

Agricolus

European Agriculture needs to become more productive and at the same time to meet environmental goals. **Reconciling food production and environmental goals** can be achieved through the adoption of appropriate technologies. Frequently farm entrepreneurs do not have the **right information at the right time** in order to **manage efficiently** both their farm production and the phytosanitary (pesticide and fertilizers) treatments needed for the health plants. Moreover very often the information related to sow /harvest /treatments are not interconnected with the pesticide and fertilizers storage and are used only for administrative scopes. Agricolus project aim at address these problems by providing a novel precision agriculture solutions integrated into FI-WAARE technology enabling farmer to both produce **“more with less”** improving and **reduce agriculture’s environmental footprint**.

AGRICOLUS WEB: is a web social application enabling farmers to: Create a social network of experts, farmers and agricultural entrepreneurs that can share knowledge.

Create a social alert system that can be used to send and receive georeferenced alerts for diseases and possible risks

Allow to experts, administrators and other stakeholders to share (free or with a fee) news and information that will be routed to farmers via a recommendation system.

Map the owned fields with external GIS services and analyze on the map the information received from external DSS systems, stock management systems and other services (in the future)

It is a web application that integrates the GEs to create a web application that is focused on the creation of a social network between the farmers to share information and alerts and consume some external services.

Team



Andrea Cruciani



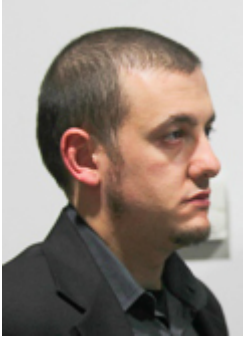
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Family Farming

Have you ever tried to grow your own vegetables? You could not bother or already failed? We give people the opportunity to grow their own food, even if they have limited time, space or experience, as it is often the case in urban areas. Although urbanization has caused many people to live without direct contact to agriculture, many citizens set high value in healthy food, and they are aware of the importance of sustainable and organic cultivation. The Family Farming application approaches this task by a combination of a smart raised-bed gardening box, called the Agrarium, with a wireless web and mobile application that guides the user to a successful harvest. Sensors within the Agrarium provide data about temperature, luminosity or nutritional value which are evaluated and illustrated by selected FIWARE software solutions. Our project guarantees a successful farming experience to people who wish to produce their own food and helps to re-establish an awareness not only for the importance of sustainable food but also for the complex challenge of urban agriculture.

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Experiment Green

Family Farming

EXPERIMENT GRÜN

foodnav.de

foodnav.de endeavours to help people suffering from food allergies and intolerances. To make it easier for them to find suitable products, we will create an online database of food products and the possibility to search within that database for products that do not include the ingredients one cannot eat. Additionally, foodnav.de will offer valuable content that food-allergic people are always looking for, i.e. recipes, shopping guides and product reviews. In the near future, foodnav.de strives to be the No. 1 information website for people with food allergies and intolerances.

The foodnav.de team consists of longtime allergy sufferer, lifestyle blogger and web enthusiast Alexander Wolff, who serves as the team leader, and his experienced team under the roof of the longtime operating internet and consulting company Target Up. The other team members are managing director and skilled entrepreneur Horst Levien, online editor Karin Kallweit, programmer Yevgen Umantsev and social media expert

and web specialist Yasmin Ortega- Quiñonez.

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[obergudt](#)

obergudt provides a way to obtain good locally produced food directly from the best producers, farmers, bakers, microbreweries and beekeepers around. We create a marketplace that is fast and easy to use for manufacturers and offers consumers the opportunity to order fresh, natural products

that were produced in their region directly online.

The marketplace is based on the obergut platform on which manufacturers who markets their products directly can be found on our maps. We want to create more transparency and show how and where food is produced.

Value Propositions for Manufacturer:

- specialized marketplace; thereby focusing the marketing activity on the target group
- direct marketing options without intermediaries
- free marketing for small producers
- possibility to bundle orders and logistics

Market-Size (eg Germany):

- 000 direct marketing farms; 48.000 Vineyards; 100.000 Beekeepers
- 10 billion Euro market

Team



Robert Schultz



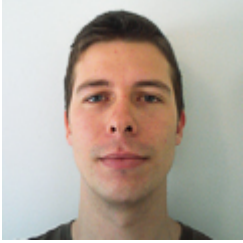
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Pycno

The data is aggregated in our **software platform**. The system brings latest scientific knowledge to the farmer and provides recommendations based on real-time sensor and weather data. The insights help the farmer know exactly how much water to use, when to fertilise and be aware of disease probabilities.

We build **modular sensors**, which measure key characteristics of the soil and environment of the farm – soil moisture, soil, electrical conductivity, soil and air temperature, relative humidity and direct sunlight. Our technology allows us to develop smaller and more affordable sensors to provide more granular data.

Using **farm specific weather and soil data** can significantly reduce costs and improve quantity and quality of yields, because it helps to apply water and other resources more precisely. Current monitoring solutions are expensive and complicated to use.

Our devices are technologically superior and a lot more affordable. On top of that the software platform makes gathering farm information seamless and ensures that the grower can manage his farm in real-time anywhere in the world.
Result – reduced costs and increased yields!

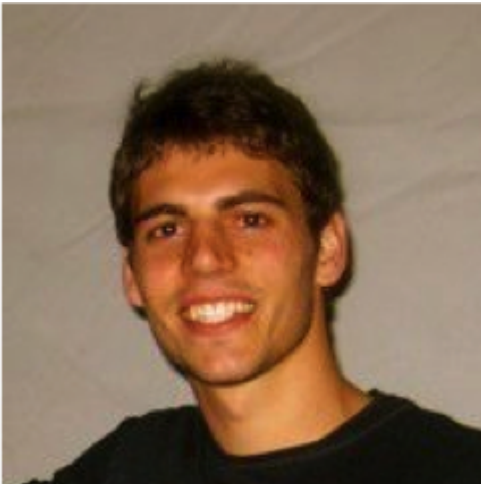
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Save Seed Diversity

Within the last 30 years the diversity of culture plants such as vegetables, grains, rice and corn came under considerable pressure. There are more than 30.000 eatable plants, but only nine crops cover 75% of today's worldwide food supply. The existence of many valuable culture plants is highly endangered. SAVE SEED DIVERSITY supports ecological awareness and benefits economically from a growing market. The SAVE SEED DIVERSITY App makes rare seeds available. This innovative application functions as an exchange platform. Breeders sell services and products to customers, cultivators and fellow breeders.

In den letzten 30 Jahren hat die Variabilität der kultivierten Obst-, Getreide- und Gemüsesorten dramatisch abgenommen. Von 30.000 essbaren Pflanzen decken 9 Arten 75% des weltweiten Ernährungsbedarfs. Die Existenz vieler erhaltenswerter und nützlichen Sorten ist vom Aussterben bedroht. SAVE SEED DIVERSITY App schärft das ökologische Bewusstsein für dieses Problem und macht seltene Sorten einfacher verfügbar. Die SAVE SEED DIVERSITY Applikation stellt sich als eine Austauschplattform für Dienstleistungen, Produkte von Züchter und Händler, sowie Gartenbauer und Hobbygärtner dar.

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SENS-0-COPTER

SENS-0-COPTER is a long endurance UAV (Unmanned aerial vehicle, Multicopter) designed to acquire and deliver multiple sensory data in situations and areas where manned inspection is too costly, dangerous or even not possible. The UAV and the sensor-unit are based on open-source Hard- and Software to keep the development time low and to benefit from proven designs. The system will be tailored to our special needs: rain and snow resistant, long endurance, flight time up to 90 min, long range, up to 50km (one way). The gathered data (temperature, air pressure, altitude, GPS position, air quality, hydrogen sulphide, magnetic field, UV-, visible-, NIR- and IR-camera, radioactive level) will be sent over

WLAN/LTE into the cloud to store the data. The user can use a web interface to display the processed data (combined with GPS/Time) on a map. Possible applications: Environmental monitoring, air quality, emissions, contaminated areas, radioactive levels, gas leakages, civil protection, weather data, volcano research, natural disaster, mobile network signal strength, quality control, documentation purposes.

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SUSF

We are strong believers that no team will ever be effective unless it has the right people with the right skills on it.

The five professionals forming up our team come from a variety of work fields and have deep knowledge of their own area of work. What is more important, we have worked together for quite a long time and there is a strong sense of rapport between us.

Needless to say, we are all fully committed to this project and willing to give our best effort to make it a successful one.

Jose Antonio, our team leader, has a master degree in telecommunications engineering and a broad background in his field as well as project management.

Javier and Mauro are also engineers but while the former specialized in hardware and electronic development, the latter focused on computer science with 14 years of experience in space technology.

Libe and David, on the other hand, cover another field of work. She studied advertising and PR and focused on corporate communication on a professional level, while David has a degree in business management and marketing, and relevant experience in the field.

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TACTICS

TACTICS (TrACTor AnalytICS) will use a range of FI-WARE enablers to develop a system for real time analysis of fuel consumption of the tractor–implement system with the aim of reducing fuel consumption without affecting tillage quality. This system will be able to handle vertical forces data and to propose, in real-time, the best working parameters in terms of tractor velocity and engine speed for reducing energy consumption. This system will also be able to automatically generate spatial performance maps with the use of a GPS mounted on the tractor cabin, which could be useful to analyze tillage operation performance and apply precision agriculture strategies.

This application will run in an android platform inside the tractor cabin to make the data visible to the tractor driver.

These data will be synchronized with a web application and FI-Space widgets for real time data projection and post-analysis of the tillage operations. It will be able to receive and combine in real time data from: (a) the tractor electronic control unit (ECU) for recording the tractor working parameters; (b) a GPS receiver for gaining tractor location and (c) the tractor ISO data communication system (ISOBUS) for recording implements working parameters (i.e. a plough or cultivator).

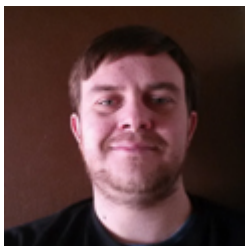
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