

HOW TO SUPPORT HEMP DEVELOPMENT IN EUROPE

EIHA – june 2018

Cultiver la performance



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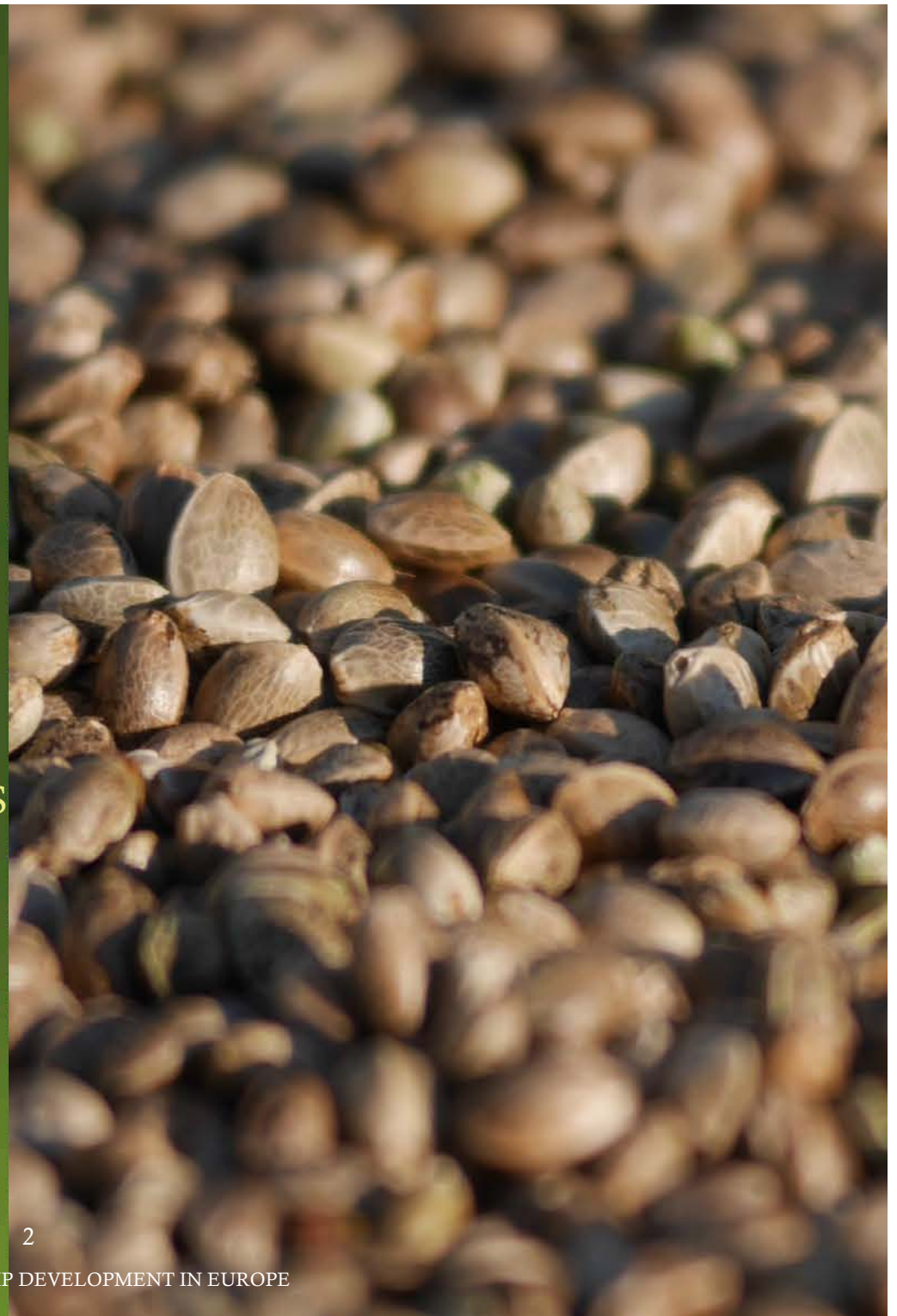


IT HAS BEGUN WITH A SEED

PART 1 :
A NEW COOPERATIVE FOR NEW MARKETS

PART 2 :
VARIETAL INNOVATION AS A LEVER FOR
COMPETITIVENESS

PART 3
A NEW DEPARTMENT FOR NEWS ISSUES



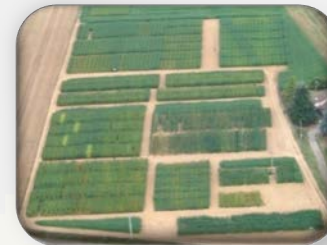
Organisation before 2018

French Hemp Seed Growers

**CCPSC : Hemp Seed
Producer & Seller**



**FNPC : FRENCH HEMP
BREEDER**



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FNPC : Breeder since 70 years !

- Created in 1932
- Starts breeding during the 50's in collaboration with INRA
- FNPC has always been involved only on hemp
- Narrow links with CCPSC since the beginning :
 - ✓ FNPC = breeder
 - ✓ CCPSC = seed producer

IT APPEARS AS AN EVIDENCE THAT BREEDING AND SEED PRODUCTION GATHERED...



BEFORE HEMP IT

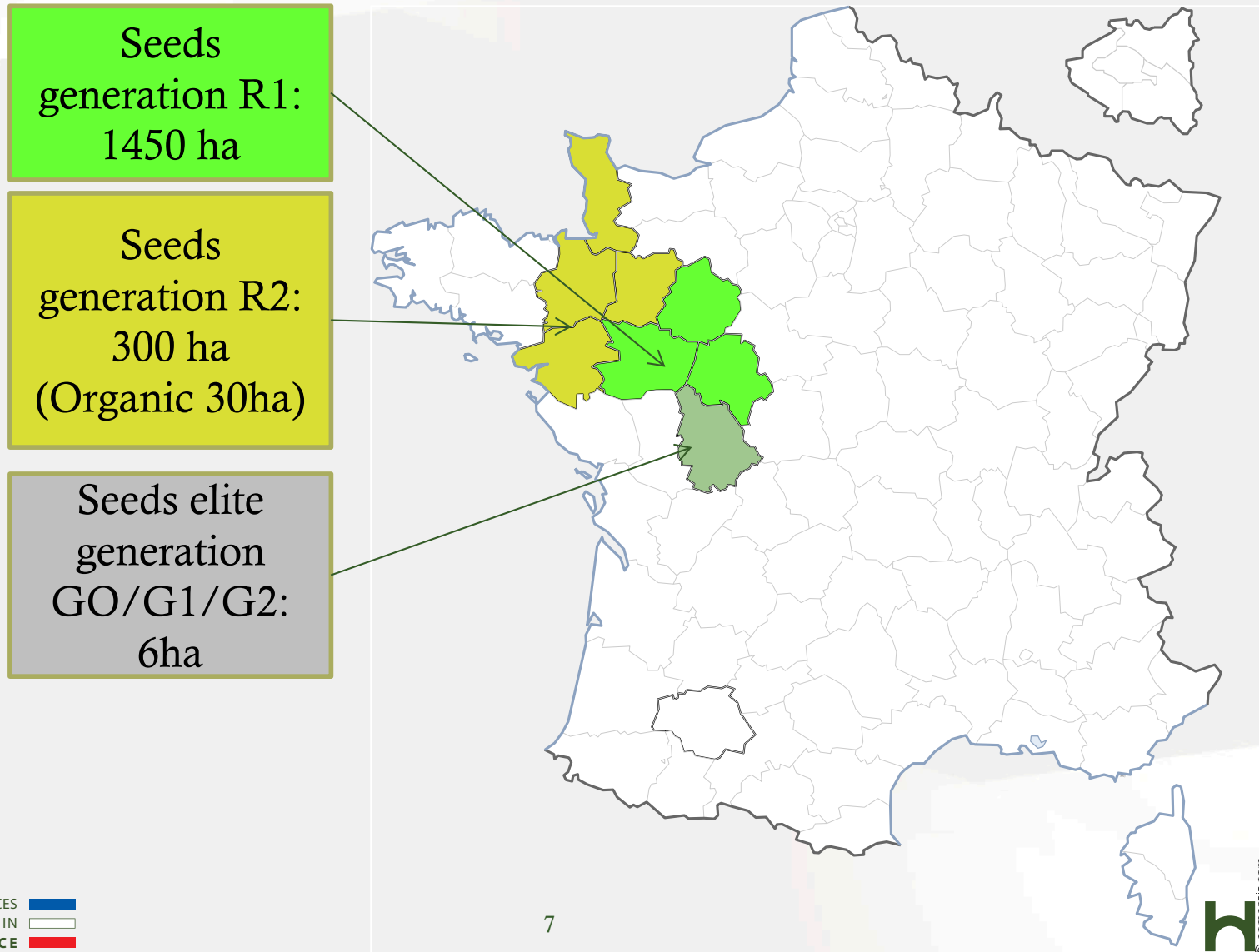
- Farmer's syndicate (1932) located in Beaufort en Vallée on 500m²
- CUMA (Union of farmers for mechanisation) (1970) hempseeds and fiber
- CCPSC :
 - 1965: Creation of CCPSC, only for selling hempseeds from CUMA
 - 1977: CCPSC bought the hemp factory and transferred workers from CUMA

NOW: HEMP IT

- New seed quality laboratory
- HEMP IT is buying a new 4 ha site in order to build a hemp building joining R&D and breeding facilities and the production and packaging process factory

- 145 Hempseed producers on 1750 ha
- More than 500 fields
- 22 persons controlling the male plants roguing
- 12 combine harvester (Case, Lexion)
- 280m² dryers, for 50 ha by day
- 600 tons cold storage (2°C)

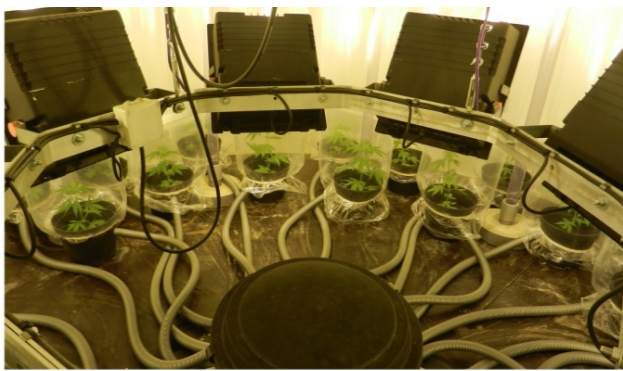
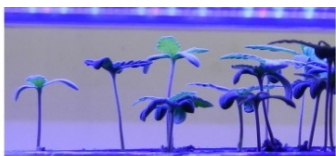
THE AREA OF PRODUCTION



THE FRENCH HEMP SEEDS COMPANY : A COOPERATIVE OF FARMERS



The members of the Board
of HEMP it



Varietal innovation
as a lever for
competitiveness !!



THE AIM OF OUR BREEDING PROGRAMS

FROM MULTI-PURPOSE VARIETIES TO HIGH POTENTIAL SPECIALIZED VARIETIES

AN ANSWER TO MARKET REQUESTS

- From multi-purpose varieties that often perform moderately in each market...
- ...To high potential specialized varieties :
 - Fibers
 - Seeds
 - Biomass
 - ...



-Our partners :

iteipmai



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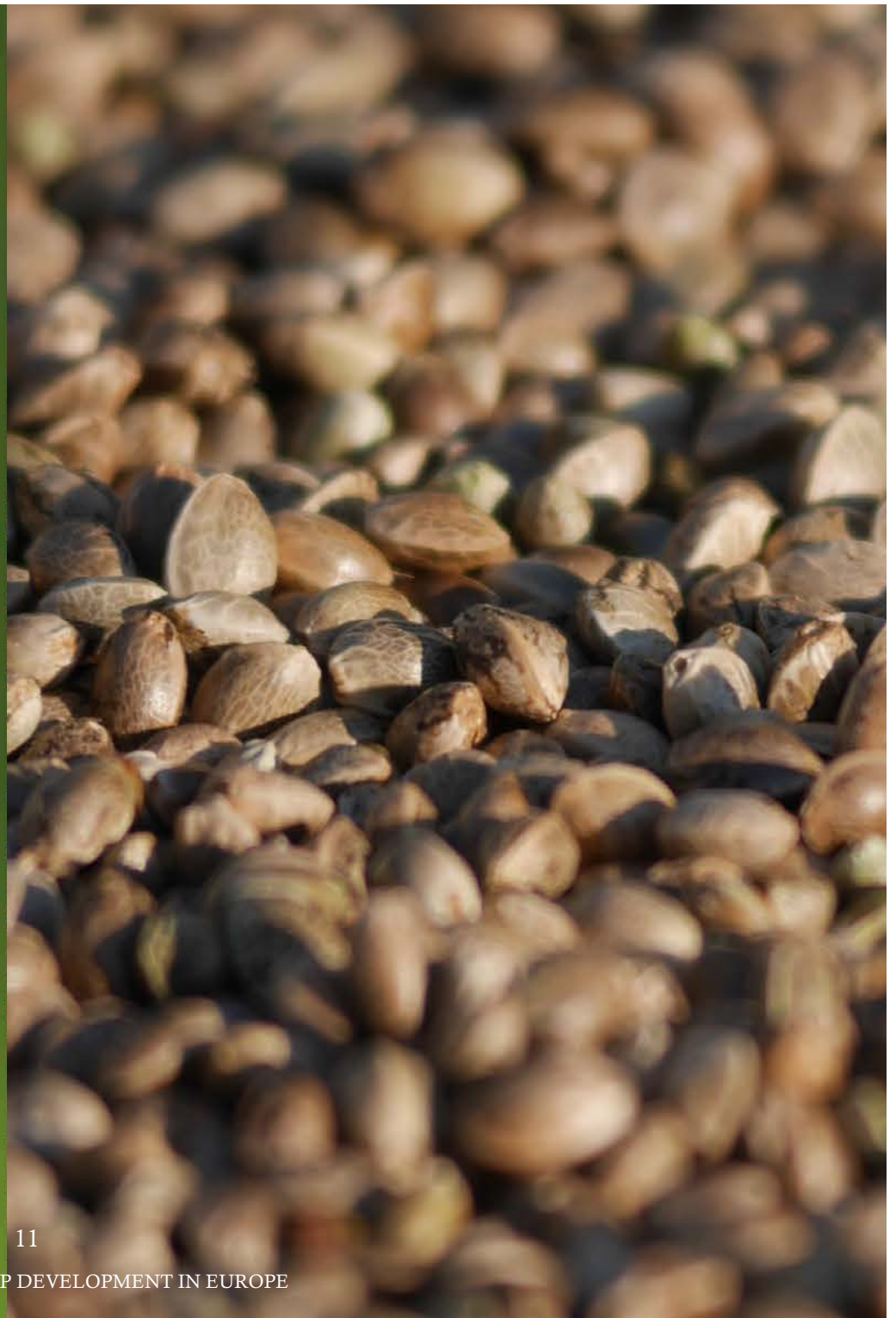
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HOW TO SUPPORT HEMP DEVELOPMENT IN EUROPE

HEMP*it* 
Créateur de semences
chanvre industriel

CATALOG OF VARIETIES

INDUSTRIAL VARIETIES



INDUSTRIAL VARIETIES



PLASTICITY

Suitable for various purposes depending on the latitude of cultivation:

- Straw market (unthreshed crop) for the more northern latitudes,
- Mixed market of straw + seeds (threshed crop) for intermediate latitudes,
- Seeds market for southern latitudes.



INDUSTRIAL VARIETIES

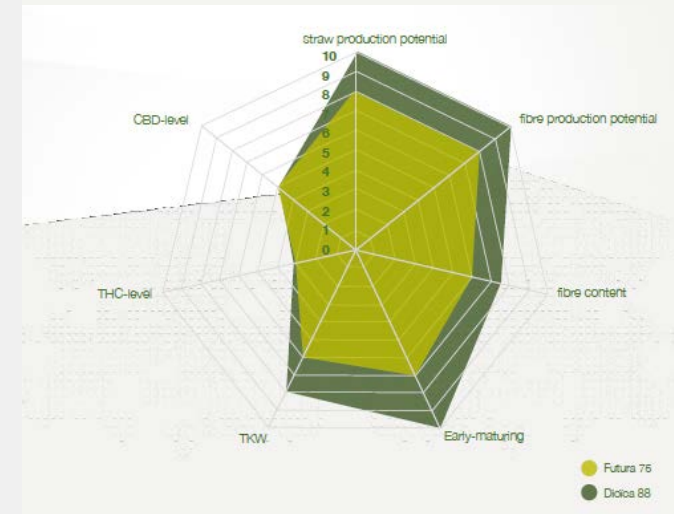
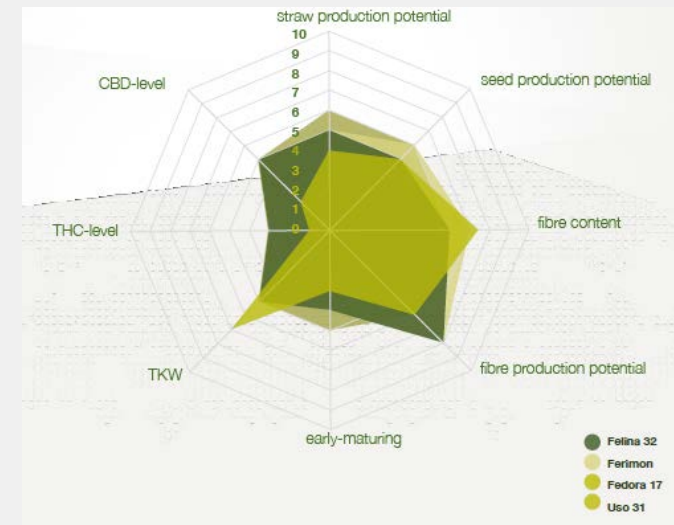


PLASTICITY

Suitable for various purposes depending on the latitude of cultivation.
Example : Féline 32



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CATALOG OF VARIETIES

PREMIUM VARIETIES

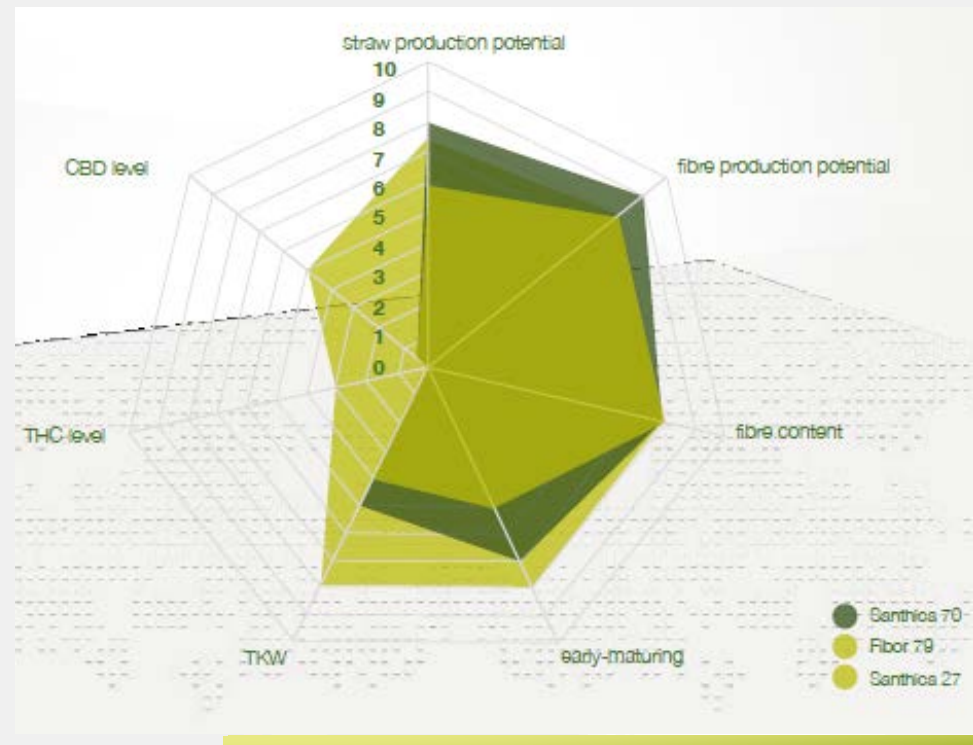


PREMIUM VARIETIES



SPECIFICITY

- Developed for specific used
- For fiber markets
- High potential
- Farming recommendations to express the potential (sowing density, harvesting period...)








CATALOG OF VARIETIES

UPCOMING VARIETIES



UPCOMING VARIETIES



EARLINA 8 FC	<i>Hemp n°1**</i>	<i>Hemp n°2**</i>	<i>Hemp n°3**</i>	<i>Hemp n°4**</i>
-Grain market only -Very early, monoecious	-Tolerant to broomrape -Medium earliness -Mixed use ou grain	-Tolerant to broomrape -Late -Straw market	-Very late -For southern regions or for biomass use	-Premium fiber variety -Very high fiber content -Late
Registered on UE catalog	2 nd year of registration field testing	2 nd year of registration field testing	2 nd year of registration field testing	1 st year of registration field testing
Commercial  seeds available in 2019*	Commercial  seeds available in 2020*	Commercial  seeds available in 2020*	Commercial  seeds available in 2020*	Commercial  seeds available in 2021*

*date likely to be postponed, depending on legislation and registration

**commercial name will be released when registration is acted



A NEW DEPARTMENT: THE R&D LAB

WHY AND WHERE



A NEW DEPARTMENT FOR HEMP IT : WHY A R&D LAB

THE R&D LAB FOR FUTURE CHALLENGES

- New emerging markets requiring breeding improvements:

Quality and quantity of fibers for textile and bio-based materials markets

Quality and quantity of seeds for agribusiness

- Plant breeders and seed producers competitors:

Staying leader in Europe and growing on global markets

- A Research and Development lab with new biotechnologies and breeding methods to refine and increase current and future breeding programs

A NEW DEPARTMENT FOR HEMP IT : WHERE is the R&D LAB

THE R&D LAB AT THE HEART OF THE GREEN CAMPUS

The National Engineering School of Plant Breeding

The first higher school on agricultural science with:

1500 students

270 engineers / year

100 PhD and 150 teachers



A NEW DEPARTMENT FOR HEMP IT : WHERE is the R&D LAB

THE R&D LAB AT THE HEART OF THE GREEN CAMPUS

INRA of Angers & Nantes

- 5 research topics which 3 linked to HEMP IT activities:
 - Seeds quality
 - Quantitative genetic
 - Biopolymers in the bio-based materials and food
- 3 technical platforms shared between public and private researchers :
 - Sequencing and genotyping tools
 - Phenotyping tools
 - Imaging tools
- 310 researchers, 123 PhD



A NEW DEPARTMENT FOR HEMP IT : WHERE is the R&D LAB

THE R&D LAB AT THE HEART OF THE GREEN CAMPUS

The cluster VEGEPOLYS

An association to increase the competitiveness of private companies:

Network of 400 member companies to build partnerships with french and foreign companies in the plant field

Funding assistance to set up projects

110 collaborative projects between public and private companies created in 2018



A NEW DEPARTMENT FOR HEMP IT : WHERE is the R&D LAB

ANGERS AREA, A UNIQUE CONCENTRATION OF ACTIVITIES AROUND AGRICULTURE AND HORTICULTURE



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A NEW DEPARTMENT FOR HEMP IT : WHERE is the R&D LAB



RECORDED WITH
SCREENCAST  MATIC

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chanvre industriel

It will ever all begin with a seed !



*No idea works unless you have the
courage to do the job, as idea without
execution is delusion !*

**THANK YOU FOR
YOUR ATTENTION**

YOUR EVERYDAY CONTACTS

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