



# SMART AGRI-FOOD SOLUTIONS

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# ➤ Turnkey, packaged IoT solutions

Digital farming, feed supply chain, animal wellbeing



**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.

**Curious to learn more?**

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# BUILT BY ECOSYSTEM OF PARTNERS

- **Cloud platform**

Solutions are hosted on  Microsoft Azure to ensure scalability, reliability and easy compliance with relevant security and data privacy rules.

- **Agricultural expertise**

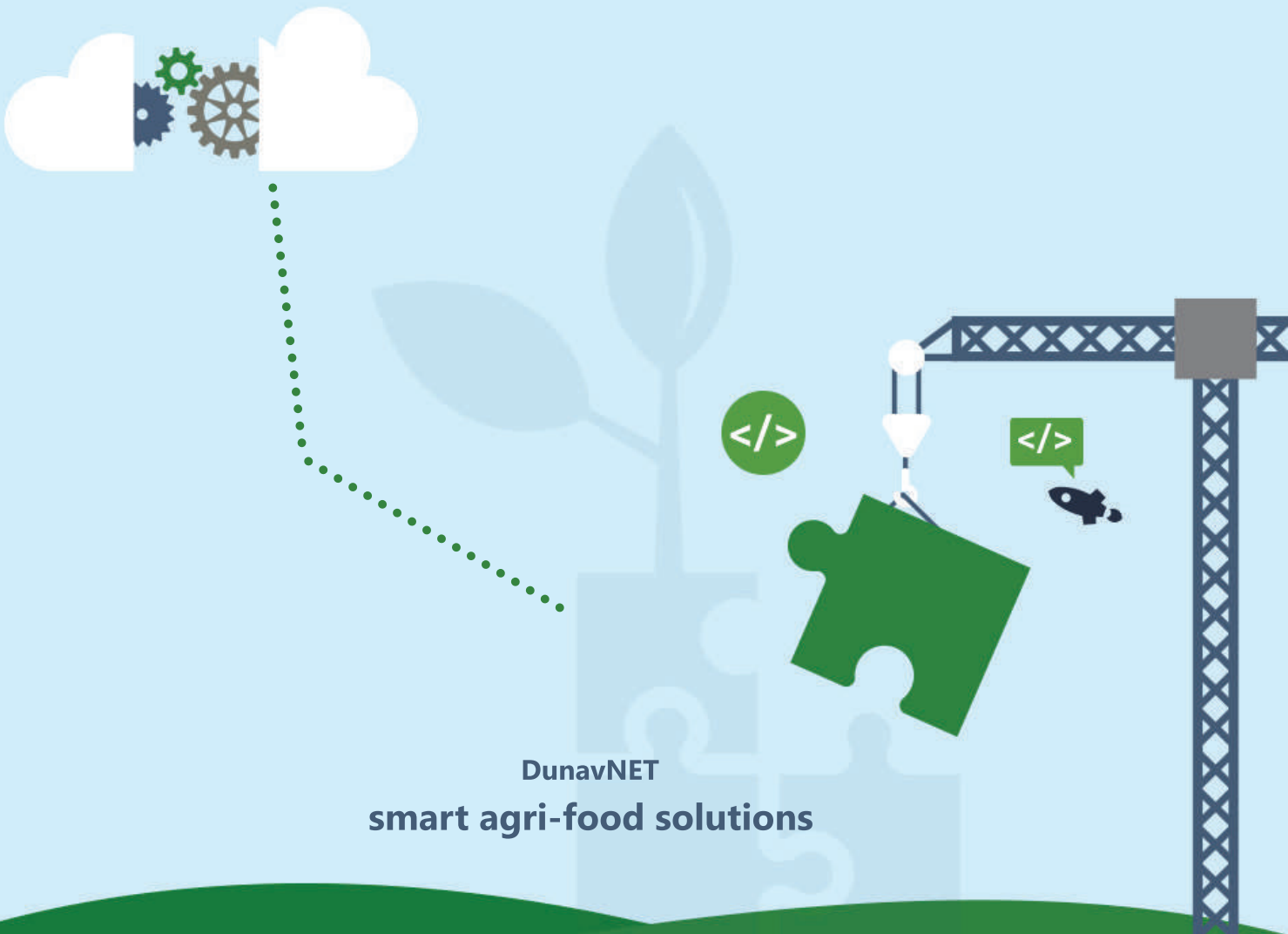
Renown experts, university professors, agricultural consultants and farmers are our associates.

- **Sensors and gateways**

We combine hardware components from multiple vendors to get the best cost/performance ratio.

- **Documentation**

Instructions and manuals, marketing collateral - all at your disposal.



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## OUR CLIENTS

License agroNET and provide smart agriculture services to farmers.



### **Service providers, system integrators and mobile operators**

With agroNET, you can start providing smart agriculture services immediately, all technological components, materials and support are provided by us.



### **Agri-machinery manufacturers**

Use agroNET to create connected machinery and value-added connected services. Up-sell by providing other services from the agroNET portfolio.



### **Livestock service companies**

Use agroNET to track how your services and products are used by farmers, ensure best results for farmers and for your company.

## THE END USERS

- Medium to large farmers and agricultural companies
- Distributors of agricultural machinery and chemical products
- Food supply chain stakeholders

### **Join our partner ecosystem!**

Hardware vendors, data analytics providers, domain experts, service operators,...get in touch to build even more versatile smart agriculture platform.

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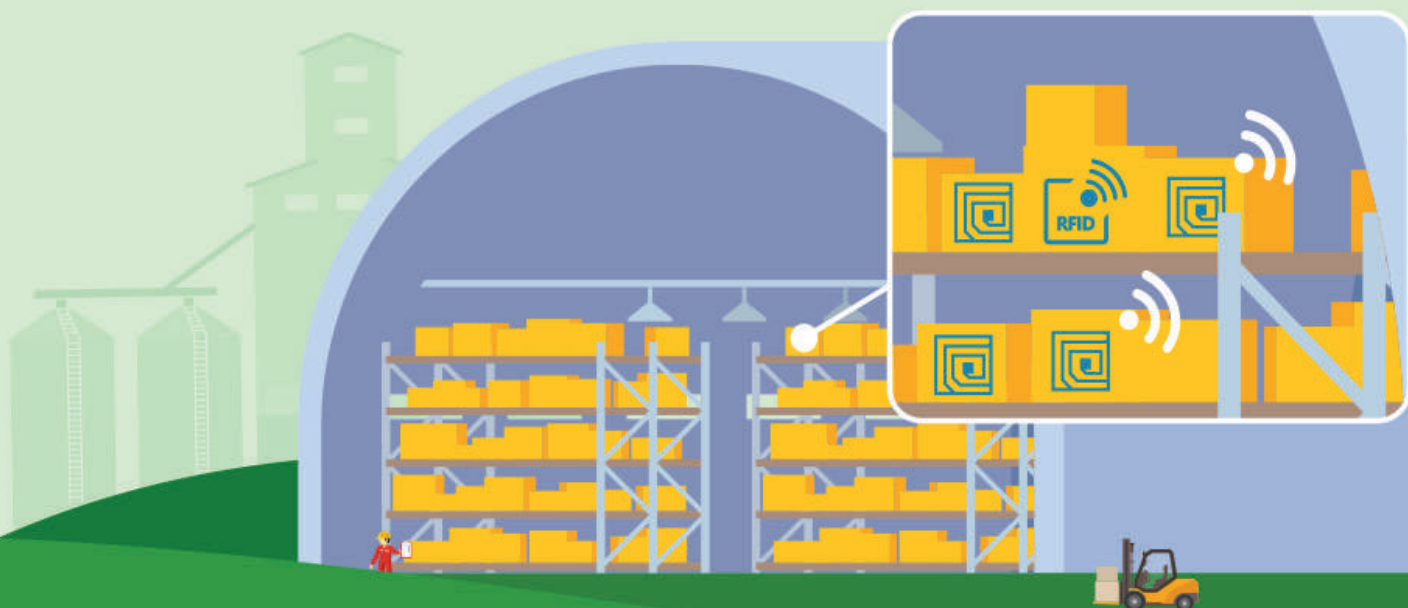


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## WHY SHOULD SERVICE PROVIDERS USE agroNET?

- **To rapidly enter smart agriculture market** and create new business opportunities
- **To complement in-house expertise** and create value-added services and products



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## WHY SHOULD FARMERS USE agroNET?

- **To reduce costs** and increase yields and quality
- **To optimize production processes** (pesticide usage, irrigation, fleet management, asset management....)
- **To reduce negative impact** on environment
- **To improve animal welfare**
- **To move towards** digital farming practice



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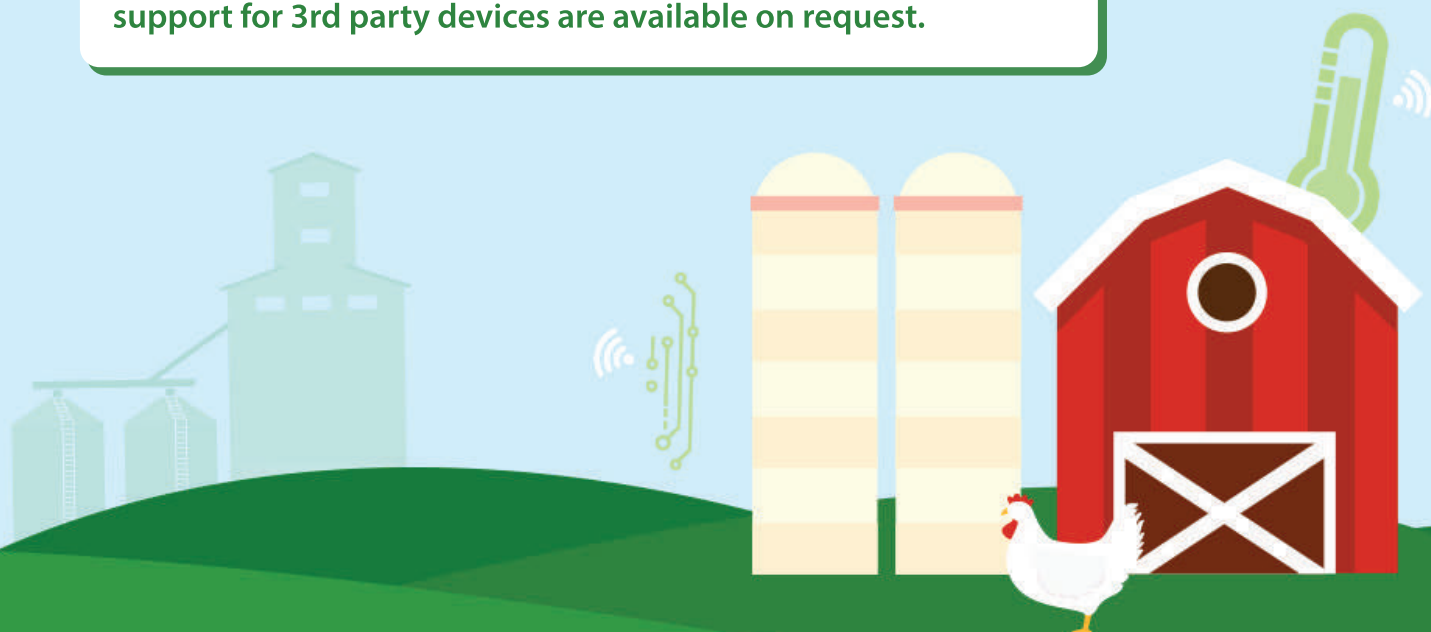




## PRE-CONFIGURED PACKAGES

- **Vineyards:** pest and disease prediction, insects monitoring, irrigation optimization
- **Orchards:** pest and disease prediction, insects monitoring, irrigation optimization
- **Poultry farms:** environmental conditions and parameters optimization, best practice guide, economy assistant
- **Feed supply chain:** grain storage management optimization
- **Feed mixture optimization:** preparing feed mixture according to animal needs and production goals

Platform extensions, new features, interfaces to legacy systems, support for 3rd party devices are available on request.







## agroNET FUNCTIONALITIES

Vineyards, orchards, vegetables, arable crops	Animal production (poultry)	Feed supply chain automation
<ul style="list-style-type: none"><li>○ Management dashboard</li><li>○ Decision support, guidelines and instructions</li><li>○ Pest and disease prediction</li><li>○ Insects monitoring</li><li>○ Irrigation optimization</li><li>○ Frost warning system</li><li>○ Satellite based field monitoring and NDVI calculation</li><li>○ Asset and machinery tracking</li><li>○ Service and activity books</li></ul>	<ul style="list-style-type: none"><li>○ Management dashboard</li><li>○ Decision support, guidelines and instructions</li><li>○ Environmental condition optimization</li><li>○ Feed and water consumption optimization</li><li>○ Chicken behavioral monitoring</li><li>○ Best production practices and applicable regulations guide</li><li>○ Economy assistant (calculator)</li><li>○ Feed mixture optimization</li><li>○ Digital assistant</li></ul>	<ul style="list-style-type: none"><li>○ Management dashboard</li><li>○ Decision support, guidelines and instructions</li><li>○ Grain storage management optimization</li></ul>



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## agroNET DEVICES

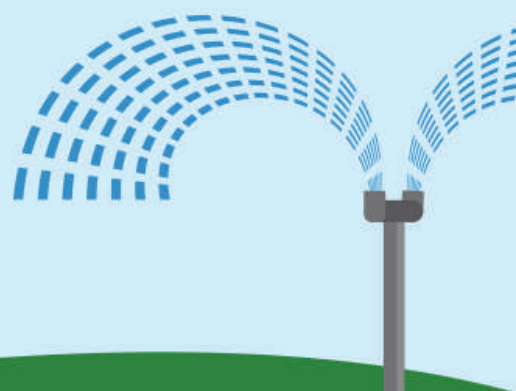
**agroNET** collects data through devices equipped with a set of sensors capturing information about environmental and soil conditions, insects, plants, machines, etc. We provide a wide range of sensors and data loggers from different vendors.

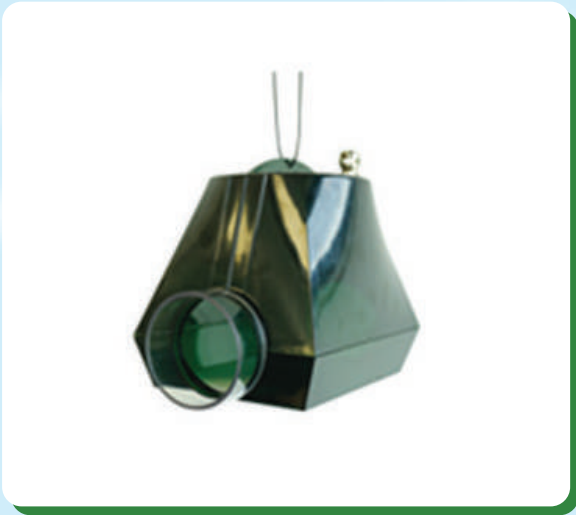
### agroNET DEVICES FOR MONITORING

- **Weather** (air temperature, humidity, precipitation, wind)
- **Leaf wetness**
- **Soil moisture and temperature**
- **Pests activities**
- **Assets** (box pallets, machinery, irrigation systems, diesel generators...)
- **Poultry houses environmental conditions**
- **Animal (broilers) behavior**
- **Grain storages**



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