SElectiveLI

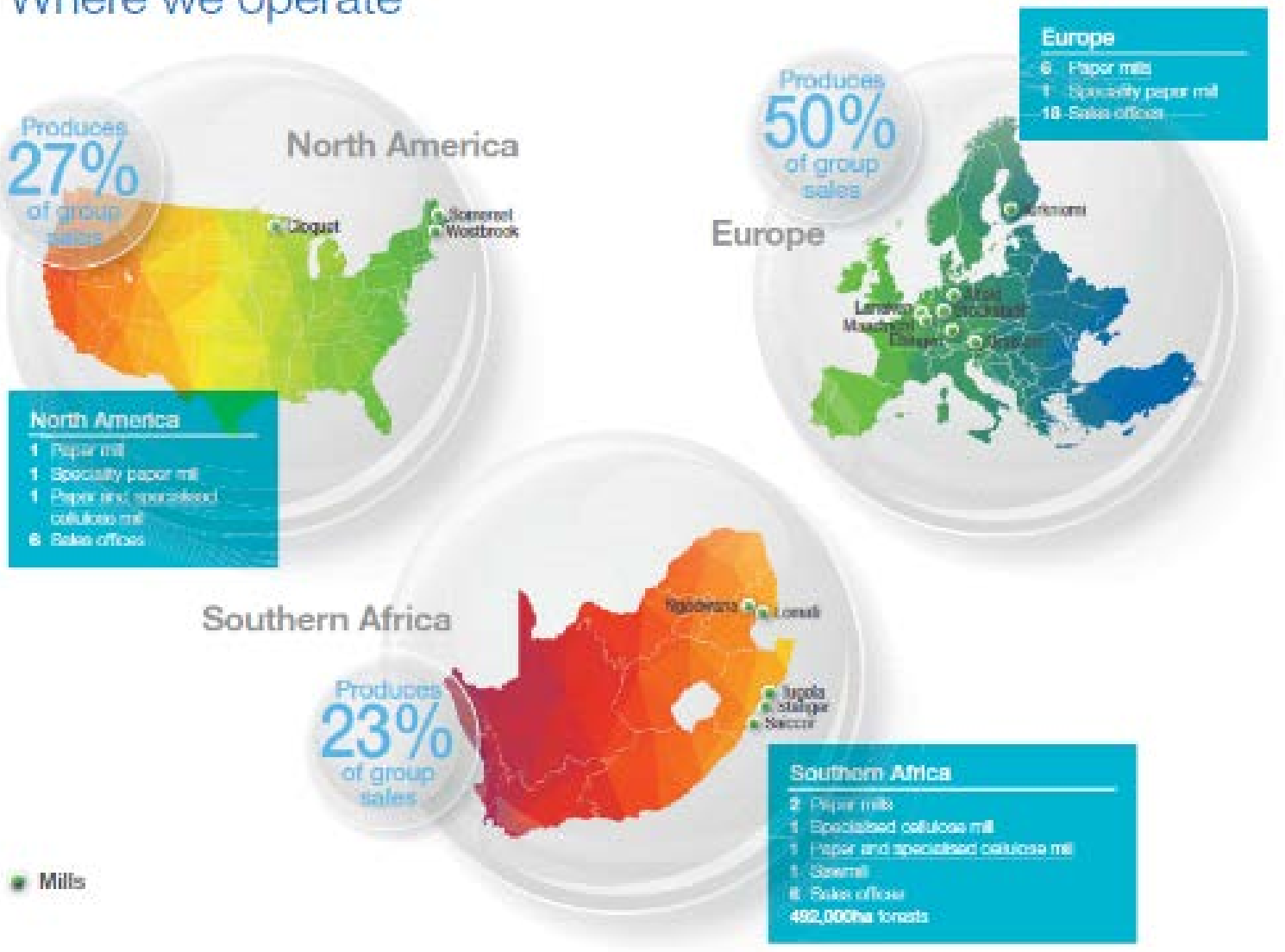
Stakeholderdialog „Biobased Industry“

5. November 2019

Wien

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 837276.

Where we operate



sappi
Inspired by life

Our business - Unlocking the full potential of trees

Making the most of a renewable, natural material

Managed forest

Cellulose					Hemicellulose	Lignin
						
Graphic papers Specialities and packaging papers	**Dissolving wood pulp**	**Fibre composites**	**Nanocellulose**	**Casting and release papers**	**Xylitol and chemicals from sugars**	**Chemicals from lignin**
Commercial print Product packaging Technical papers	Textiles Pharmaceuticals Cellophane	Automotive parts Furniture Audio speakers	Reinforcing agent Control release agent Viscosity modifier	Textures for materials Functional films Automotive wraps	Low calorie sweetener Toothpaste Recyclable plastics	Binding agent Dispersion agent Emulsion stabiliser

End use

Biobased Materials – Lignin

- The origin of Sappi's lignin business is in Europe and dates back almost **100 years**.
- Lignosulphonate is a highly soluble lignin derivative and a **product of the sulphite pulping process**.
- Lignin gives materials **stability** and has a **wide variety of uses** due to its binding ability, and dispersing, emulsification and sequestration properties.
- Referred to as a '**green binder**', it is used in the production of glass wool, chipboard, fertilisers and other products where lignin replaces the incumbent materials derived from petrochemical origin.
- Current market size **~1.2 Mio tpa**

Key Data

SElectiveLi is a
Conceptual Study of novel electrochemical processes using Lignosulfonates to produce bio-based monomers & polymers

Fact Box

- Type of action: Research & Innovation Action
- Value Chain: VC2 – forest-based
- Start date: 01 May 2019
- End date: 30 April 2023
- BBI JU contribution: € 2,497,224.00

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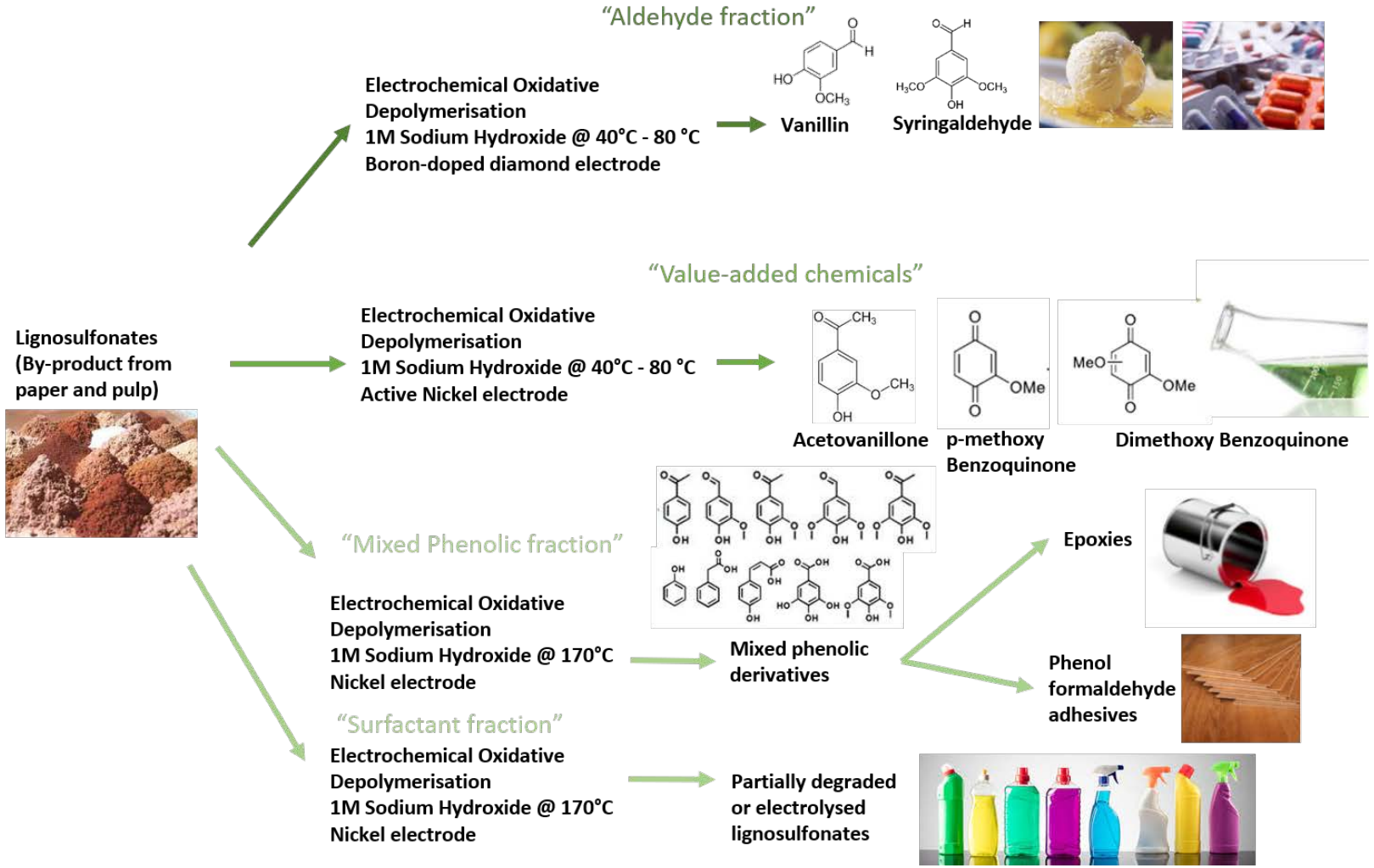

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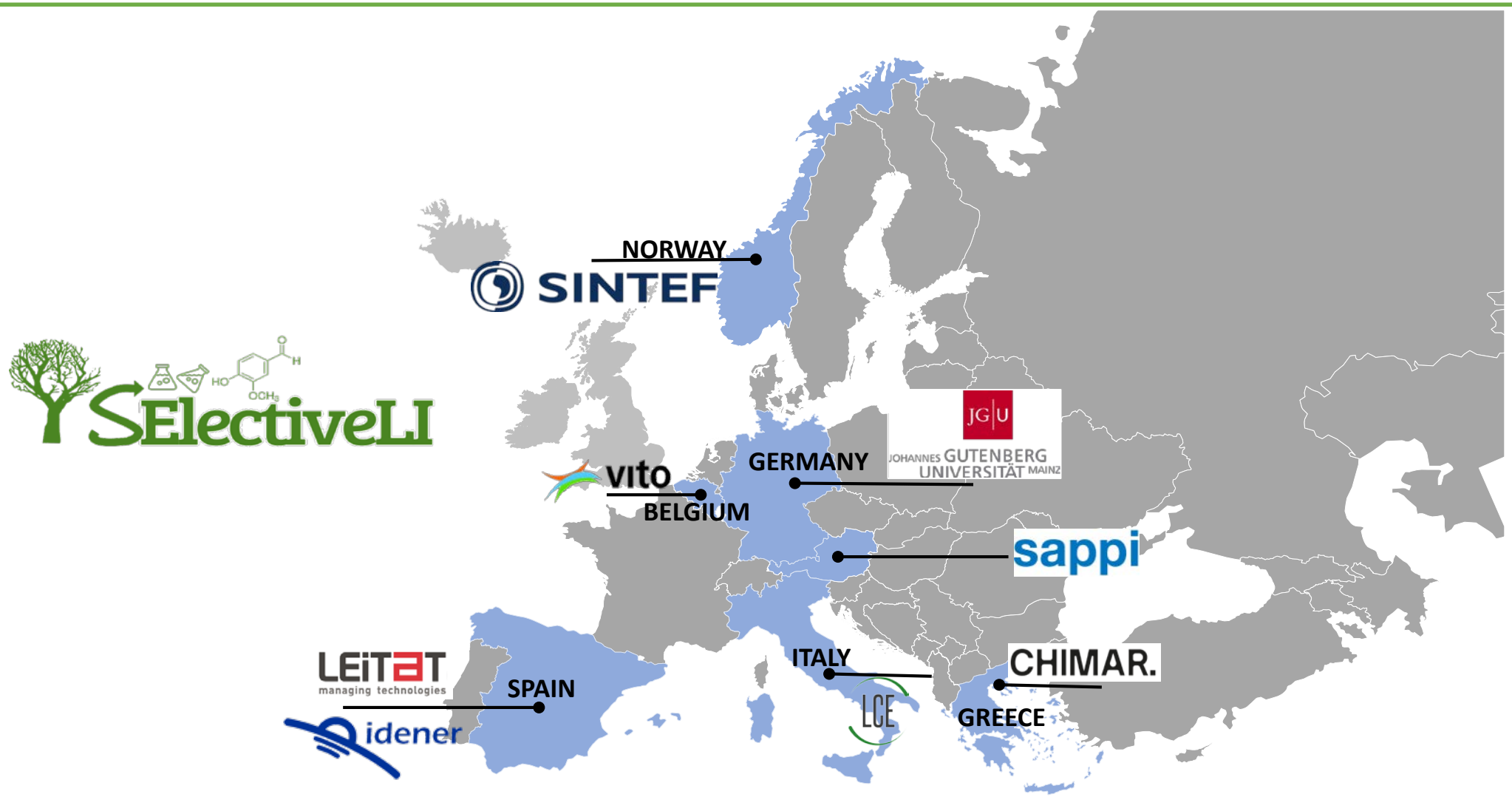

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What?

- Extraction of a range of aldehydes for potential food, adhesive, and pharmaceutical application
- Production of intermediates for conversion into polymers
- Development of downstream separation and purification processes
- Combination of electrochemical processes & surplus energy available via smart grids

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Meet Jana & Jesco at the Market Place

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