



Using hydrochory for agricultural landscape revegetation

Martin Faucher (ECS), Fabrice Vinatier & Jean-Stéphane Bailly

UMR LISAH, National Institute of Agronomy, Montpellier, France

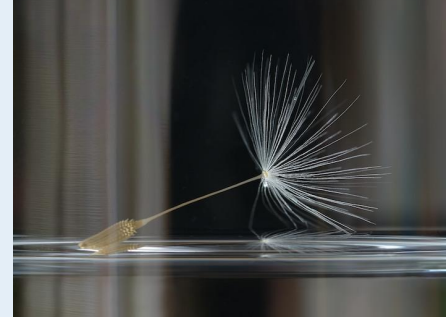
27/05/2022

LISAH

INRAE

What is hydrochory ?

- Dispersal of a plant part/an entire plant moved by flowing water
 - Usually we focus on seed dispersal

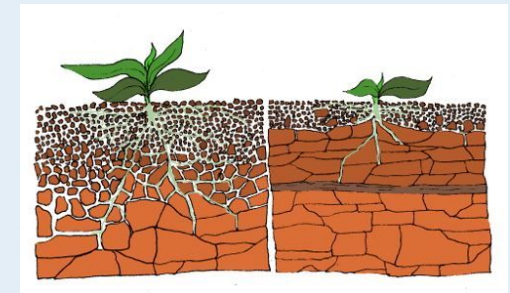
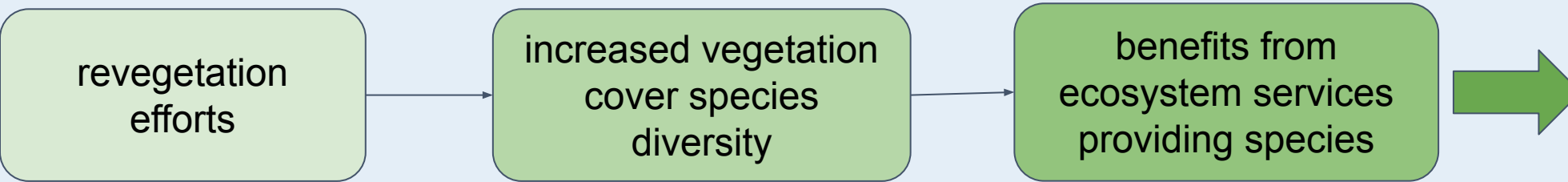


- On land, usually linked to soil erosion



Sources : Parolin et al., 2005 ; Garcia-Fayos & Cerda, 2004

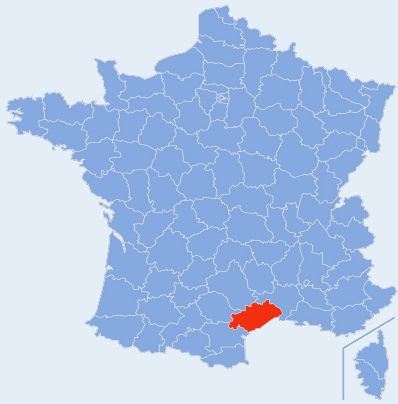
Agricultural landscape revegetation



Sources : Capello et al., 2019; Novara et al., 2019

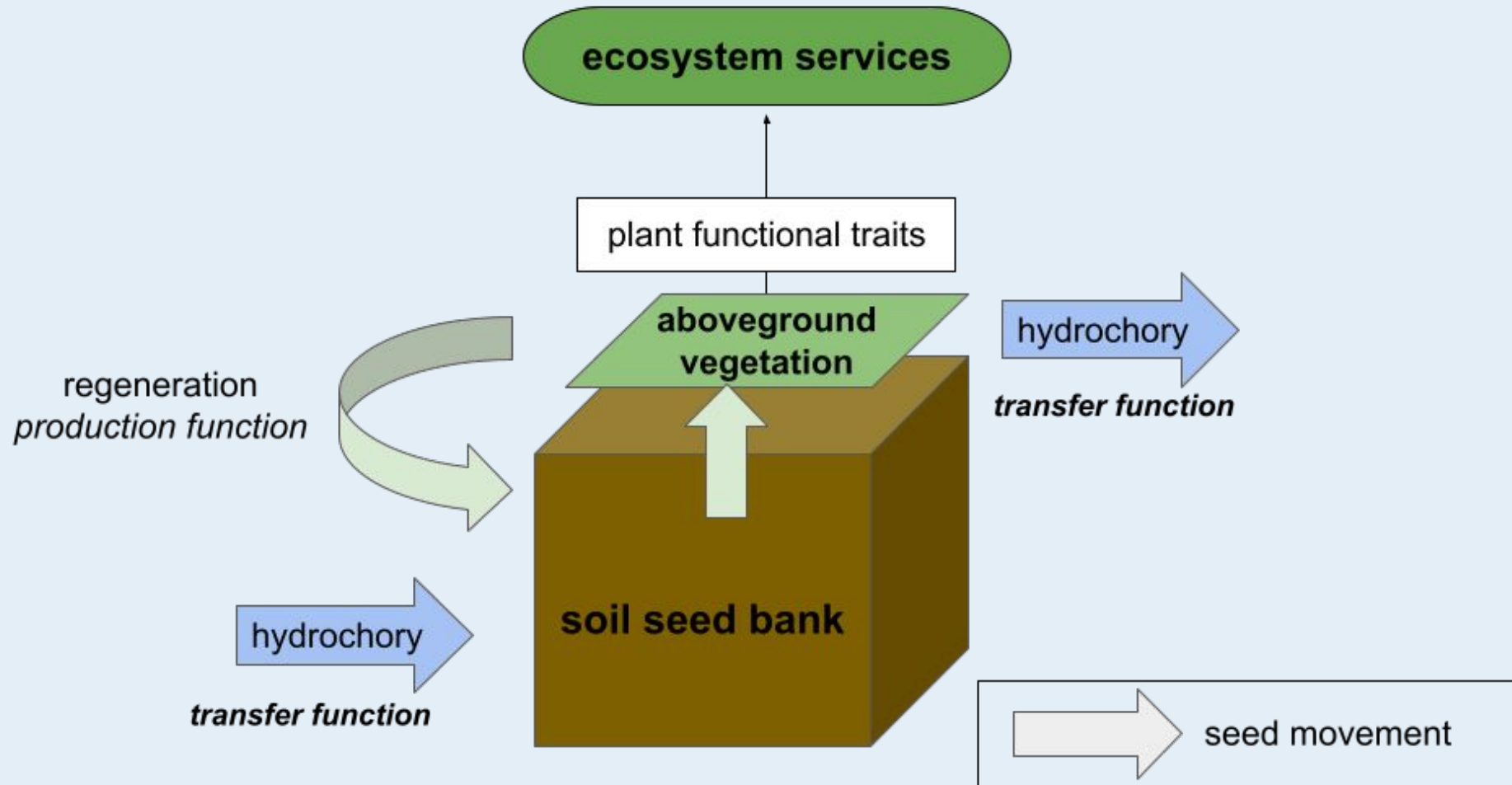
Our site of focus

- Mediterranean vineyards from the southern part of France and their drainage ditches
 - Specifically, a small ($<1 \text{ km}^2$) water catchment mainly occupied by vineyards



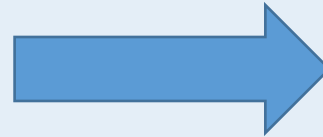
- Heavy rainfall episodes during summer

Our objectives



How to quantify hydrochory ?

- Marked seeds from potential services-providing species



- Counting marked seeds dispersal distance after a major rainfall event
=> creating dispersal kernels

Thanks for your attention !

Contact me : martin.faucher@inrae.fr

access to the abstract :



This project was funded through Labex AGRO 2011-LABX-002, project n°2002-2014 (under I-Site Muse framework) coordinated by Agropolis Fondation.

