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- NZ Hemp Industries  
Association



## Opportunity for Value Added Hemp Fibre Construction Products

- Hemp fibre's suitability to construction products
- Examples of products
- Next steps for those interested in hemp product development

**Richard Barge, NZ Hemp Industries Association**  
**18<sup>th</sup> November 2021**  
**Escape Coffee, Liardet Street, New Plymouth**



Growers and Cultivators



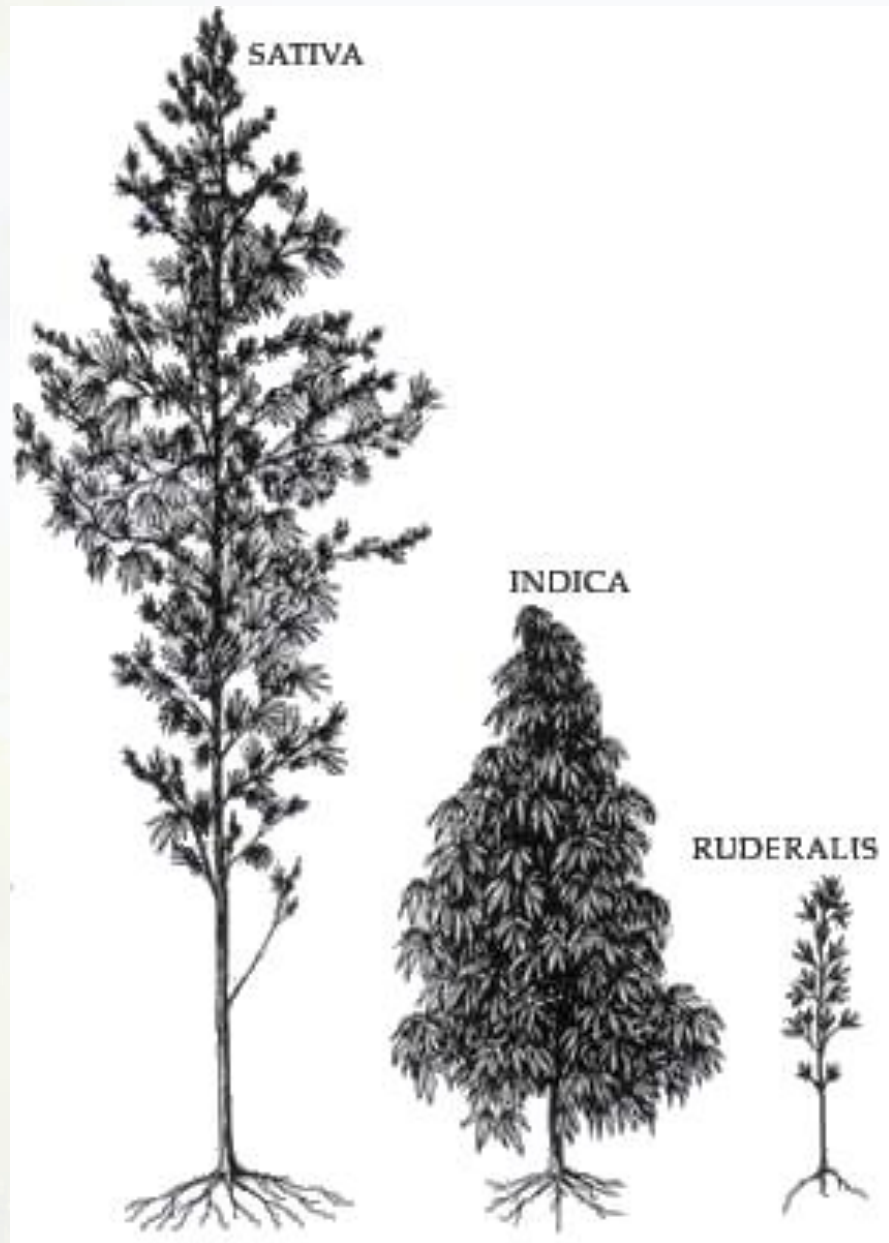
Testing and Development



Processors and Manufacturers



Distributors and Consumers



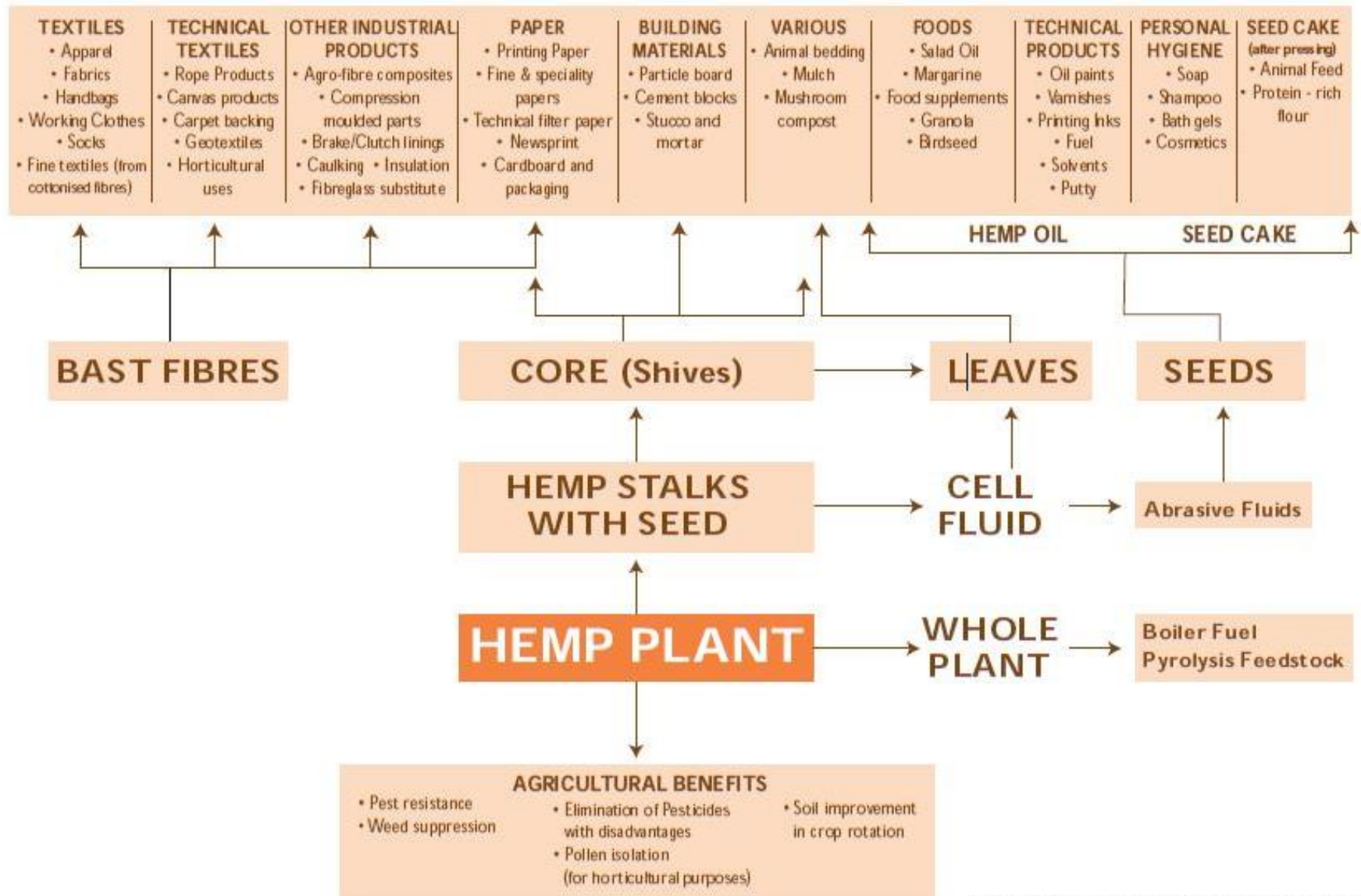
## **Hemp Fibre: In a sustainable future, what role could hemp construction play?**

- Government regulations and programmes like [Homestar](#)
- Renewable annual resource – ticks all the right boxes
- Climate change and local supply chain resilience
- Consumer awareness and demand for products that align to their values

## **The opportunities that exists for future-focused sustainable hemp construction and value-added products**

- From fibre crop farmers, processors and users of hemp building materials, the whole value chain is represented
- Investment opportunities to build capacity to process and manufacture
- Training and employment as new business opportunities are commercialised
- Working with other sustainable orientated groups and organisations in the sector





ADAPTED FROM A VERSION BY RURAL INDUSTRIES RESEARCH & DEVELOPMENT CORPORATION, ACT AUSTRALIA

# Hemp fibre's suitability to construction products

Hemp stems produces: Bast Fiber (Primary and Secondary) hurd/shive and dust

- Anti bacterial
- Anti fungal
- Anti static
- Stops 95% of UV light

Useful properties

- Thermal
- Acoustic
- Heat and fire
- Breathable
- Moisture

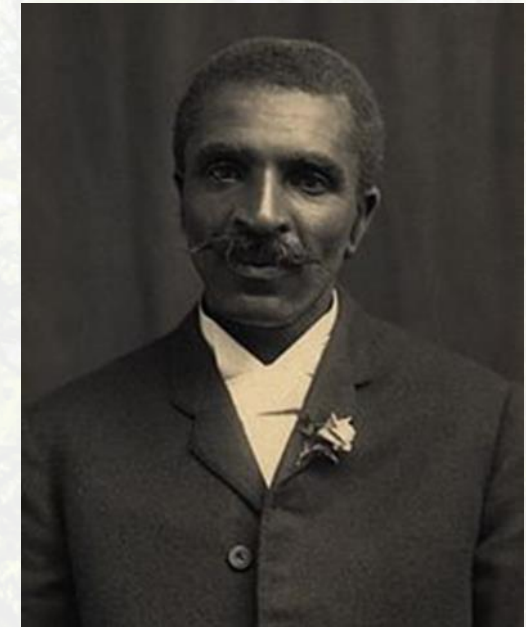
Chemurgy – is a branch of applied chemistry that is concerned with preparing industrial products from agricultural raw materials



*Hemp Construction Materials*



Henry Ford c1930



George Washington Carver c1910 Page 7

# Examples of products

The finished products being made, now range from hempcrete construction, insulation, MDF boards, acoustic tiles, plumbers hemp, flooring (loose hurd), bricks and soft furnishings.

Oils and stains from the seed

Other fiber uses – yachting/coach building, composites, plastics, 3d printing, geotextiles paper, fuel

High Tech Vs Low Tech uses – are still being developed and commercialised







*Hemp flooring products are sustainable, non-toxic and eco-friendly acting as carbon storage and improving the air quality of homes*



*Hemp fibreboard and Hemp insulation - the Green Building choice for North America © Sunstrand LLC,*



*Courtesy of HempWood*

## Next steps for those interested in hemp product development

The [NZHIA NZ Hemp Export Driven Investor Report](#) indicates a 2 billion dollar industry, which involves “growers” to produce seed, fibre and health products

### This requires Investment and that is an opportunity

- Share the risk and invest in R & D, to prove the markets and qualities of what is achievable in New Zealand
- Regional development: building capability and playing to your strengths

### On farm

- Fibre varieties, harvest equipment, retting and primary processing

### Ex Farm

Secondary processing into raw commodities

- Plus moving up the value chain to finished products



# We're here to help nurture and grow the industry

A nationwide tour to build the hemp industry network will be announced shortly

[Register your interest for the iHemp 2022 Tour](#)



**We need your feedback!**

# 2021 LICENCEES SURVEY

Assistance is crucial to help us support the industry and develop tools to make the process easier for ALL licence holders

[COMPLETE THE SURVEY HERE](#)



## LICENCE TYPES:



Grower



Processor



Research & Breeding

Complete the Survey and you'll receive FREE access to the Webtools prototype "[Hemp Licencing Application Tool](#)"



# THANK you and Questions

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