

The role of open data and innovation in ensuring global food security

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14th International gvSIG Conference

24th Oct 2018 Valencia, Spain



Hunger Poverty Innovation

www.godan.info

Big picture – Enabling innovation opportunities for All

- Inclusive for all levels
- Empowerment
- Lowering the barriers
- Spread Awareness on available resources
- Building partnerships and synergies with like minded organisations

We welcome ideas from all on how to make this possible

Providing answers to: How can we ensure zero hunger for all? How can we use open data to help small farmers????

How can gvSIG community make use of the amazing tools available (gvSIG Mobile etc) to help develop innovative applications for small holder farmers?

gvSIG Challenge for Students to develop innovative solutions for global food security using open data?

gvSIG project blog





GODAN Local Farming Challenge 2017 Encourage Geo-Innovation Solutions for Zero Hunger

http://eurochallenge.como. polimi.it





Develop innovative solutions to reduce waste and achieve ZERO HUNGER

By bringing together teams of students and researchers to find solutions for local farming in growing cities, using open agriculture and nutrition data.

Details of the open data tools can be accessed through:

http://eurochallenge.como.polimi.it

Key Outcomes of the Challenge

Several Projects linking Agricultural and Geo
 Domains participated in the Challenge

 The Winner was AgroSphere developed by a team of High School Students and Undergraduate NASA interns.

Winner of GODAN Local Farming Challenge 2017

NASA AgroSphere

100+ Years of Historical Agriculture and Climate Data In Your Hands



https://worldwind.arc.nasa.gov/agrosphere/about.html

Winner 2017 - Agrosphere



https://worldwind.arc.nasa.gov/agrosphere/about.html

AgroSphere

AgroSphere is an educational web application that visualizes the effects of Climate Change on Agriculture using a large collection of global agricultural and Climate Data.

•Enables visualization of various types of agriculture (1961-2014) and climate data (1989-2014) simultaneously from hundreds of countries across the globe

• Explore Geo-Comparison of Agricultural Data

•Search for current weather data for any city around the globe



WorldWind EUROPA CHALLENGE HELCINKI 2017

Lessons Learnt

- This challenge was a step towards enabling "Mass Innovation" in agriculture related applications using openly available technologies and data.
- It enabled building partnership between Universities,

schools, teachers, GODAN and NASA

 The Final Award Ceremony at Helsinki brought together all finalists together and enabled further sharing of ideas, skills and knowledge.

Examples



GODAN AgriGIS Hands ThinkTank @RCMRD,

GODAN AgriGIS Workshop and ThinkTank @RCMRD, Nairobi, Oct 28-29, 2016



Regional Centre for **Mapping of Resources**

or Development

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Posted: October 22, 2016

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AgriGIS Workshop and Think Tank Meeting

Location: Regional Centre for Mapping of Resources for

The University of Nottingham, the Regional Centre for Mapping of Resources for Development (RCMRD), the Global Open Data for Agriculture and Nutrition (GODAN), and Crops for the Future (CFF) have organized a two-day AgriGIS Workshop and Think Tank meeting to be held at RCMRD, Nairobi, Kenya from 27- 28th October, 2016.

Geospatial science has a major role to play in securing both food and nutritional security in agricultural systems, particularly to address the UN Sustainable Development Goal (SDG) 2 to 'End hunger, achieve food security and improved nutrition and promote





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Be part of GODAN WG on Capacity development

- Be part of a global community and benefit from sharing ideas and experiences
- Freely available learning materials and resources
- Hands on Workshops on different themes
- Webinars
- Think Tank Meetings
- Storytelling with Data
- Student projects/competitions

Join us at https://dgroups.org/fao/godan_cd/join

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