THERMAL CAMERAS FOR EARLY FOREST FIRE DETECTION

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Slovenian Forestry Institute

INTERREG IVC „Inspiration for future“ workshop
Ljubljana, 13.3.2013
EFFMIS - EUROPEAN FOREST FIRE MONITORING USING INFORMATION SYSTEMS

Objective: exchange experiences and good practices used information systems for the early detection and confrontation of forest fires

Partners: 11 project partners from 9 countries


Budget: 1.772.030 €; Slovenia: 110.000 €
Karst video observation system

Reasons for selection of Spanish GP

VIDEO CAMERA

TOWER WITH VIDEO CAMERA
WEAKNESSES OF KARST VIDEO OBSERVATION SYSTEM

- poorer visibility during bad weather conditions
- poorer visibility at night
- change in pictures during gusty wind
ADVANTAGES OF THERMAL CAMERAS FOR EARLY DETECTION OF FOREST FIRES

- faster fire detection:
  - already during minor temperature changes,
  - in poorer weather conditions, poorer visibility and at night,
- automatic alarm raising
- delineation of fire location on the map
Study visit
Soria (Spain), June 2011
Regional Workshop
Ljubljana, August 2011

Spanish good practice:
THERMAL CAMERAS FOR FOREST FIRE EARLY DETECTION

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SELECTION OF GOOD PRACTICE

Bilateral meeting
Ljubljana, Sežana
November 2011
Visual range depends on ortography and vegetation characteristics.

Tower with thermal camera

20,000 Ha

VISUAL RANGE

Author of the pictures: Jesus del Campo, GESMACOM
Thermal cameras - advantages

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View from the tower

Visible Image

Day View, fog, distant fire simulation

Thermal Image

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Thermal cameras - advantages

Visible Image

Day View, alert, real fire

Thermal Image

Author of the pictures: Jesus del Campo, GESMACOM
Outputs

Recommendations for the National Action Plan for Slovenia

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Possible financing source of Good Practice transfer

IPA Adriatic Cross-border Cooperation Programme 2007-2013

Strategic project
FEARLESS ADRIA
( Strategic approaches to fire prevention, alarming, protection and damage control in Adriatic region)

Lead partner: Slovenia Forest Service

Project partners:
- Administration of the Republic of Slovenia for Civil Protection and Disaster Relief (Ministry of Defence),
- Slovenian Forestry Institute and
- 12 other project partners from Adriatic countries

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Information about EFFMIS project

http://www.effmis.eu/

Contacts

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THANK YOU FOR YOUR ATTENTION!