Tactical and operational planning of bio-based supply chains

Unlocking bottlenecks and incorporating social sustainability into circular systems
Tactical and operational planning of bio-based supply chains

- Introduction Rawmaterials Collective Netherlands
- Development from innovation and transition to realization and upscaling
- Product development on the one hand and demand creation on the other
GRONDSOFFEN COLLECTIEF

- Waardeketen Tabel
- Total Cost of Ownership
- Business A Value Case
- Grondstoffen Collectief
- Eigenaarschap?
- Stewardship
- Koopkring
- Aanvragen
- Conferentie

Inleiding: Waarde Creatie

- Goedstien
- Investeren (voorbeeld)
- Verwerken (voorbeeld)

- Producten
- Bodem Versterkings
- Bouw panelen
- Verpakking

- Biogas
- Papper
- Biobased

- Goedstien Data
- Investering
- Reststromen

- Verwerken (voorbeeld)
- Biozels
- Noots
- Bommen

- Goedstien
- Investeren (voorbeeld)
- Verwerken (voorbeeld)
FROM COUNTRY TO PROPERTY
CULTIVATION OF FIBRE CROPS → PRIMARY PROCESSOR → SECONDARY PROCESSOR → COMPONENT PROCESSOR → TARGET USE IN CONSTRUCTION

unprocessed harvest fiber crop → dried inert fibres

Construction materials →Prefab construction element

re-use

recycling

compost / biochar / direct
Biobased Building

- Governance
- Setting up Supplychain
- Understanding and comprehension
- Technology and building concepts
Business Model

- Governance
- Processes
- Technology

1 ton of CO₂eq = 1 carbon credit
TARGET USE IN CONSTRUCTION

CULTIVATION OF FIBRE CROPS

PRIMARY PROCESSOR

SECONDARY PROCESSOR

COMPONENT PROCESSOR

Fiber Coop

unprocessed harvest fiber crop

Construction materials

Prefab construction element

recycling

re-use

compost / biochar / direct

Building Balance
Best chains for the Achterhoek region

• Blowing hemp and miscanthus into roof structures, chopped from the land
• Strips: straw verbals for the development of prefabricated straw construction
• Application of biobased raw materials in building constructions
• A refinery chain: silphie, sorghum and roadside mulch
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Questions?

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From Roadside to Page
Transport and Logistics

- Transport
- Logistics
- Fulfillment
Conclusions