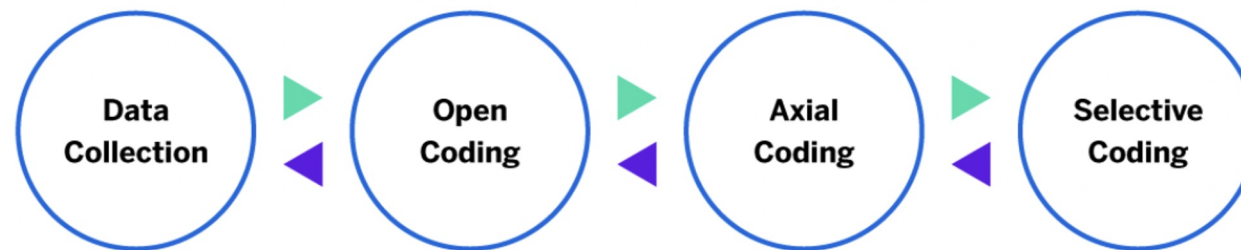


Figure 1. Saline ($EC > 4 \text{ dS m}^{-1}$ within 100 cm of the soil surface) and sodic ($ESP > 6\%$ within 100 cm of the soil surface) soils as agricultural constraint and as primary and secondary limitations to agricultural use, and areas of seawater intrusion in Europe. (Daliakopoulos et al., 2016)

Methods

- Content analysis of policy documents
- 17 semi-structured interviews with experts in agriculture, policy, academia, and public affairs
- Grounded theory for data analysis with open coding, axial coding, and selective coding
- Based on emerging themes, recommendations for future pathways were formulated



Policy Documents



Results

Policy Strategies	Position of Salt-Affected Soils and Saline Agriculture
European Green Deal & Farm to Fork Strategy	Non existent
Common Agricultural Policy	2 of 10 strategy documents,
EU Soil Strategy 2030	Mentioned, but limited to restorative action
EU Biodiversity Strategy 2030	Mentioned, but limited to restorative action



Conclusion

- 1) There is a policy gap at the EU level regarding salt-affected soils
- 1) Putting saline agriculture on the EU policy agenda (CAP, EGD, EU Strategies 2030) will contribute to a coherent long-term vision
- 1) Salinity issues and solutions should be framed in a broader context, and include a wide range of stakeholder.

Discussion

- 1) Policy formulation at the EU level should include:
 - a. Contextuality
 - b. Farmer unions and co-op consultation
 - c. Holistic and transdisciplinary focus
- 1) “Key policy impediments needed to address for technology dissemination issue in order to reach targeted communities in salt-affected areas” (Mandal et al., 2018)
- 1) **The role of supranational policies for salt-affected soils and saline agriculture in EU and beyond?**



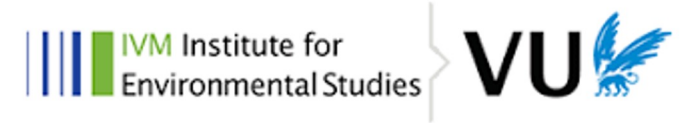
Saodat Ismailova

18.000 Worlds



“Two Horizons” (2017), by Saodat Ismailova.

Any Questions?



Please feel free to reach out!

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Bibliography

Daliakopoulos, I. N., Tsanis, I. K., Koutroulis, A., Kourgialas, N. N., Varouchakis, A. E., Karatzas, G. P., & Ritsema, C. J. 2016. The threat of soil salinity: A European scale review. *Science of the total environment*, 573, 727-739.

European Commission. 2023a. *The new common agricultural policy: 2023-27*. [online]. [cited 2 January 2023]. https://agriculture.ec.europa.eu/common-agricultural-policy/cap-overview/new-cap-2023-27_en

European Commission. 2023b. *Key policy objectives of the new CAP*. [online]. [cited 4 January 2023]. https://agriculture.ec.europa.eu/common-agricultural-policy/cap-overview/new-cap-2023-27/key-policy-objectives-new-cap_en

European Commission. 2023c. *CAP specific objectives: agriculture and climate mitigation*. Brief No. 4. [cited 6 January 2023]. https://agriculture.ec.europa.eu/system/files/2020-06/cap-specific-objectives-brief-4-agriculture-and-climate-mitigation_en_0.pdf

European Commission. 2023d. *CAP specific objectives: efficient soil management*. Brief No. 5. [cited 6 January 2023]. https://agriculture.ec.europa.eu/system/files/2018-12/cap-specific-objectives-brief-5-soil_en_0.pdf

European Commission. 2023e. *CAP specific objectives: biodiversity and farmed landscape*. Brief No. 6. [cited 6 January 2023]. https://agriculture.ec.europa.eu/system/files/2020-06/cap-specific-objectives-brief-6-biodiversity_en_0.pdf

European Commission. 2021a. *EU Soil Strategy for 2030*. [cited 2 January 2023]. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52021DC0699>

European Commission. 2021b. *EU Biodiversity Strategy for 2030*. https://www.europarl.europa.eu/doceo/document/TA-9-2021-0277_EN.html

European Commission. 2019a. *A European Green Deal*. [online]. [cited 4 January 2023]. https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/european-green-deal_en

European Commission. 2019b. *Farm to Fork Strategy*. [online]. [cited 4 January 2023]. https://food.ec.europa.eu/horizontal-topics/farm-fork-strategy_en

FAO. 2023. *SoiLEX FAO Soils Portal*. [online]. [Cited 2 January 2023]. <https://www.fao.org/soils-portal/soilex/en/>

Mandal, S., Raju, R., Kumar, A., Kumar, P., & Sharma, P. C. 2018. Current status of research, technology response and policy needs of salt-affected soils in India—A review. *J. Indian Soc. Coast. Agric. Res*, 36, 40-53.