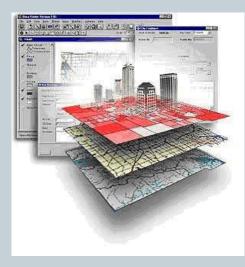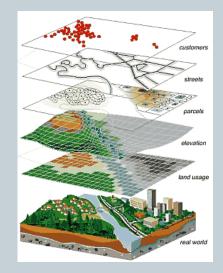# DRAXIS Environmental Technology
Ideas, Solutions, Projects

DRAXIS ENVIRONMENTAL TECHNOLOGIES SA

Evagelos Kosmidis, PhD– kosmidis@draxis.gr – Skype: vageliskos

Company ID

- Legal Form: S.A.
- Year of Establishment: 2000 (Trademark from 1998)
- Location: Thessaloniki
- No of Employees: 12
- Annual Turnover: ~1M €
- Exports: ~30% of Annual Turnover
- Spin out Company: Dotsoft SA
- International Partnerships:

Activities

- Environmental Software and Databases
  - Problem identification
  - Solution Development
  - Product Integration
- Environmental Impact Assessment and Consulting.
  - Government,
  - Industries, Individuals,
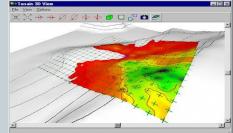- Geographic Information Systems (GIS)
  - Decision Support Systems
  - Full map integration

Environmental Software

Draxis provides development and integration services in:

- Environmental Decision Support Systems
- Environmental Databases
- Environmental Simulation models
- Web and mobile applications for environmental measurements monitoring
- provision of multi channel digital services such as: information diffusion and alert
- Digital sensor development (Arduino)
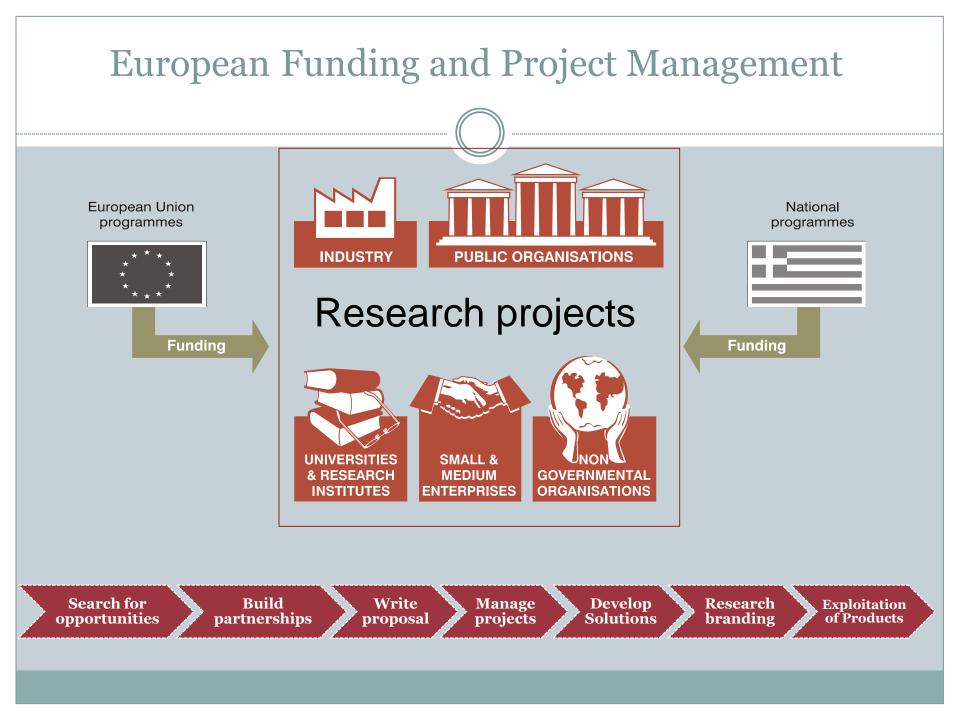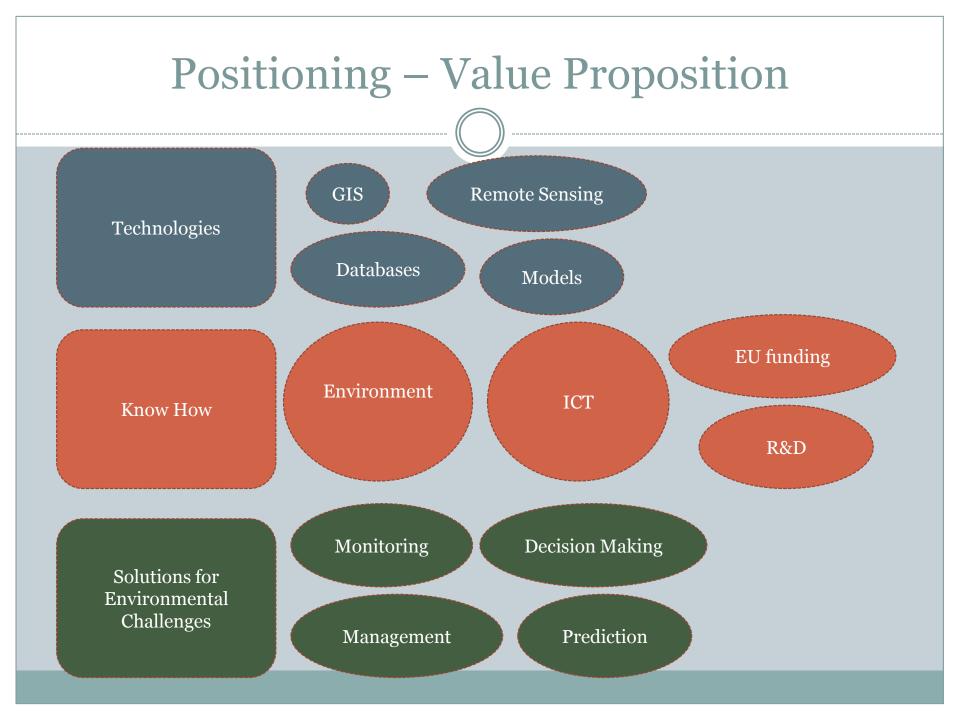- Work flow systems for licensing.

Geographic Information Systems - GIS

- Design and Development of geodatabases
- Development of web GIS applications
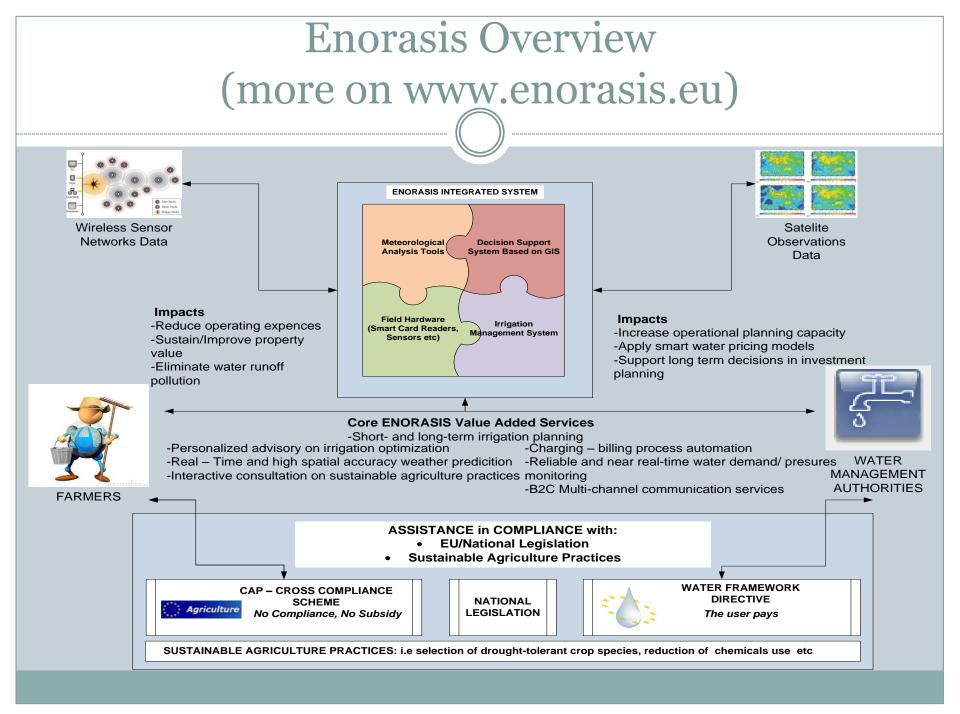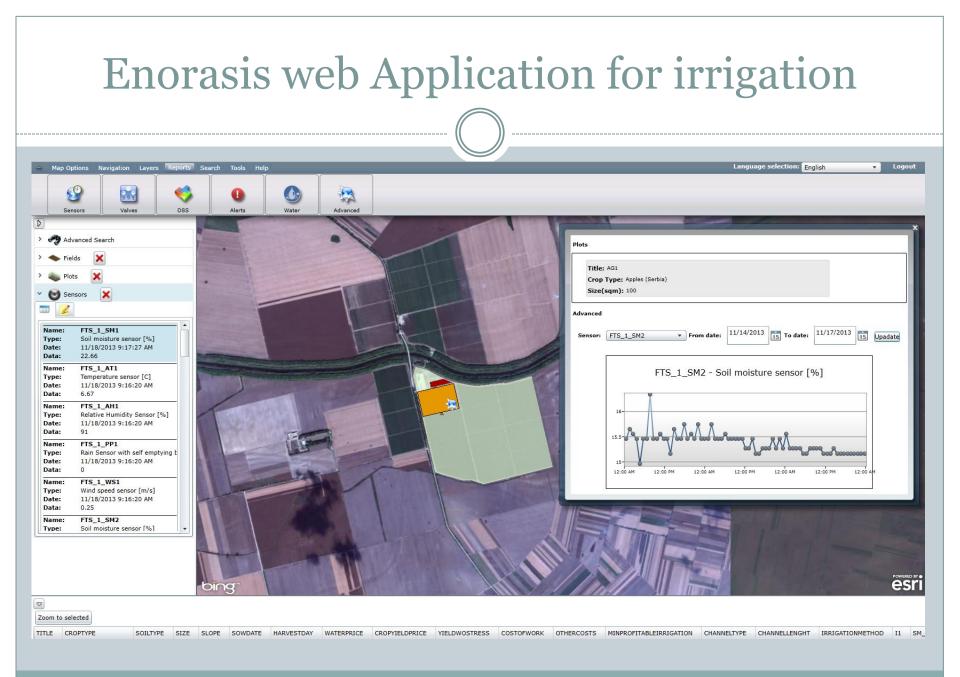- Development, Customization
- Integration of GIS applications in various fields (i.e. environment, transport, urban planning, culture etc)
- Development of spatial models for risk assessment
- Design and development of decision support applications for water management authorities.
- Remote sensing applications
- Development / Process of digital maps

European Funding and Project Management

European Union
programmes

National
programmes

Funding

Funding

Research projects

INDUSTRY

PUBLIC ORGANISATIONS

UNIVERSITIES & RESEARCH INSTITUTES

SMALL & MEDIUM ENTERPRISES

NON GOVERNMENTAL ORGANISATIONS

Search for opportunities → **Build partnerships** → **Write proposal** → **Manage projects** → **Develop Solutions** → **Research branding** → **Exploitation of Products**

Positioning – Value Proposition

Technologies

GIS

Remote Sensing

Databases

Models

Know How

Environment

ICT

EU funding

R&D

Solutions for Environmental Challenges

Monitoring

Decision Making

Management

Prediction

Flagship Projects -1

ENORASIS "Environmental Optimization of IRrigAtion Management with the Combined uSe and Integration of High PrecisIon Satellite Data, Advanced Modeling, Process Control and Business Innovation"/ FP7/ ENV

Coordinator

Ongoing

Enorasis Overview
(more on www.enorasis.eu)

Wireless Sensor Networks Data

Satelite Observations Data

ENORASIS INTEGRATED SYSTEM

Meteorological Analysis Tools

Decision Support System Based on GIS

Field Hardware (Smart Card Readers, Sensors etc)

Irrigation Management System

Impacts
-Reduce operating expences
-Sustain/Improve property value
-Eliminate water runoff pollution

Impacts
-Increase operational planning capacity
-Apply smart water pricing models
-Support long term decisions in investment planning

Core ENORASIS Value Added Services
-Short- and long-term irrigation planning
-Personalized advisory on irrigation optimization
-Real – Time and high spatial accuracy weather predicition
-Interactive consultation on sustainable agriculture practices

-Charging – billing process automation
-Reliable and near real-time water demand/ presures monitoring
-B2C Multi-channel communication services

WATER MANAGEMENT AUTHORITIES

FARMERS

ASSISTANCE in COMPLIANCE with:
- **EU/National Legislation**
- **Sustainable Agriculture Practices**

CAP – CROSS COMPLIANCE SCHEME
No Compliance, No Subsidy

Agriculture

NATIONAL LEGISLATION

WATER FRAMEWORK DIRECTIVE
The user pays

SUSTAINABLE AGRICULTURE PRACTICES: i.e selection of drought-tolerant crop species, reduction of chemicals use etc

Enorasis web Application for irrigation
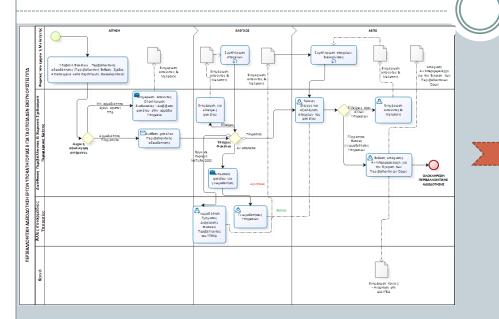
Flagship Projects -2

eEnviPer "A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-Government services and applications"

Coordinator

Ongoing

eEnviper Overview
(more on www.eenviper.eu)

eEnviper web-Gis application for investors
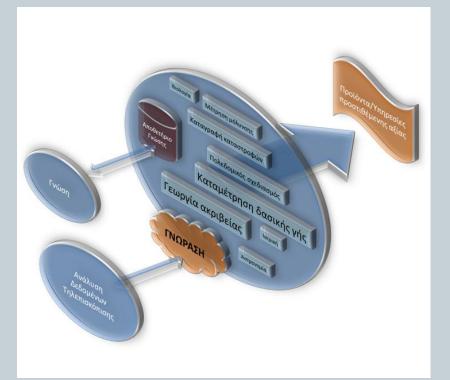
Flagship Projects -3

CASSANDRA "A multivariate platform for assessing the impact of strategic decisions in electrical power systems"/ FP7 - ICT
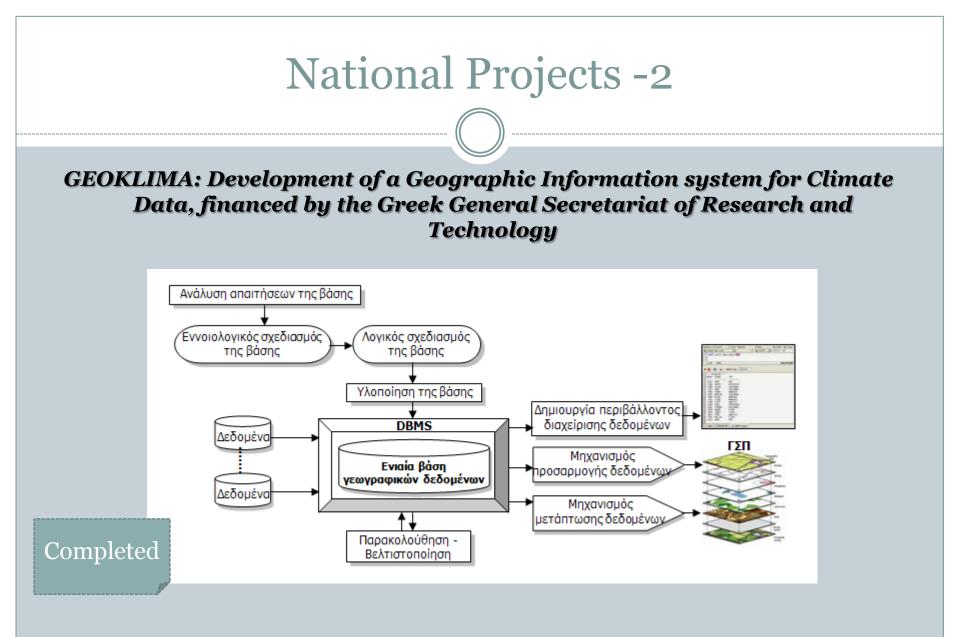

Ongoing

National Projects -1

GNORASI: Knowledge and processing algorithms data-flow development tool for remote sensing data management, financed by the Greek General Secretariat of Research and Technology
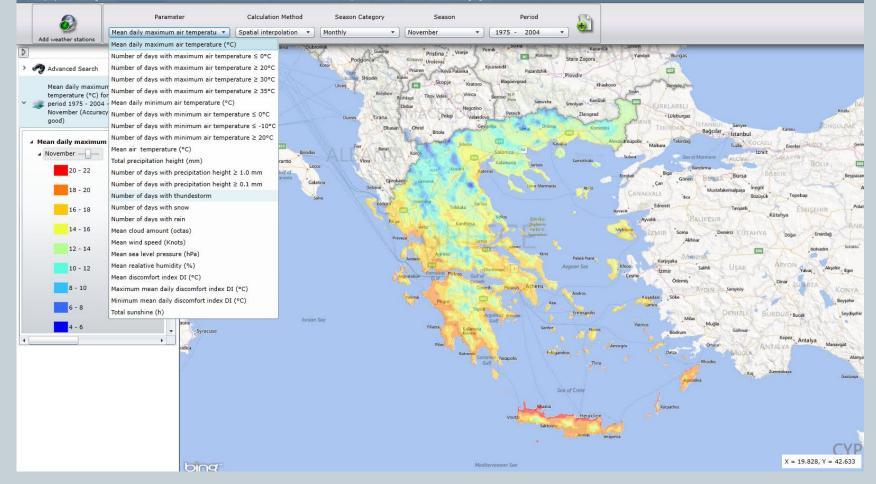

Completed

National Projects -2

GEOKLIMA: Development of a Geographic Information system for Climate Data, financed by the Greek General Secretariat of Research and Technology
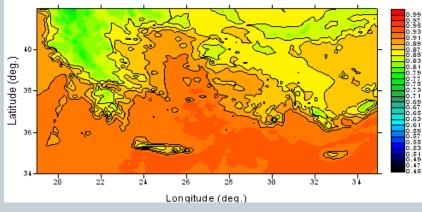

Completed

Geoclima web Application

National Projects -3

EDHE: National Network of Solar Energy, financed by the Greek General Secretariat of Research and Technology

Completed

Experience and other Projects. International Cooperations

- More than 10 European projects
- More than 50 National Projects
- More than 100 Private clients including large companies
- More than 300 Environmental Impact Assessment Studies
- **Greek/China Cooperation** – Coordinator: Aerovis, Air Polution Spatial Modelling
- **GSRT-Cooperation 2013** : Green Vineyard, Precision Agriculture for vineyards optimization:
- **ESPA** – DEYA Komotinis : GIS and DSS system for water management and telemetry system.
- **Life+ Policy** – 2007: Green Drachma, Environmetnal benchmarking.

Current and Future Plans

- No products. Only projects and Services.

- What we do best is:
  - Matching & Integrating existing technology
  - Collaborating with Research Centers to explore new possibilities
  - Support Organizations with Environmental ICT and PM, Consulting,
  - Provide evolutionary SW maintenance.

- "Internet of Things" & Crowdsourcing for Environmental Monitoring

- Crowd Management with multi modal sensors & geospatial data

- Social Gamification for Environmental purposes and awareness

- New Ideas for H2020 opportunities.

THANK YOU FOR YOUR ATTENTION

:DRAXIS

:DraxisEnv

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