**Prometheus - system validation**

**Project ID:** ENV4980716  
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**Prometheus - system validation**

**From** 1998-06-01 **to** 2000-09-30

**Project details**

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<th>Total cost:</th>
<th>Topic(s):</th>
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<td>Not available</td>
<td>020304 - Forest fires</td>
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<th>EU contribution:</th>
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**Coordinated in:** Greece

**Objective**

Wildfire management requires the assessment of the fire danger, the expected fire behaviour and the possible impact of the fire as well. Six operational fire management modules (KEP) form the background of PROMETHEUS system. These are Prevention planning, Fuel management, Fire behaviour, Suppression management, Impact to soil and Effects to vegetation and ecosystem. In the frame of PROMETHEUS information system these modules are running independently or in integrated mode, for providing fire management assessments or support relative decision making.

"PROMETHEUS sv" proposal regards to the validation and improvement of PROMETHEUS system. Validation is intended as testing of the reliability and accuracy of the individual components and the operationality of the integrated system.

Common experiments will be organised in different vegetation and soil types, under a variety of topographic and weather conditions. Each of the six modules of PROMETHEUS will be tested against actual data that will be obtained from laboratory, experimental and controlled fires. Selected real fires will be documented and used to complete models testing for scale and time periods that can not be covered by the experiments.

Fire behaviour experiments will be recorded for data post-processing in order to validate the respective PROMETHEUS module. Soil properties and vegetation will be monitored before, during and after fire in a number of cases for testing the assessments of the relevant system's module.

Operational tests of PROMETHEUS are planned in frame of the System Validation project in five European countries (France, Italy, Greece, Portugal and Switzerland) in co-operation with the competent authorities. Main objective of these tests is to familiarise operational people with fire management information systems and the ecological aspects of forest protection against fire.

Improvements concern extension of the knowledge of the individual modules and the development of a reverse reasoning mode. This mode will allow the system to make suggestions of prevention and suppression measures that should be taken in order to obtain predefined management objectives.

**Related information**

**Result In Brief**  
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Subjects

Agriculture - Environmental Protection - Forecasting - Safety

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