

WRACK4SOIL - Using beach wrack for the production of compost and soil

Case study 2019-2021

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Hanseatische Umwelt
BODEN · KOMPOST · DÜNGER

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waste management

Green waste, wood, marine biomass (sea grass and algae)



Production

Compost - Soil - Fertilizer



Consulting / Research

Agriculture, municipalities, end customers
EU research projects on marine biomass



Key aspects case study **WRACK4SOIL**

COMPOST



SUPPLY CHAIN



BUSINESS



Valuable components of BW



COMPOST, SOIL, AGRICULTURE,
FERTILIZER

INSULATION, EROSION-
PROTECTION,
CUSHIONING

Collection decides on recycling options

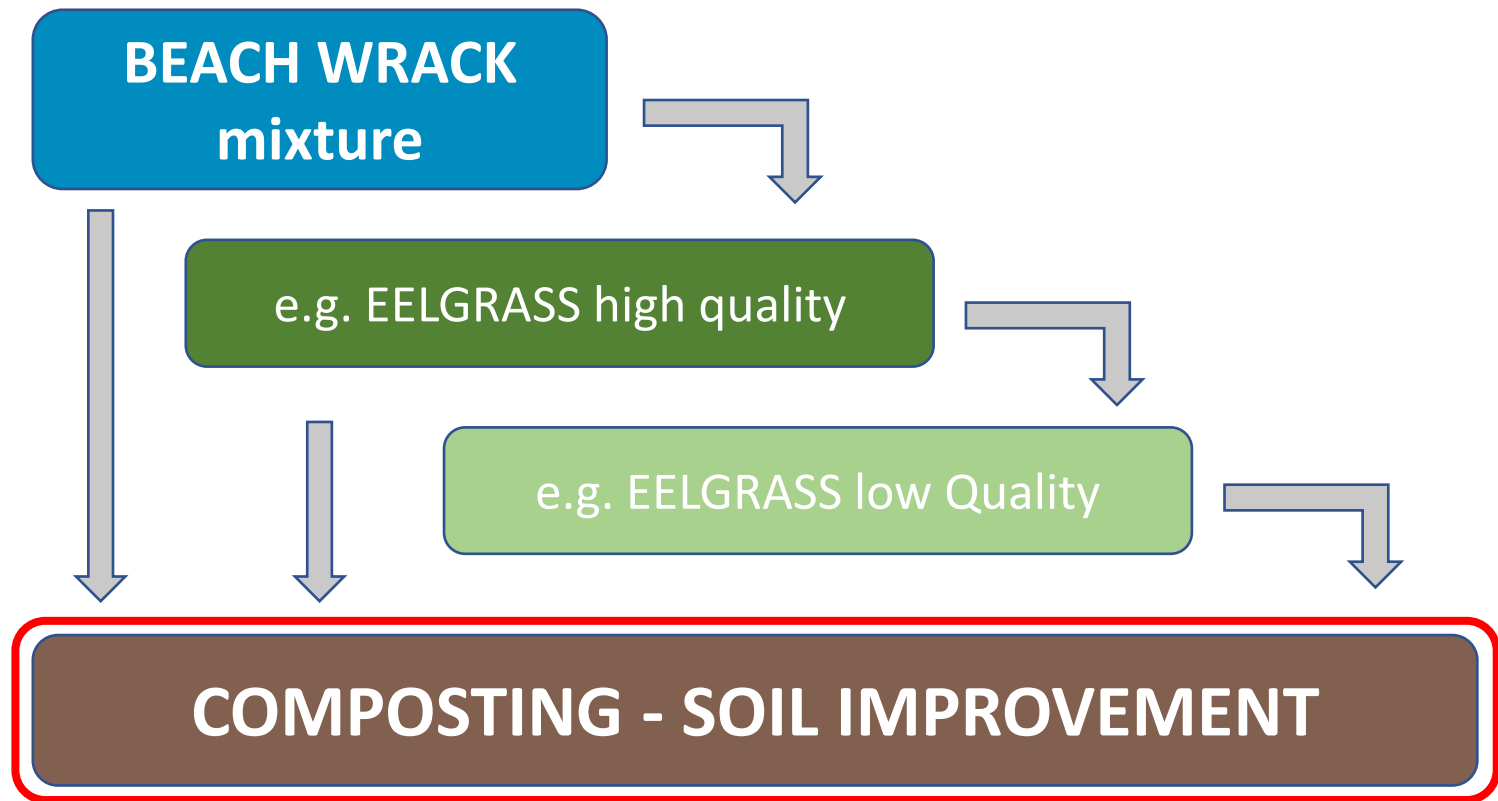
Regular cleaning



Targeted collection



Cascade recycling of BW is a key



Why using beach wrack in composting?

- Mixture can be used
- large quantities, sand useful (to certain limited)
- positive ingredients of algae / sea grass -> Plants
- Control of impurities, pollutants and heavy metals
- Homogeneous end-product parameters (nutrients, pH, C/N)
- Basis for a cascadic recycling approach

Example of beach wrack recycling chain



Eelgrass collection and processing

Collecting



Washing



Drying



Markets for BW-based compost + soil products

Lawn areas



*Soil
substrates*



Agriculture



Summary and outlook

lessons learned

- Improving cooperation with local actors is a key factor
> IT'S ALL ABOUT MANAGEMENT <
- Resource oriented beach cleaning is crucial
- Composting most promising recycling solution for big amounts of mixed bw-material
- Legal framework is clear on local level. But different approaches / rules in other BSR regions and countries
- BW-business needs reliably supply chain

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