

The Real Green Deal

Hana Gabrielová

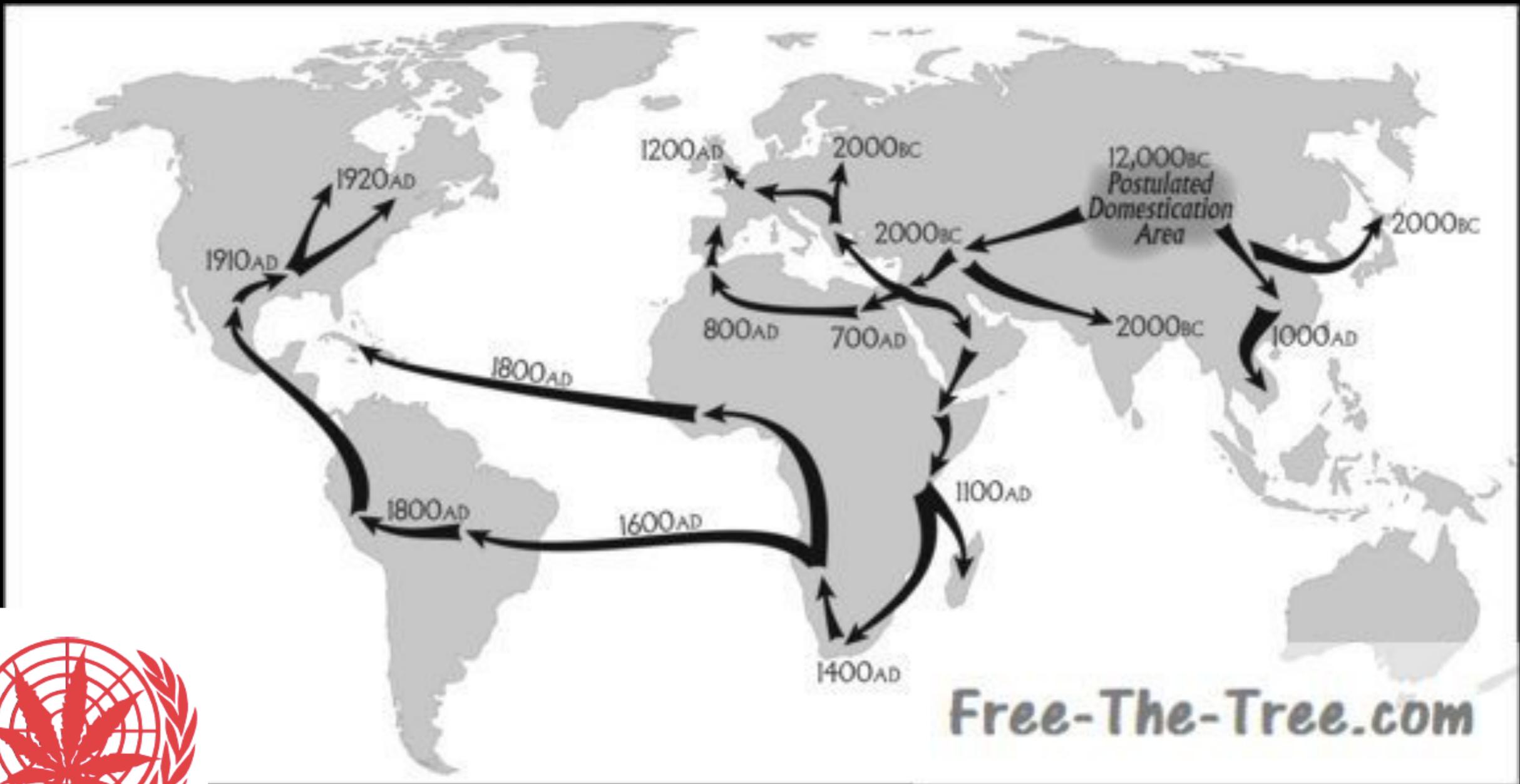
CzechHemp



Hana's Intro

- Graduated with thesis - Industrial hemp use in Czech Republic in 1999
- 2010 Founded Hempoint company
- Consultant for hemp producers and manufactures
- UN lobbyist for Cannabis and Sustainable development
- President of CzechHemp

Cannabis, a plant that has grown with Man Kind



1961 Single convention

Cannabis scheduled as **dangerous** drug without medicinal value

Hemp industry reborn

80's France first 0,2% THC hemp
automobile and building industry



PLANTS

Plant variety database - European Commission

European Commission > Food Safety > Plants > Plant variety catalogues & databases > Plant variety database - European Commission > Agricultural plant species

HEALTH FOOD ANIMALS **PLANTS**

Follow us on

75 hemp varieties - third party registration

- monoecious / dioecious
- bred for **seeds** / **fibre**
- OECD registered
- < 0,2 %THC

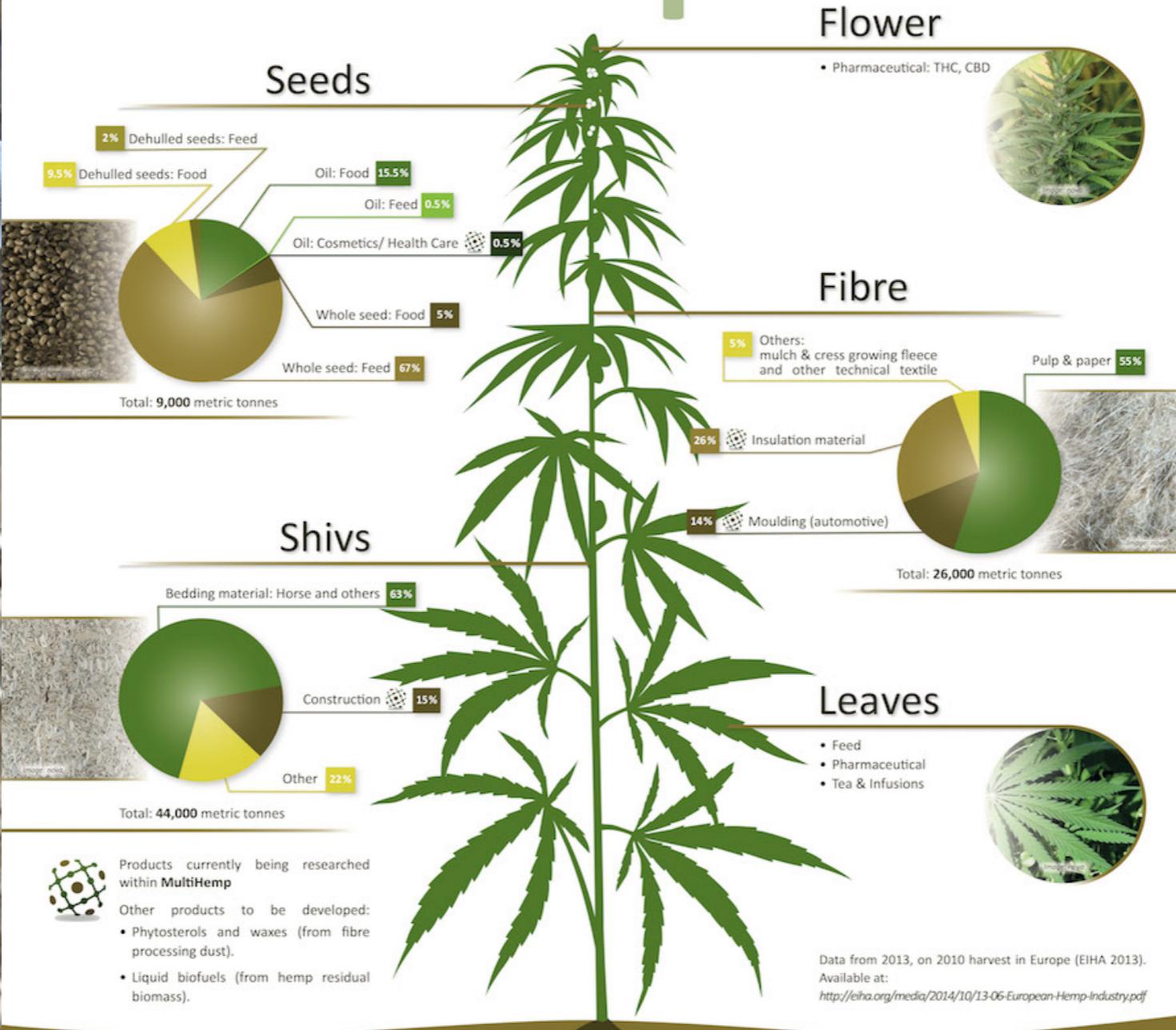
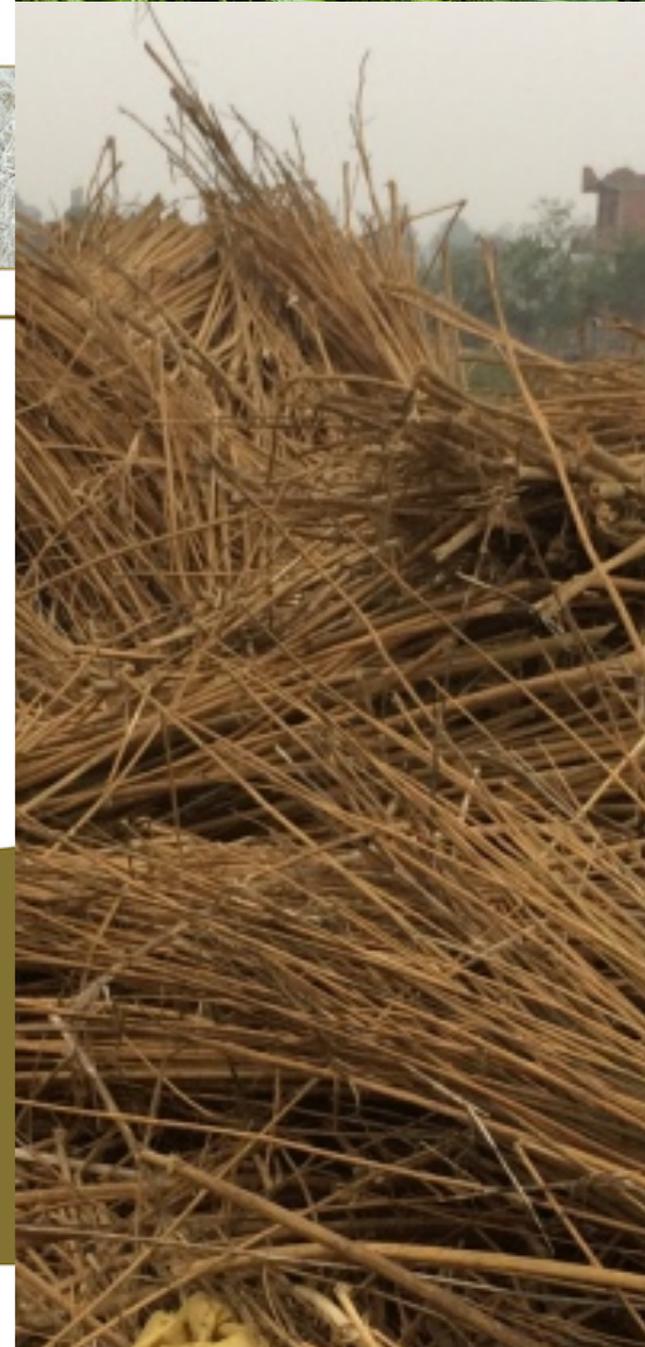
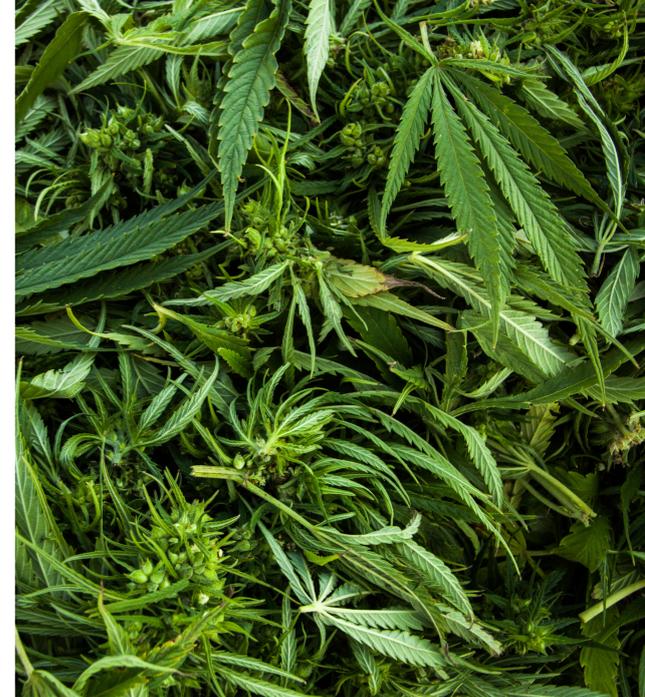




Czech Hemp Cluster

- established May 2018 / DanuBioValNet project
- main idea: *„To boost the cooperation and know-how of the Czech hemp and medical cannabis industry.“*
- Organisations including Farmers, Education, Research & Development, Producers, NGO's
- *„To improve the production and processing chain & bring the new technology for bioeconomy that leads to the mass usage of hemp as the renewable source.“*

A natural biorefinery Hemp



MultiHemp

The MultiHemp project aims at developing hemp genotypes with enhanced traits suitable for diverse cultivation environments and to provide improved feedstock for a wide array of innovative end products generated within an integrated biorefinery. For more information, see <http://www.multihemp.eu>.

The MultiHemp project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement No 311849.



Roots

Revitalise soil with nutrients.
Provide aeration of soils.



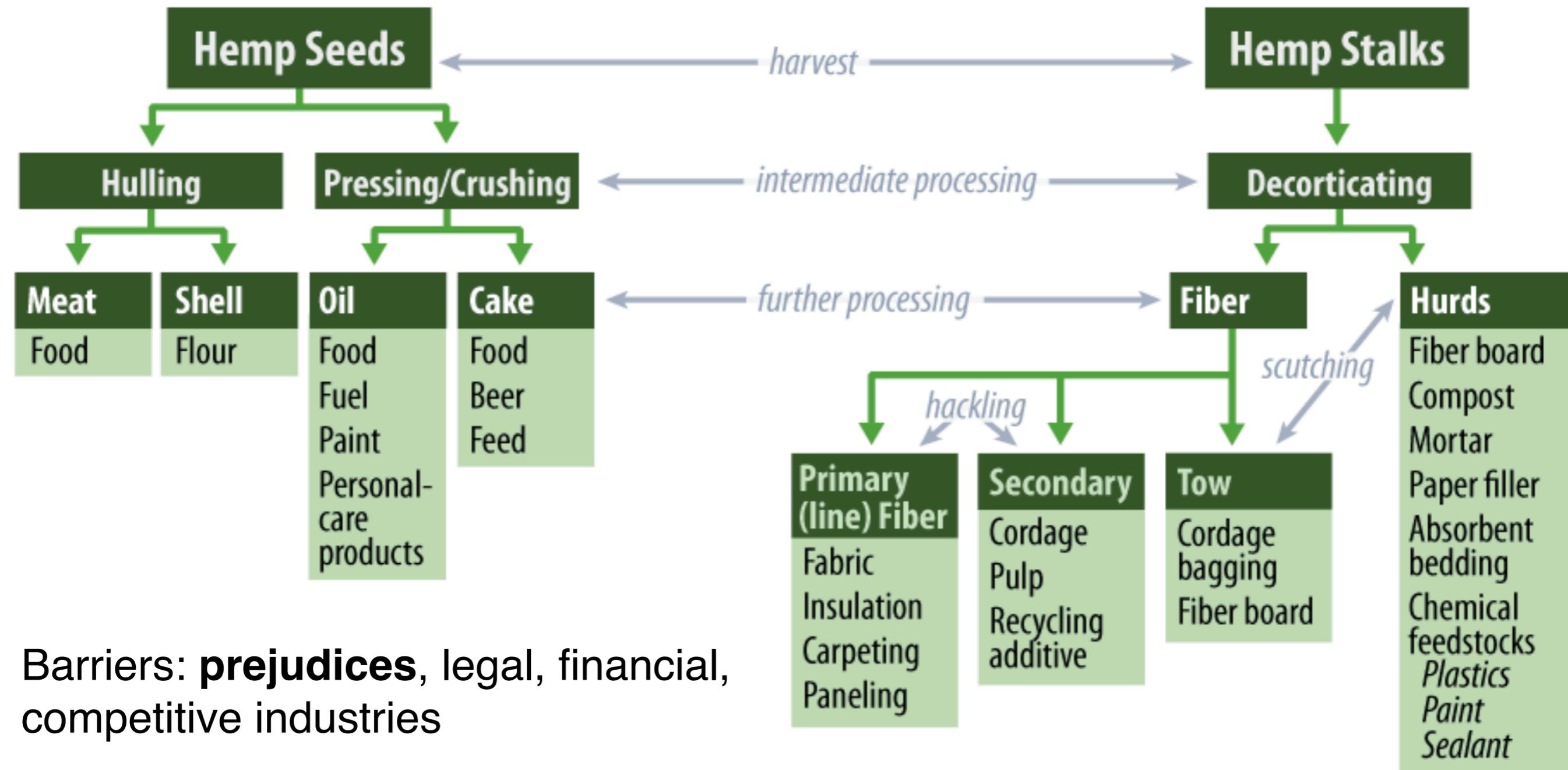
FIBRA

The main target of the FIBRA project is to link the research activities carried out in both the European Union and China on natural fibre crops, to provide a long term vision on future common research activities on fibre crops and to improve researchers' training opportunities. For more information, see <http://www.fibrarf7.net>.

The FIBRA project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement No. 311965.



Hemp sustainable and responsible value chain



Barriers: **prejudices**, legal, financial, competitive industries

Source: CRS, adapted from D. G. Kraenzel et al., "Industrial Hemp as an Alternative Crop in North Dakota," AER-402, North Dakota State University, July 23, 1998.



International developments

- critical review document done by WHO on cannabis, UN Single Convention on Narcotic Drugs of 1961
- HIA, EIHA cooperation
- FAAAT lobby
- KOPAC / CZ
- ASTM standards



CANNABIS & SUSTAINABLE DEVELOPMENT

Paving the way for the next decade in
Cannabis and hemp policy

FAAAT EDITIONS

Hemp industry homework

- ✓ Production guidelines and quality control
- ✓ Taxonomy and nomenclature
- ✓ Build customer trust

STANDARDS

- ✓ Insurance for investors
- ✓ Stability for market
- ✓ Tool for regulators

Advisory for farmers

MultiCombine HC 3400



Hanffarm DE

Hempflax NL

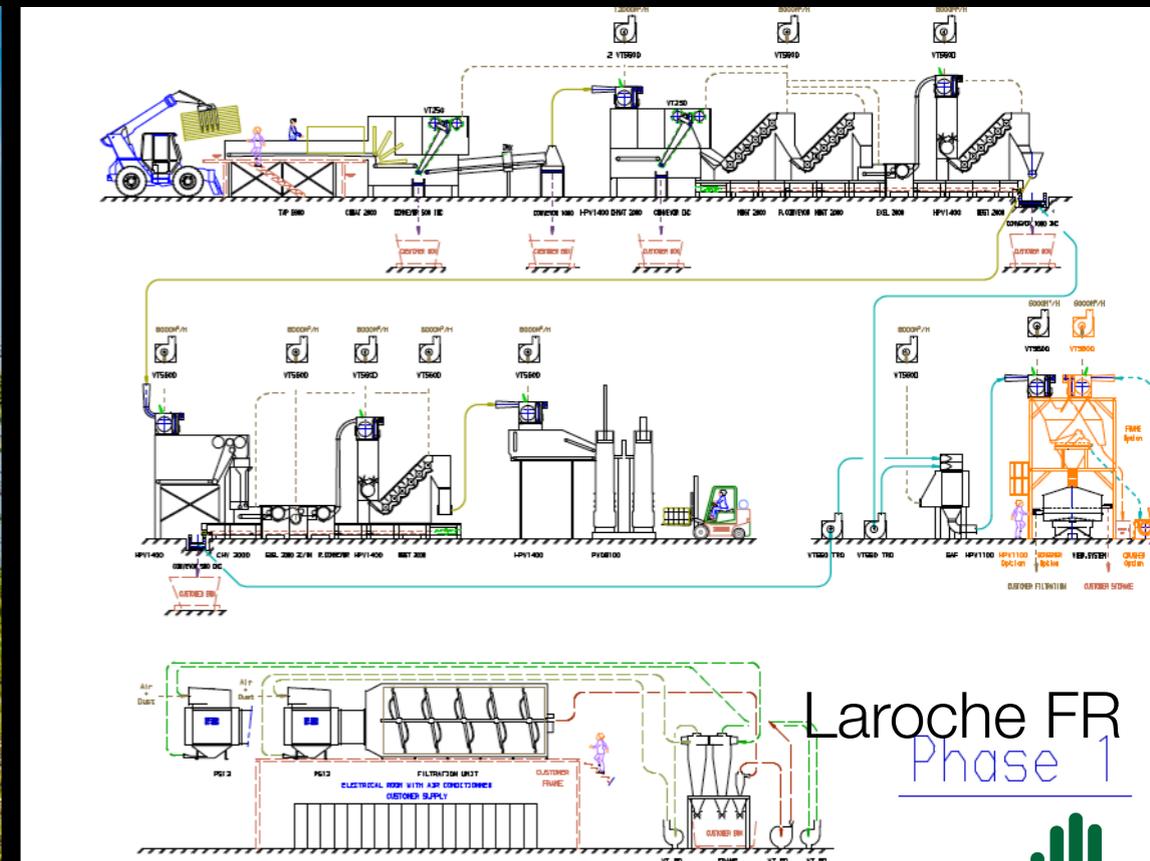


John Deere W660 combine MY16 DoubleCut Chopper

Claas Xerion 4000



Dunagro NL



Laroche FR
Phase 1



Green deal

New EU policy for protecting and restoring natural ecosystems



Essential services

Food

Fresh water

Clean air and soil

Shelter



Value chain transition to:

- ✓ **Renewable** biological resources
- ✓ Climate neutral and **circular** products
- ✓ New **local value** from waste and **biomass**
- ✓ **Sustainable** innovations and landscape management

Bio-economy

Organic & Hemp

- ✓ Helps biodiversity
- ✓ Soil Improvement / protection against erosion
- ✓ Phytoremediation
- ✓ Carbon sequestration
- ✓ Less reliance on pesticides and herbicides
- ✓ Manages well organic fertilisers

hempthecclimate.com



Project for:

- Soil regeneration - regenerative farming principles
- CO2 sequestration - healthy soil for carbon storage
- Hemp materials and industrial applications

Sustainable standards

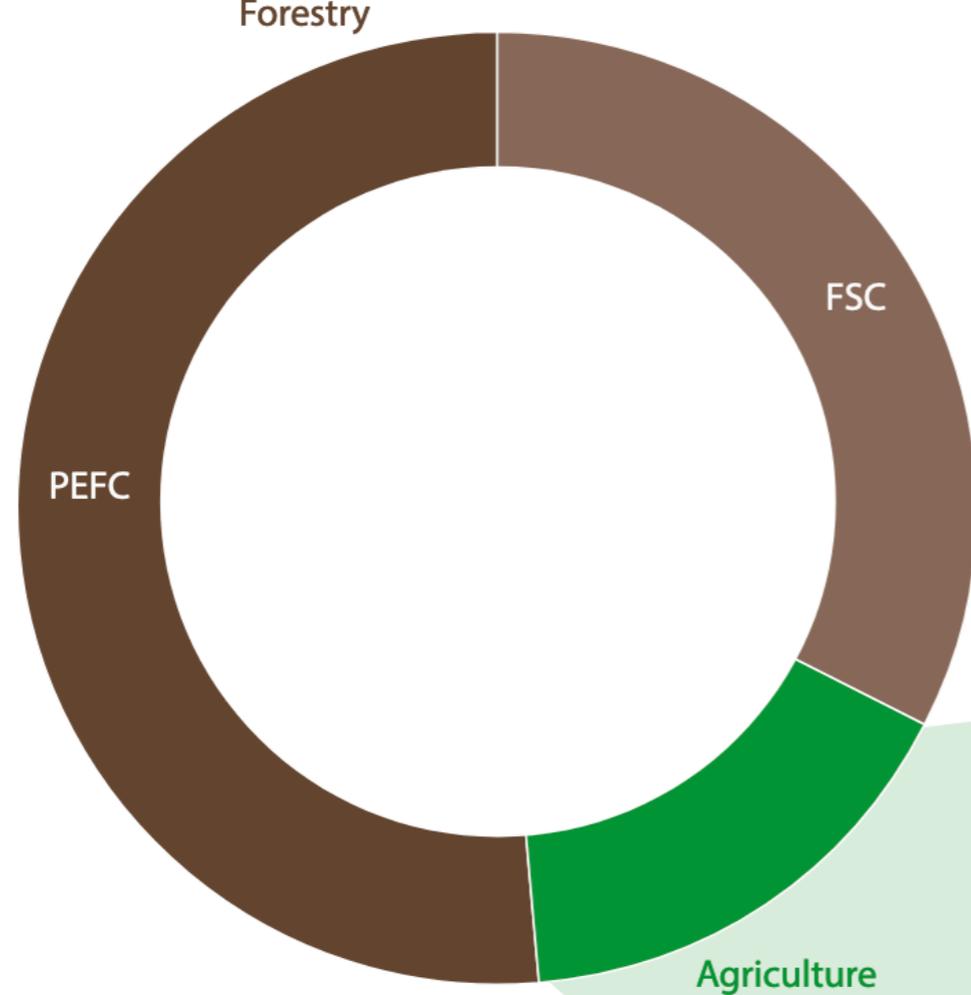
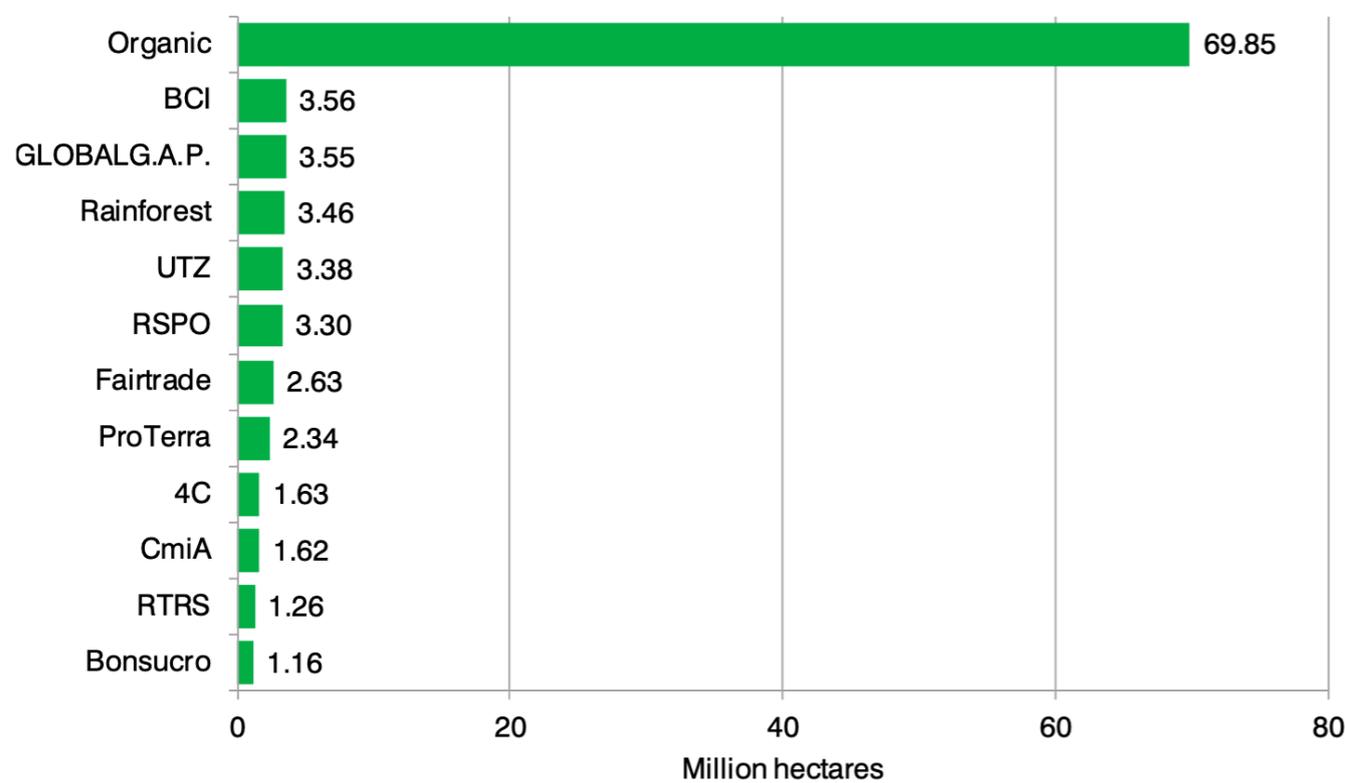


Figure 2: Certified area by standard, 2017



<https://www.intracen.org/uploadedFiles/intracenorg/Content/Publications/Sustainable%20markets%202019%20web.pdf>
The State of Sustainable Markets 2019 - International Trade Centre

Sources: FiBL-ITC-SSI survey, 2019; 4C Services, 2019; Better Cotton Initiative (BCI), 2019; Bonsucro 2019; Cotton made in Africa (CmiA), 2019; Fairtrade International, 2019; GLOBALG.A.P., 2019; FiBL survey, 2019; ProTerra Foundation, 2019; Rainforest Alliance, 2019; Roundtable on Sustainable Palm Oil (RSPO), 2019; Round Table on Responsible Soy (RTRS), Textile Exchange 2019; 2019; UTZ 2019.



Mobilisation of the industry sectors



> textile

> building



> electronic

> plastic



Local Multi-Sectoral Approach

- ✓ Identification of key hemp actors and the **mapping of hemp industry** strengths in the regions;
- ✓ Facilitation of establishment **hemp hubs** and their mobilisation for internationalisation;
- ✓ Interconnection of hemp organisations for cross-country and cross-sectoral sharing and collaboration.

Essential tools for changes



Carbon offset program



Life cycle assessment for hemp value chain



Innovative **infrastructure** for hemp materials



Re-skilling and up-skilling for **new jobs**





SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY 	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES 	11 SUSTAINABLE CITIES AND COMMUNITIES 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS 	 SUSTAINABLE DEVELOPMENT GOALS

Words to live by

Hemp is a traditional agricultural crop and is used to produce renewable materials for multiple industrial purposes to be applied in innovative technologies and processes for the bio-economy.

Hemp contributes to food security, soil cleaning, carbon sequestration, and promotes overall biodiversity which, together with many other social and environmental benefits, makes it an important tool to meet the Sustainable Development Goals and Agenda 2030.

By replacing common products with hemp alternatives, scientists believe we will be able to move towards a more sustainable mode of production and consumption and it is now considered an ideal crop to produce innovative biomaterials.

Hemp has a potential to diversify the agricultural sector, to empower local economies and act as an agent of ecosystem restoration and soil regeneration.

Děkuji | Thank You



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