Samsung Quad Camera Fotat med Galaxy A52 5G

WEBINAR: INDUSTRIAL HEMP AND NETTLES IN TEXTILE



Webinar: Industrial hemp and Nettles in Textile

Datum: 2022-11-10

Tid:10:00-12:00

Plats: Zoom

On the 10th of November at 10:00-12:00 the University of Borås and Science Park Borås invites you to a webinar about industrial hemp and nettles, and processes related to those bast fibres.

Speakers:

- Cultivation of Industrial hemp Clara Norell, Svensk Hampaindustri
- Processing industrial hemp into textile May Kahoush, The Swedish School of Textiles
- Bio-based residual streams with potential in the technical textile industry Nawar Kadi,
 The Swedish School of Textiles
- Textile from Nettles is that possible? Anette Johansson, Sällskapet Nellorna
- Nettles for smartness conducting research Nils-Krister Persson, The Swedish School of Textiles/Smart Textiles

Moderator: Linda Nydén, Science Park Borås Zoom-link: https://hb-se.zoom.us/j/67074482407

The webinar is a part of the research project <u>"Bio-based residual streams with potential in the technical textile industry"</u> at the University of Borås. Participants from and outside of University of Borås are welcome to join, no registration necessasary.

For more information, please contact Linda Nydén: linda.nyden@hb.se

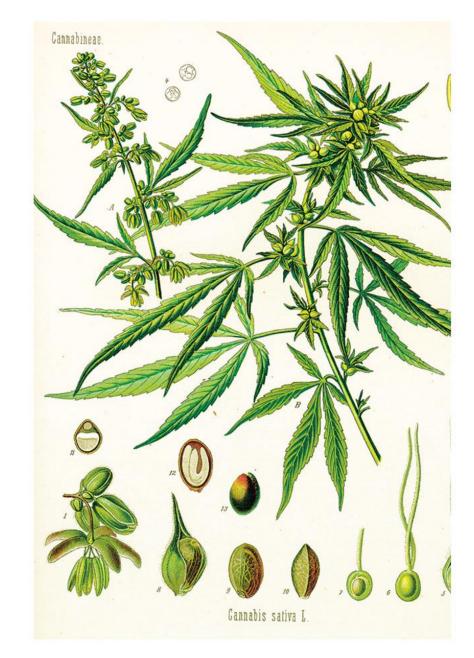








To know where you are going you must know your History







The Evolution of Cannabis Definitions

Mid-1700s

Households across the globe cultivate European *Cannabis*, often in small plots near their homes, for fiber. Seeds are used to replant the following year, as well as for food, animal feed, medicine and oil.

1753

Carl von Linné (otherwise known as Carl Linnaeus) defines *Cannabis sativa*, meaning cultivated *Cannabis*.

1785

After East Indian *Cannabis* arrives to Europe, French botanist Jean-Baptiste Lamarck names the Indian varieties *Cannabis indica*, meaning "hemp from India." That definition draws the initial taxonomic boundary between hemp and drug *Cannabis*.

1800s

Active ingredients derived from *C. indica* become increasingly important for their medicinal and psychoactive effects.

Late 1900s

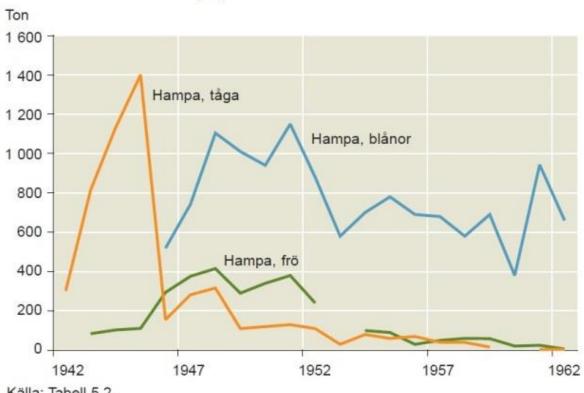
European definition of "hemp" takes on a more commercial orientation to describe *Cannabis* cultivars grown to produce stalks, fibers or seeds that are characterized by low THC content.

2018

The 2018 Farm Bill defines "hemp" as any *Cannabis* containing less than 0.3% THC, regardless of its end use.

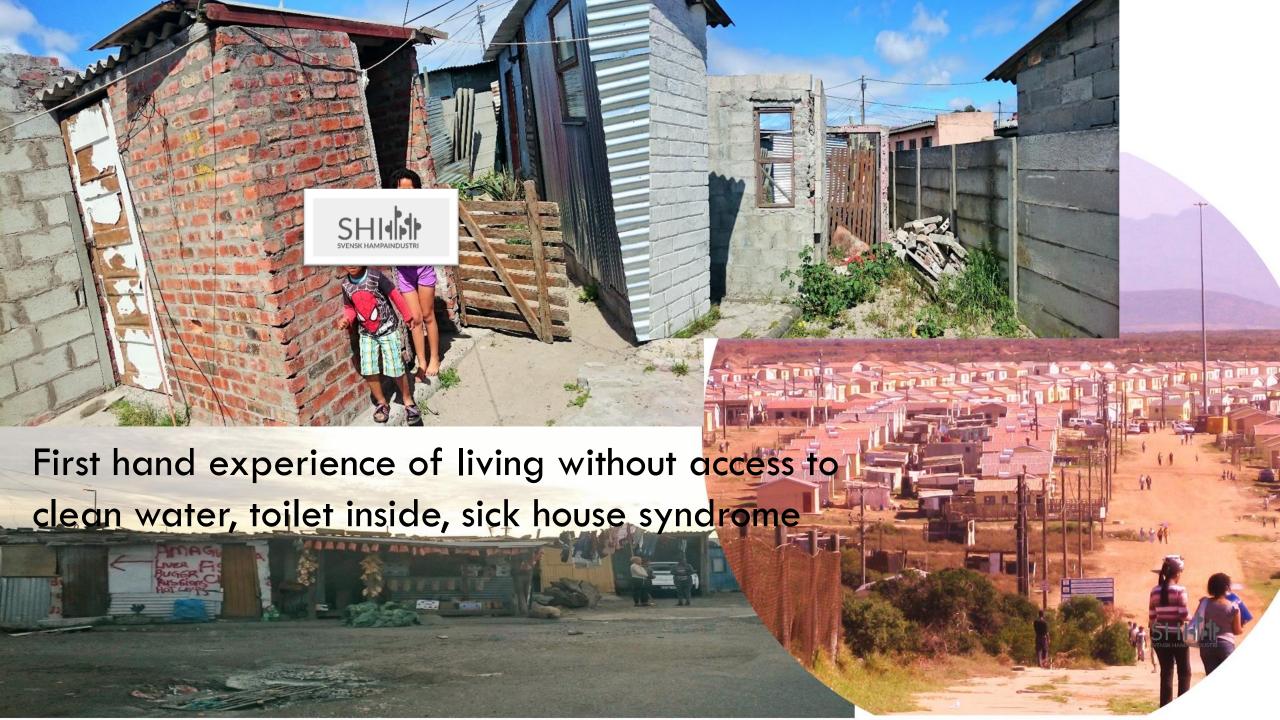
HEMP CULTIVATION IN SWEDEN 1942 — 1962 1966 END OF ECONOMICAL SUPPORT TO FARMERS BANNED 1995 - 2003

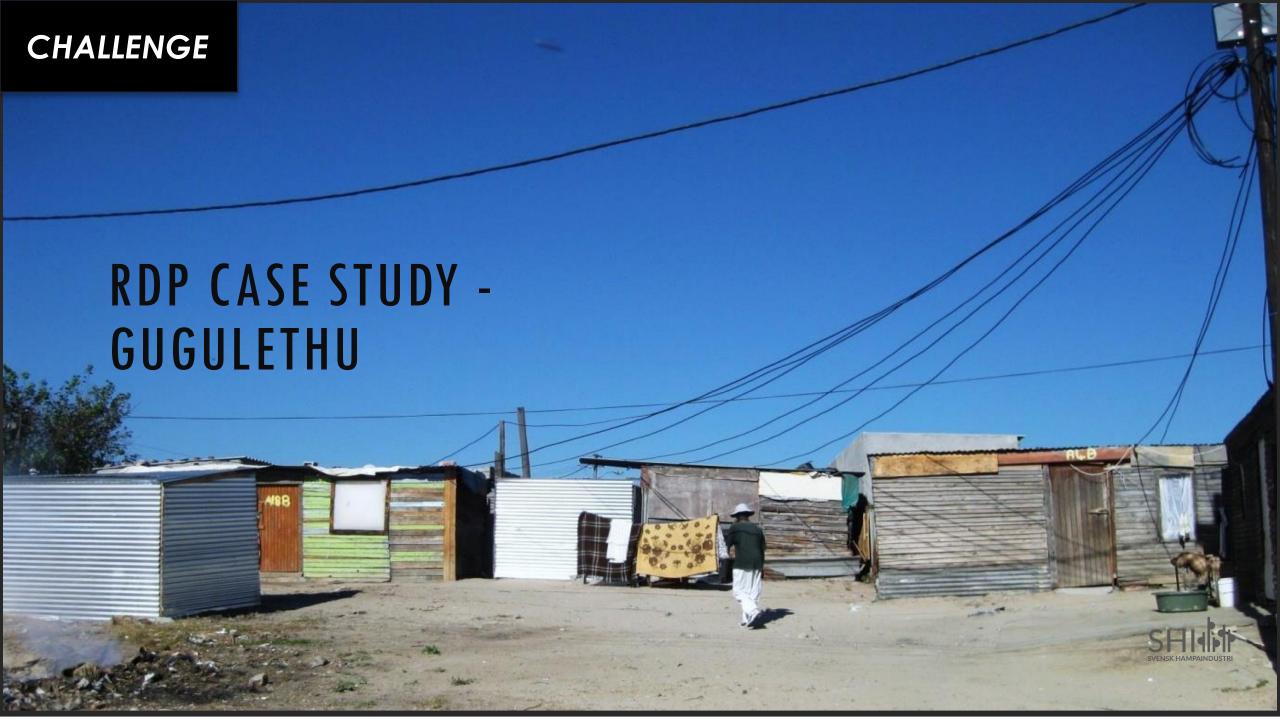
Figur 5 Z Totalskörd av hampa, riket 1942-1962



Källa: Tabell 5.2.







Climate changes



CHALLENGE

'Mamela! Many will be forced from their homes! People will continue to move to survive, which will create even more instability over large areas"



- housing
- water
- energy
- sewage









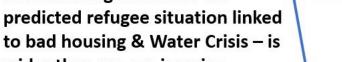












wider than we can imagine.











Hemp fabric fibre is so easy to grow, so soft and attractive and so loaded with excellent natural properties that it seems almost customdesigned to provide our planet with an incredibly versatile, sustainable material.

Hemp fabric provides all the softness of a natural textile but with a strength that is an amazing 3 times higher than cotton - making it uniquely hard-wearing and long-lasting. 100% hemp fabric has an attractive natural finish and can also be mixed with cotton or silk to

produce a wide variety of different weights and types of fabric

Tony Budden, Hemporium





Hemp House, Nordhooek, Cape Town

- Hempcrete is sustainable
- Hemprete is mouse- and termite resistant
- Hempcrete is fire proof
- Hempcrete creates jobs
- Hempcrete requires low skilled labour where language & writing skills are a nonrequirement.
- Hemp stores cole
- Hempcrete is CO2-negative
- Hempcrete regulates temperature and humidity







13 CLIMATE ACTION





































2019 AWARDED ENVIRONMENTAL FUND OF SKÅNE COUNTY









, Svensk hampaelit träffades i Smedstorp

Den svenska hampapeliten har i två dagar samlats på Orient i Smedstorp för konferens. Syftet har varit att sprida kunskap om den mångsidiga växtens möjligheter vidare, men också att flytta fram industrihampans positioner på nationell mark.



Anders Hall, proje B2 visningar - főr 2 år sede



Xpress Yourself!

Anders Hall, projektischer (







Training Certificate

The Nordic Hemp Building School in collaboration with École Nationale Du Chanvre hereby certifies

Clara Cecilia Norell

has successfully completed:

« Introduction and implementation of building with hempcrete »

On the 24th, 25th & 26th of August 2020, including 24 hours of training

presented by Remy Chorda & Max Scholtes



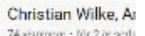
Thomas Jacobsso

100 varietys: - for 2 är sed



Xpress Yourself!

Thomas Jaeobsson, Lanth









SHI — SVENSK HAMPAINDUSTRI AB

- STARTUP-company for a sustainable, circular, bio-based, plant-based, CO2-neutral future. Cultivating, harvesting, refining, promoting & selling EU-certified industrial hemp B2B towards food industry. Cultivated free of pesticides. Minimal irrigation.
- Residual waste streams become R&D for bio-based dreams.
- Business model founded on the tech/processing machines integrated under one roof.
- Intention is to be one of the leading players in the growing hemp market. Transparent, professional, traceable, plan(e)t-lovers
- We want to contribute to reintroduce an agricultural crop and industrial plant, for a sustainable agriculture and increased yield for Swedish agriculture while contributing different industries with positive social, economical and environmental benefits.
- Globally, we act as consultants in the USA, Germany
- South Africa: Board Member Cheeba Academy, online & practical course, hemps tours

SHI FINANCED BY

FOODTECH INNOVATION NETWORK











Work Group Member: Fibre & textile

SHI part of these Member Based Networks





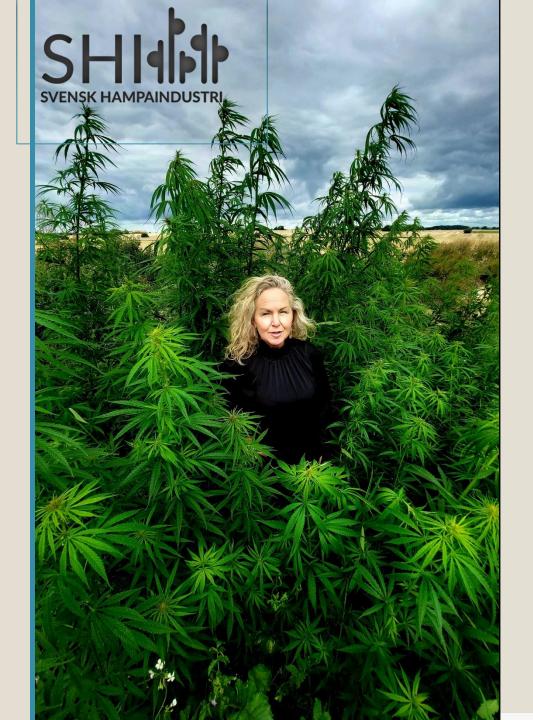


Fibre & Textile: 2021 focus

- +15 Fibre/textile experts from Universities and Research Centers;
- +50 textile and fibre members and 3 Working Group meetings;
- Hemp supply chain paper;
- Hemp fibre standard paper;
- Contacts with press;
- Starting promotion of hemp fibre in textile industry;
- Starting a hemp catalogue and communication material;
- A link with Fashion world, Textile associations and the EU Com.







SWEDISH CULTIVATION OF EU-CERTIFIED INDUSTRIAL HEMP SEEDS FOR SWEDEN'S FOOD INDUSTRY

RESIDUAL STREAMS FOR BIO-BASED DREAMS

We are positioned to support the market in a way that no one else operates in Sweden today.

As an enabler, a "to-go-to company" for those farms as well as market segments that work to change to a sustainable plant-based, bio-based, fossil-free and circular industry.









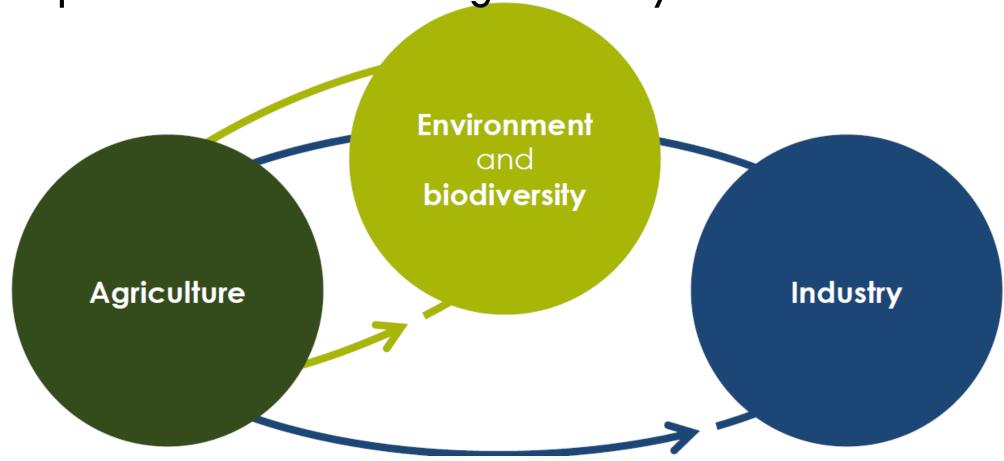






RECONCILE ECONOMY & ENVIRONMENT

Hemp – for a life Affirming economy











Bio-based residual streams with potential in the technical textile industry

Reference number 2021-03719

Coordinator Högskolan i Borås

Funding from Vinnova SEK 4 000 000

Project duration November 2021 - October 2024

Status Ongoing

Venture <u>Circular and biobased economy</u>

Call Increased resource efficiency for a circular industry

Purpose and goal

In this project, we want at an early stage to combine the technical textile industry's need for new climate-smart and resource-efficient materials with applied research on how to make better use of residual flows from the food industry. Finola is an industrial hemp variety that is mainly used to get seeds and oil for food. After seed harvesting, hemp stalks are left in the field or discarded. The need for sustainable circular bio-based materials in technical textiles will increase as society becomes more fossil-independent, where residues from the hemp industry can play an important role

Expected results and effects

Effects and results from this project are expected to strengthen Swedish innovation and contribute to global climate benefits, knowledge and methods for sustainably extracting textile fibers from hemp's waste residues. The obtained fibers will be used to manufacture textile nonwoven structures that will be used in various technical applications. The project will also help to increase skills throughout the supply chain from farmers to textile manufacturers, which will strengthen the ability to move towards a circular economy.

Planned approach and implementation

The project will be organized in five work packages, in addition to project management and communication the project will optimize and evaluate the extraction of textile fibers and the manufacture of textile structures. The project will also assess possible value-added applications according to the needs of the market and the industrial parties. The results will be communicated in relevant context such as conferences, publications and similar.







Eco-Friendly Natural Products | April 14, 2022

Hemp vs. Cotton Clothing

HEMP

Requires virtually NO PESTICIDES or chemical fertilizers to grow



Accounts for 25% of ALL GLOBAL agricultural chemicals used

8 BillionTrees

Hemp produces
TWICE AS MUCH
FABRIC per acre as
cotton does



Cotton requires TWICE AS MUCH LAND to grow as hemp does Hemp needs 2,300L of water to produce 1kg of fibers



Cotton needs
10,000L of water
to produce
1kg of fibers

Hemp CLEANS THE SOIL AROUND IT, making it a great rotation crop



Water from cotton farms enters the ecosystem and chemicals HARM THE SOIL Hemp fabric is THREE TIMES MORE DURABLE than cotton

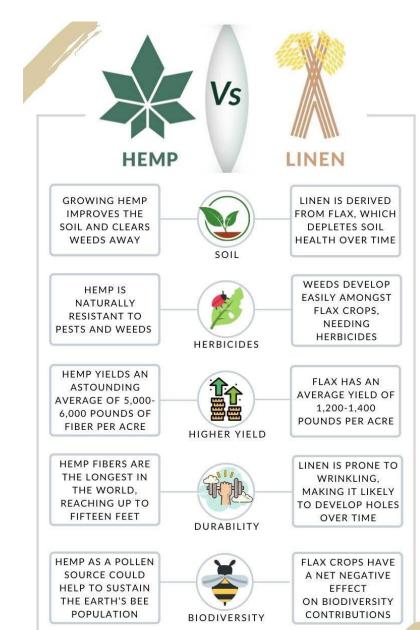


Cotton fabric is THREE TIMES LESS DURABLE than hemp

COTTON

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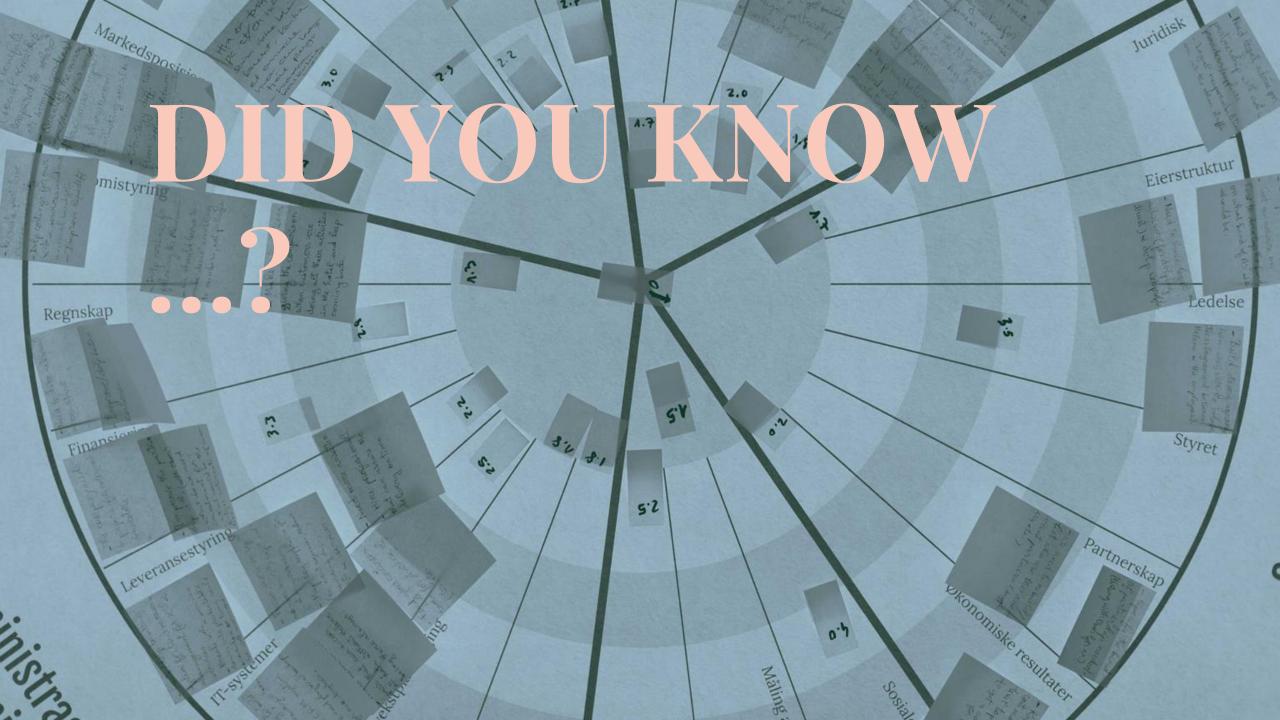


SOURCES
WWW.RODALEINSTITUTE.ORG
WWW.FLAXCOUNCIL.CA
WWW.HORT.PURDUE.EDU
WWW.NEWFRONTIERDATA.COM
WWW.INTERNATIONALHEMPASSOCIATION.ORG
WWW.CFDA.COM









CLIMATE

Hållbarhet, CO2-

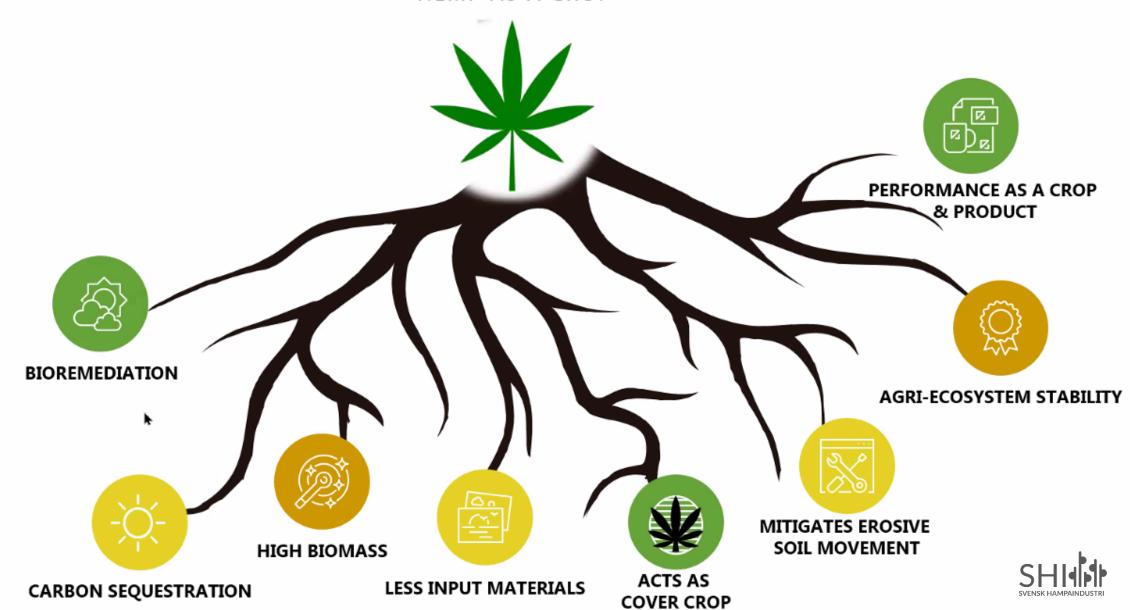
Up to 15 metric tonnes absorbed per hectar

INDUSTRIAL
HEMP AS A TOOL
TO COMBAT THE
EFFECTS OF
CLIMATE
CHANGE



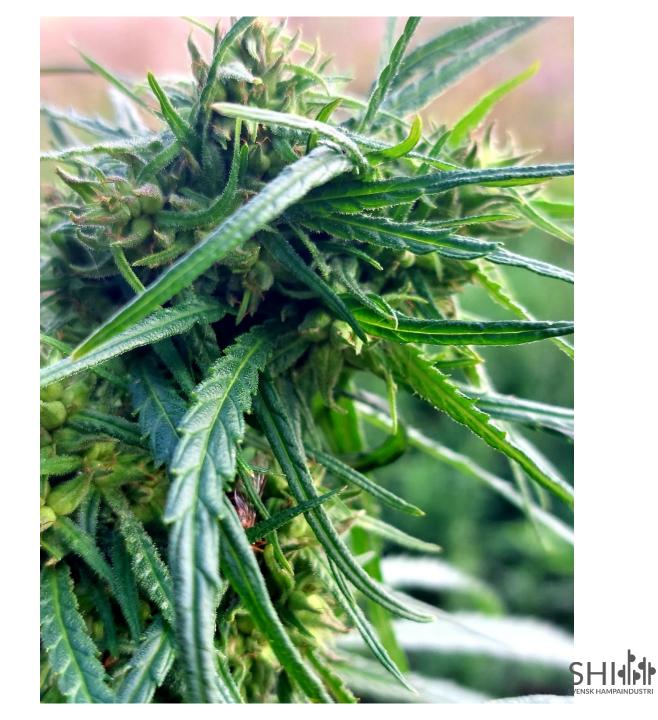
AGRICULTURAL PERSPECTIVE

HEMP AS A CROP



THE RIGHT CROP

- -A rotational crop capable of most of the EU's regions and soils
- ZERO% pesticides are added regardless of conventional or organic cultivation
- little or no addition of water, PPS
- a source of pollen during periods of lack of flora
- reduces water loss and soil erosion
- - can be used for phytoremediation
- increases biological diversity
- beneficial effects on succeeding crops





FINOLA

Oilseed Hemp – "Food-Hemp"

Finish genetics

EU certified industrial hemp

High in CBD & CBG

< 0,2% THC

1.80 meter tall

Diameter 1 cm

Strong fiber

Short fiber -

Shives for building industry, animal bedding

Pole root, Long strong roots

No irrigation

No pesticides

No weeds

No need for certain machines for harvest = regular ag-tech/combine works great





VARIETIES OF HEMP BASED ON PURPOSE

	Hemp for Fiber	Hemp for Grain/Seed	Hemp for CBD
Planting time	Early May to early June	Mid-May to mid-June	Mid-June. Greenhouse-only systems may plant year-round.
Harvest time	Around the time of pollination, generally 45-70 days after planting; mid-July to early August.	At maturity, generally 100-120 days after planting; mid September to mid-October.	Female plants grown to near maturity, mid-September to mid-October in fields; greenhouse harvests vary.
Harvest method	Mower (sickle or disc mower) and a hay baler (round or large square)	Regular combine	Plants are cut by hand and removed from the field.
Post-harvest handling	Left to field dry to 15% moisture, then baled.	Clean before storage in a grain bin, where forced air dries the crop.	After drying, flowers and some leaf materials are removed from stalks, packaged and sent to processor for oil extraction.
Other comments	From 10 to 18 feet tall (3.0m - 5,5m)	5-7 feet tall (1.5m - 2.0m)	6 to 12 feet tall. (1.8m – 3.6m) Only the female plants are used



	1			ı			1		I		
Hemp Cultivation											
Soil sand		sand	nd		organic		låg lerhalt mest sand		1		
irrigation ja		a			Watered two times		1				
standardbevo	attning 2	20 - 25 n	ml Not more for sand				Sand can no	t sustain w	vater f	or long	
	<u> </u>										
Fertilizer											
gödsel											
					•						
35 metric		u.t.									
tonnes											
	flytgöd	dsel pig									
	maneur		Clarified to use for organic farming								
100											
Nitrogen	Nitrogo totally		Per ha								
		60 kilo nitrogen fron			om fertrilizer						
	30 -40	30 -40 kilo kväve from the pre-plant									



















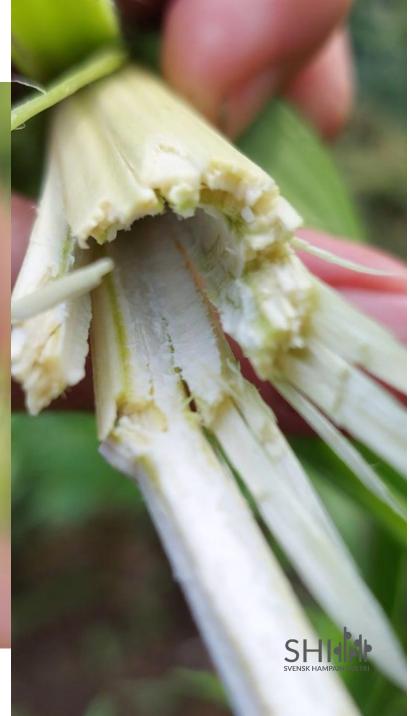


TALLER FIBRE HEMP 3 — 4 METER **VERY STRONG ROOT SYSTEM ALMOST** IMPOSSIBLE TO PULL UP BY HAND













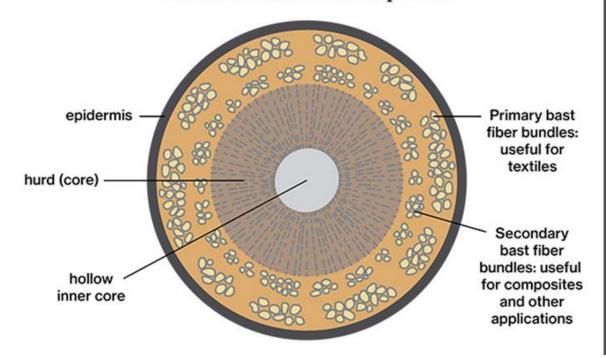






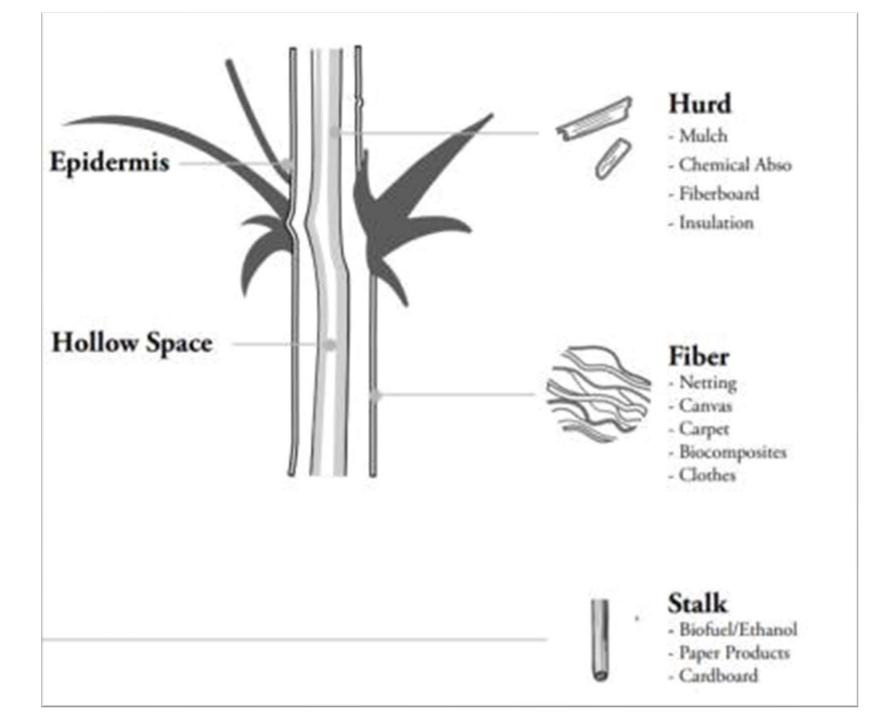
Hemp Fiber

An inside look at a hemp stalk





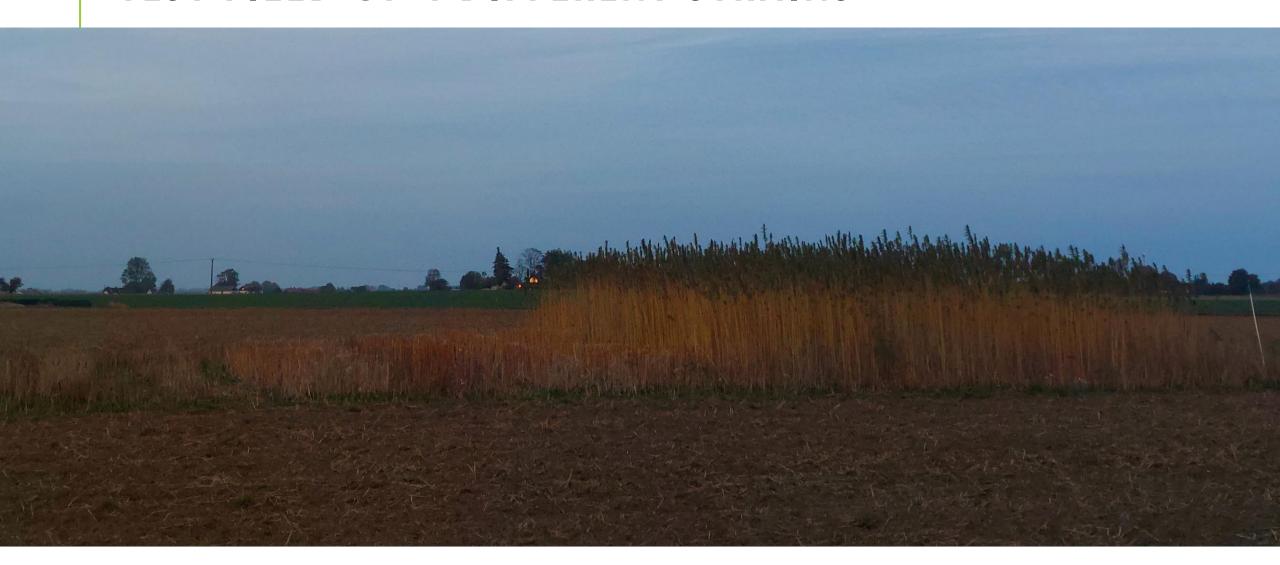








TEST FIELD OF 4 DIFFERENT STRAINS



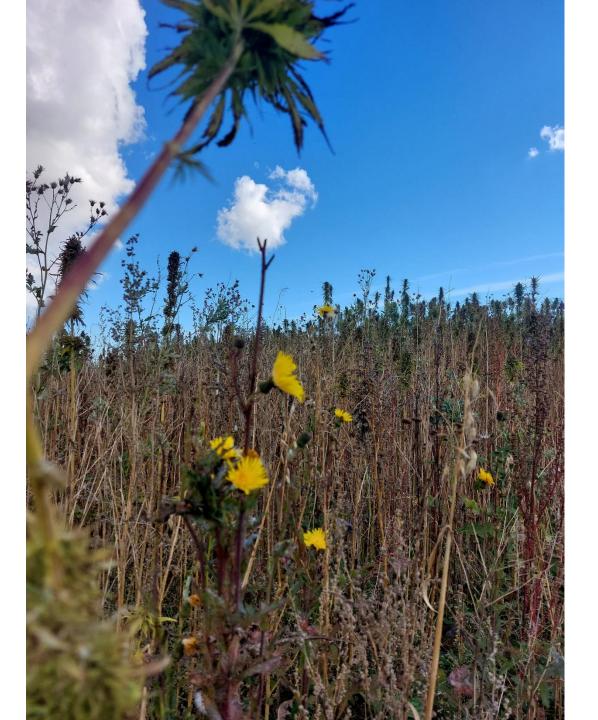
HEMP SHIPMENT TEMPLATE BIO-BASED RESIDUAL STREAMS WITH POTENTIAL IN THE TECHNICAL TEXTILE INDUSTRY -PROJECT NO. 155156

FINOLA & EARLINA 8FC, SHI & HUSHÅLLNINGSSÄLLSKAPET

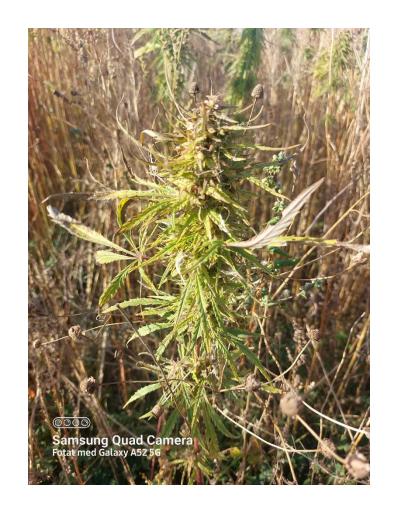








FINOLA — TOO MUCH WEED — NOT CORRECTLY PLANTED



FINOLA

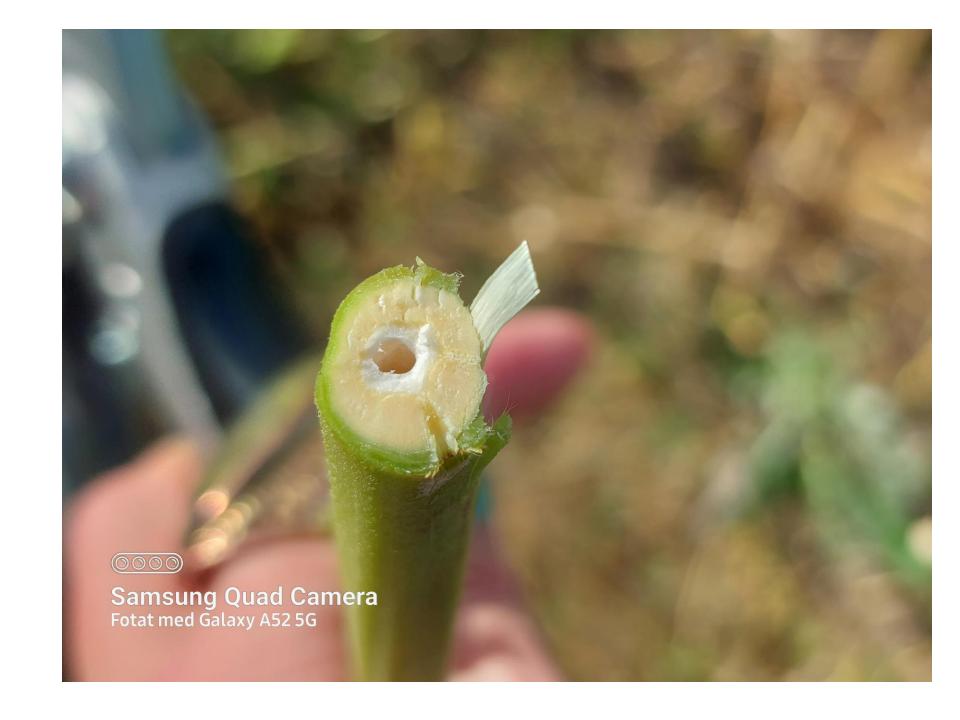
LEFT: MATURE FOR SEED HARVEST

RIGHT: MATURE FOR FLOWER HARVEST





FINOLA





FINOLA—
RESIDUAL STEM
AFTER SEED
HARVEST.
HEIGHT CA 30—50
CM

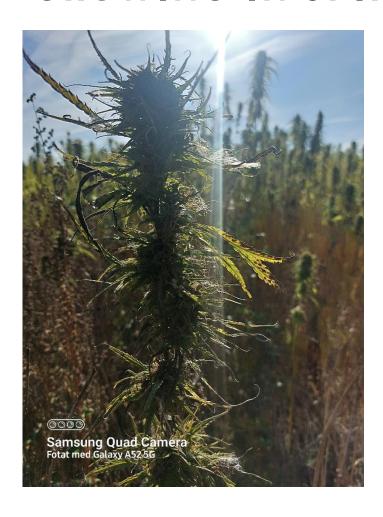
IN BACKGROUND: EARLINA 8FC SANTHICA 27



EARLINA 8FC

Earlina 8 FC is a variety exclusively bred for seed production in geographical situations in Northern Europe. Its very short growing cycle is perfectly adapted to late-spring and early-autumn weather conditions.

GROWING IN SPIRAL LIKE STRUCTURES





EARLINA 8FC,

RED STEM IRREGULAR HEIGHT STRONG SCENT OF LEMON



SANDBY GÅRD

We cut the stem with a knife beam in the front of the tractor

Model Gaspardo 230.

Then collected by hand and dried on seed dryer which blowed hot air on stems ca 6 days

GREAT COLLABORATION WITH HUSHÅLLNINGSSÄLLSKAPET I SKÅNE,



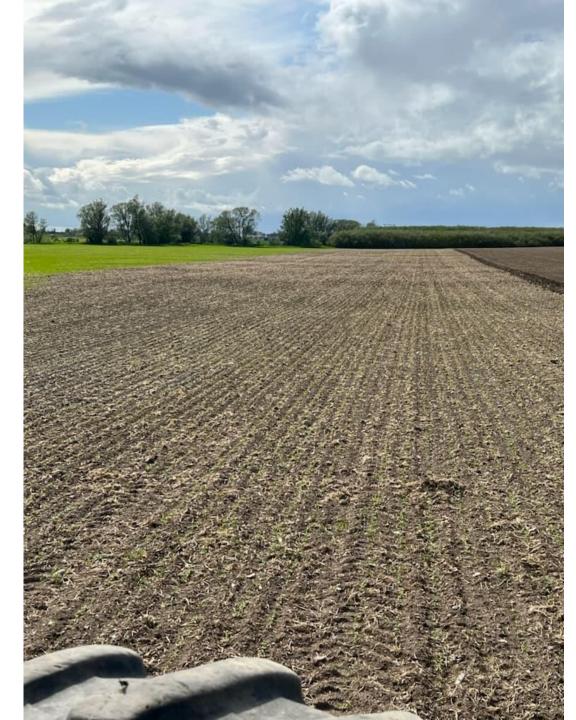
HEMP SHIPMENT TEMPLATE BIO-BASED RESIDUAL STREAMS WITH POTENTIAL IN TH TECHNICAL TEXTI INDUSTRY -PROJECT NO. 155156

FINOLA

SHI & BISKOPHAGENS ODLINGAR











FINOLA SEED — TOO MUCH GREEN SEEDS. TOO EARLY HARVEST

RESIDUAL WASTE STREAMS AFTER SEED HARVEST

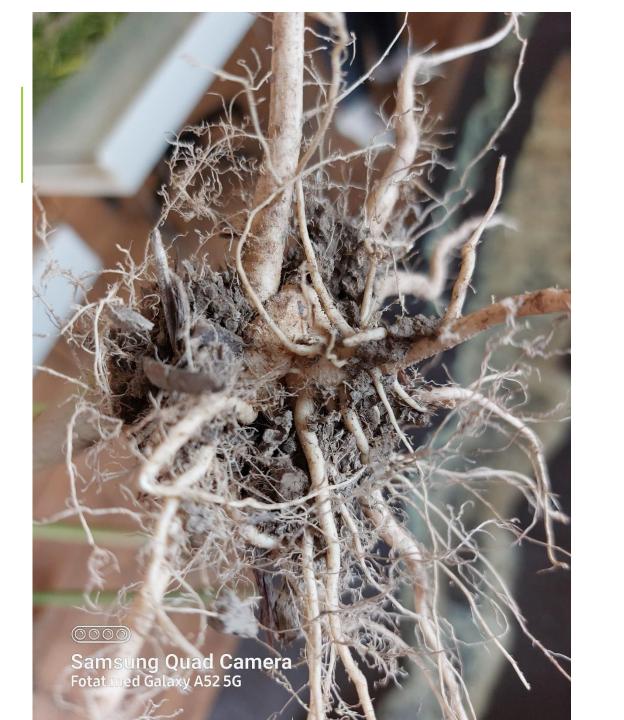


MANUALLY COLLECTED STEMS AFTER 7 DAYS OF RAIN. MUDDY WET FIELD.











COLLABORATION WITH OTHER SWEDISH HEMP FARMERS

l Hampalövs sortiment finns därför både teer, buljong, snacks, smör, smoothies, knäckebröd och proteinbars. Bland annat. Man kan använda skalade eller oskalade hampafrön. Av de oskalade blir det t ex smör, de skalade används i müsli, smoothies eller på gröten.

Liga gör också mjölksyrade grönsaker som säljs i Reko-ringar i länet tillsammans med sortimentet av hampaprodukter.



Liga Appelgren i hampafältet.

FINOLA



FINOLA



FINOLA



Hållbara Hampainnovationer - Från svinn till vinn

Diarienummer 2021-03570

Koordinator Mäteria Technologies AB

Bidrag från Vinnova

2 995 766 kronor

Projektets löptid november 2021 - oktober 2023

Status Pågående

Utlysning <u>Framtidens mat</u>

Ansökningsomgång Frami

<u>Framtidens goda och hållbara vardagsmat - Innc svensk förädling av växtbaserade råvaror</u>

Syfte och mål

Många agrikulturella restströmmar innehåller högvärdigt protein som idag inte utnyttjas till sin fulla potential. En sådan restström är hampfrökaka som erhålls vid produktion av hampafröolja. Projektets syfte är att tillvarata och uppgradera hampafrökaka genom att med olika extraktionsmetoder få ut, rena och karaktärisera proteinerna på ett kostnadseffektivt sätt samtidigt som förutsättningarna för fiberfasen undersöks. Målsättningen är att använda proteinerna i nya innovativa, hållbara och lokalproducerade livsmedelsprodukter med fokus på kött- och mejerianaloger.

Förväntade effekter och resultat

Genom ett ökat utnyttjande av hampfrökaka minskas produktionssvinnet samtidigt som det öppnar upp för nya närproducerade proteinråvaror med bra kvalité, vilket efterfrågas från dagens livsmedelsproducenter. Detta genererar i sin tur nya innovativa produkter med mindre klimatpåverkan och ett hållbarare resursutnyttjande. En ökad efterfrågan på hampaprotein gynnar även jordbruket, då hampa har positiva effekter på jordmånen med hög kolinlagring och lågt vattenbehov samtidigt som den kan odlas även längre upp i Sverige. Projektet kan även generera nya affärsmöjligheter.

Planerat upplägg och genomförande



Projektet är uppdelat i olika arbetspaket som bygger på varandra. Inom de olika arbetspaketen kommer olika hampafraktioner, extraktionsmetoder och behandlingar av proteinsedimentet att

Hållbara Hampainnovationer - Från svinn till vinn

Hampa kan användas inom fler olika industrier och traditionellt har stammen används inom material och textilindustrin för tillverkning av till exempel hamparep, textiler och isoleringsmaterial, där hampfröna då blir en restprodukt.

Hampfrö och dess presskaka innehåller:

- . Kostfiber, och nyttiga fettsyror vilket ger bra Omega 3 och Omega 6 balans i oljan.
- · Högt proteininnehåll >40% (dubbelt så högt som i kött)
- · Mycket bra proteinkvalité, så kallad aminosyraprofil









Hampfrön



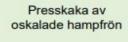
Hampfiber



Skal från

hampfrön

Skalade hampfrön



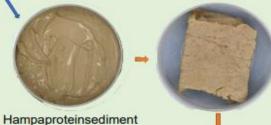
Hampfröolja

Presskaka av

skalade hampfrön









Malen presskaka av

oskalade hampfrön





Friterat Hampakött

Matprodukter

Hampaflis Medverkande partners







Hampakalk



















INDUSTRIAL HEMP AS GREEN BUILDING/CONUSTRUCTION MATERIAL

Different products hempcrete & insulation & applications

Certification of materials & products

Viability in terms of economy, environment & people.

The raw material



(for cottonisation & non woven)





shivs

(for viscose)



HEMP IS THE ANSWER TO CREATE A SUSTAINABLE WORLD -

- CIRCULAR ECONOMY
- INDUSTRIAL SYMBIOS
- CLIMATE NEUTRAL
- LEAVE NOONE BEHIND
- IMPACT INVESTING





LAGAR OCH REGLER — VAD GÄLLER

Press release

3 December 2020



The cannabis sector sees a Christmas wish come true and celebrates two milestones in one week

Brussels – The European Industrial Hemp Association (EIHA) received yesterday a letter from the Health services of the European Commission stating that CBD can be qualified as food. Moments before, the UN recognised the medical value of cannabis and accepted WHO recommendation to rescheduled it.

In light of the recent Court judgement C-663/18, the Commission has reviewed its preliminary conclusion on cannabidiol, stating that it should not be considered as a drug within the meaning of the United Nations Single Convention on Narcotic Drugs of 1961. This breakthrough comes at the same time as the United Nations' Commission on Narcotic Drugs (CND) votes to accept the World Health Organisation's recommendation to remove cannabis from Schedule IV of the 1961 Convention, which was reserved for substances with "particularly dangerous properties" and little or no therapeutic value.

"A truly historic moment for mankind: The United Nations, based on WHO recommendations, recognises the medical value of cannabis and removes it from Schedule IV of the 1961 Convention.

Finally, the medicinal usefulness of cannabis is officially acknowledged" Says Mr Daniel Kruse, EIHA President.

"After this historic vote, it is worth highlighting that industrial hemp and non-medical CBD still remain out of the scope of the Single Convention. That is why, the second decision of this week is even more important for our industry: in light of the comments received inter alia from EIHA and of the recent European Court of Justice ruling, the European commission concludes that CBD should not be considered as drug and can be qualified as food. As the President of EIHA and as a pioneer of the hemp industry for 26 years, I truly thank the UN and our EU commission for these absolutely great Christmas presents!"

Pι	ess	rel	ec	ise
0			~ h	0

2 December 2021

The new Common Agricultural Policy has been adopted and the maximum THC level on the field has been restored to 0,3 %

Sök	på	regeringen.se	
Sök	рă	regeringen.se	

Regeringskansliet

Sveriges regering
Regeringens politik i Sverige & EU
Dokument & publikationer

Departementsserien och promemorior från Socialdepartementet

Tydligare reglering av hampa

Ds 2021:34

Publicerad 01 november 2021

Syftet med förslaget i denna promemoria är att förhindra att cannabis och varor som innehåller tetrahydrocannabinol (THC) når konsumentledet samtidigt som odling av hampa som jordbruksprodukt ska vara möjlig.

jordbruksverket.se/stod/lantbruk-skogsbruk-och-tradgard/jordbruksmark/gardsstod-och-stodratter/gardsstod/odla-hampa

Odla hampa

🖶 <u>Skriv ut</u>

Du som vill odla hampa måste odla en godkänd sort och söka gårdsstöd för odlingen för att inte bryta mot narkotikalagstiftningen.

Du måste odla en godkänd sort och söka gårdsstöd

För att få odla hampa i Sverige måste du odla industrihampa. För att odlingen ska klassas som industrihampa måste du odla en godkänd sort och du måste skicka in en ansökan om gårdsstöd för odlingen. All odling av hampa som du inte söker stöd för betraktas som narkotikaproduktion.

Godkända hampasorter 2021

EU bestämmer vilka hampasorter som är godkända för odling. I mars publicerade EU listan över godkända sorter 2021. Du måste odla en godkänd sort för att kunna få gårdsstöd. För alla de godkända sorterna är halten tetrahydrocannabinol (THC) högst 0,20 procent.

> Godkända hampasorter 2021



Så söker du gårdsstöd





SIHA also criticized a rule that would require individual growers to plant a minimum of four hectares, a $restriction\ that\ would\ disincentivize\ small-scale\ local\ producers, and\ hinder\ research\ and\ development$ projects often carried out on small plots, the association said.

NEWS

FREE NEWSLETTER

EVENTS

TOP STORIES ON HT

EUROPE, NEWS, POLICY, REGULATORY

Proposed rules in Sweden draw sharp criticism from hemp association

HT MAGAZ Key recommendations

In other proposed rules changes to the Swedish regulatory framework for hemp, SIHA recommended:

- Hemp be treated like other agricultural crops in the handling, preparation and marketing of all plant parts, eliminating all other restrictions if the cultivation has taken place in accordance with general rules for agricultural crops.
- Products containing CBD and other cannabinoids which are to be sold as food or dietary supplements should be allowed as long as the marketing conforms to Consumer Agency, Food Agency and Pharmaceutical Agency rules for nutrition and health claims.
- Hemp harvested by registered growers from certified seed should be legal whether the cultivation takes place on land with agricultural subsidy entitlements or not.
- Certificates of conformity on importation should be available for all parts of the hemp plant including roots, stems, flowering tops and seeds.
- Requirements should be established for origin labeling and traceability of imported raw hemp and finished hemp products so that the consumer can make informed choices.
- Domestic hemp varieties developed by the Swedish Seed Association during the 1940s and 50s and which have been in storage at the Nordic Genetic Resources Center since 2003, should be researched for their potential to produce native varieties that are suitable for growing in Sweden's northern climate.



Hemp barely registers in Swedish agriculture. Modern-era records that date to 2004 show 150 hectares were under hemp that year. By 2007, hemp fields had grown to 829 hectares, but then started to decline. Recent years have seen total annual fields at less than 200 hectares, with most hemp farms being small plots.





BREAKING: The United Nations decided seconds ago to remove #cannabis from Schedule IV of the 1961 Single Convention!!!

All other five #WHO recommendations were rejected. Particularly the CBD recommendation had only 6 votes in favor (needed 27 to pass). Please don't interpret this as an anti-CBD vote. The recommendation had many issues, as explained in this and in previous articles.

#CND63

via Marijuana Business Daily w/ Martin Jelsma and Kenzi Riboulet-Zemouli



United Nations approves WHO recommendation to reschedule cannabis in historic vote

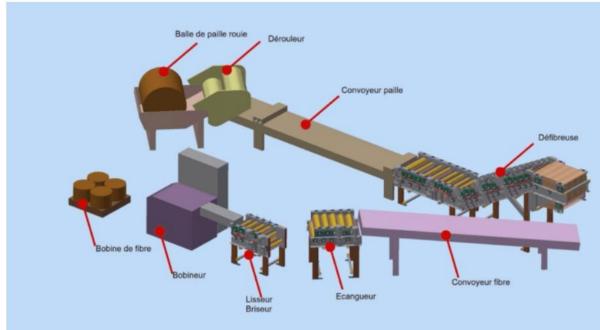
mjbizdaily.com • 4 min read





BUILDING, EUROPE, FIBER, HEMPCRETE, INNOVATION, NEWS, ORGANIZATIONS, TECHNOLOGY

Large quantities, fast methods needed for hempcrete to meet promise in housing



POSTED BY: HEMPTODAY® OCTOBER 3, 2022

Hempcrete is made of the shives/wooden core - the byproduct when producing fibre.

Suddenly hemp fibre is in high demand as hempcrete use jumps

U.S. builders are using hempcrete more frequently due to its insulating properties and moisture tolerance

By Gord Leathers

Reading Time: 3 minutes

Published: October 12, 2022 Crops, News













Home / Business / Trade Data / News

Global hemp clothing market projected to reach US \$ 23.02 billion by 2031

by Apparel Resources News-Desk 27-September-2022 | 2 mins read









Image Courtesy: www.greenmatters.com

Expected to grow at a CAGR of 27.1 per cent from 2022 to 2031, the global hemp clothing market, which was US \$ 2.29 billion in 2021, is projected to reach US \$ 23.02 billion by 2031.



September 21, 2022

Hempcrete Approved for US Residential Building Codes









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U.S. Hemp Roundtable Advances Agenda With Congressional Leaders



Benzinga Brings Big **Energy to Chicago** Cannabis Conference



Hemp Scores 2 Grants in **USDA Climate Smart Commodities Awards**





National Hemp Association Educates on Industrial Hemp at United Nations



By Lets Talk Hemp

Published on October 4, 2022



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By Geoff Whaling

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6 OCTOBER 2022



ON DOITICS The Biden Presidency Facts First 2022 Midterms

Biden pardons all federal offenses of simple marijuana possession in first major steps toward decriminalization











Statement from President Biden on Marijuana Reform

As I often said during my campaign for President, no one should be in jail just for using or possessing marijuana. Sending people to prison for possessing marijuana has upended too many lives and incarcerated people for conduct that many states no longer prohibit. Criminal records for marijuana possession have also imposed needless barriers to employment, housing, and educational opportunities. And while white and Black and brown people use marijuana at similar rates, Black and brown people have been arrested, prosecuted, and convicted at disproportionate rates.

Today, I am announcing three steps that I am taking to end this failed approach.

First, I am announcing a pardon of all prior Federal offenses of simple possession of marijuana. I have directed the Attorney General to develop an administrative process for the issuance of certificates of pardon to eligible individuals. There are thousands of people who have prior Federal convictions for marijuana possession, who may be denied employment, housing, or educational opportunities as a result. My action will help relieve the collateral consequences arising from these convictions.

Second, I am urging all Governors to do the same with regard to state offenses. Just as no one should be in a Federal prison solely due to the possession of marijuana, no one should be in a local jail or state prison for that reason, either.

Third, I am asking the Secretary of Health and Human Services and the Attorney General to initiate the administrative process to review expeditiously how marijuana is scheduled under federal law. Federal law currently classifies marijuana in Schedule I of the Controlled Substances Act, the classification meant for the most dangerous substances. This is the same schedule as for heroin and LSD, and even higher than the classification of fentanyl and methamphetamine – the drugs that are driving our overdose epidemic.

26 OCTOBER 2022

We do not engage in the political dialogue around Cannabis Sativa, the recreational/medicinal plant.

However:

These kinds of dialogues/change of laws will decrease the stigma around hemp — the industrial plant & organic crop.

Germany announces plan to legalise cannabis for recreational use

Minister says legalisation could set precedent for rest of Europe, though plan is still subject to EU approval



German health minister Karl Lauterbach also wants to make it legal to privately grow up to three cannabis plants. Photograph: Michele Tantussi/Reuters

Germany wants to make it legal for adults to purchase and own up to 30g of cannabis for recreational use and to privately grow up to three plants, the country's health minister has announced, saying the intended outcome

The REAL Green Deal

The **WORLD** has changed, **BUSINESS** as well:

Environment comes into the equation

Do more with less, produce less waste, durable and compostable, offset climate change, go to the essential, be as green as possible!

= Green Deal

Hemp: the real Green Deal!

A multipurpose plant that provides carbon negative raw materials



INDUSTRIAL HEMP CULTIVATION IN SWEDEN 2004 - 2022

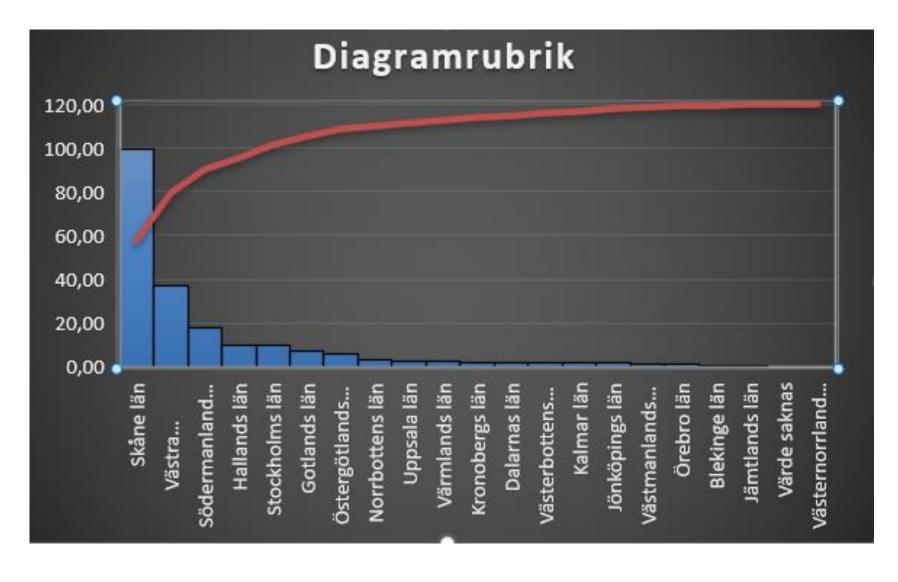
2021: 94 different farmers on 223 ha, largest 41 ha, average is





2021: 94 DIFFERENT FARMERS ON 223 HA THROUGHOUT SWEDENS 21 COUNTYS, SKÅNE MAJORITY, SINGLE LARGEST FARMER: 41 HA, SMALLEST 0.001 HA





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Hemp production in the EU

Hemp cultivation contributes to the European Green Deal objectives

Uses of hemp

Definition and provisions

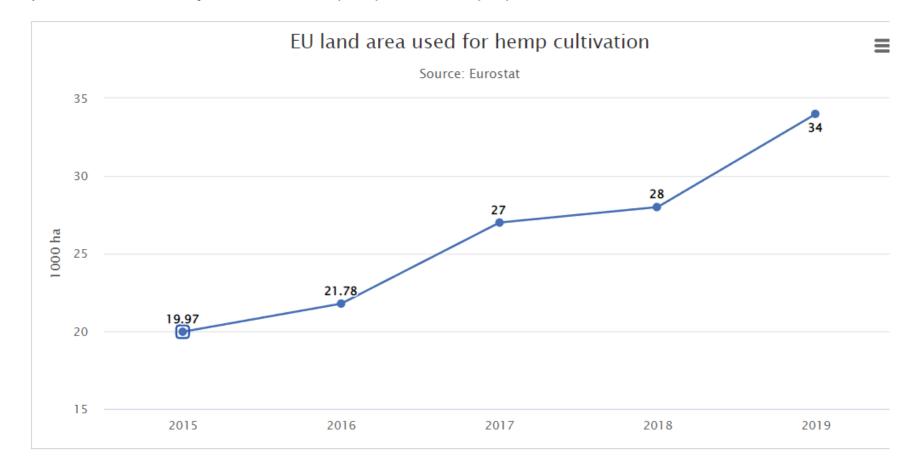
Support available under the CAP

Committees and expert groups

Legal bases

Hemp production in the EU

Hemp is a crop grown across Europe. In recent years the area dedicated to hemp cultivation has increased significantly in the EU from 19,970 hectares (ha) in 2015 to 34,960 ha in 2019 (a 75% increase). In the same period, the production of hemp increased from 94,120 tonnes to 152,820 tonnes (a 62.4% increase). France is the largest producer, accounting for more than 70% of EU production, followed by the Netherlands (10%) and Austria (4%).



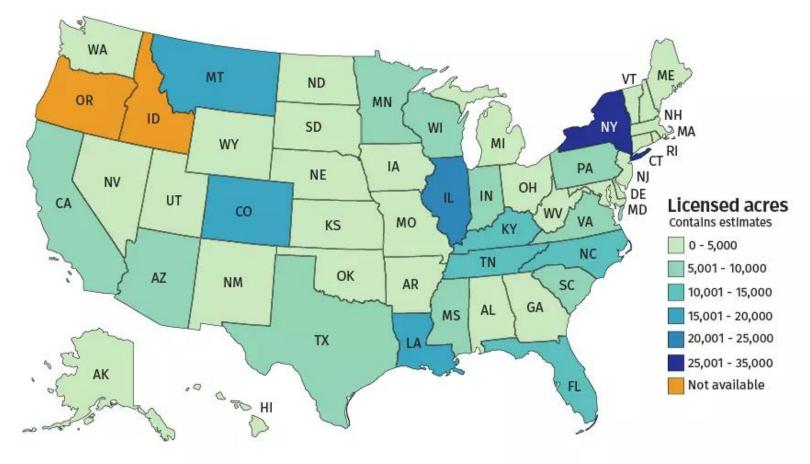
EU COMMISSION WEBPAGE

Hemp cultivation contributes to the European Green Deal objectives

Hemp has a number of environmental benefits.

- Carbon storage: one hectare of hemp sequesters 9 to 15 tonnes of CO2, similar to the amount sequestered by a young forest, but it only takes five months to grow.
- Breaking the cycle of diseases: hemp helps to break the cycle of diseases when used in crop rotation. In addition, weeds are not able to grow due to the fast growth and shading capacity of hemp plants.
- Soil erosion prevention: dense leaves of hemp become a natural soil cover, reducing water loss and protecting against soil erosion. Hemp covers the ground just three weeks after germination.
- Biodiversity: flowering cycle usually occurs between July and September, coinciding with a
 lack of pollen production from other crops. Hemp produces large amounts of pollen. It also
 provides shelter for birds and hemp seeds are a food for animals.
- Low or no use of pesticides: hemp is susceptible to few pests because of the lack of natural predators, which means that the use of insecticides, herbicides, and fungicides can be avoided in most cases.

Total Licensed Hemp Acreage for 2021



Source: MJBlzDally research

© 2021 Hemp Industry Daily, a division of Anne Holland Ventures Inc.

The data reflects:

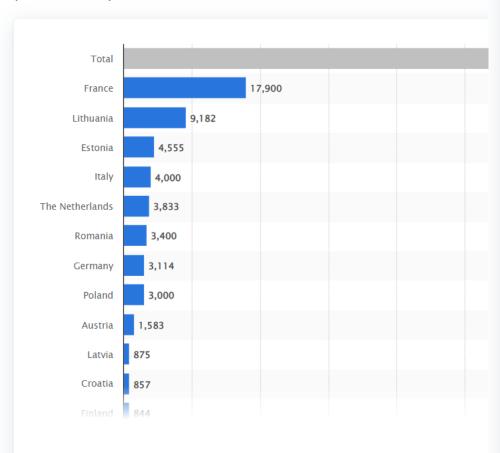
- •A 24% decrease from the 375,000 licensed acres reported to the U.S. Department of Agriculture's Farm Service Agency in 2020.
- •A 39% decrease from the 465,787 total licensed acres of hemp across 47 states that reported to *Hemp Industry Daily* in June 2020.

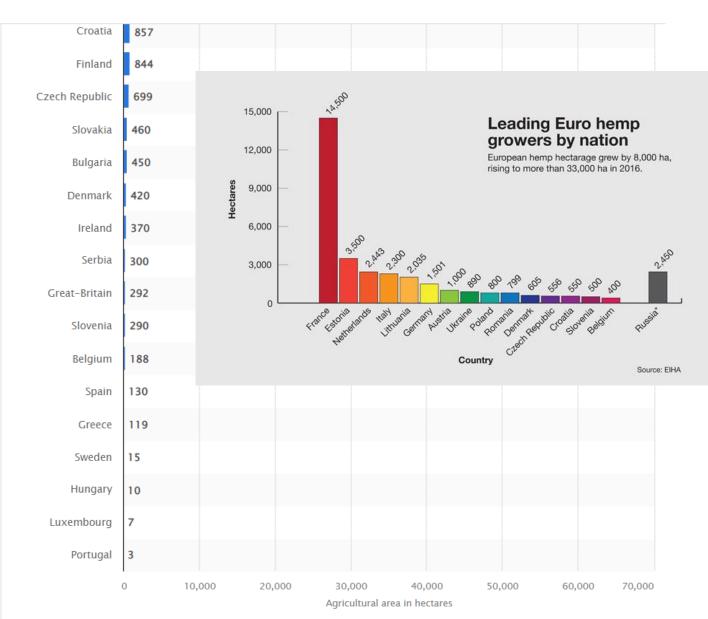
In just two years, licensed hemp acreage plummeted 44% compared to 511,442 total licensed acres of hemp across 34 states in 2019, a record production year following legalization of hemp as a federally legal commodity crop with the 2018 Farm Bill.

That number was more than quadruple the number of acres licensed in 2018,

Agricultural area dedicated to hemp cultivation in Europe in 2019

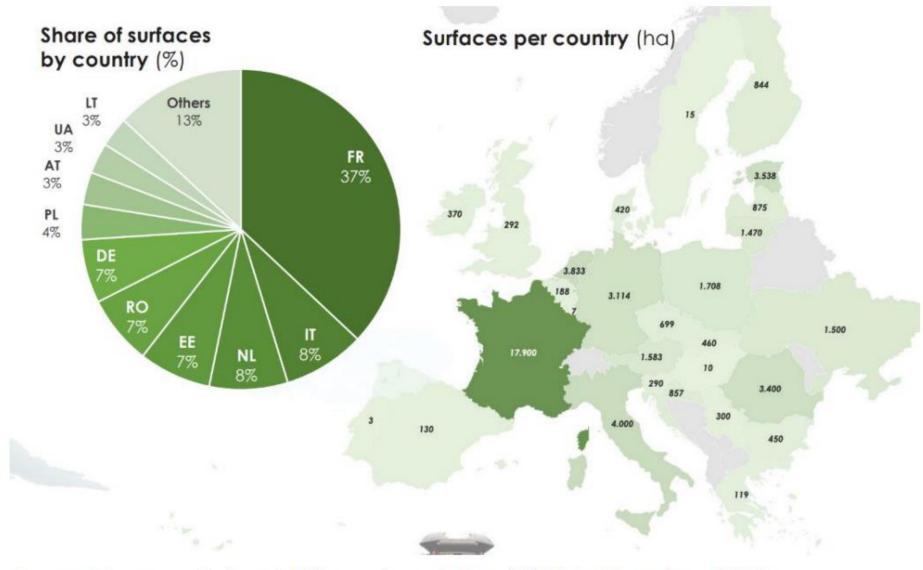
(in hectares)







Surfaces for hemp cultivation by Member States



Source: European Industrial Hemp Association (EIHA) - Data from 2018



Examensarbete inom Lantmästarprogrammet 2005:24

SKÖRDEMETODER AV INDUSTRIHAMPA

HARVEST METHODS OF INDUSTRIAL HEMP



Ingrid Hansson



Fakulteten för landskapsarkitektur, trädgårdsoch växtproduktionsvetenskap

Framställning av högkvalitativa textilfibrer av industrihampa (*Cannabis sativa L.*) under nordiska förhållanden

- Production of high-quality textile fibers from industrial hemp (Cannabis sativa L.) in Nordic conditions

Helena Edén



MONIKA NORDLING

Monika Nordling presenterar sitt rykande färska Examensarbete för Kandidatexamen Textilteknologi, Textilhögskolan - Högskolan i Borås:

SVENSK HAMPA – FRÅN SPILL TILL INREDNING

Examensarbete för Kandidatexamen Textilteknologi Rapport nr: 2022.12.14

SVENSK HAMPA

- FRÅN SPILL TILL INREDNING

Monika Nordling

Examinator: Karin Högberg

Textilhögskolan

Högskolan i Borås





CANNABIS TEXTILES

IN HEMP GARDEN CULTURES



Git Skoglund is a Swedish textile researcher and journalist, who has studied the *Cannabis* plant and its many useful products since the early 1990s. Her primary focus is hemp textiles made by traditional cultures, and her writings are informed by extensive historical research, field journeys, laboratory studies, and exhibition productions.

In Cannabis Textiles, she explores traditional and manually manufactured hemp textiles, primarily from botanical and garden history perspectives, shedding light on the peoples behind their production from seed to sewing, while sharing methods to disinguish hemp fibers and fabrics from similar looking hop, flax, nettles and cotton. The text is richly illustrated with a wide variety of hemp textiles from Europe and Asia.



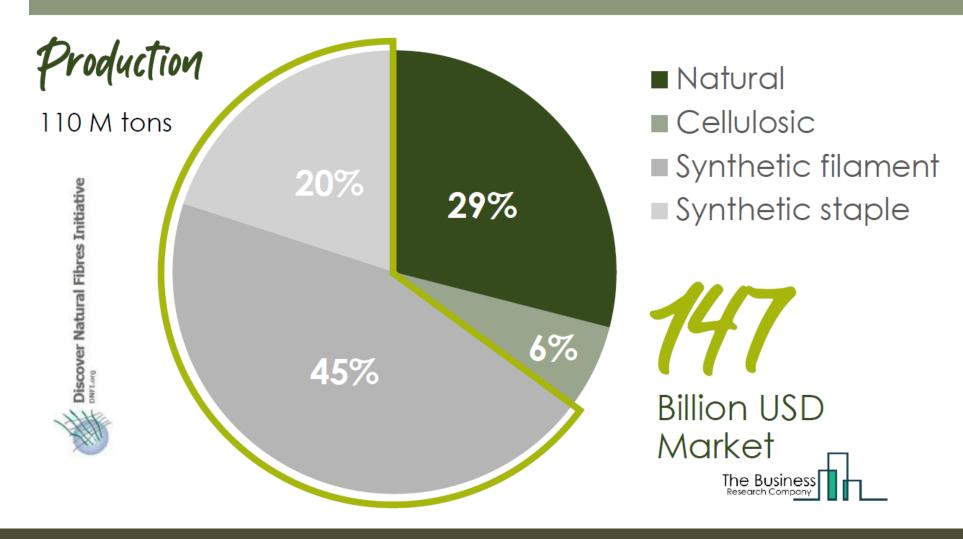








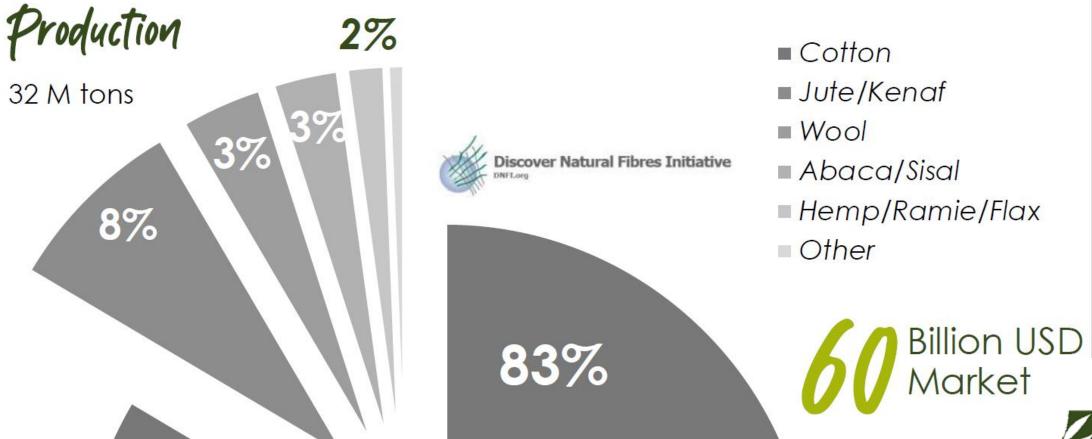
Market opportunities







Market opportunities

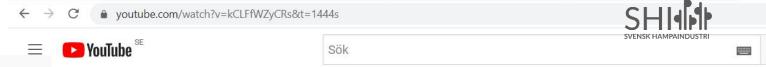


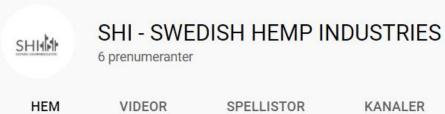






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Undertexter



Steve De Angelo, "Industrial Hemp - Innovation For...

291 visningar • för 2 månader sedan



Industrial Hemp - Innovation for a biobased & fossilfree future May 5th 2021





"HEMP IS THE ANSWER TO MANY DIFFERENT SOCIETAL CHALLENGES THAT DIFFERENT COUNTRIES ARE EXPERIENCING. IF EVERY COUNTRY WOULD GROW A LITTLE BIT OF HEMP AND HAVE A PROCESSING INDUSTRY AROUND IT. I THINK WE COULD CHANGE THE WORLD."

CLARA NORELL

THANK YOU!

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