

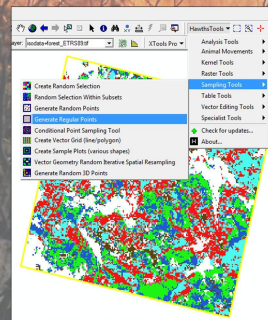
“ArcFuel”: Mediterranean fuel maps geodatabase for wildland & forest fire safety



Project Details

Contract:: European Commission Environment LIFE+ Program
 Duration: 27 months [1/10/2011 - 31/12/2013]
 Budget: 1.305.864 €
 Leading beneficiary: EPSILON International SA
 Coordinator: Prof. Marc Bonazountas | bonazountas@epsilon.gr
 Technical Manager: Mr. Alkis Asyvakopoulos | rd-geo@epsilon.gr
www.arcfuel.eu

ArcFUEL validation



Objective

“ArcFuel” delivers a complete, up-to-date, methodology for Fuel Classification Mapping (FCM on a Web-Geodatabase) based on “readily available” data, harmonized, accessible & interoperable according to INSPIRE principles, for the Mediterranean Region. The methodology is demonstrated via solid pilots in: Greece, Portugal, Italy and Spain.

Aim

Effective Forest Fire (FF) Management requires knowledge of Fuel Classification Maps (FCMs) that are poorly available in Mediterranean countries since:

- They are produced only at local or regional scale, without any regular updates and no standardized methodology.
- They are not produced via a standard structure or harmonized according to INSPIRE.
- They are heterogeneous as produced via different methods at different dates

Therefore available FCMs cannot support the systematic use of FF modeling at operational levels (prevention, suppression planning) of FF management.. ArcFUEL aims to cover this gap, and:

- Standardizes a “production flow” producing FCMs.
- Develops an INSPIRE procedure for FCMs production.
- Produces pilot FCMs for Greece & Portugal (full countries), Italy & Spain (pilot regions).

Workflow

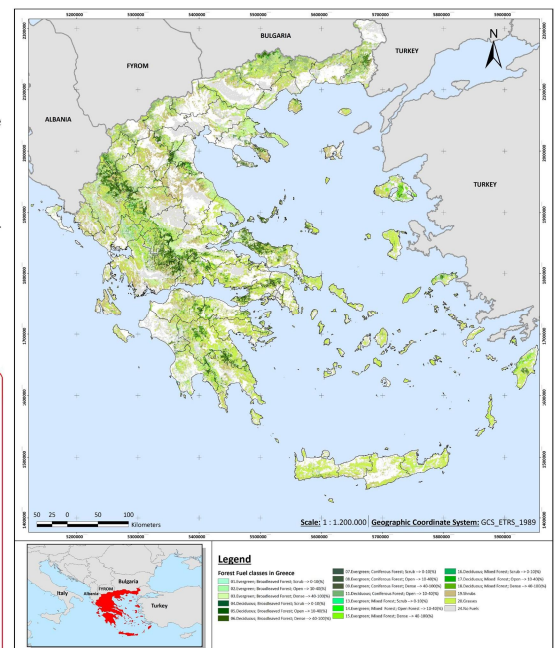
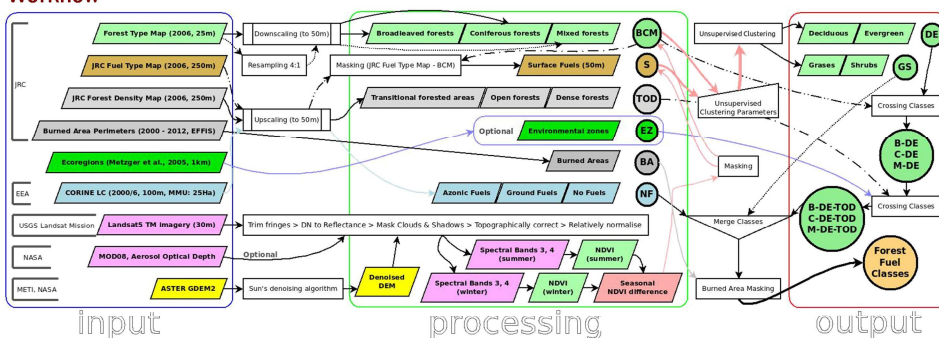


Figure: Fuel Map of Greece (50X50m, 2013)