

PANACEA Roadmap for ITALY

PANACEA



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CREA (Monterotondo, Rome)



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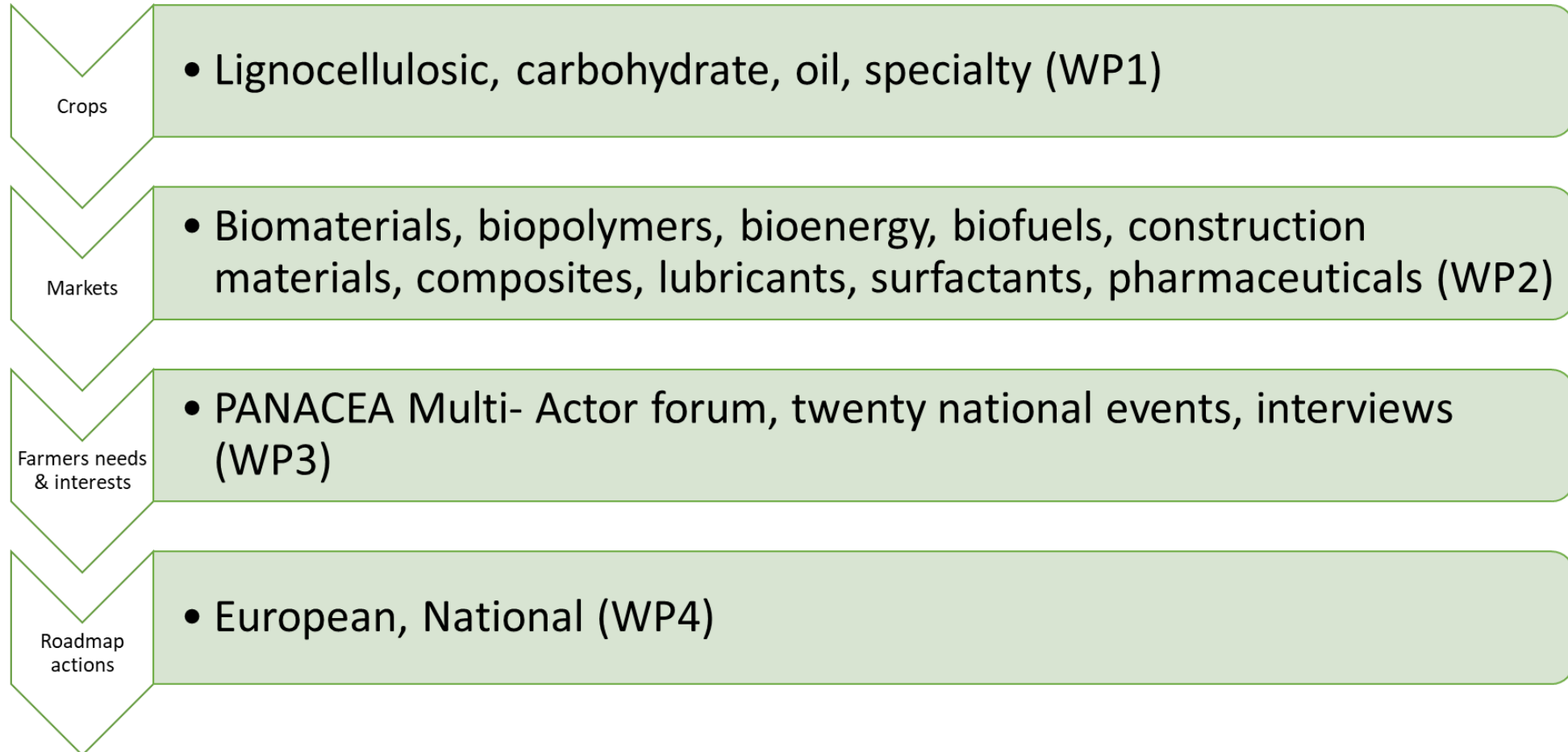
Reviride Project
<https://sensiseeds.com/en/blog/reviride-hemp-project-could-save-italys-industrial-heartland-from-pollution/>



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Approach & Links to PANACEA Work Packages

PANACEA









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Markets

- Pharmaceuticals
- Polymers
- Lubricants, surfactants

Drivers











- Productivity & ability to be grown in large scale using existing machinery 
- Familiarity with ability to produce feedstocks for multiple end-uses 
- Profitability 
- Sustainability 

Barriers



- Cultivated on small farms
Low yields compared to rapeseed, etc.
- Low consumer awareness about camelina oil; small market and high competition with other oil crops
- Low revenue due to low yields
- Low experience of growing in marginal land

TRL>7			a) industrial production already available at commercial scale b) used at commercial scale for multiple end-uses c) high
TRL5-7			a) production available at demo scale b) recognized for its multiple end-uses c) medium
TRL3-5			a) research to production development b) recognized end-use but still at the research level c) low
TRL<3			a) basic research data available b) no recognized end-use c) very low



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Barriers



- Cultivated on small or organic farms
Low yields compared to rapeseed, mustard, etc.
- Low consumer awareness about camelina oil;
small market and high competition with other oil crops
- Low revenue due to low yields
- Low experience of growing in marginal land

2021

2025

2030



Sustainable cropping strategies for crop rotation, cover crop, etc.



Develop farmer clusters- improve domesticated material



Training for cooperatives



Finance crop rotations



Sustainability governance & SDGs

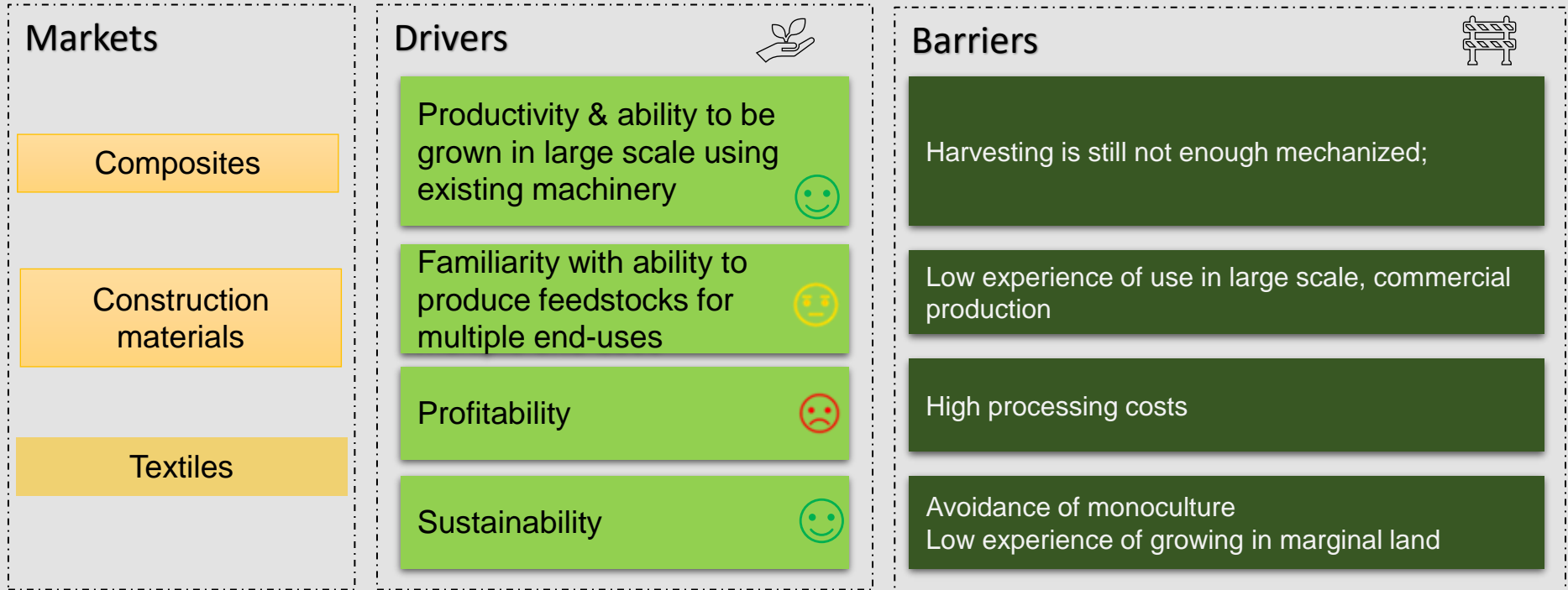










Finance market development

Actors Research Industry Government Agricultural community



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Roadmap actions to overcome the barriers



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Barriers

Harvesting is still not enough mechanized;

Low experience of use in large scale, commercial production

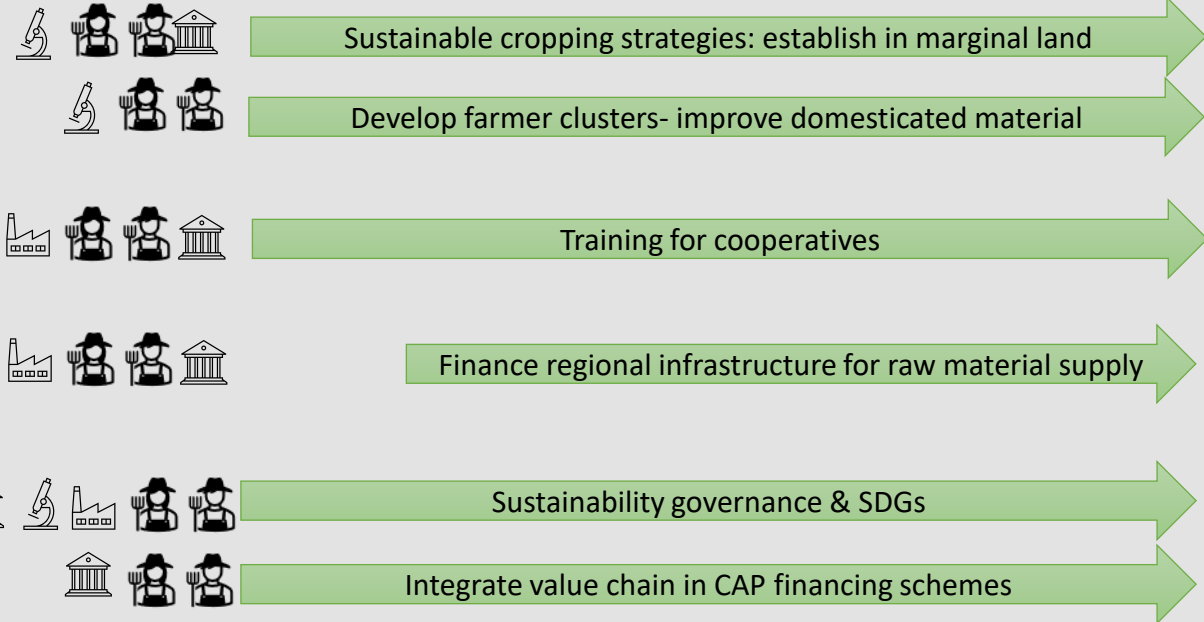
Low revenue in low quality soils
 Long payback period






Avoidance of monoculture
 Low experience of growing in marginal land

2021

2025

2030



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Markets

Bioenergy

Drivers



Productivity & ability to be grown in large scale using existing machinery



Familiarity with ability to produce feedstocks for multiple end-uses



Profitability



Sustainability



Barriers



Propagation by rhizomes and cane cuttings is not efficient for industrial scale.

Low experience of use in large scale, commercial production

Low revenue in low quality soils
Long payback period

Avoidance of monoculture
Fire risks during summer

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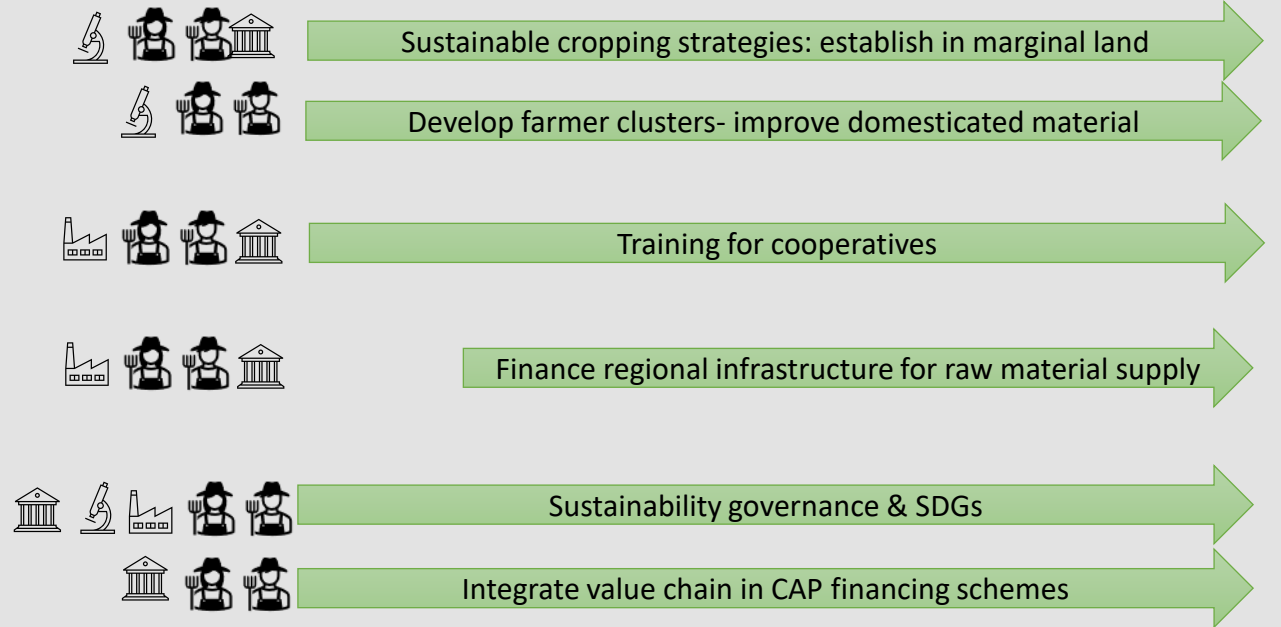
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Drivers

- Productivity & ability to be grown in large scale using existing machinery
- Familiarity with ability to produce feedstocks for multiple end-uses
- Profitability
- Sustainability

Barriers

- Aphids and mildew may compromise yields
Harvesting requires improvements
- Low farmer knowledge about multiple end use prospects
- Low market development
- Avoid monoculture

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Roadmap actions to overcome the barriers



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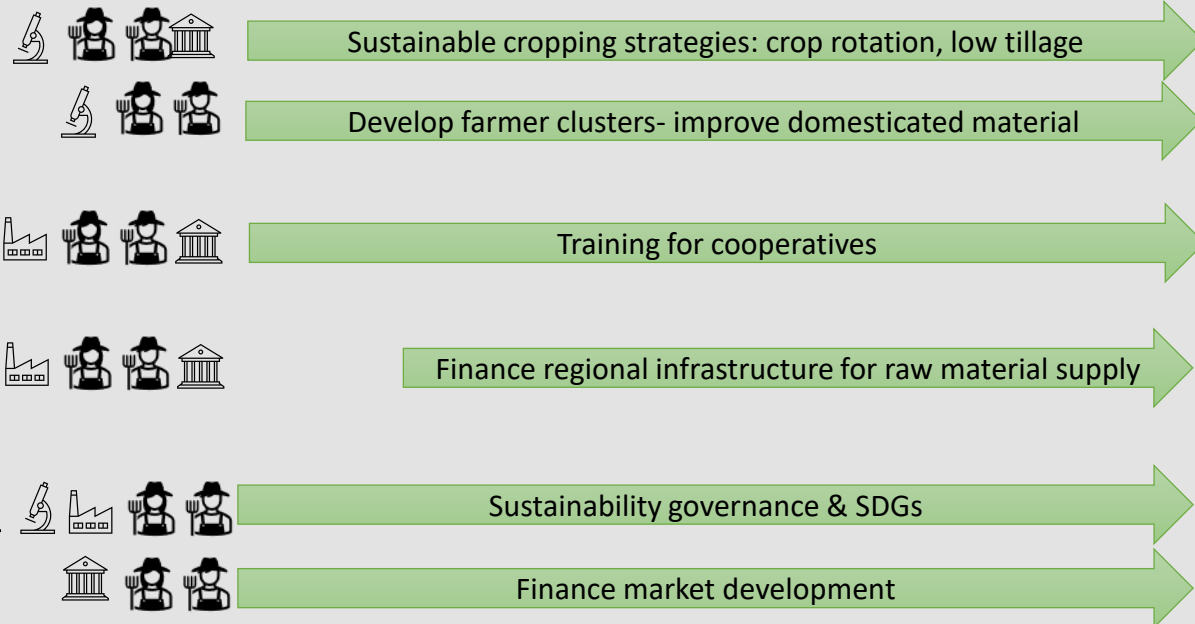
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Low farmer knowledge about multiple end use prospects

Low market development

Avoid monoculture

2021 2025 2030 



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Productivity & ability to be grown in large scale using existing machinery



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Profitability



Sustainability



Barriers



Intensive weed control during early stages
Risks of lodging during August/ September

Competition with animal feed

Low market development

Low experience of growing in marginal land

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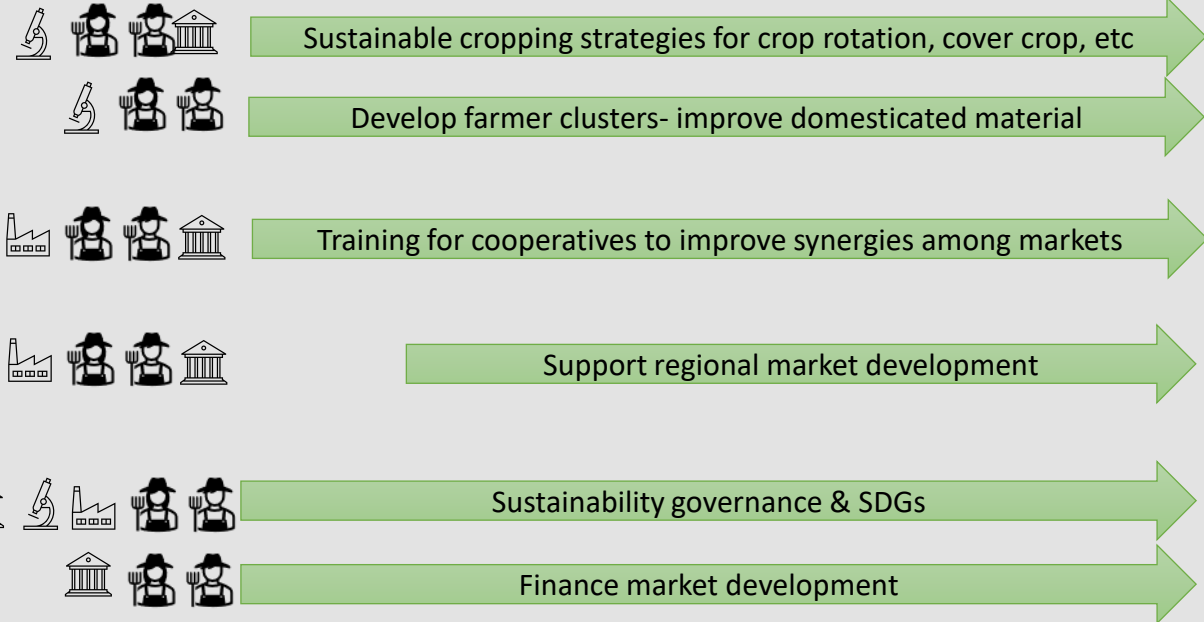
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