



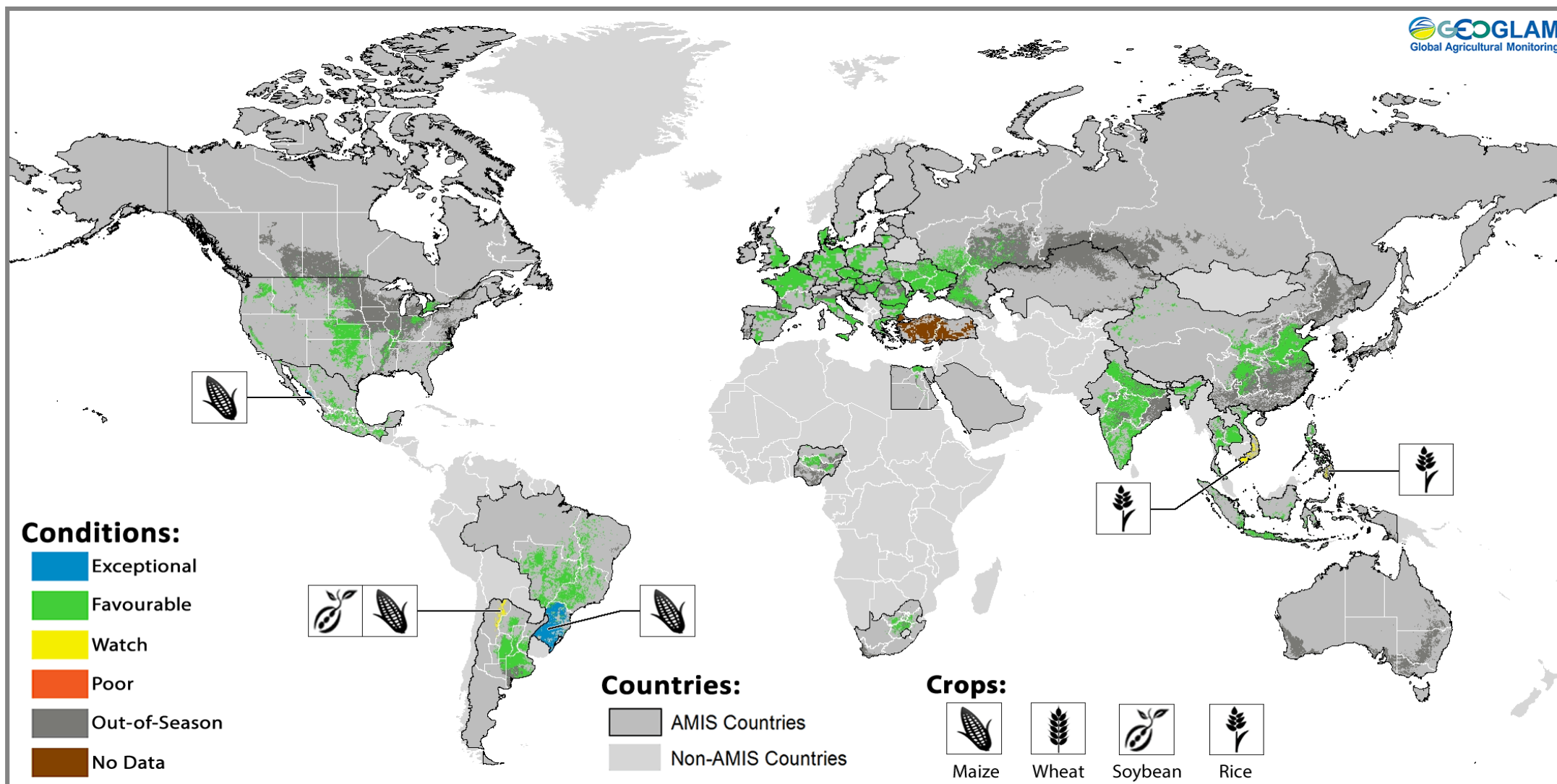
Max Schulman

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Plant ETP EU Green week 2025

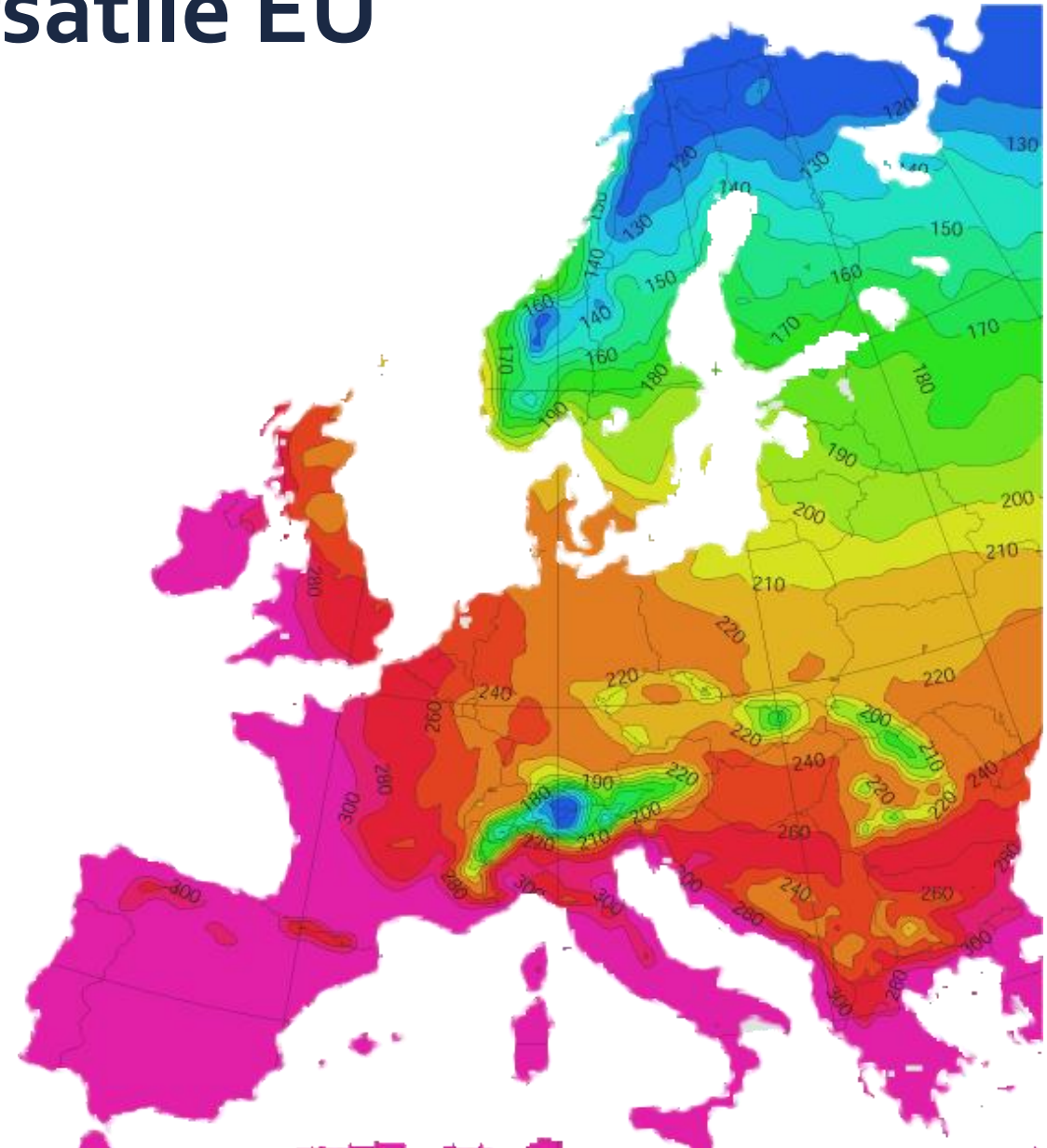


Huge difference in growing condition and cropping season



The very versatile EU

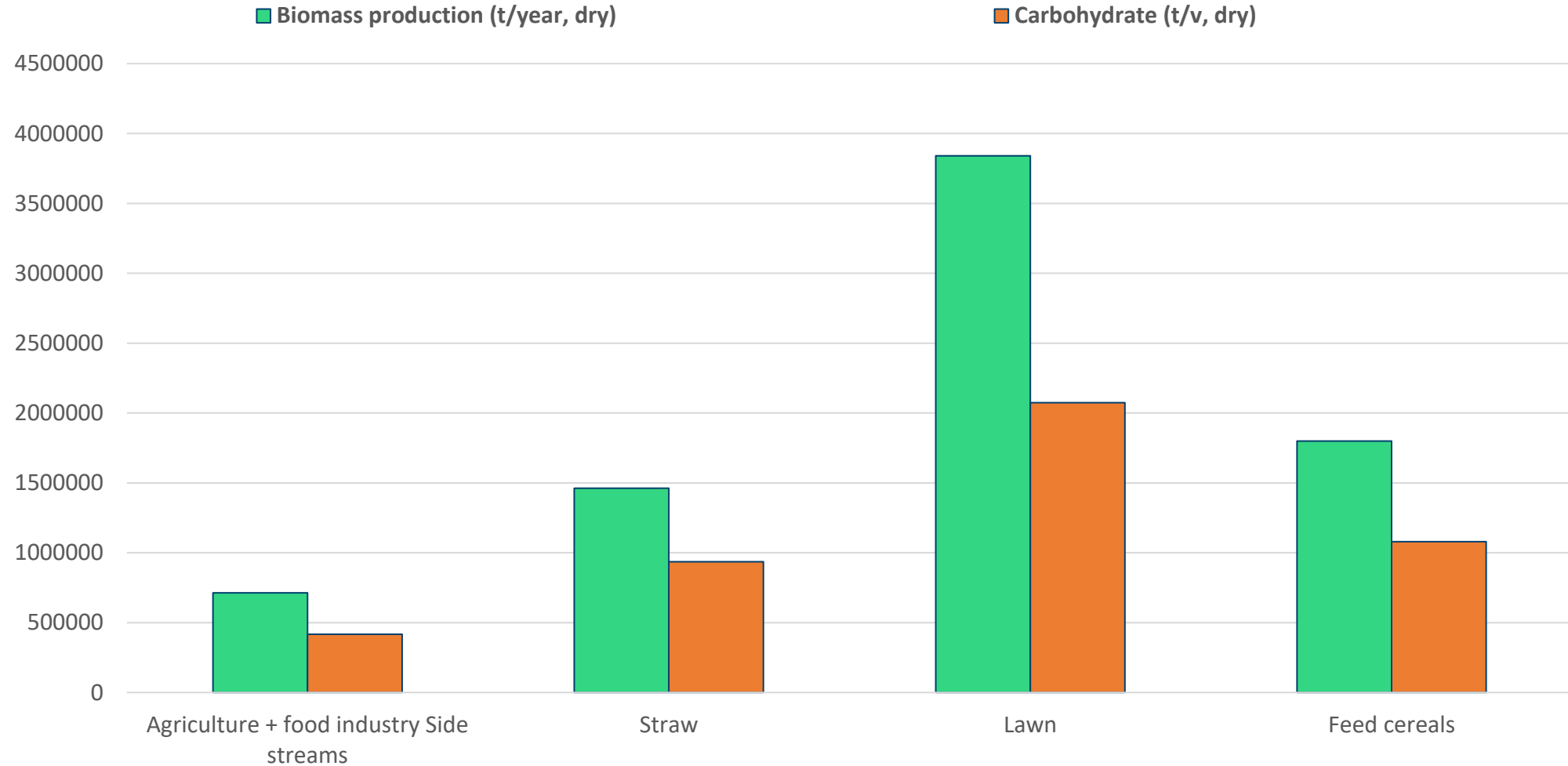
- Geographical location a great challenge for plant breeding → we need the NGT as one of the tools
In the toolbox → asap!
- Growing season (in EU) 120 – over 300 days
- Temperature sum:
 - Finland 1 300 - 400 degrees
 - Germany 1600 – 2 000 degrees
 - Spain 2 400 – 2 800 degrees
- Natural conditions reflected especially in yield levels
but also in the quality → also biomass yield
- The day length is one of the most challenging on !



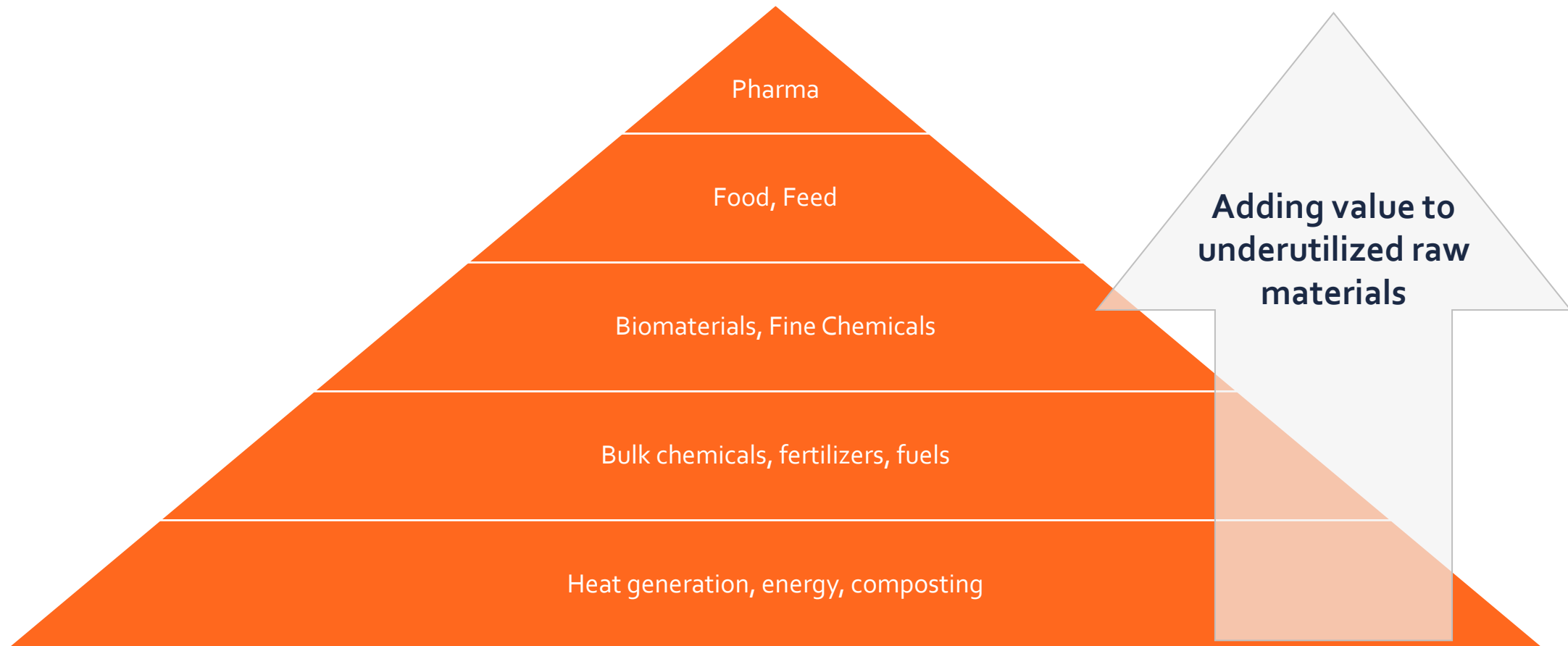
Main areas for the future → Farmers wishlist:

- Increase the yield capacity of the plant (only +15% in the last 15 years)
- New cover and intermediate crops → Nitrogen fixing, new raw materials
- Breeding for a purpose → Food, Feed, biomass and other industrial use → **active use of every ha → more value / ha** → keeps the fields in crop cover with a value → full chain involvement to innovate → **legislation to support not suppress** → simplification, profitability → competitiveness
- Draught, water and winter resistance → very unstable growing conditions
- Crops that fit better to new tillage methods → ex. Direct seeding, mixt and double cropping (biomass) more value
- A better management of the Nitrogen fertilization. N fertilization the right dose at the right time at the right place would contribute to the objective of CO₂ reduction, better quality and higher yields → Less costs (a big possibility) → **Farmers needs in focus!**

Examples of domestic plant-based biomasses from agriculture and the food industry in Finland



Cascading use of raw materials and side streams for added value products



The future is showing new light, Thx!

