Opportunities for micro-manufacturing of bio-products from industrial hemp fiber



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Generating Sustainable Rural Economies

Transition Design

'...the process that requires a vision, the integration of knowledge, and the need to think and act at different levels of scale, and that is highly contextual – relationships, connections, and place'. (Irwin, 2015, 238) - Requires a vision

- Integration of knowledge

- Think and act at different levels of scale

- Highly contextual

(Transition Design, Irwin, 2015)



Industrial Hemp Fibers

- Diversified
- Value added
- Scalable

Hemp bio-fiber opportunities



- Processing
- Material Development
- Manufacturing

Photo credit, Fibershed, 2018

Fiber strains are able to produce upwards of 4,000 pounds per acre of useful textile and cordage fibers.

Bast fiber is 12-20% of the dry weight of the plant. Strong, long fibers converted to textile or high-quality paper.

Remaining woody core (hurd) can be turned into building materials, bio-plastics and mulches.

Fibershed, 2018

Hemp-based Biomaterials

- Automotive Composites
- Fiber Insulation
- Hemp Board
- Hempcrete
- Absorbents
- Textiles
- Paper
- Bio Plastics





Images: Sunstrand Sustainable Materials

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HEMP HURDS AS PAPER-MAKING MATERIAL

By

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Biomaterial Opportunities Processing Material R&D Scaled Manufacturing • Flexible Production







OPEN SOURCE PLANS Steel Roller Hemp Break

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Processing at Scale

- Individual
- Community
- Industrial

ONE ACRE EXCHANGE

MAKING ONE ACRE PROFITABLE AND A MILLION ACRES POSSIBLE

Supply Chain Development for Regenerative Agricultural Systems

Programs

Community



FIBERSHED

About Blog



Affiliate Directory

The Fibershed Affiliate Program supports an international grassroots network that promotes the development of regional fiber systems communities, including economic and non-economic growth, in the form of building relationships and new global networks.



- Bastcore.com
- CannaSystems.ca
- Fibershed.com
- Formation-Ag.com
- HempInc.com
- Hemptrade.ca
- SunStrands.com
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