ETSI
The Standards People

**IoT Conference 2023**

COMMECT
**Building Digital Bridges for Rural Areas**

Presented by: Srdjan Krčo

DUNAV NET

06/07/2023

# DUNAV NET

## COMMECT

# Rural communities: bridging digital divide.

Irrigation optimization

Pest and disease management

Crops analysis

agro NET

by DunavNET

Silo management

Machinery usage monitoring

Livestock management

Insects' monitoring

AARHUS UNIVERSITY
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

IBLA
Institut für Biologisch Landwirtschaft an Agrarkultur Luxemburg asbl

AALBORG UNIVERSITET

Klosser Innovasjon

INN
Inland Norway University of Applied Sciences

SES

TECHCOM

VIVERIS

HUAWEI

LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY | LIST

telenor

Solar Agro
Zemljoradnička zadruga

DUNAV NET

LUXSENSE geodata

TNO innovation for life

PADBORG TRANSPORTCENTER

SeAMK
SEINÄJOEN AMMATTIKORKEAKOULU
SEINÄJOKI UNIVERSITY OF APPLIED SCIENCES

**5 Living Labs** Multi-Sector | Multi-Actor

LUXEMBOURG
**Digitalisation of Viticulture**

NORWAY
**Connected Forestry**
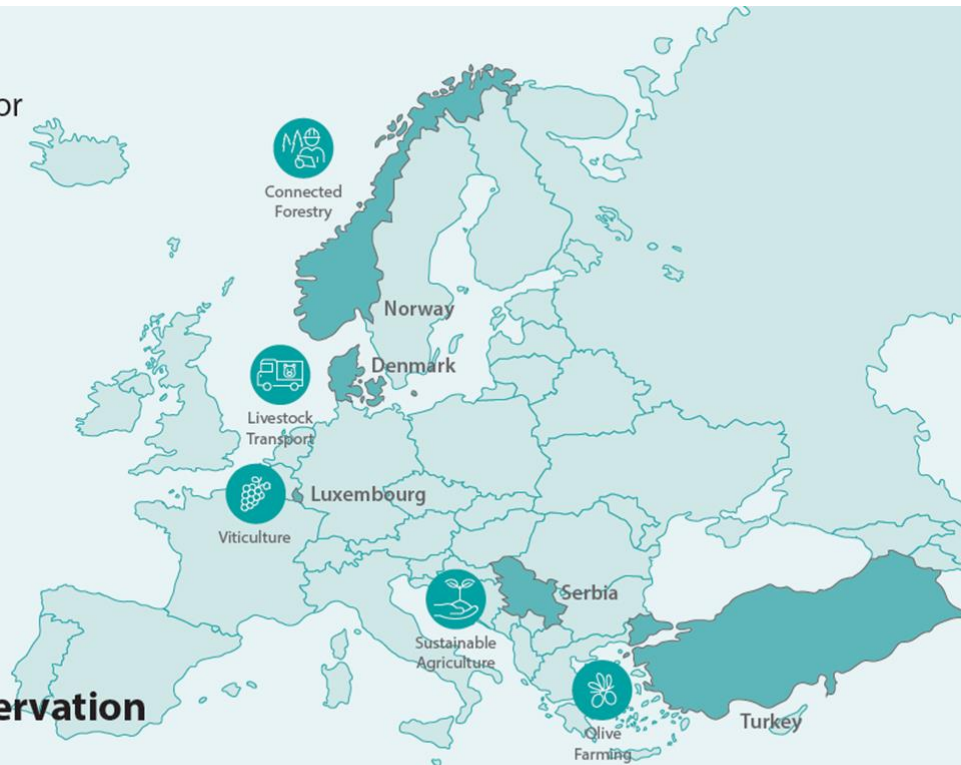
DENMARK
**Connected Livestock Transport**
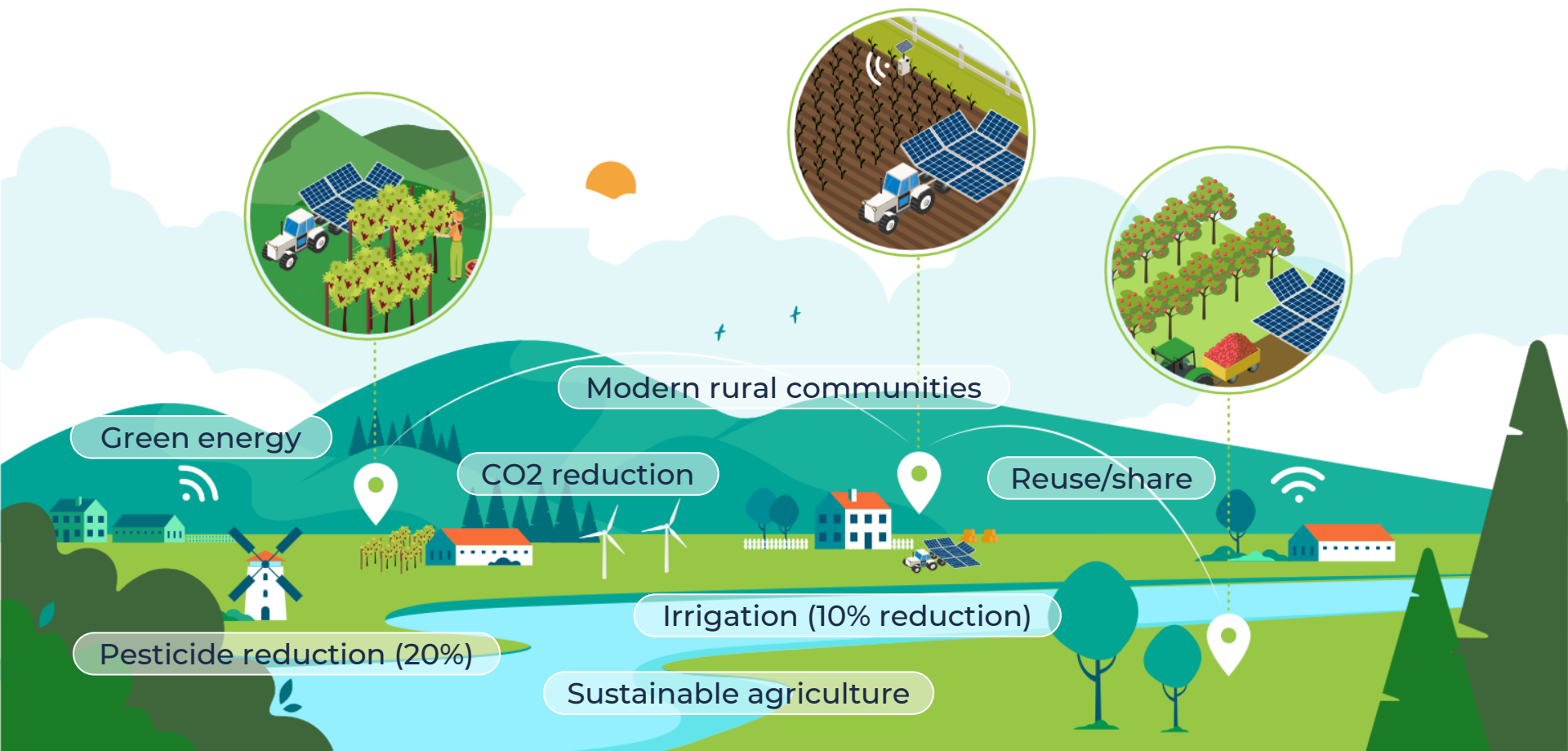
TURKEY
**Smart Olive Tree Farming**

SERBIA
**Sustainable Agriculture and Preservation of Natural Environment**

# Portable, mobile, smart solar plants for rural communication and digital solutions needs

## Step #1
## Mobile/portable solar generators

**The basis for creation of a shared rural infrastructure**

- Electrical energy: generation, where and when needed

- Connectivity: LoRaWAN gateway + 4G/5G router

- EdgeML: ML inferencing/computing device

- Sensors (weather stations, video cameras, soil moisture, etc.)

COMMECT
101060881

COMMECT
101060881

DUNAV
NET

Solar Agro
Zemljoradnička zadruga

COMMECT

**Step #2**
**Shared environment monitoring platform**

**Devices deployed, providing information to the community**

- Air quality monitoring

- Water quality monitoring

- Noise level monitoring

**Step #3**
**Shared digital agriculture platform**

**agroNET platform – data gathering, visualization and analysis**

- Irrigation advices, disease predictions and advices, machinery tracking/utilization optimization, etc.

- Driving/managing irrigation equipment

**Step #4**
**Shared community platform**

**Decision support tool – farmers' "co-pilot"**

- Central place for exchange of data, best practices and advices

- Collective data monetization bargaining power

- AI-based (LLM) decision support tool as a foundational block of the platform

**Contact:**

srdjan.krco@dunavnet.eu

www.dunavnet.eu
www.digitalfarming.eu

Home - Commect (horizoneurope-commect.eu)