Laboratory of Forest Management & Remote Sensing
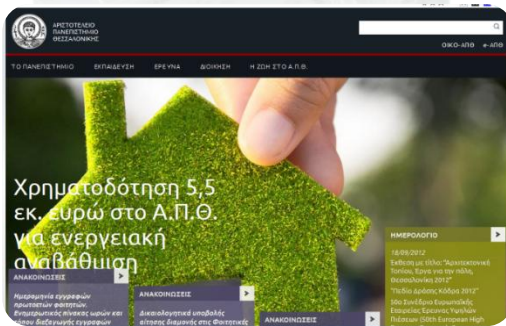
Department of Forestry & Natural Environment

ARISTOTLE UNIVERSITY OF THESSALONIKI (AUTh)

FOREST MANAGEMENT AND REMOTE SENSING

The AUTh Forestry School

o was established in Athens in 1917 as a part of the National Technical University of Athens

o moved to Thessaloniki in 1927 as the second faculty of the newly (at the time) established Aristotle University of Thessaloniki.

Our Research Team

FOREST MANAGEMENT AND REMOTE SENSING

The Laboratory currently **employees 12 people + external collaborators**:

2 - Permanent Academic Staff

3 - Research Associates (Post-Doc) and

7 - Post-graduate students (MSc, PhD)

No support staff

Our activities

- **Research**
  - Remote Sensing, Land cover/use – Forest mapping, Forest Fires, Forest Management, Soil erosion, Landscape Ecology
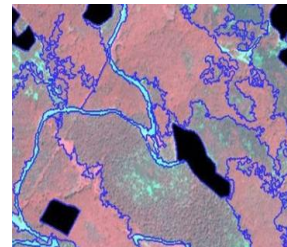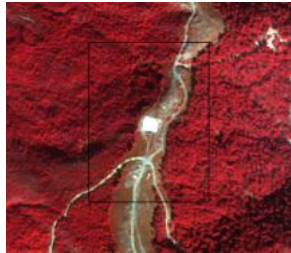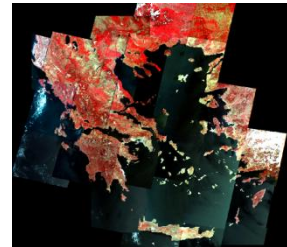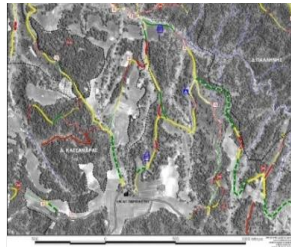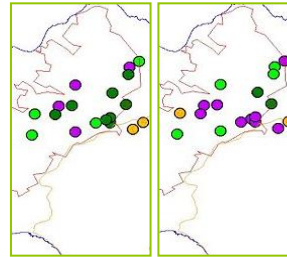

- **Education**
  - graduate and postgraduate courses

- **Dissemination of knowledge to the society**
  - operational applications, lectures, seminars, national and international conferences, networks
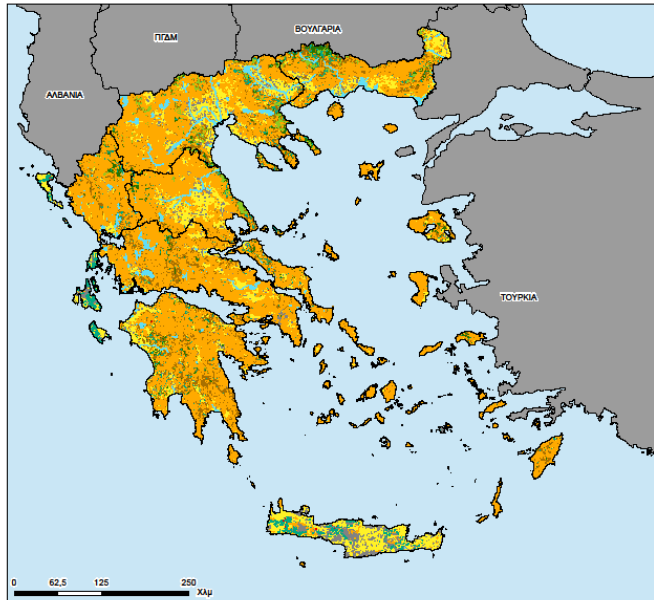
Research priorities

- Forest management
- LULUCF - Kyoto protocol (Forest species mapping, biomass estimation)
- Applications in forest fire research
- Land cover/use mapping
- Landscape ecology
- Soil erosion
- Environmental degradation assessment
- Ecosystem dynamics

Collaboration with International organisations and Greek end-users

Success stories

ArcFUEL Best LIFE project award (2014)

Fuel Map of Greece (50X50m, 2013)

Fuel Map of Spain (50X50m, 2013)

Fuel Map of Calabria (50X50m, 2013)

Success stories

Multi-temporal land cover/use mapping of Greece

An FMRS - WWF Hellas partnership

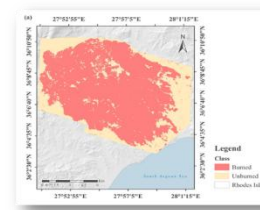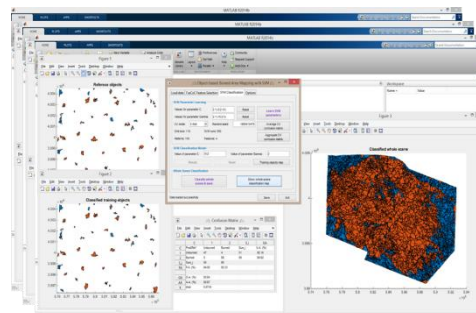# On going Projects supported by the Greek Forest Service

Establishment of two National Observatories:

i.   the National Observatory of Forests (NOF), and

ii.   the National Observatory of Forest Fires (NOFFi)

I.   Fuel type mapping

II.   Regional Forest Fire Danger Index

III.   Operational Burned area mapping

# National Forest Fire Risk Assessment System (NFOFRAS)

❑ An industry driven project (PLANETEK Hellas and Geosystems Hellas) which is supported by the Greek government through the General Secretariat for Research and Technology.

❑ The objective is to select a number of GCOS Terrestrial Essential Climate Variables (ECVs) related to fires and focus on their improvement and implementation at national level.

FMRS Contribution to SCERIN

❖ Expertise in forest monitoring and forest-related research with EO data

❖ Expertise in LULC studies with EO data

❖ Field surveys and validation activities (FAO RSS-FRA 2010)

❖ Participation in national and international committees and groups (EARSeL-FFSIG, GOFC-GOLD Fire IT, FAO RSS)

❖ Members of editorial boards of high impact factor journals (MDPI Remote Sensing)
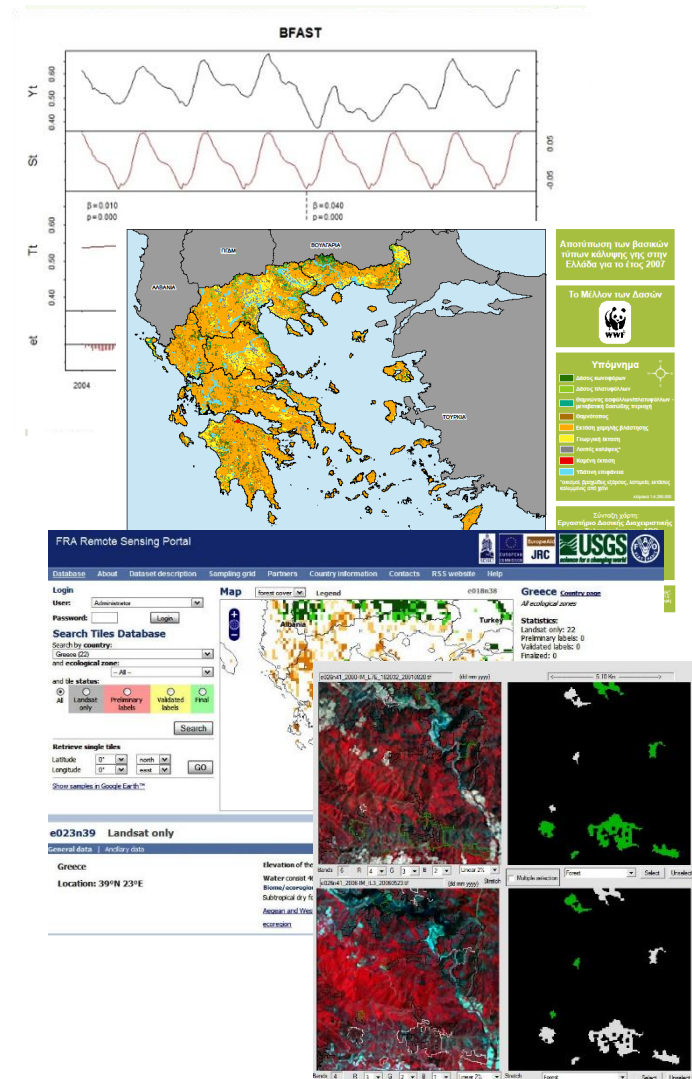
SCERIN contribution

❖ Collaboration at regional level through the following:

- o Development of project proposals

- o Implementation of methods and algorithms developed by FMRS in different study areas within SCERIN regional network.

- o Access to datasets (field survey data, validation products) developed by SCERIN members.

Thank you for your attention !!!

http://fmrs.web.auth.gr