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# Production and processing knowledge and technologies for efficient use of bio-resources and side-streams

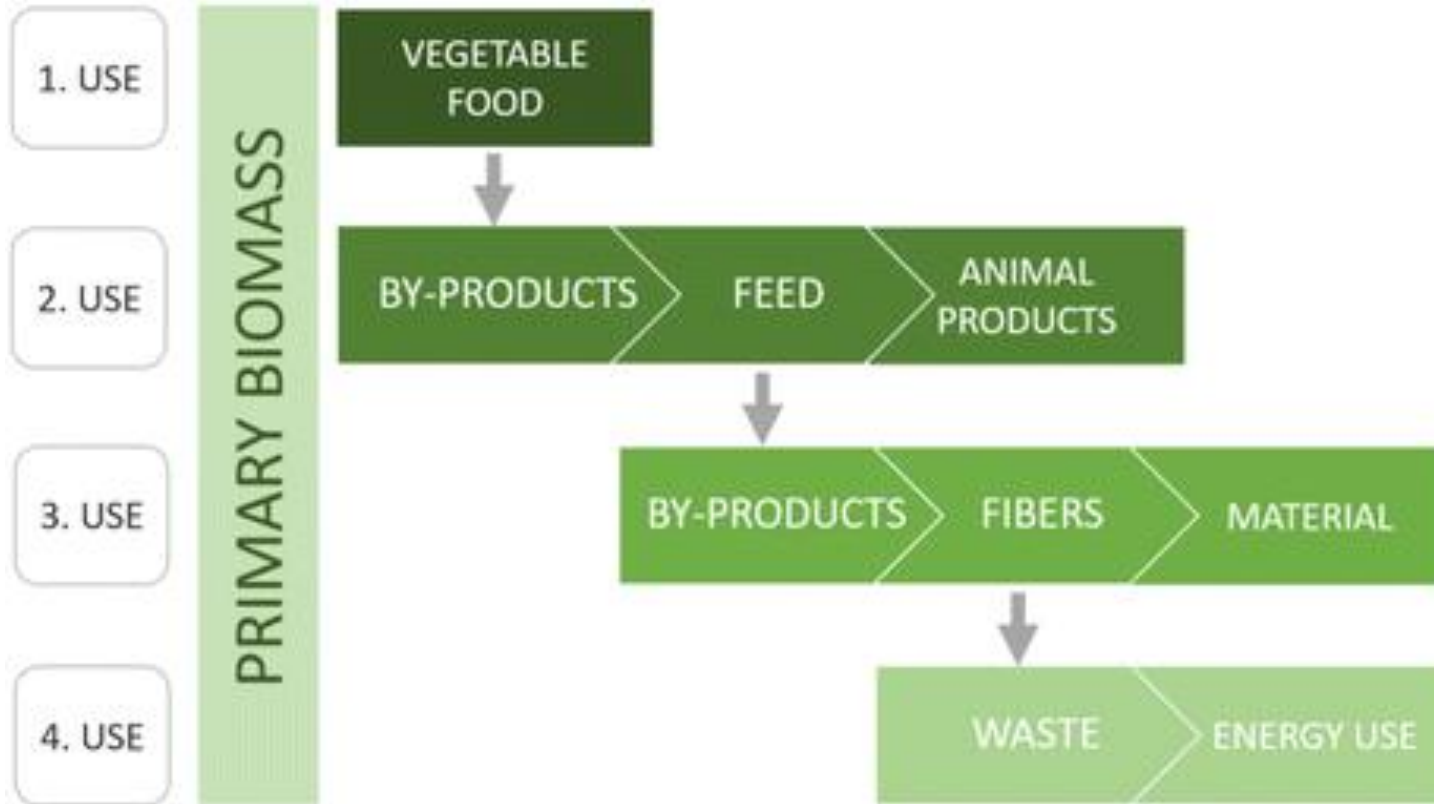
**Working session**

Moderators: assoc.prof. Dina Popluga,  
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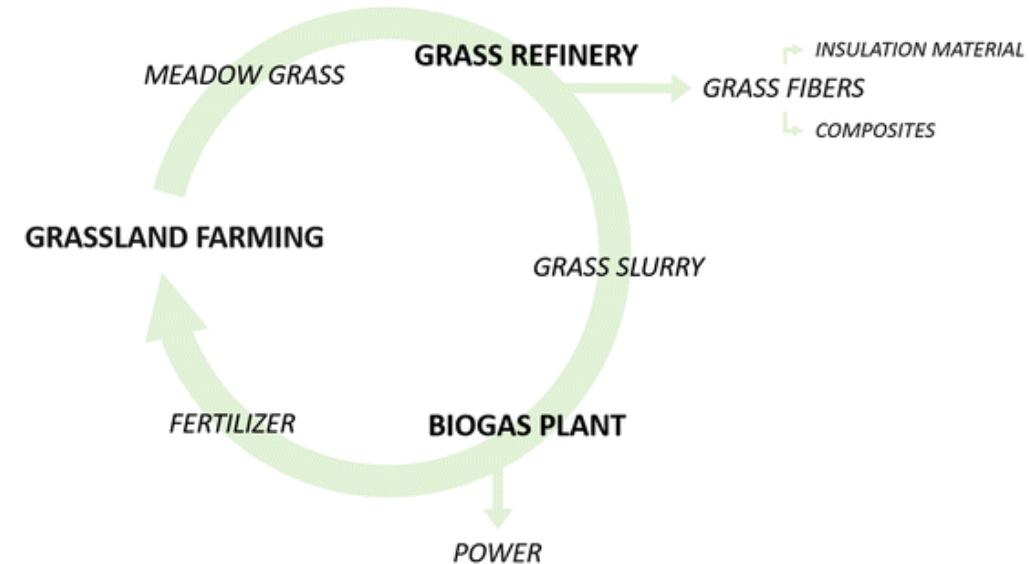
# What characterizes the efficient use of bio-resources and side-streams?



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## Example: grass biorefinery

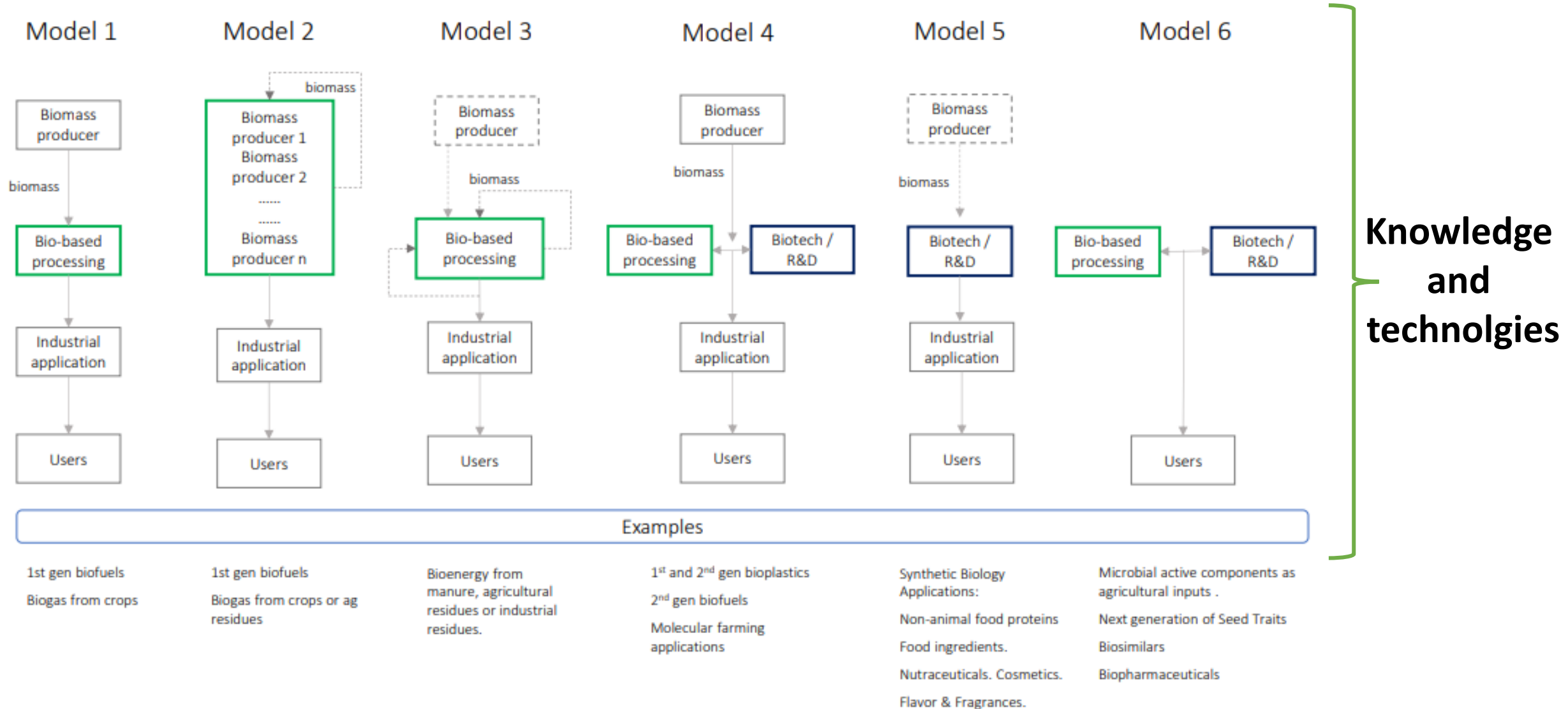


Cascading of primary biomass uses

# Examples of the use of bio-resources and side-streams



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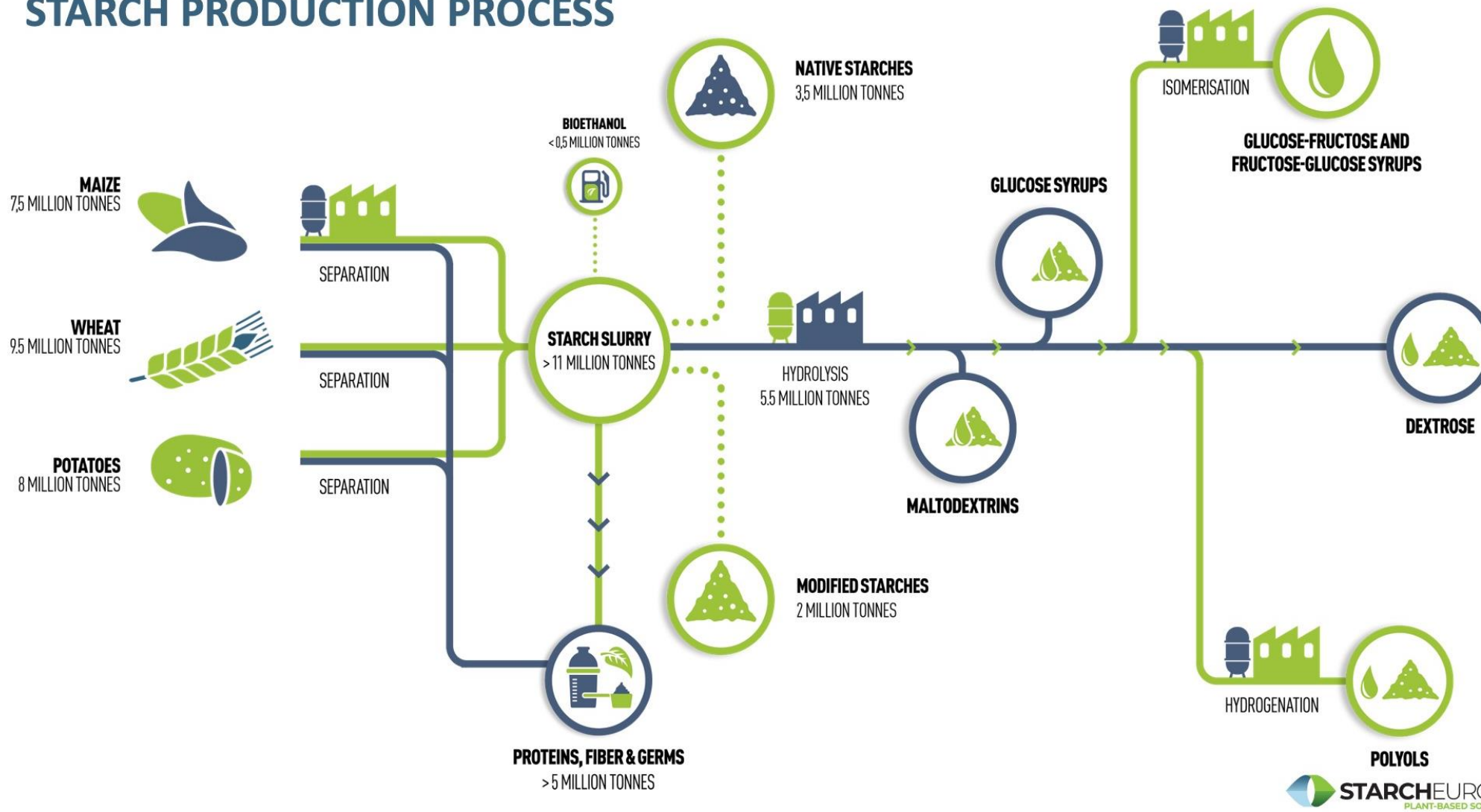
# Example from European starch industry



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## STARCH PRODUCTION PROCESS



Pioneer of the bioeconomy, producing renewable plant-based ingredients for food, feed, fuel and industrial applications



# Questions to discuss in this work session:



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- What **political factors** promote more efficient use of bio-resources and side streams?
- What **economic factors** promote more efficient use of bio-resources and side streams?
- What **social factors** promote more efficient use of bio-resources and side streams?
- What **technological factors** promote more efficient use of bio-resources and side streams?

# Efficient use of bio-resources and side streams



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**Political factors**

**Economic factors**

**Social factors**

**PEST  
analysis**

**Technological factors**