



Camelina
Company | España

Sustainable camelina value chain in Spain

MAGIC project

Imperial College, London
March 2019

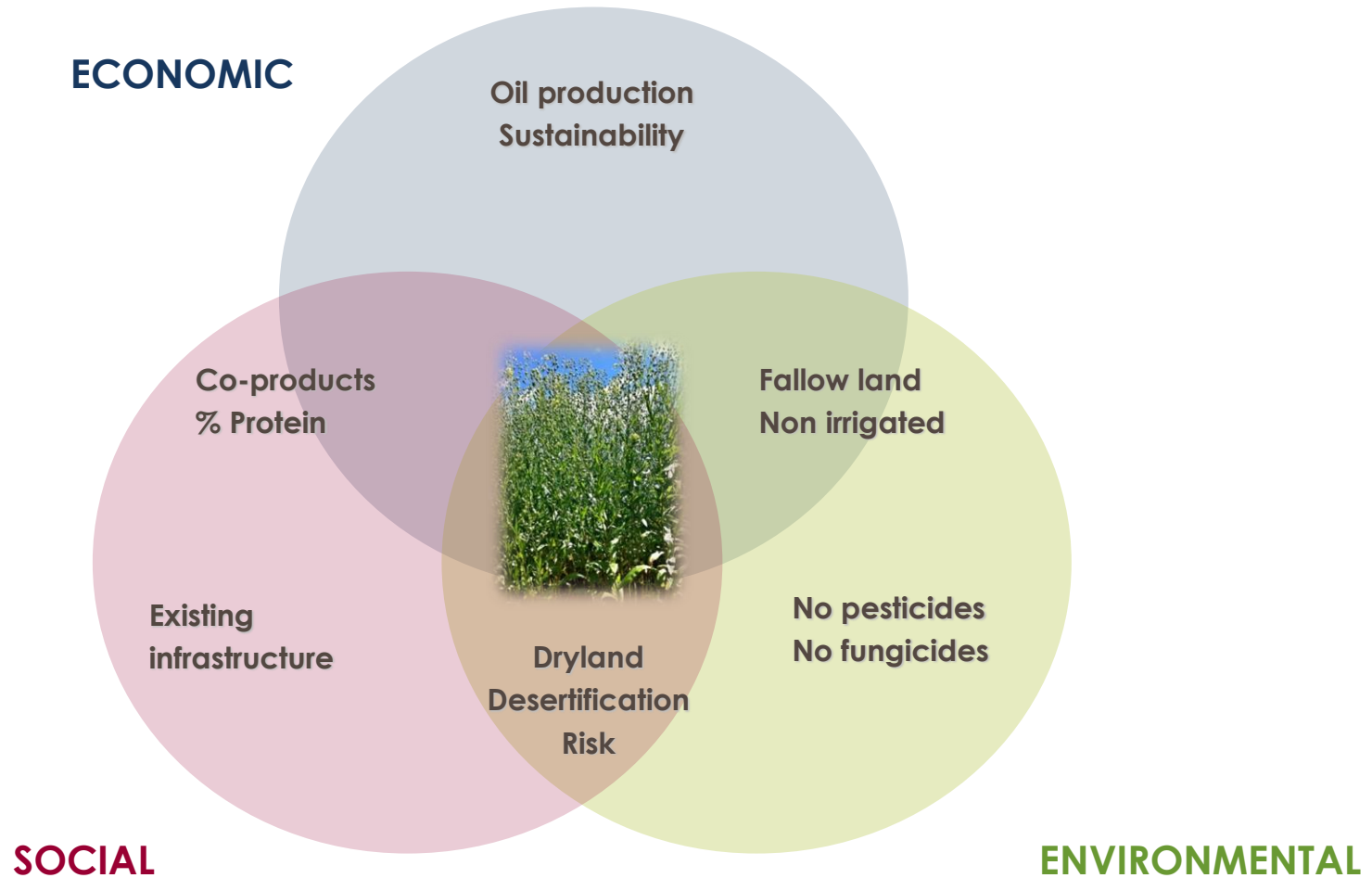
Sowing a sustainable future

CCE camelina sustainability





- Easy implementation & cultivation
- Top early vigor – quick soil cover
- Resistant to pests & disease
- Good drought tolerance
- Good root system
- High weed suppression effect



CCE camelina in Spain



December



January



February



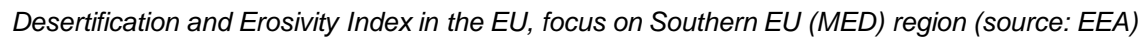
April



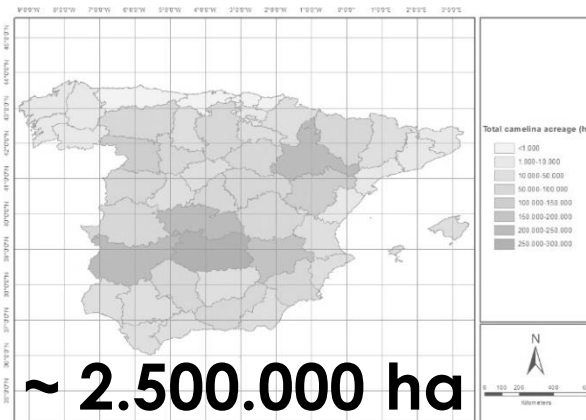
May



June



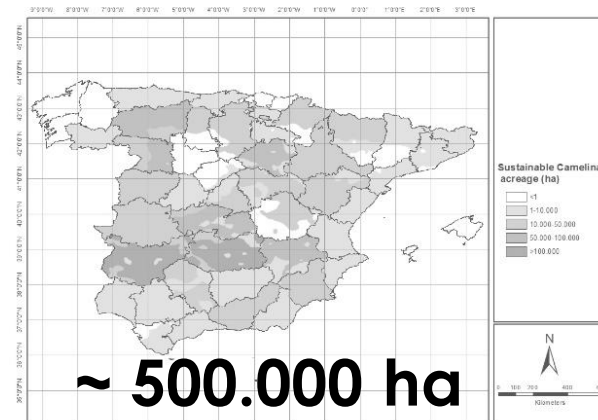
Fallow land



~ 2.500.000 ha

≈ 50% Europe's fallow land

Sustainable production Land < 5 Tm/ha cereal



~ 500.000 ha

ITAKA consortium (2016)

Cultivate camelina reducing fallow land in semi-arid regions where other oilseed crops are not viable:

- Sunflower: lack of spring rainfall
- Rapeseed: lack of autumn rainfall





Crop introduction in 2010
Camelina value chain
Sustainability



Sowing a sustainable future



Crop introduction in 2010 Camelina value chain Sustainability



5

**new
varieties**



1.000+

farmers



30.000+

hectares



5.000+

microplots



10+

**R&D
centers**



10+

**R&D
consortia**

Fully integrated value chain

**CAMELINA
VARIETIES**



**PLANTING
SEED**



**CONTRACT
FARMING**



**HARVEST
PROCESSING**



**MARKETS
INNOVATION**



Biomaterials



Animal Nutrition

SUSTAINABILITY

TRACEABILITY

QUALITY



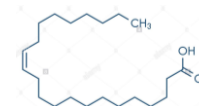
Cycle



Yield



Oil content



Others

PROTOCOL OPTIMIZATION

Sowing density
Sowing date
Machinery
Fertilization
Herbicides
Disease
Lodging
Shattering
Crop rotation
No tilling
Marginal land

**+5.000
MICROPLOTS**

**+10
RESEARCH
STATIONS**



High planting seed quality



Contract
farming



CCE planting seed
Technical support

Camelina oil



	RED II	Camelina Fallow periods	
Intermediate crops	<i>Catch & cover crops are exempt of the cap</i>	✓	
Low ILUC risk	<i>Improved agricultural practices</i>	✓	<i>High ILUC risk will be phased out to 0% by 2030</i>
GHG	<i>Soil Carbon Stock Bonus for production on degraded land?</i>	60 % – 120%	

Biojetfuel experience



2012 – 2016

FP7 European Commission
1st Biojet flagship project






2018 – 2021

H2020 European Commission
2nd Biojet flagship project

Camelina meal



High quality animal feed

	Rapeseed	Camelina	Soy
Protein	32%	40%	47%
Amino acids	++	++	+++
Color			

Camelina meal is the vegetable raw material locally produced in Spain with highest protein content



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