



MisRAR

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**REGION OF EPIRUS
REGIONAL UNIT OF THESPROTIA
PRESENTATION**

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Regional Unit of Thesprotia





Spatial Mitigation Instruments in the Region of Epirus



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Two different cases

A) Forest Fires

- i) Big forests
- ii) Small forests around cities

B) Floods





Mitigation Instruments for forest fires



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-Why are forests fires a significant problem for Thesprotia and Epirus?

- i) Big forests
- ii) Morfology of the area (high mountains, difficult access for vehicles)
- iii) Mediterranean climate
- iv) Lots of human activities in and near the forests

-Which are the characteristics of the places which are thought extremely valnurable?

- type of trees (pines)
- Many people living near the place

Examples: little forests around Igoumenitsa and Ioannina, area of Filiates in the north part of Thesprotia

Last summer we had alarms for fire at the mountains in the north part of Thesprotia.





Spatial Mitigation Instruments for forest fires



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-Since forest fires can have tremendous environmental and social impact (loss of fortunes, human lives) measures should be taken in order to

- i) prevent them from happening
- ii) cause the least possible damage when they occur
- iii) give the fire brigade the opportunity to act effectively
- iv) improve recovery

-Which are the main spatial mitigation instruments for forest fires which were identified in the Region of Epirus?

- A) Creation of observatories in the forest**
- B) Creation of water tanks**
- C) Creation of a pipe network in order to transfer the water**
- D) Creation of little buildings in the forest, where equipment can be stored**
- E) Creation of forest-roads, offering the fire brigade vehicles better access**
- F) Zones for fire protection**
- G) Clean the forest from “dead organic material” (for forests around cities)**

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Mitigation Instruments Materialized in the area of Ioannina



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-KONITSA

- i) 2 observatories (Agios Minas, Konitsa)**
- ii) 7 water tanks (2 at Eleythero, 1 at Pournia, 1 at Amarando, 1 at Langada, 1 at Drosopigi, 1 at Kastania)**



-Metsovo

i) 2 observatories (1 at Flabourari, 1 at Anilio)

ii) 8 water tanks (4 at Vovoussa, 1 at Flabourari, 1 at Metsovo, 2 at Milia)





Mitigation Instruments Materialized in the area of Ioannina



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- Ioannina

i) 1 observatory (at Asprageli)

ii) 10 water tanks (5 at the forest of Laista, 1 at Makrino, 1 at Pramanda, 1 at Katamaxh, 1 at Palaiopirgos, 1 at Fotino)

iii) A net for fire protection at the little forest of the city of Ioannina

- .6 underground tanks

- .6 little buildings containing equipment

- . net of pipes (about 10 km long)

- . 71 points where you can get water from the pipes





Mitigation Instruments Materialized in the area of Ioannina



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Mitigation Instruments Materialized in the area of Ioannina



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-Moreover a net of forest-roads exist, while in some cases “dead organic material” is taken away from the forest

But

- always more mitigation instruments and better infrastructure is needed
- limited budget
- limited human resources





Spatial Mitigation Instruments for flooding



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-Why are floods a problem for Thesprotia and Epirus?

- i) west part of Greece, the climate is not so dry as in the East
- ii) the clouds stop at the mountains of Epirus
- iii) many rivers or water flows
- iv) climate change/extreme storms

-Incidents

- i) Last Winter the river Kalamas was flooded and caused damage to crops and human lives were put at risk
- ii) Last Winter due to continuous heavy rainfall the area around the city of Ioannina was transformed to a lake! The main road that connects the port of Igoumenitsa with Ioannina couldn't be used for 15 days!





Spatial Mitigation Instruments for flooding



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-Floods cause loss of money and put in danger human lives

-Spatial Mitigation instruments for floods identified in the region of Epirus

- **Creation of draining ditches**
- **Clean of torrents (mud, rocks, trunks etc)**
- **Creation of irrigation-draining systems (canals, iron doors, tanks)**
- **Creation of “sarzanet” (little walls)**
- **Creation of dykes**
- **Creation of mesh with burnt trunks (burnt mountains)**





Mitigation Instruments Materialized in the area of Ioannina



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-cleaning draining ditch (Anatoli, budget 45000 E)



-Creation of irrigation/drainage systems (Smirtia, budget 250000 E)





Mitigation Instruments Materialized in the area of Ioannina



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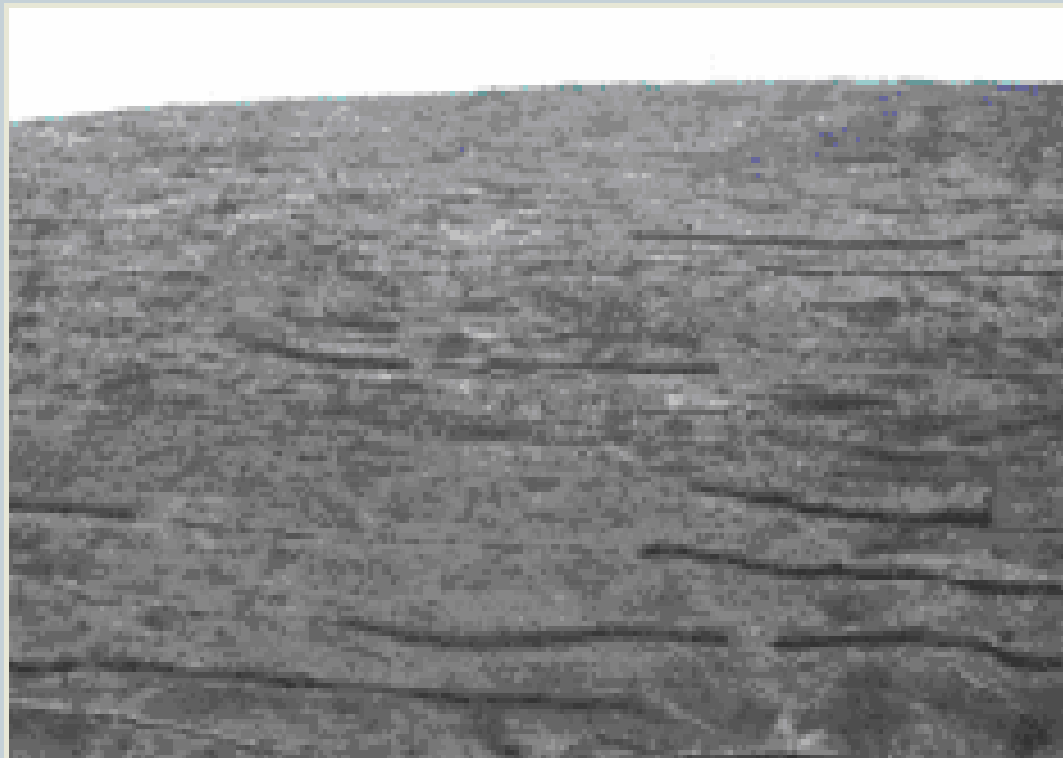
**-Creation of “sarzanet” and improvement of irrigation system
(Aoos river, budget 30000 E)**



-Creation of dykes (Konitsa, budget 65000 E)



-Mesh of burnt trunks (Not in the Region of Epirus)





Mitigation Instruments for flooding



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-Problems still exist

- Limited budget
- Proper analysis of the infrastructure really needed
- Consideration of the impact on the environment

THANK YOU FOR YOUR ATTENTION!

Information

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