

Sustainable Packaging Production – *Summary, Outcomes and Future Perspectives*

8th June 2015, Valencia, Spain

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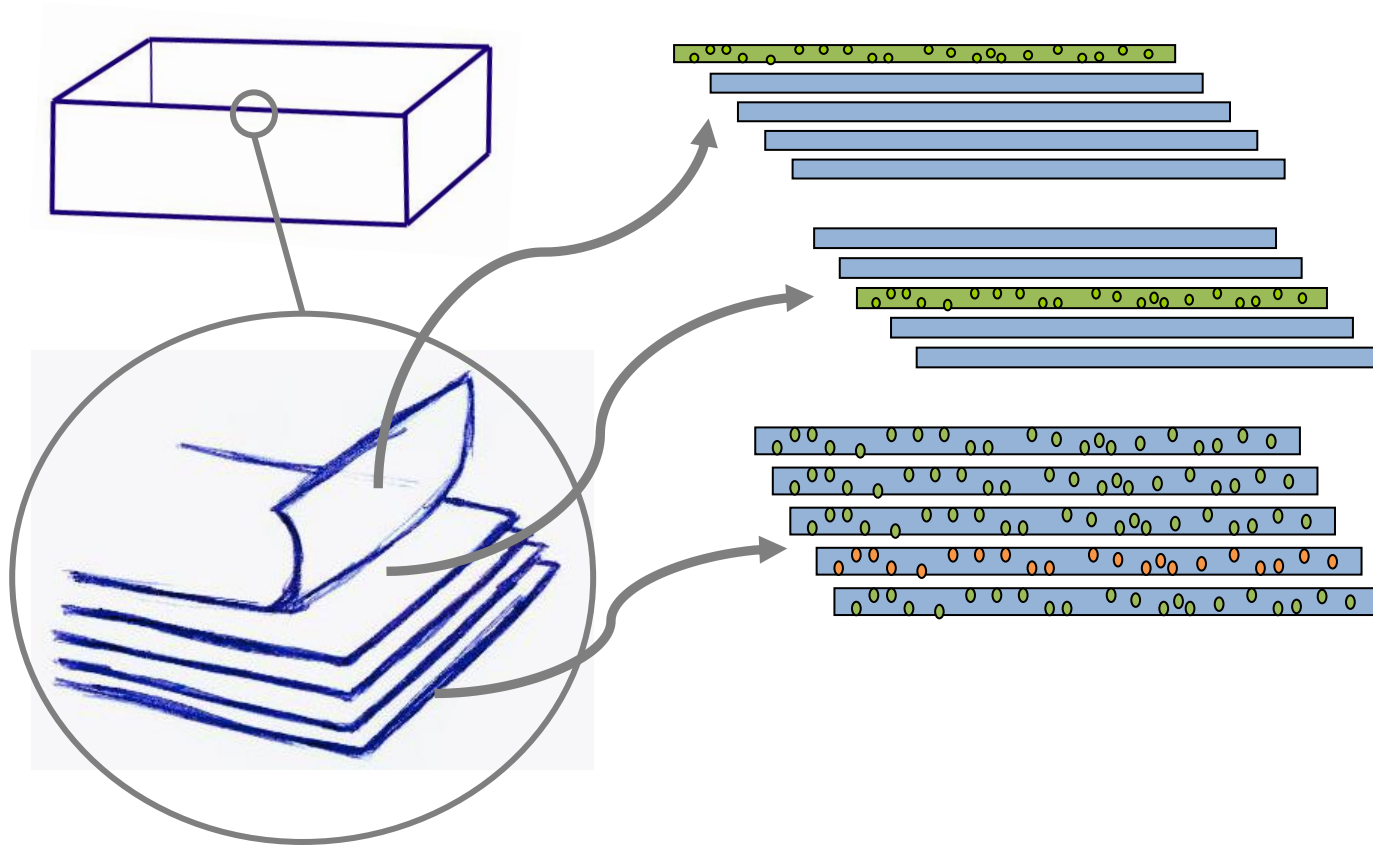
Bumaga BV, Netherlands



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We have a dream...



Connect research and industry



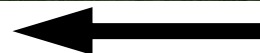
Research



Money

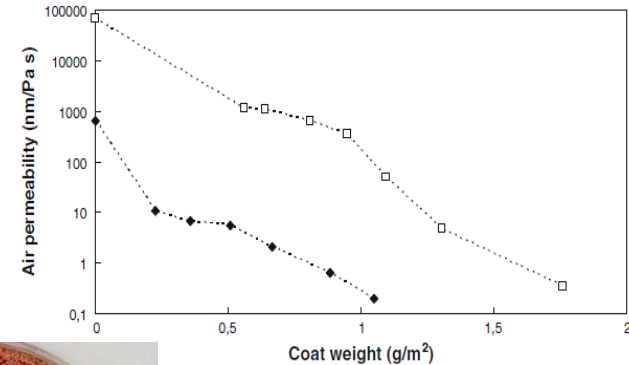
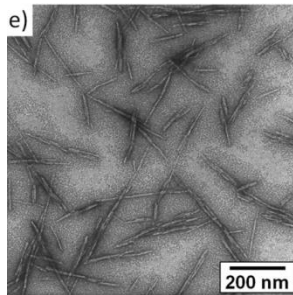
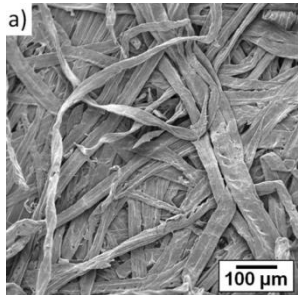


Knowledge

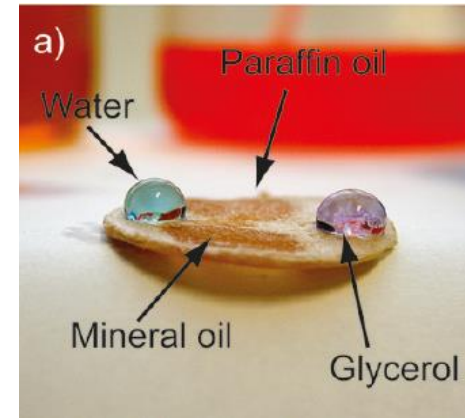


Innovation

Nanocellulose has many advantages

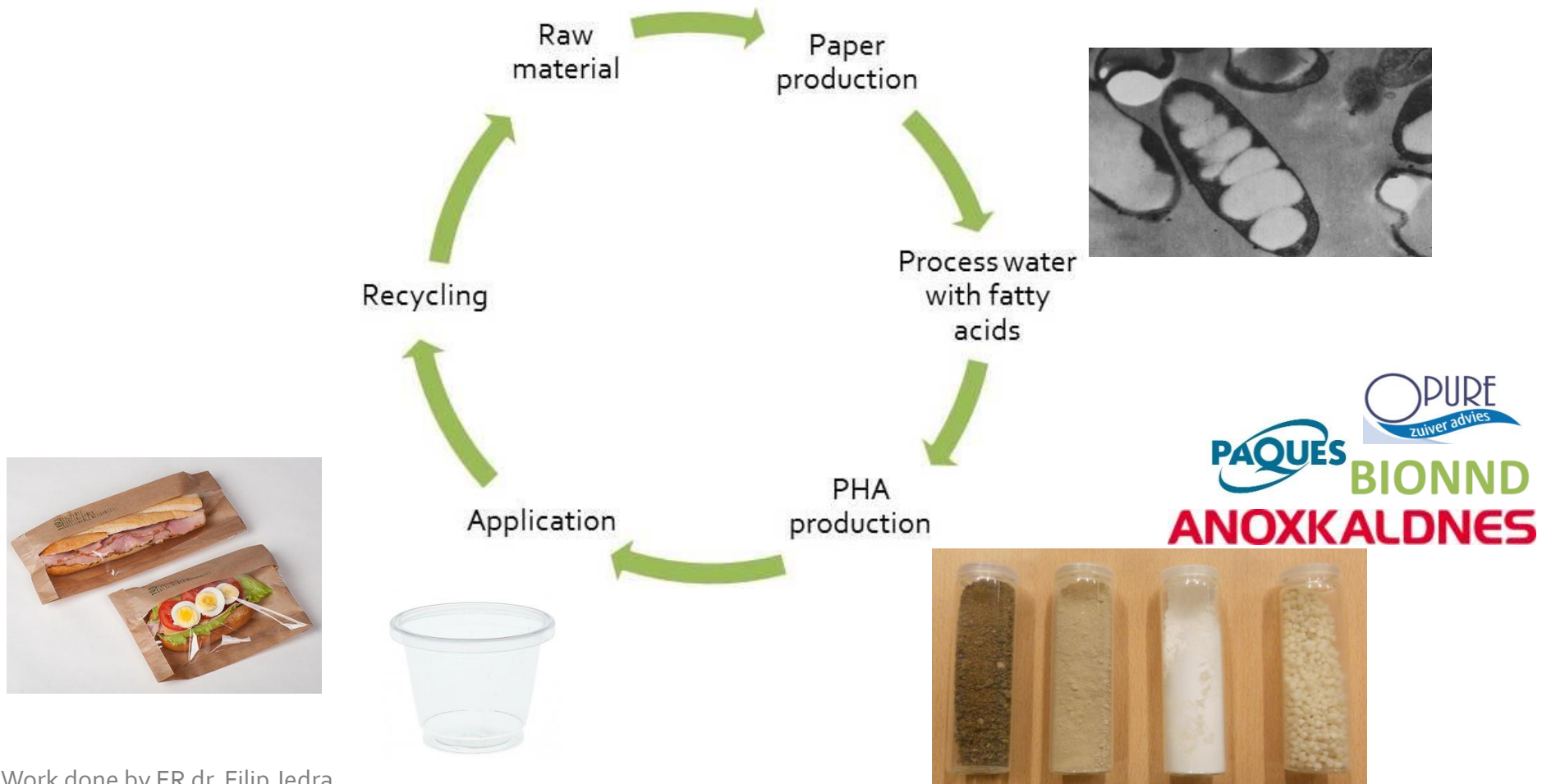


- Hydrophobic properties
- Antimicrobial
- Oil absorbance (lipophilic)
- Wavelength responsive
- Electrical conductivity



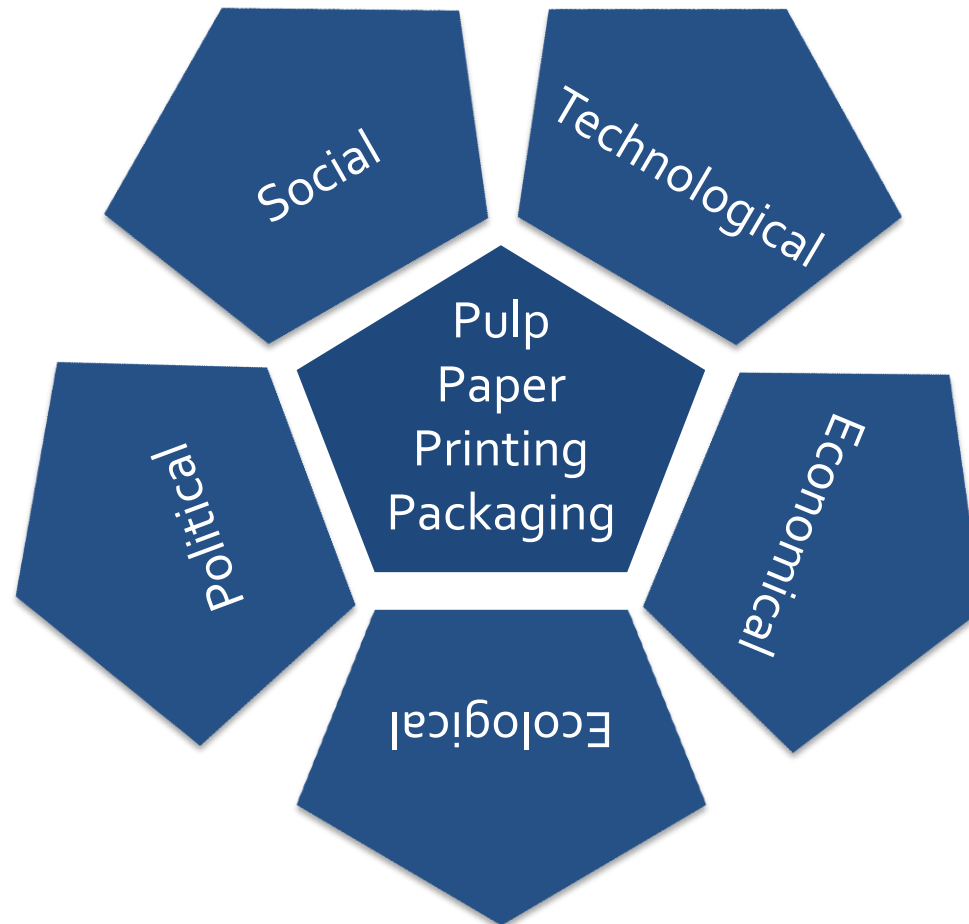
Work done by ER dr. Mindaugas Bulota

Bioplastic PHA has many advantages



Work done by ER dr. Filip Jedra

but successful industrial incorporation depends on several factors:



but successful industrial incorporation depends on several factors:

- Type of application (eg curtain coater, size press)
- Substrate characteristics and structure (eg flower wrapping paper, folding boxboard, solid board)
- Combinations with other surface treatments (eg barrier coatings and laminates)
- Coating thickness
- Coating evenness



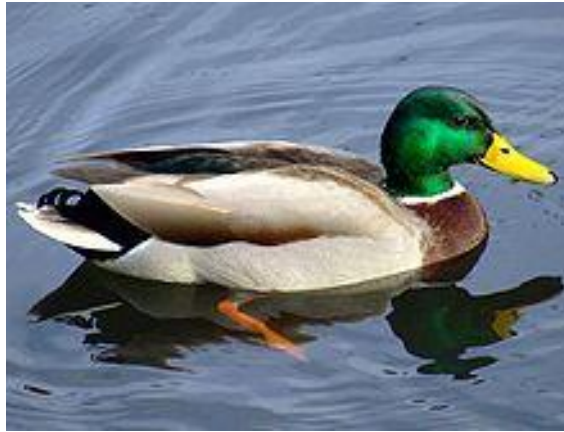
but successful industrial incorporation depends on several factors:

- Shift from costs towards opportunities
- Shift from (individual) cases to (integrated) concept
- Branding, customer bonding and Added value (for industry, but also society)
- Assess on multiple levels (fibres, active components, plastics) and on multiple benefits (business, society)
- Going from "Outside the Box" to "Beyond the Box"

but successful industrial incorporation depends on several factors:

- Environmental impacts (LCA)
- Fate of nanomaterials in paper recycling line
- Effects of reusing recovered paper in paper production lines
- Risk assessment and management

Our responsibility as developers



If it looks like a duck,
swims like a duck,
and quacks like a duck,
then it's a duck



Paper made
from limestone

• 100% compostable
• 100% recyclable

banner ink
www.bannerink.com
stone paper
ZERO
CARBON FOOTPRINT PAPER
Tree Free Water Free Bleach Free



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Outlook

- A revolution is on-going in material developments for new packaging concepts
- We have to explain to the society how our new concepts fit in current (recycling) systems

Outlook

uncertainty

clearness/focus



investigate &
understand

design (business model)
concepts

implement
(business model)



Thank you for your attention!

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