EU SOIL DAY

#EUSoilDay

SoilHACK - Living lab Innlandet County – Oslo Region

Speakers: Erik Lagethon, Head of unit Departement for business development and international cooperation and Ingvild Aarhus, Project and R&D leader Skåppå AS

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BRUSSELS 6NOV23

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Región de Murcia

European Committee of the Regions

Gobierno de España · Ministerio de Ciencia e Innovación

CDTI Innovación · Spain Office for Science and Technology · SOST-Brussels

ERRIN European Regions Research and Innovation Network

HuMUS Healthy Municipal Soils

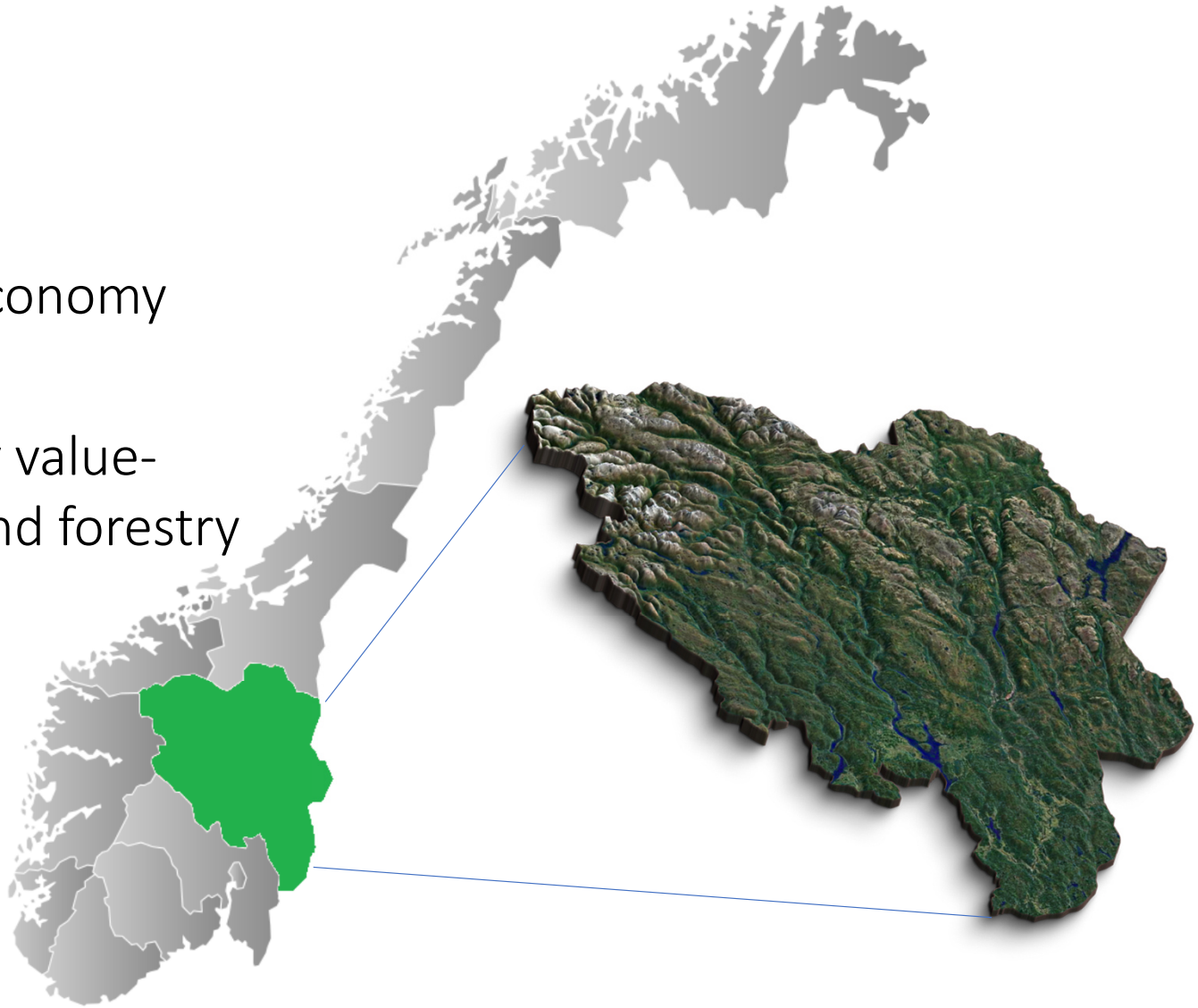
SoilHACK - Living lab Innlandet

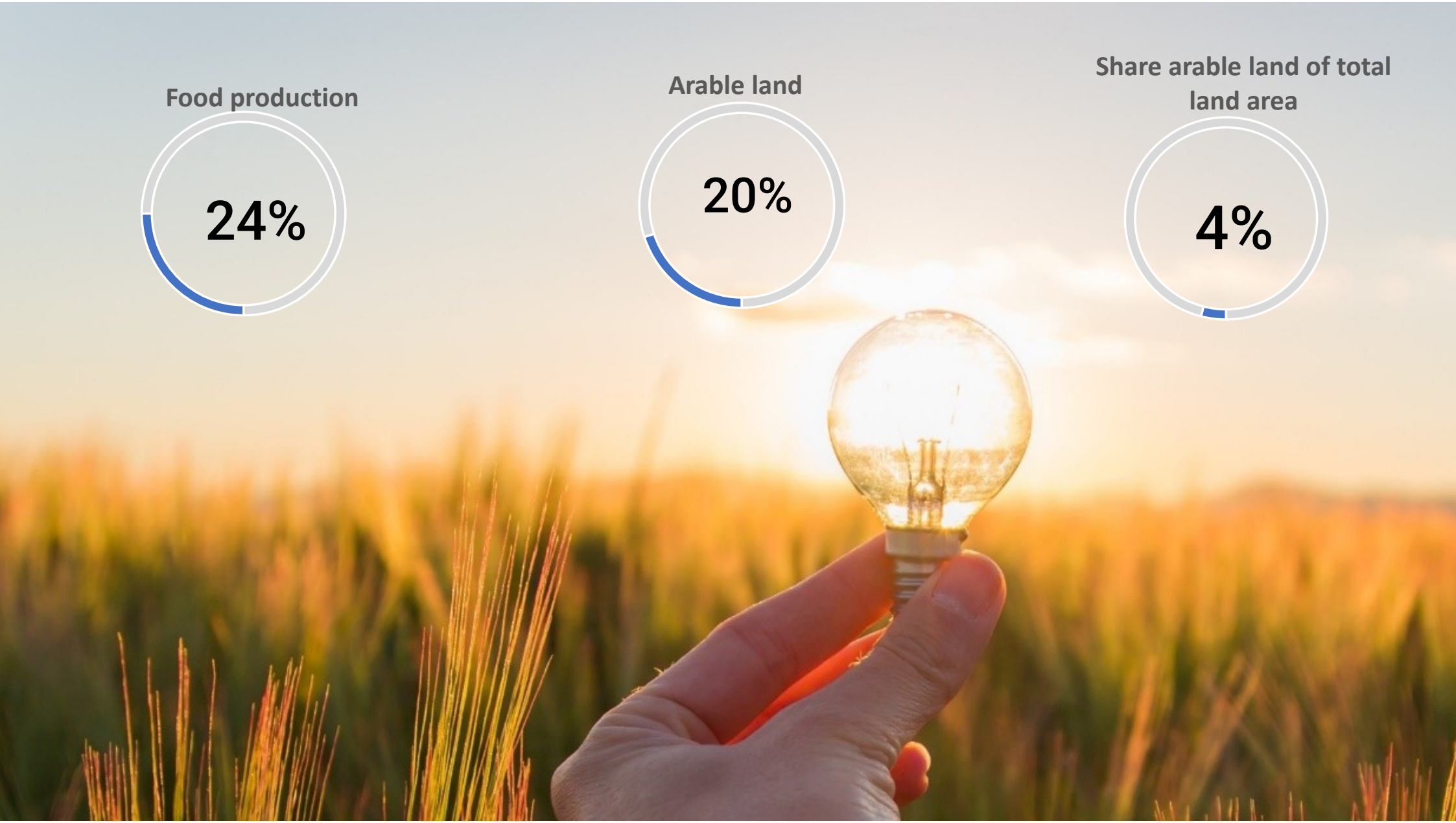
Erik Lagethon, Head of unit
Departement for business development and international cooperation

Ingvild Aarhus, Project and R&D leader
Skåppå AS

Innlandet

- Country’s largest bioeconomy region
- Complete bioeconomy value-chains in agriculture and forestry
- Important for regional development




Food production
24%
Arable land
20%
Share arable land of total land area
4%

Soil Structure & Soil Health: The Cornerstone of Norway's Future Food Production

"Good soil health signifies robust agronomy, forming the foundation for enhanced yields and the well-being of crops, plants, animals, and humans alike.»

- Sustainability
- Water management
- Nutrient uptake
- Disease resistance
- Climate resiliance

Impact of Climate Change on Norwegian Agriculture

- **Increased Variability**:
  - More frequent and extreme weather events such as heavy rainfall and dry spells.
- **Temperature Shifts:**
  - Warmer temperatures lead to shifts in growing seasons, affecting crop yields.
- **Drought and Flooding**:
  - Severe droughts affecting water availability and soil moisture, followed by periods of intense rainfall causing flooding.
- **Economic Implications**:
  - Economic losses due to reduced crop yields, increased costs for irrigation, and damaged infrastructure.

Living Labs Innlandet : Combatting Climate Effects through Soil Structure Improvement

Enhanced Water Retention:

- Well-structured soil can retain water during droughts and reduce the need for irrigation.

Improved Drainage:

- Reduces the risk of waterlogging and soil erosion during heavy rainfall.

Carbon Sequestration:

- Healthy soils can capture and store carbon dioxide, helping to mitigate greenhouse gas emissions.

Resilience to Climate Change:

- Building a robust soil structure can help crops withstand the adverse effects of changing climate conditions.

Thank you for your attention

Foto: Bernt M. Tordhol

Innlandet
County Council