



MarginUp!

Raising Bio-Based Industrial Feedstock
in Marginal Lands

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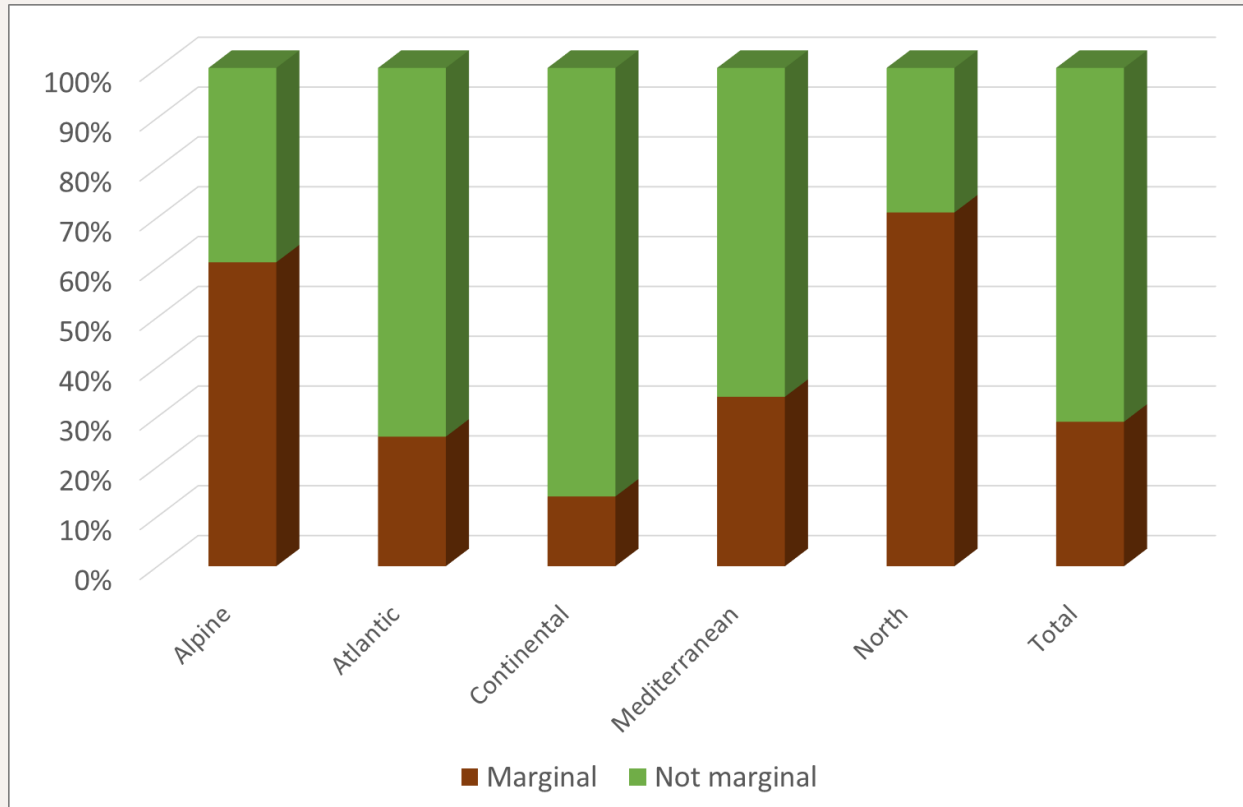
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Background and Motivation



Source: Elbersen et al, 2018 (according to Corine Land Cover between 1990 and 2012)

EUROPEAN COMMISSION

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COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

EU Soil Strategy for 2030
Reaping the benefits of healthy soils for people, food, nature and climate

{SWD(2021) 323 final}

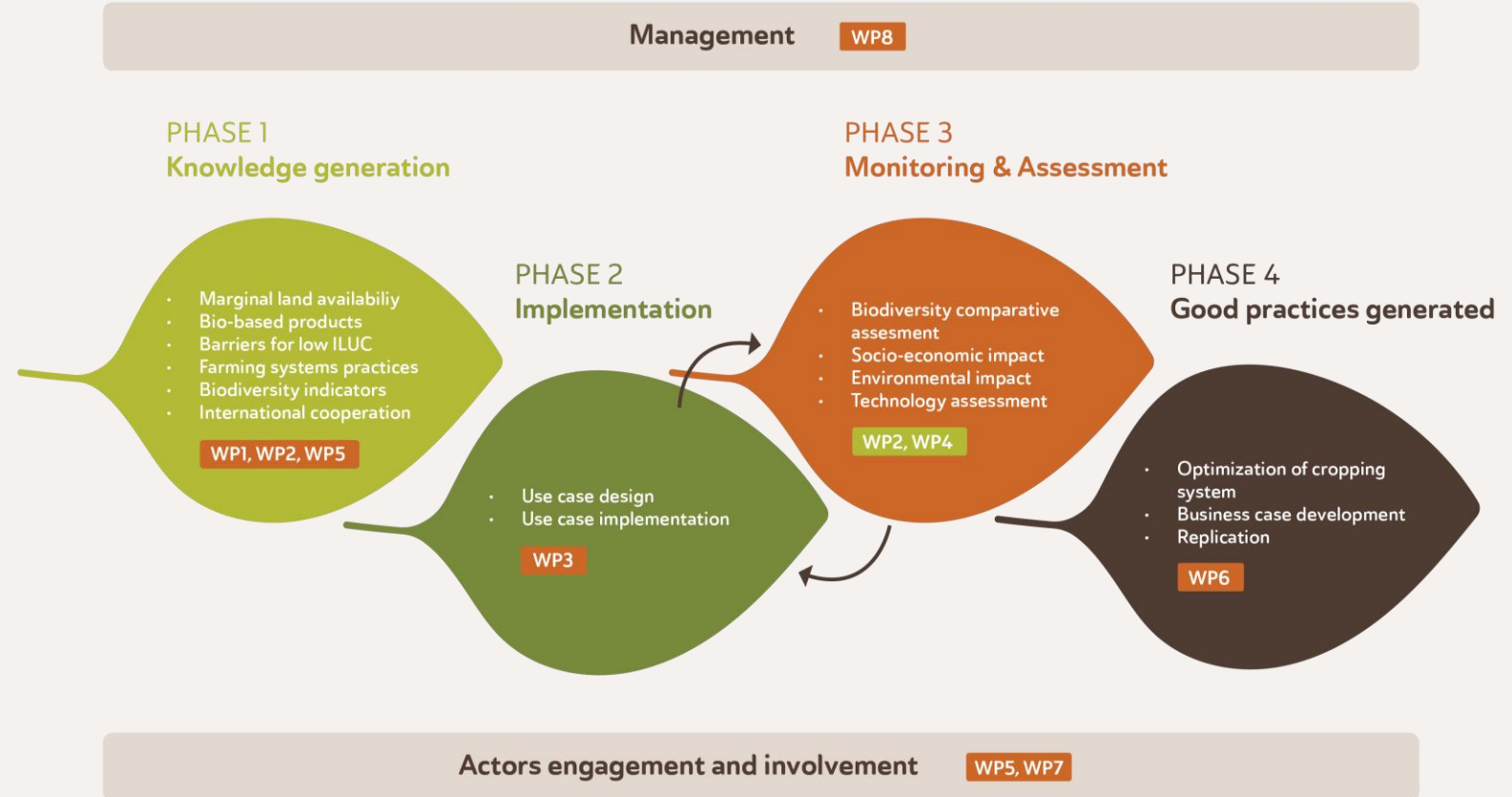
“The vision for soil By 2050, all EU soil ecosystems are in healthy condition and are thus more resilient, which will require very decisive changes in this decade.”



What is MarginUp! and how is it designed?



- MarginUp! is developing sustainable **circular value chains** to produce bioproducts & biofuels from natural raw materials grown on **marginal lands**.
- By introducing **climate resilient and biodiversity-friendly non-food crops** on marginal and low-productivity lands, MarginUp! increases **farming system resilience**, enhance **biodiversity**, promote **stakeholder participation**.



European Full-scale Use Cases



Turnip rape, biodiesel, biogas, protein rich animal feed



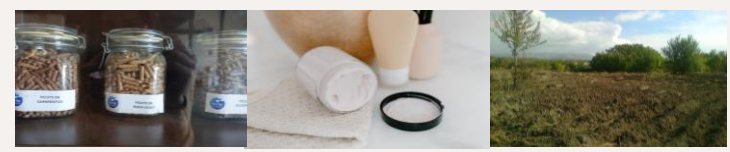
Green pellets from rewetted fenlands raw material



Construction panels from hemp and kenaf, biogas and organic fertiliser



Circular oyster mushroom production, animal feed, biogas, fertilizer



Fiberwood (MDF), bioenergy (pellets), facial lotions, soaps, cosmetic industry, local honey

MarginUp! is learning from 7 case studies worldwide: Five full-scale implementations across Europe: **Germany, Greece, Hungary, Spain, Sweden**; non-EU cases **Argentina, South Africa**, together increasing replication potential of the project's results.

Each EU use-cases considers the current use & properties of the area and proposes crops & crop rotation strategies that **enhance biodiversity & increase soil productivity** according to local requirements.

GO-GRASS - MarginUp!

“Marginal Wetland”

Brandenburg, Germany



Mover on fenland.
Photo: Carsten Lühr (ATB)



Green pellets
Photo: Trüggelmann (FMS)

Current use/state

Fenlands/wetlands that have been mostly drained for agricultural use and are to be **rewetted** as part of Germany’s efforts to meet **climate protection** and greenhouse gas emission reduction goals.

MarginUp! alternative

Wet agriculture (for instance reed, cat tail and reed canary grass) on the rewetted peatlands provide new **wildlife habitats** and biomass for the production of **pellets for green roofs, soil remediation, animal bedding and fuel**.

Learn more about MarginUp!



Follow us on social media and sign up to our newsletter, The Up!Date, to learn more about the project, our activities, outputs, and events!

Sign up at www.margin-up.eu



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[MarginUp!_EU](https://www.linkedin.com/company/marginup-eu)



[MarginUp! | Horizon Europe project](https://www.youtube.com/channel/UC...)

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