

Round Table Online Event
14/09/2020



SlE - Towards Lecce2021



UNIVERSITÀ
DEL SALENTO

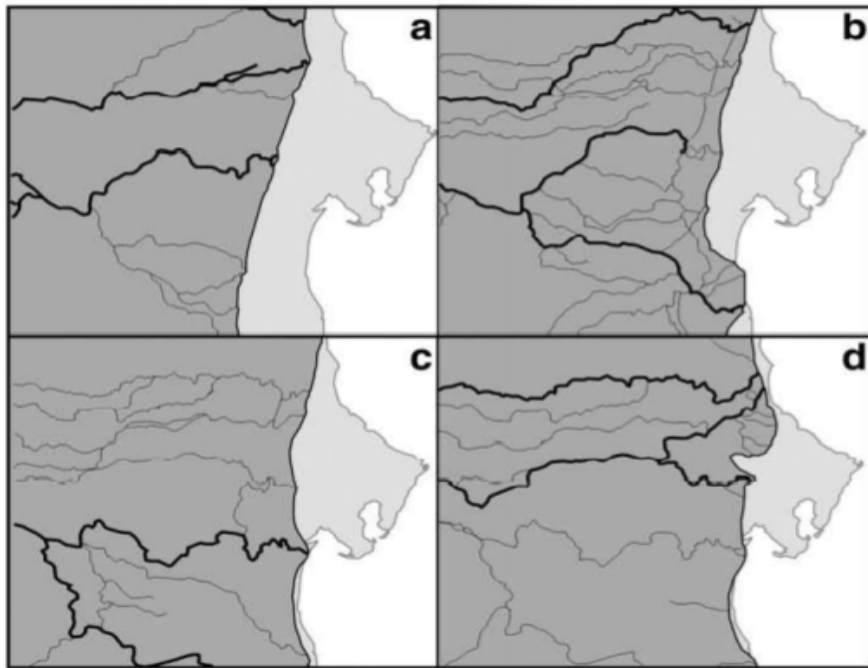


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Ecosystem Services in Po River Delta

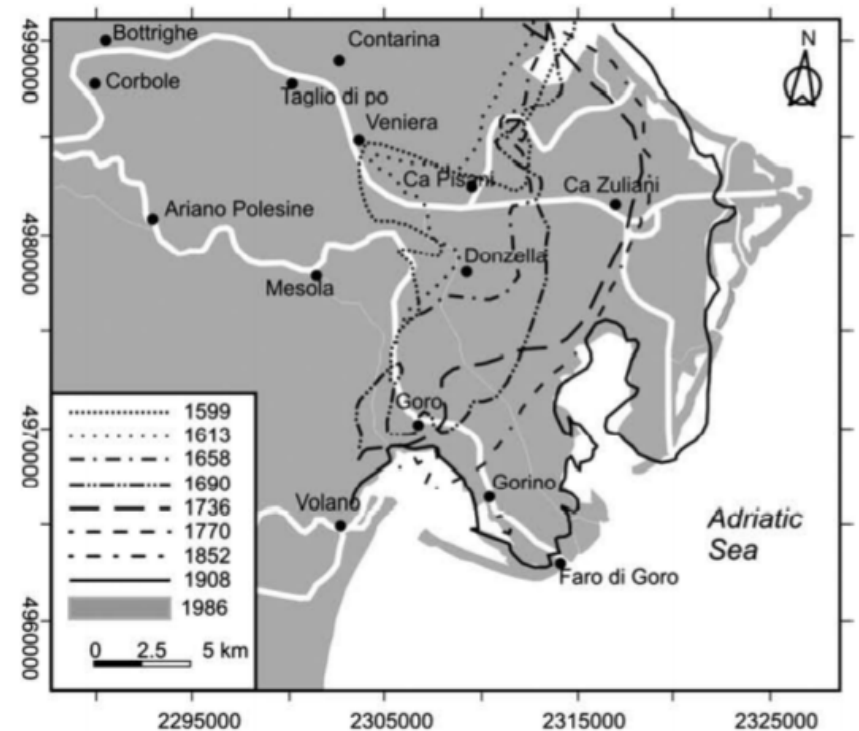
Elisa Anna Fano and Mattias Gaglio, Dept. Life Sciences and Biotechnology, University of Ferrara
Round Table Session: Ecosystems and their services for human well-being

The evolution of the deltaic area of the Po river



Delta situation in dark grey at a) the end of the Bronze Age, b) during the Roman times, c) at the end of the Middle Age and d) at the beginning of the 17th century.

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Schematic representation of the successive shorelines from 1599 to 1986 (the grey area is the present-day situation)

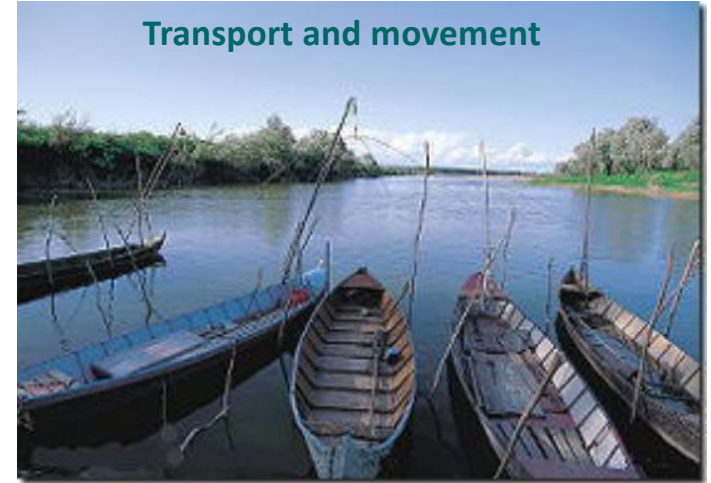
Ecosystems Services to Human Population: the Past

Water and Materials



Food, Bertovello

Transport and movement

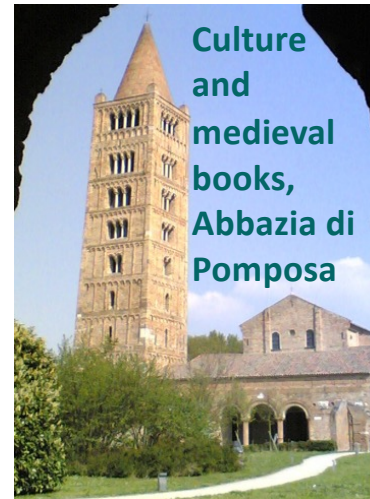


Food, Lavoriero



Supporting services
Provisioning services
Regulating services
Cultural services

Culture
and
medieval
books,
Abbazia di
Pomposa



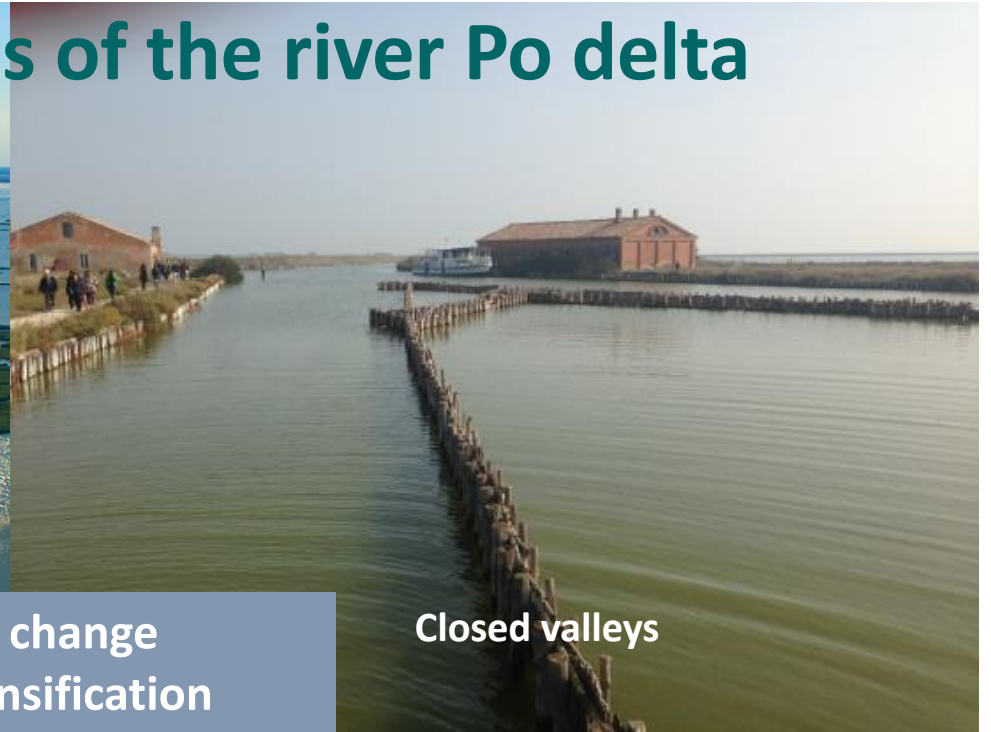
Leisure, Prato delle Duchesse



The present: Ecosystems of the river Po delta



Coastal lagoons



Closed valleys

- Land cover change
- Land use intensification
- Alteration of ecological processes



Inner wetlands

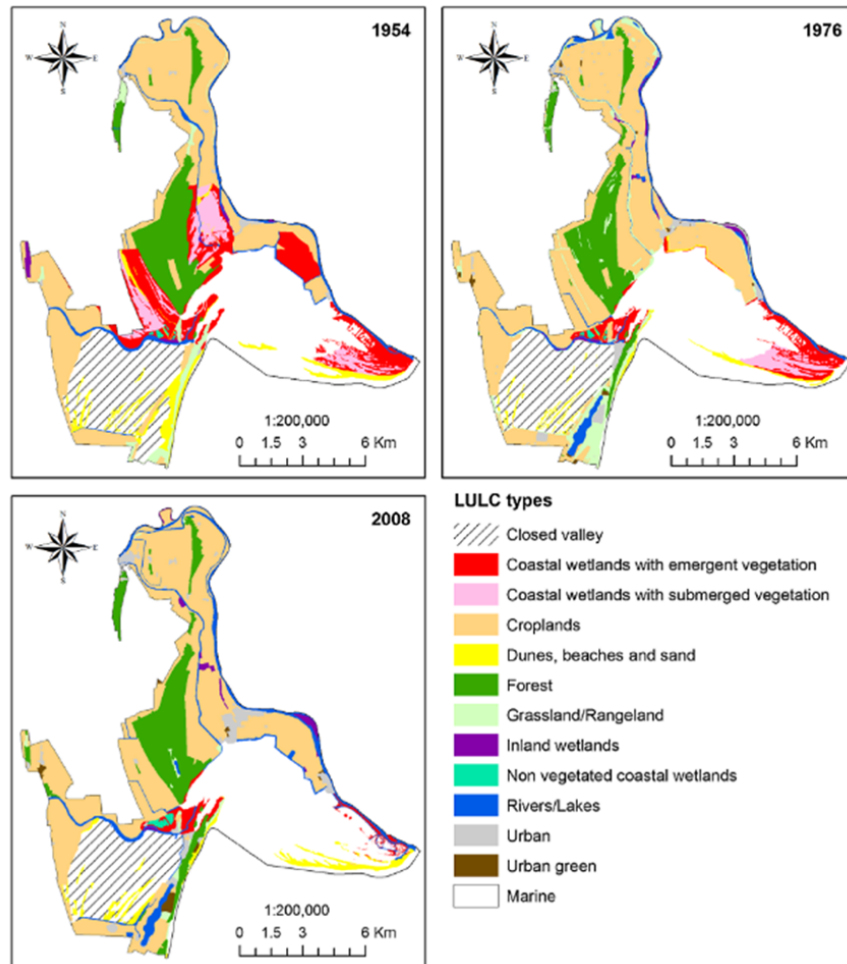


Coastal woodlands

a complex system with high productivity: provisioning services

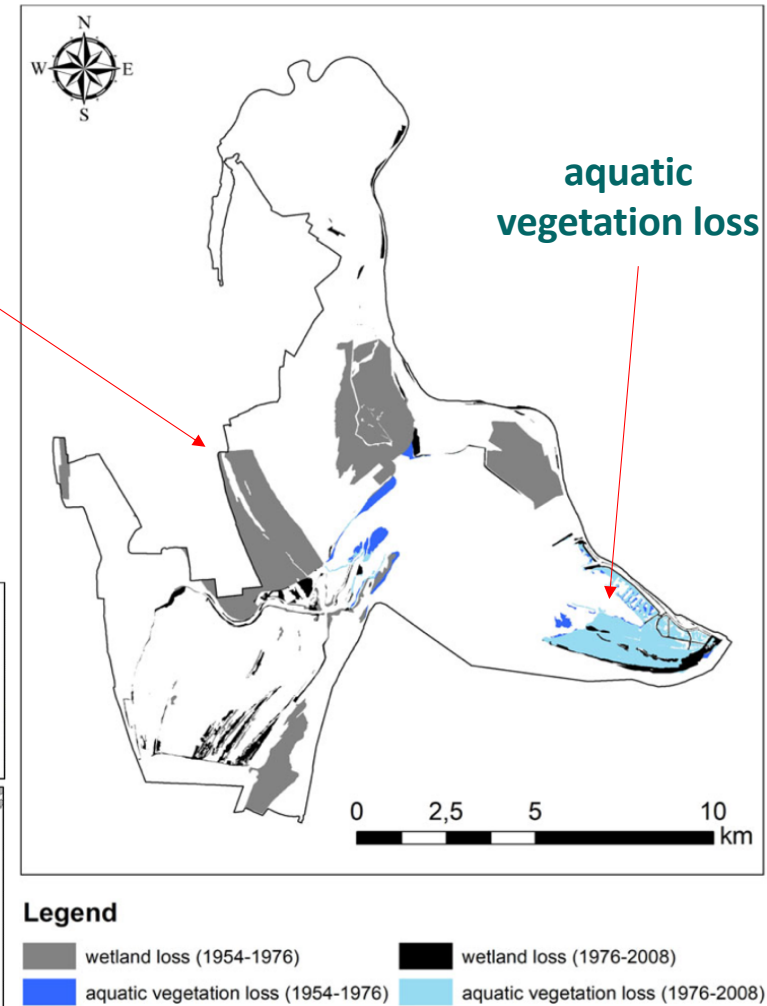


Land cover changes

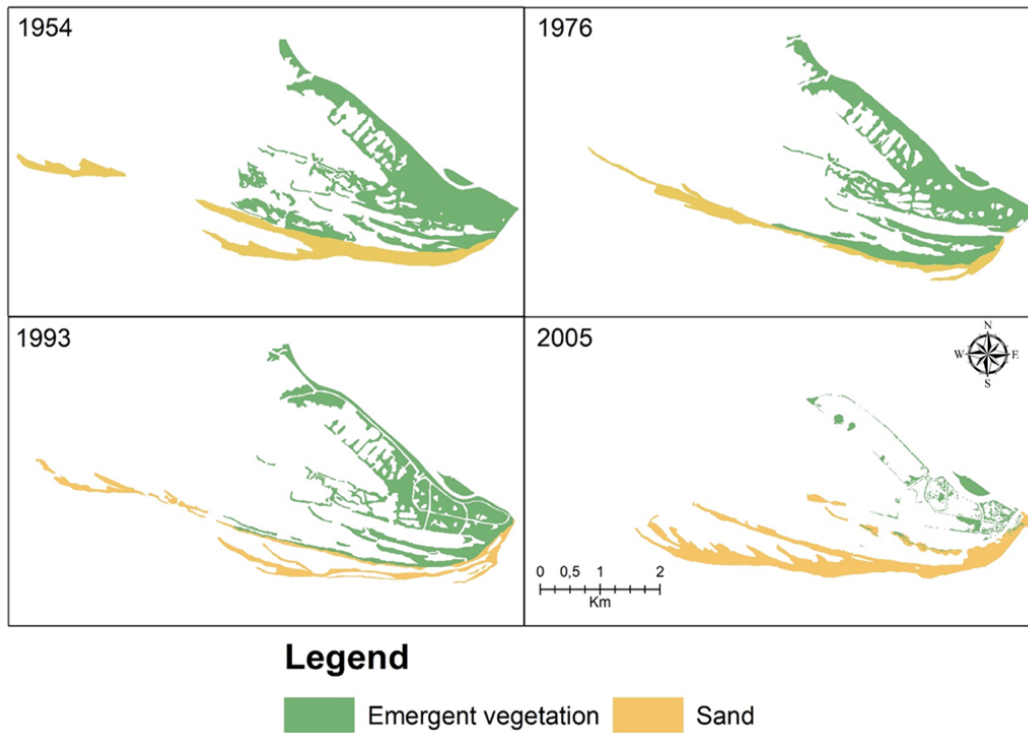


wetland
reclamations

aquatic
vegetation loss



Consequences of land use intensification: common reed die-back



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Clam production

The 2018 annual production was 12,891 t yr⁻¹ (data source: Emilia-Romagna Region)

Average price 5.95 € kg⁻¹

An estimated 2018 cash income of 75-80 M€



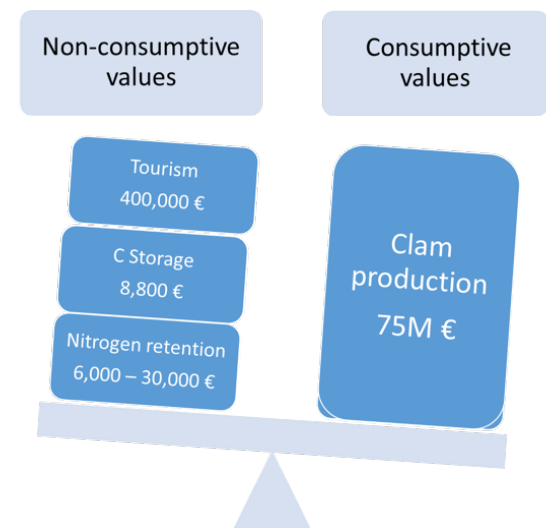


carbon storage

water depuration

tourism

biodiversity



The future of the river Po delta: learning from the past

Restoring of ecological functions in the Goro lagoon



Operative implementation of Ecosystem Services assessment in the new Masterplan of the Po delta Park





**University
of Ferrara**

Department
of Life Sciences
and Biotechnology

THANKS FOR YOUR ATTENTION

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Registration & info www.congresso.ecologia.it

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