

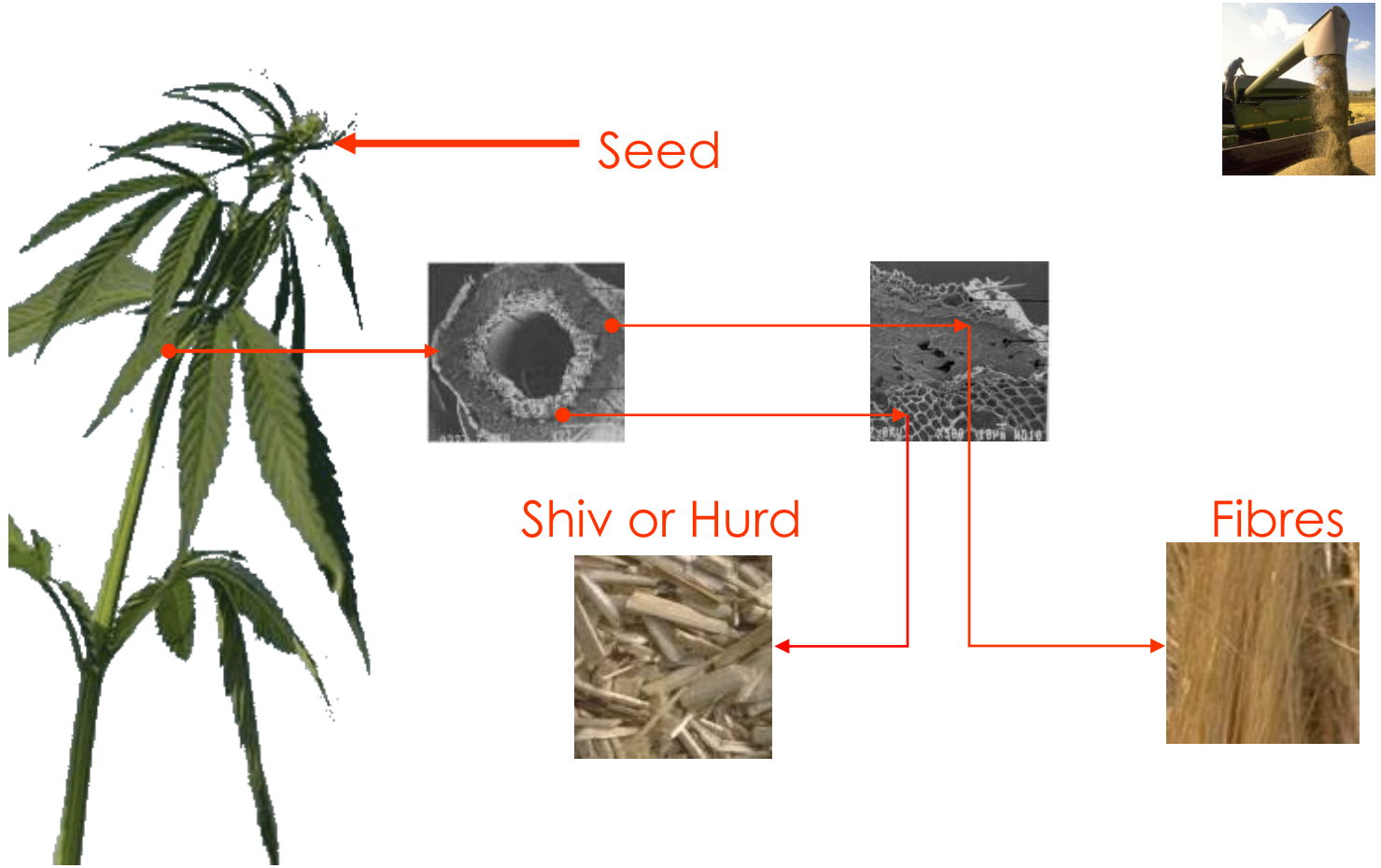
Bio-fibre Innovation & Opportunities

Vegreville January 2012

Mike Duckett

Hemp Technology

Bio-Fibre Crops



European Producers

- France
 - LCDA
 - Agro Fibre
 - Cavak
 - Planet Chanvre
- Holland
 - Hempflax
 - Dun Agro
- United Kingdom
 - Hemp Technology

Pulp & Paper



Automotive Industry



Insulation



Horticultural



HEMCORE HORSE BEDDING

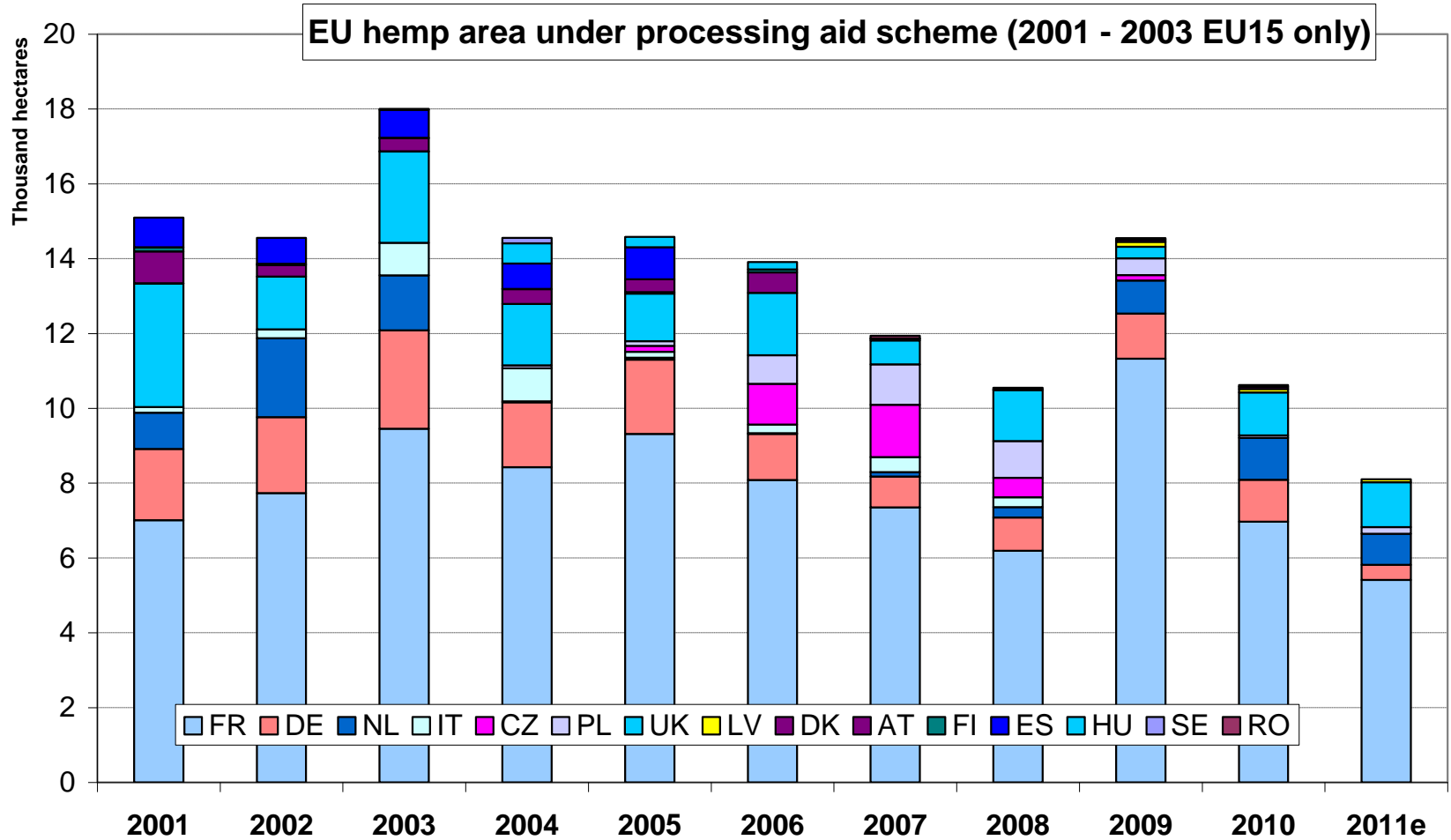
- Highly Absorbent
- Low Odour
- Dust Extracted
- Labour Saving
- Ease Of Disposal
- Convenient To Use
- Economical In Use



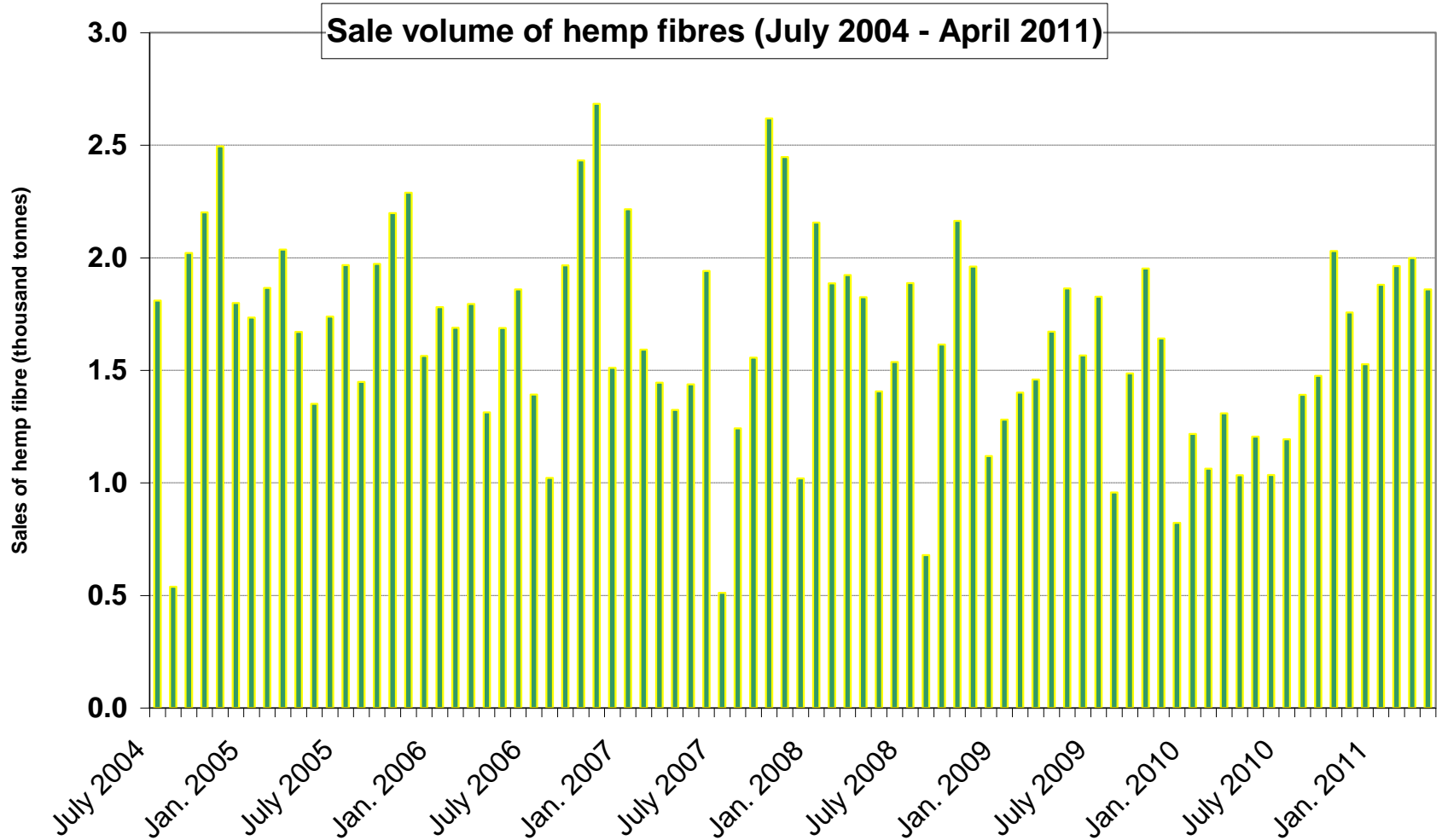
Construction



EU hemp area (2001-2011)

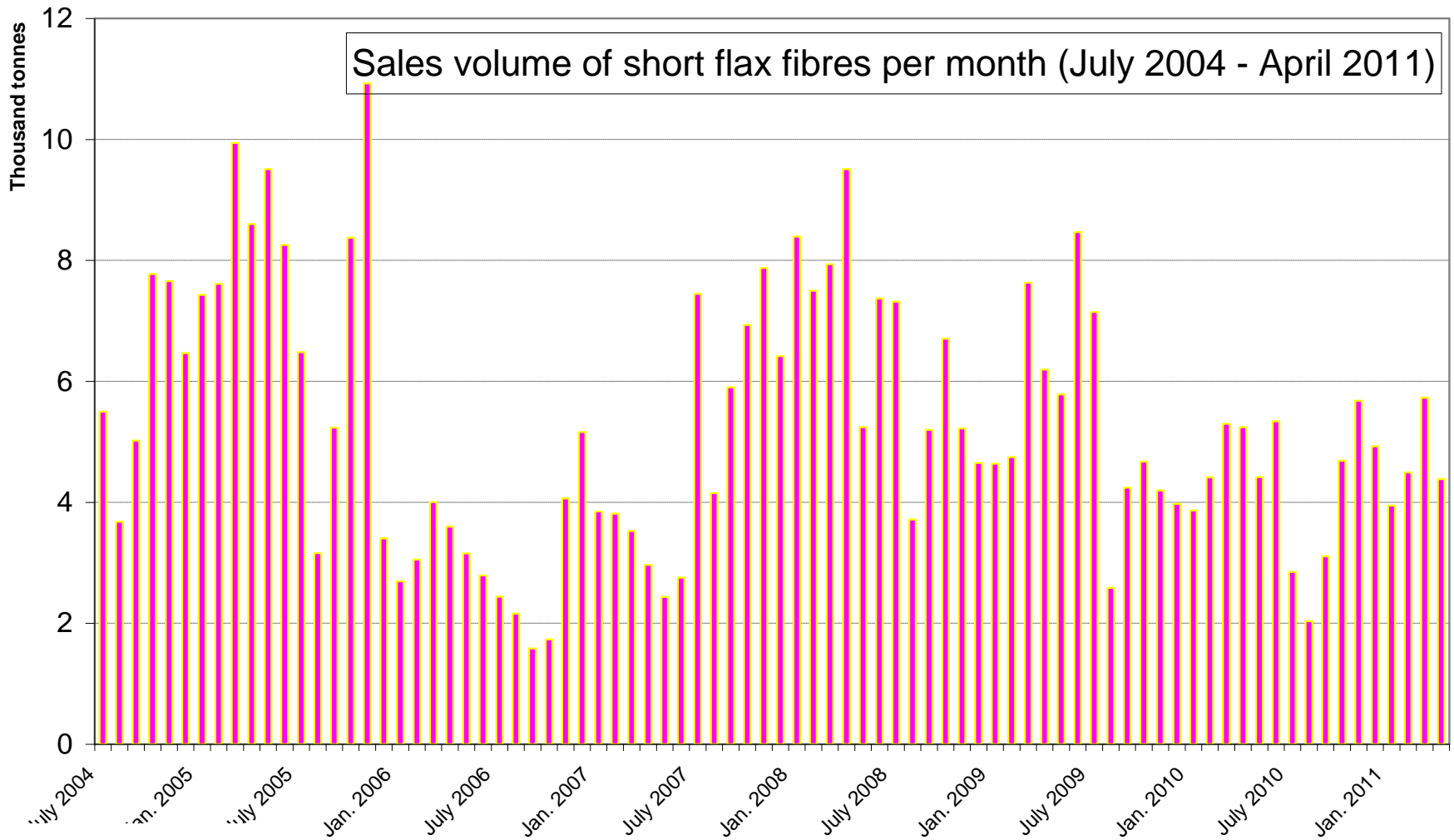


Sales of hemp fibre



Source: Member State communications

Sales of short flax fibre



Product Value

- Fibre €650/tonne
- Shiv €390/tonne
- 24% Fibre - Value €156.00
- 45% Shiv - Value €175.50

Alberta Strengths & Opportunities

- Large Potential Market
- US Policy
- Cost Effective Raw Material Supply Base
 - Hemp
 - Flax
- ABDC - Research & Development
- Geographic Position
- **BUT:**
- Chicken & Egg Situation
- Kick start

Social Affordable Housing



Social Affordable Housing



Private Housing



Private Housing



Private Housing



Private Housing



Hotels



Retail



Retail



Retail



Educational



Warehousing



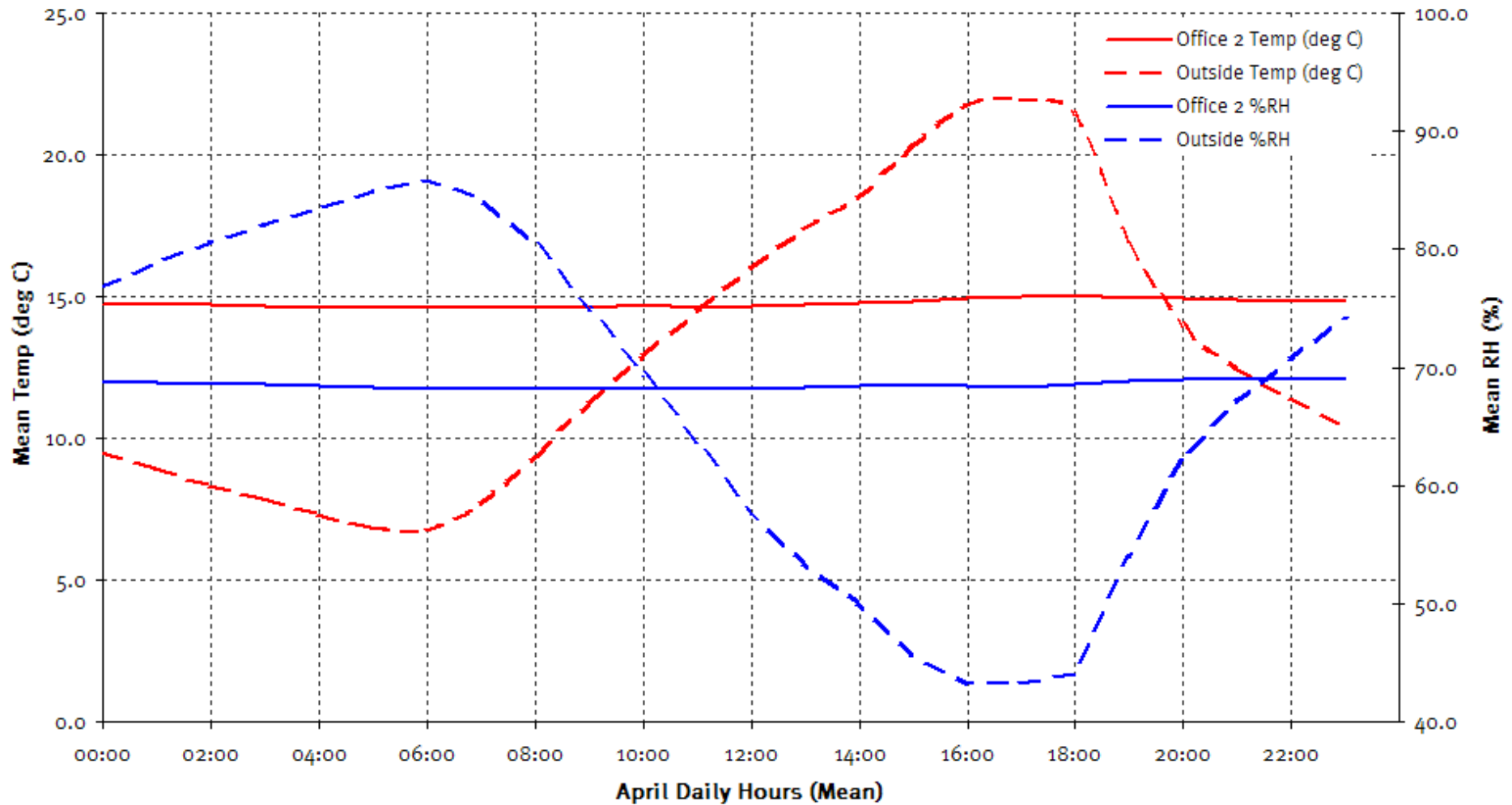
Why Build With Hemp/Lime

- Renewable Resource
- Carbon capture
- Low density
- High thermal insulation
- High sound absorption
- High thermal inertia
- Good vapour permeability
- Creates comfortable healthy buildings
- Fire and pest resistant
- **COST EFFECTIVE**

Offices



Office 2



Before





10.0 °C

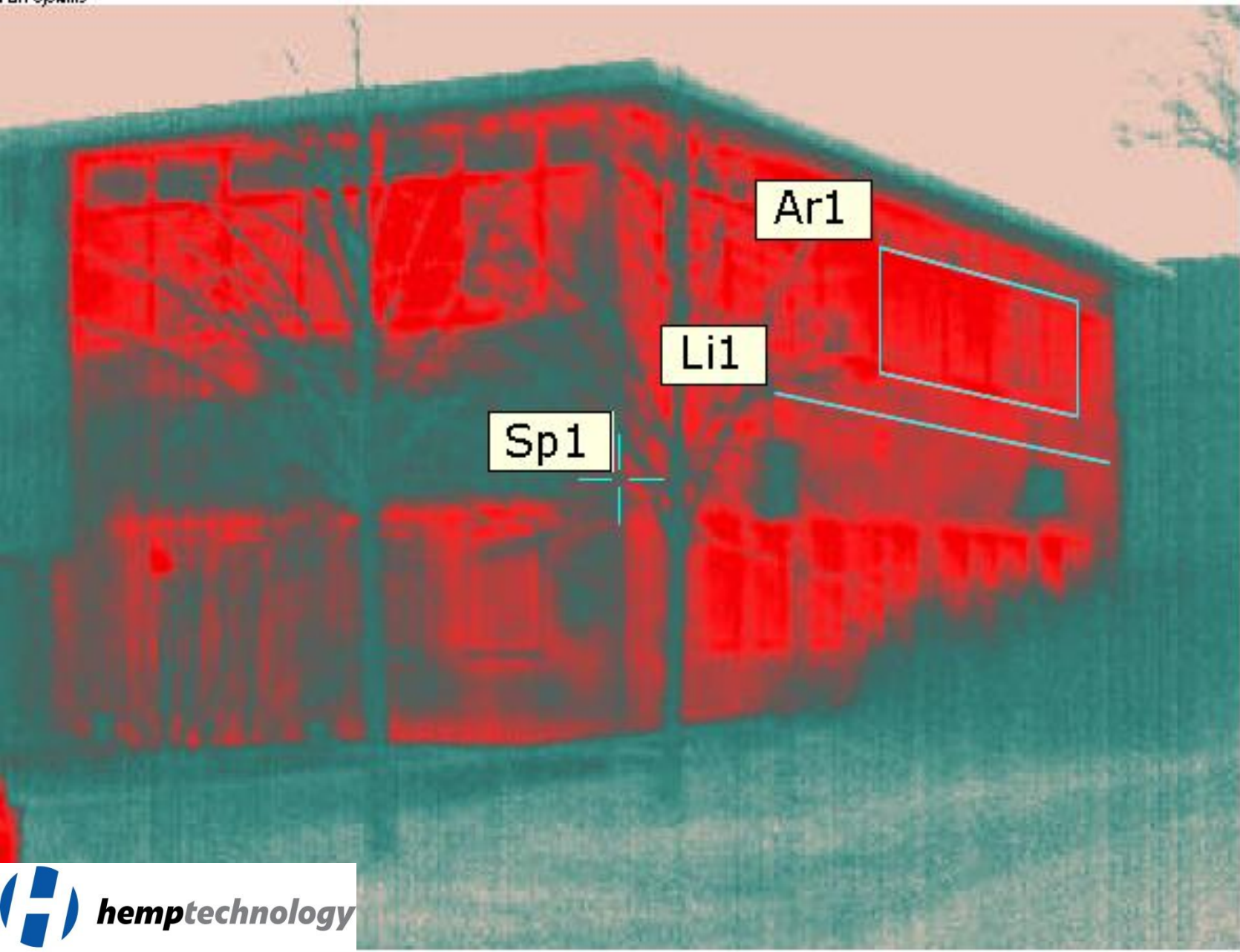
9

8

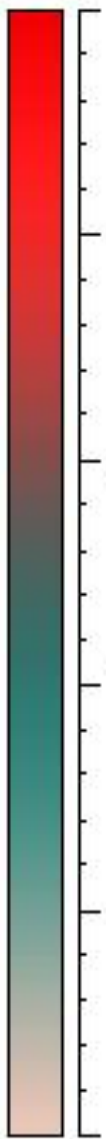
7

6

5.0



10.0 °C



Mayors House Asheville NC



Asheville North Carolina



Cast On Site



Spraying



Panel System



Panel System



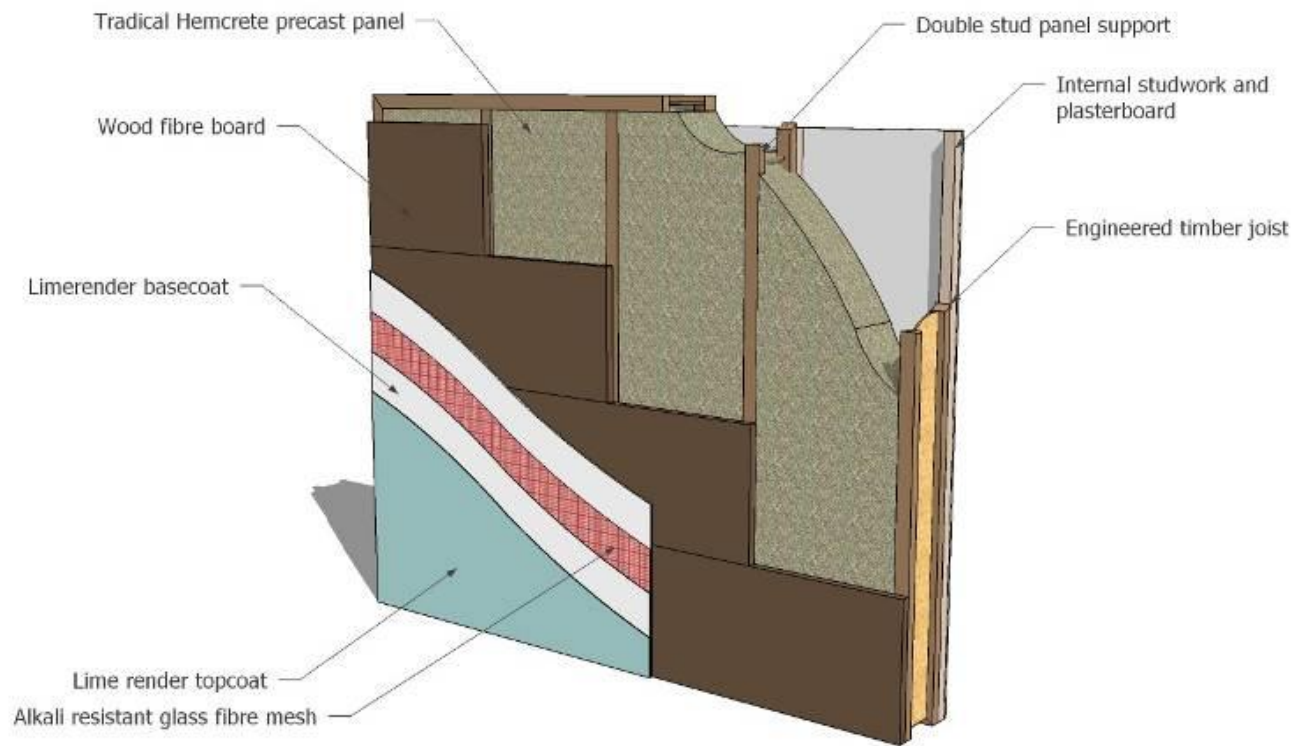
Panel System



Panel System



Structural Panels



Future Innovation

- Flax fibre development.
- Novel uses for dust.
- Integrated supply chain.
- Fibre cleaning improvement.

Thank you for your attention

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