

Introduction and availability of forestry side streams from sawmills

Dimitris Athanassiadis, The Swedish University of Agricultural Sciences (SLU)



Interreg
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CIRCULAR ECONOMY

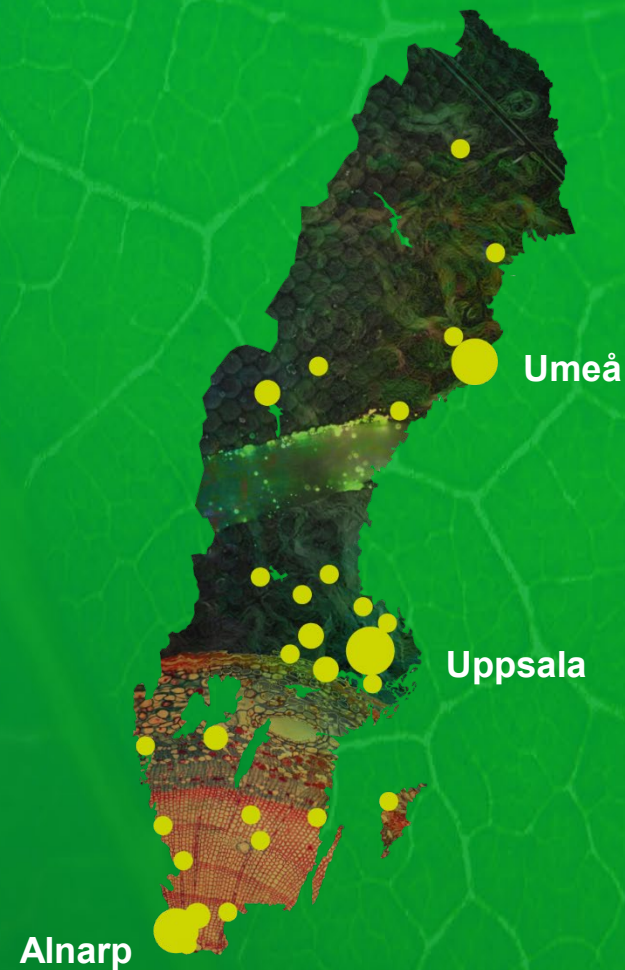
CEforestry

SCIENCE AND EDUCATION **FOR** **SUSTAINABLE** **LIFE**

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SLU IN SWEDEN

SLU is located at three principal locations in Sweden. We also conduct research, education, environmental assessment and collaborative activities at many research stations, experimental parks and campuses throughout Sweden.



Innovation in forestry biomass residue processing: towards circular forestry with added value products

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CIRCULAR ECONOMY

CEforestry

Short name:

CEforestry

Programme priority:

Climate-neutral society

Programme objective:

Circular economy

Duration:

01/01/2023 until 31/12/2025

Project coordinator:

SLU

Contact:

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Goal:

To develop solutions for high value-added products from low value underutilized forest biomass residues in BSR

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Expected results:

A map of forestry side streams from sawmills in BSR

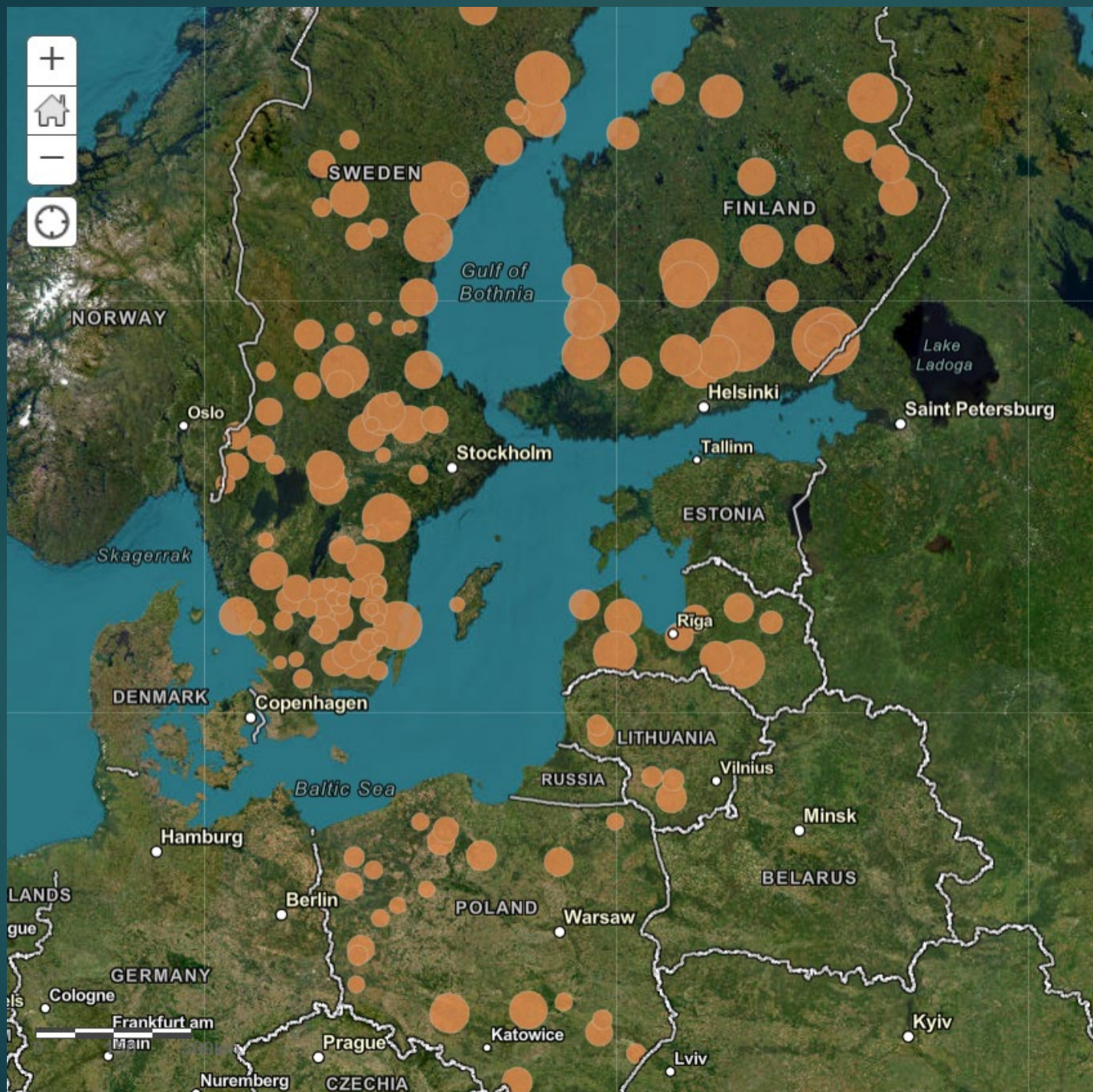
Wood ash recycling planning tool

Optimized extraction methods for bark and needles;

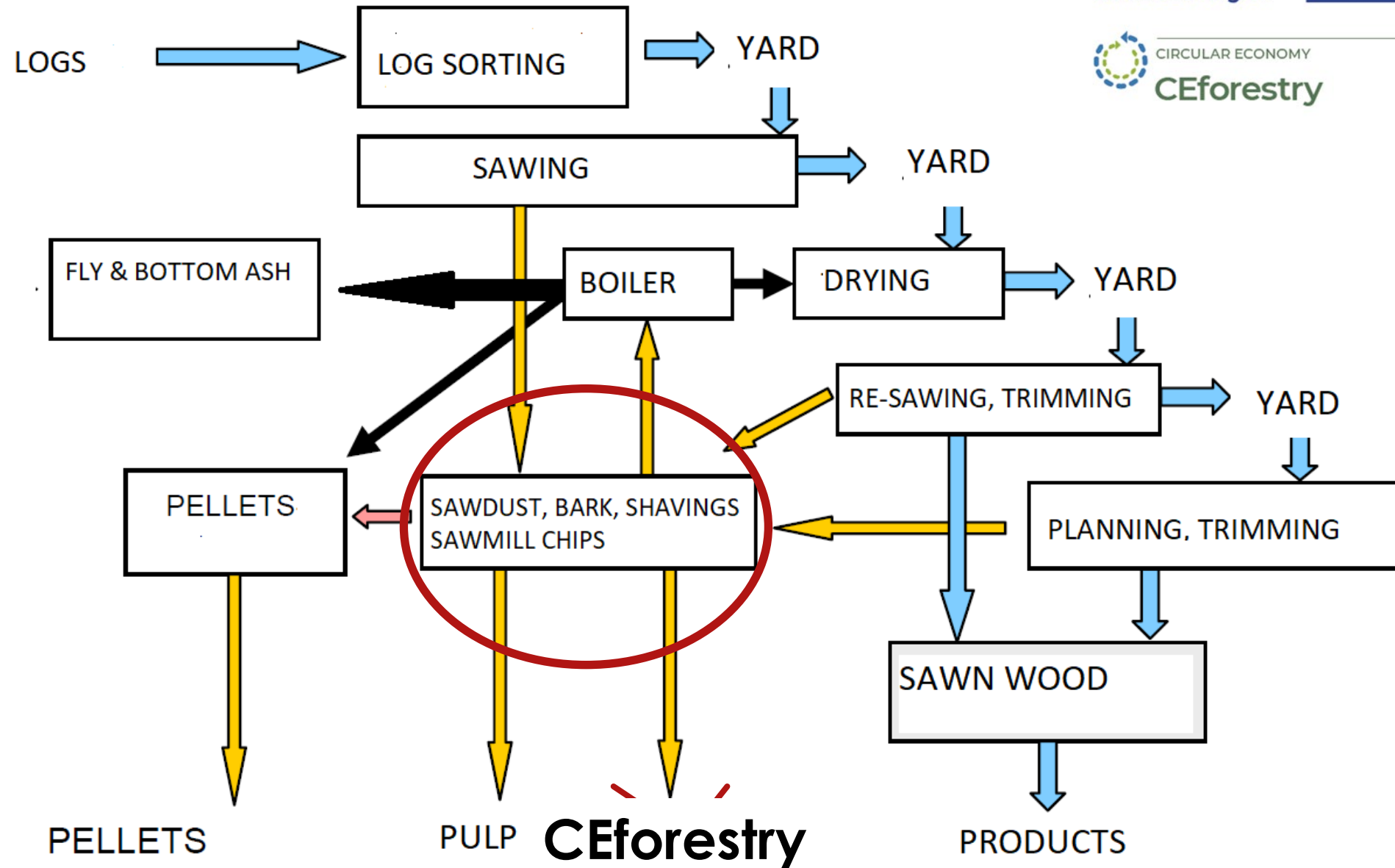
Techno-economic evaluation for selected processes

Market potential of selected biomass-based products

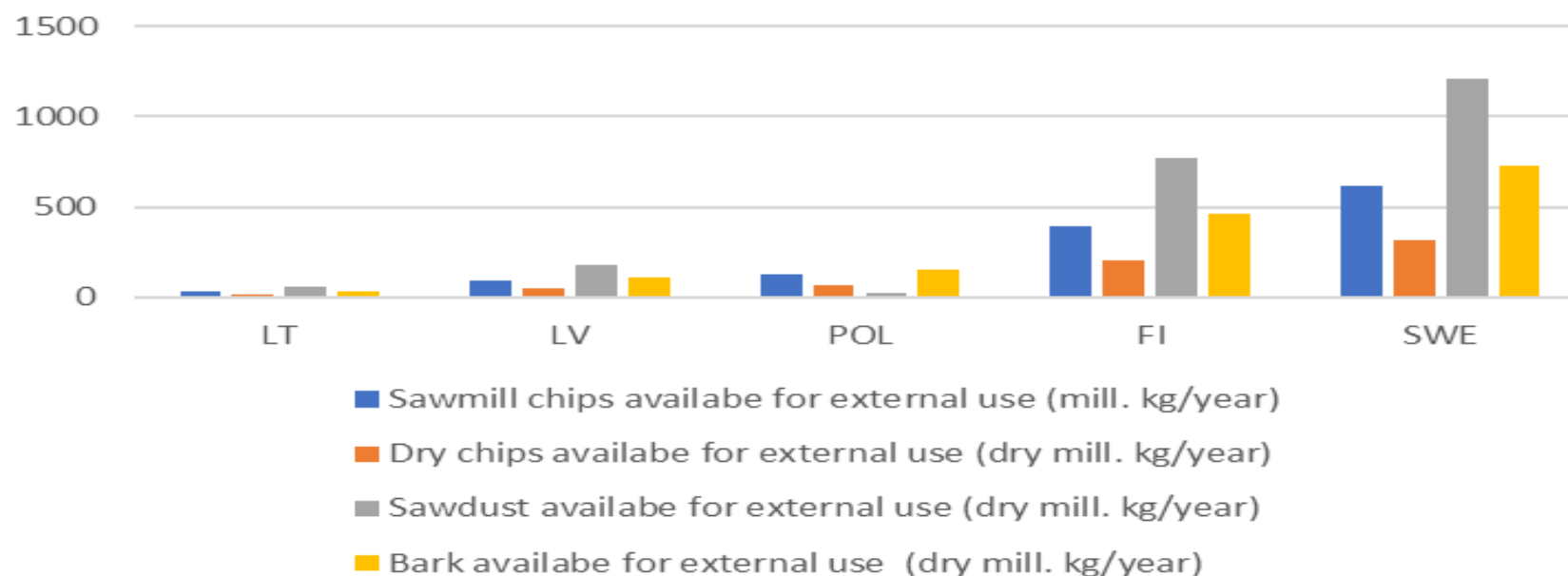
Cebusiness model and policy recommendations for utilizing forestry side streams in high value-added products



1. How much by-products are produced?
2. How much by-products are used internally for heat production and pellets?
3. How much is available for production of chemicals?



Available forestry side streams from saw mills



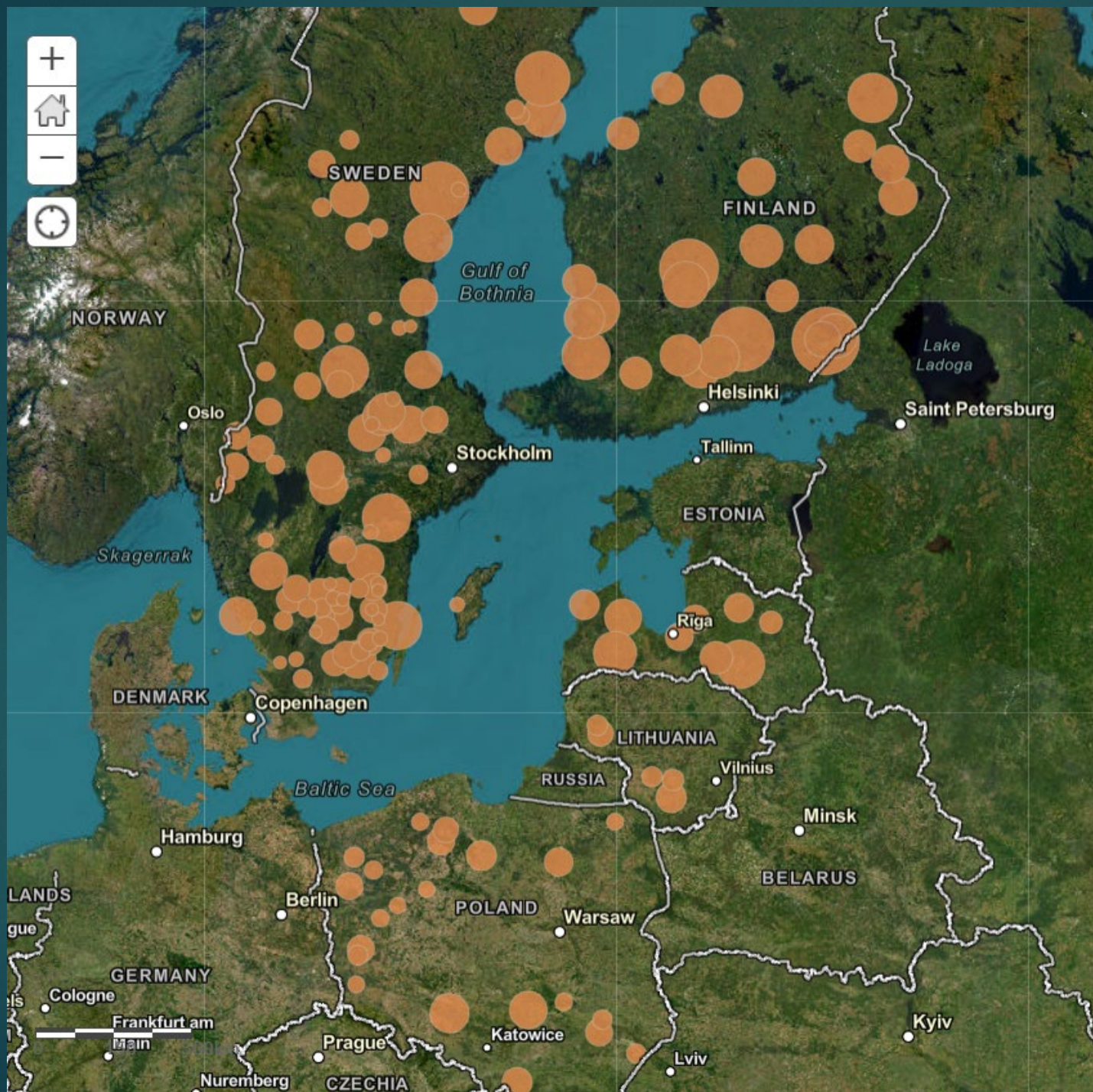
1 m³ solid gives

0,75 m³ loose sawmill chips

0,1 m³ loose dry chips

0,3115 m³ loose sawdust,

0,4 m³ loose bark



1. Gives a hint on **where to locate** a facility that will produce chemicals.

Best is to build the facility close to a bigger sawmill or integrate the new facility with a sawmill