



Smart agri-food Solutions

More info

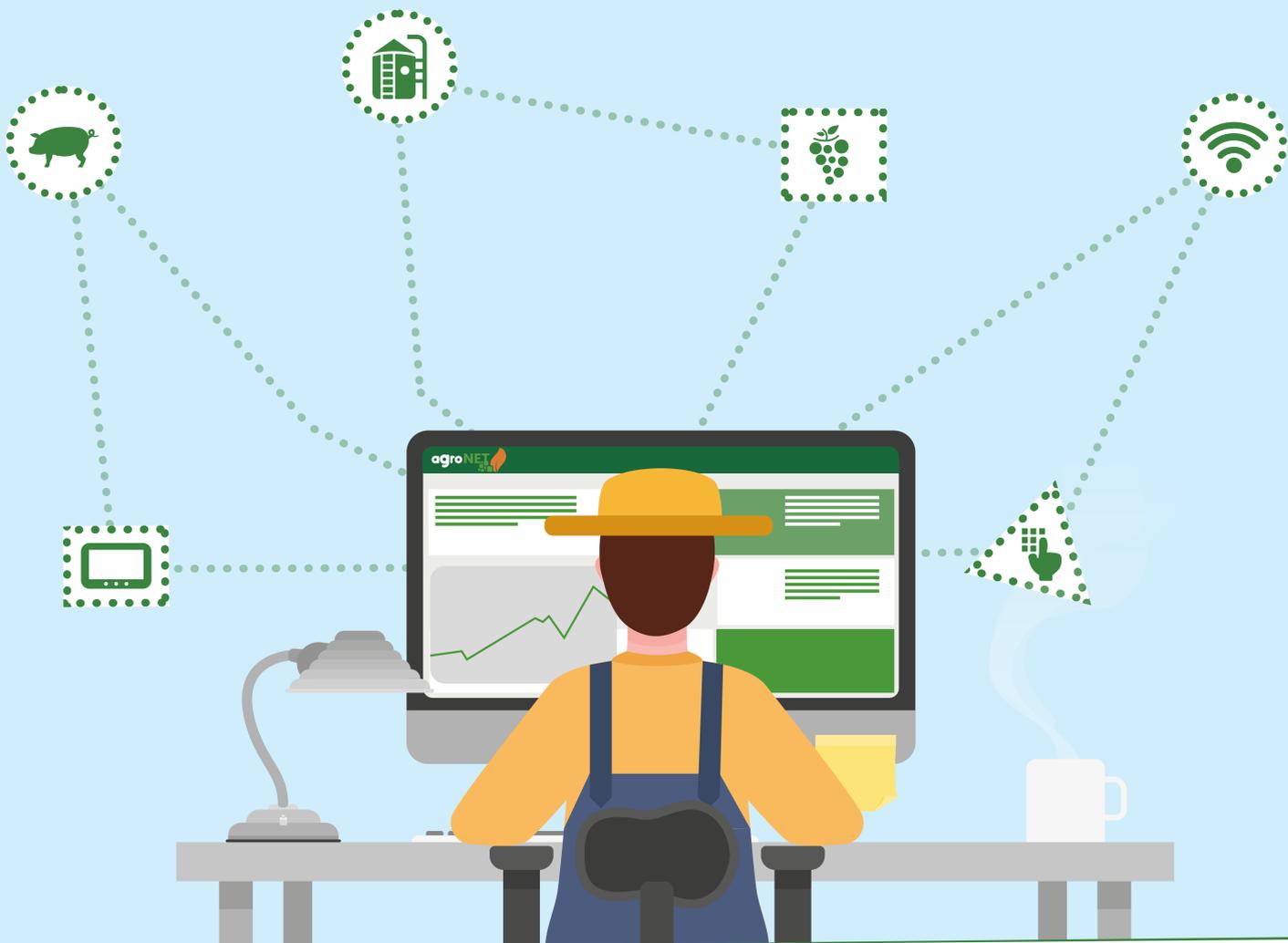
www.digitalfarming.eu

www.dunavnet.eu



➔ Turnkey, packaged IoT solutions

Digital farming platform
from farm to fork



agroNET is a smart agri-food framework comprising a set of interoperable modules designed to enable smart agriculture service providers, system integrators, mobile operators, agriculture machinery vendors and livestock service companies to rapidly enter the smart agriculture market and start offering new services.



agroNET comes pre-packaged into several configurations tailored for use in different farm types. Other packages, including implementation of platform extensions, are available on request.

agroNET packages have it all: sensors, data loggers, data analytics modules, reporting, web and mobile apps, chatbots, support and training.

agroNET is used as:

- a farm decision support tool enabling holistic farm management and just in time support to farmers
- a farm interoperability hub, enabling data acquisition from farm assets' (tractors, machinery, irrigation systems, diesel generators, weather stations, insect traps, sensors etc.) and their monitoring

The power of ecosystem

Turnkey IoT solutions cannot be built by individual companies; a strong ecosystem is required to rapidly design and implement efficient solutions providing value to the users. Over the years, we have built such an ecosystem, gathering partners with complementary expertise necessary to create powerful digital agriculture solutions, from hardware components to cloud platform, domain-specific data analytics and field support and maintenance.



agroNET functionalities

Decision support guidelines and instruction for optimal crop' growing and raising livestock provided through set of functionalities.

Crop production

- Pest and disease prediction
- Insects monitoring
- Irrigation optimization
- Frost prediction
- Satellite based fields monitoring
- Satellite based soil sampling and variable fertilizers maps
- Asset and machinery tracking
- Activity book
- Greenhouse management

Livestock production

- Weight estimation and behavior analysis based on video recordings
- Early detection of health issues
- Environmental conditions and parameters optimization
- Activity book
- Production success analysis
- Best practice guide
- Economy assistant
- Expert advice in problem solving
- Feed mixture optimization
- Asset and machinery tracking

Storage management

- Grain storage management
- Feed storage management



Preconfigured packages

Vineyards/orchards

For healthy apples and digital wine



Arable crops/vegetables

Keeping crops healthy and yields increasing



Greenhouse management

Hot, cold, humid,...monitor and control



Silo management

Grain in, elevate, grain out, top quality



Asset monitoring

Day and night, know where and how it's used



Feed storage management

Improved service, reduced CO₂ emissions



Feed mixture optimization

Ingredients and costs, mixed and optimized



Poultry farms

Happy chicken, happy farmers



Pig farms

Happy pigs, happy farmers

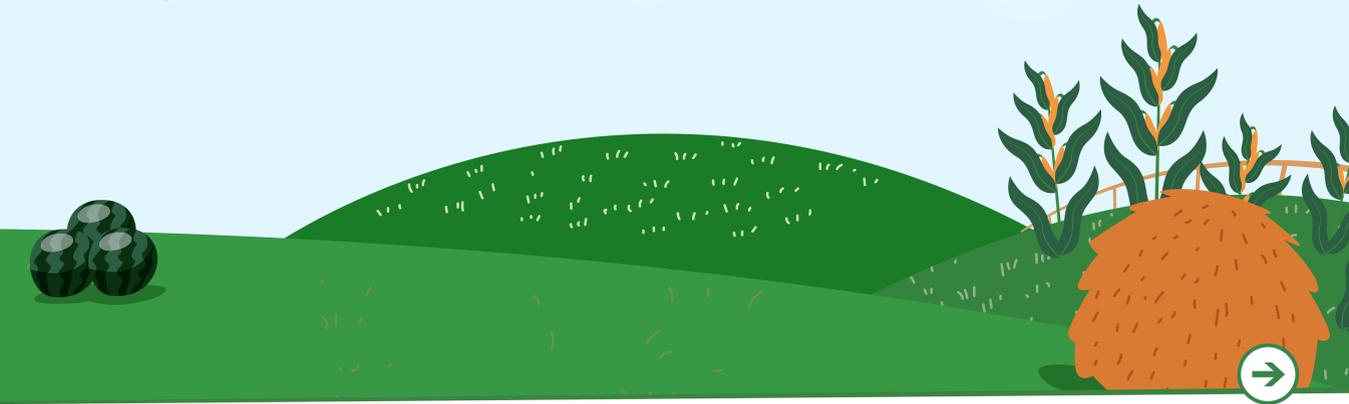


agroNET devices

agroNET collects data through devices equipped with a set of sensors capturing information about environmental and soil conditions, insects, plants, machines, etc. We provide a wide range of sensors and data loggers from different vendors.

agroNET uses:

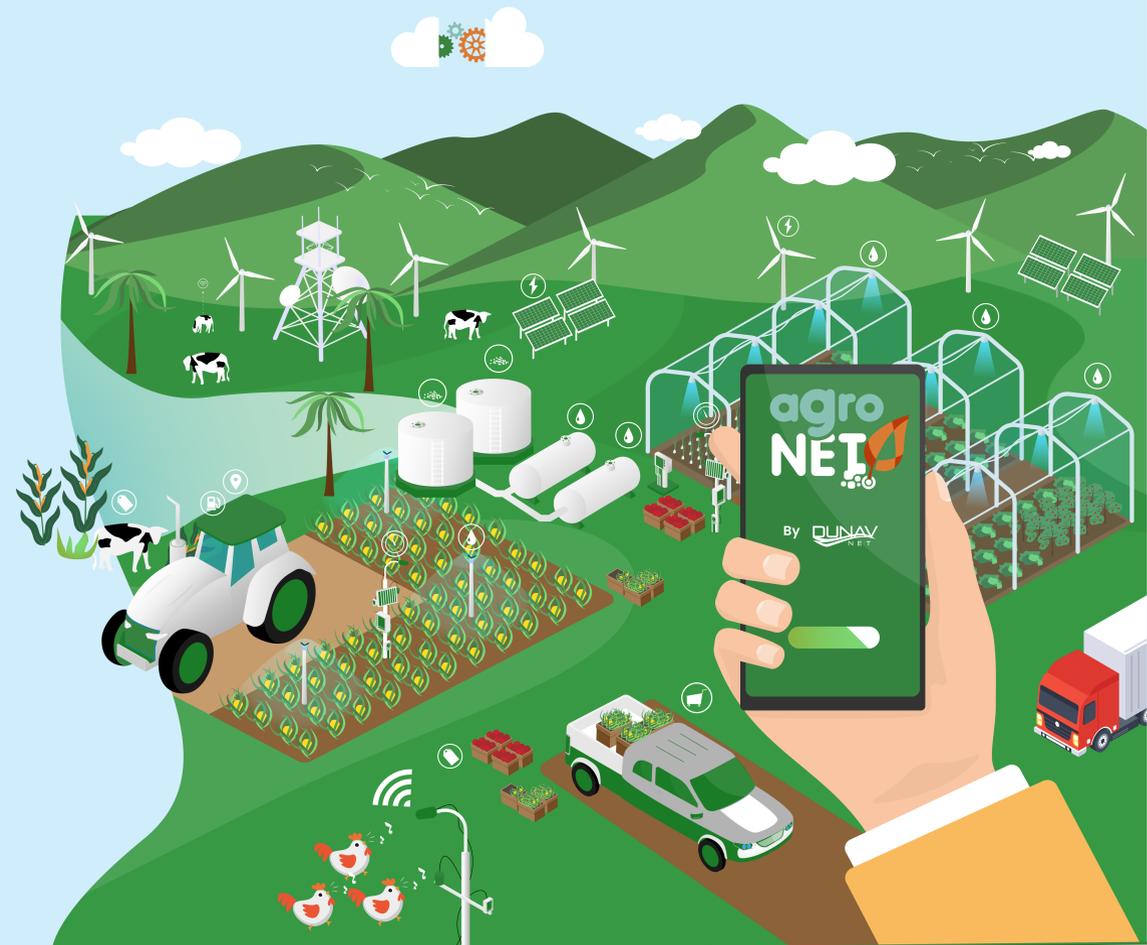
- **Weather stations for monitoring environmental conditions** (air temperature and humidity, wind speed and direction, rain amount, global and active solar radiation, barometric pressure)
- **Leaf wetness sensors**
- **Soil moisture, temperature and salinity sensors** for monitoring soil conditions
- **Smart traps** for monitoring insects' activities
- **Devices for monitoring environmental conditions** in livestock production objects
- **Video and thermal cameras, microphones** to monitor animal behavior and vocalization
- **Temperature sondes** for monitoring storage conditions
- **RFID tags for assets tracking** (box pallets, machinery, irrigation systems, diesel generators...)



agroNET benefits contributes to UN SDG2, SDG13 and SDG15



- Optimized resource and inputs utilization
- Increased yields and crops quality
- Reduced pesticide usage
- Optimized animal production
- Optimized water usage
- Reduced carbon emissions, water savings and degradation of soil as natural resource



Transparent food supply chain

agroNET is being extended to provide functionalities required by food processing, food safety and supply chain stakeholders, thus covering the complete farm to fork path.



agroNET
Cloud based acting as an interoperability hub for all farm operations providing decision support tools.



fleetNET
Manages all fleet and asset information, optimising food distribution, transportation and logistics.



Product passport
Enables tracking complete product life cycle, improving food safety and quality and provides traceability and supply chain management.





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By **DUNAV**
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