INTERNATIONAL WILDLAND FIRE CONFERENCE

GOVERNANCE PRINCIPLES:

Towards an International Framework

Porto - Portugal | May 16-19th, 2023

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INTERNATIONAL MARKON COMMITTEE FOR THE PAPE.























Portuguese methodology for operational decision support for rural/forest fires

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Fire Analysis Cell

Portuguese methodology for operational decision support for rural/forest fires

- 1. Importance of wildfire analysis
 - i. Before: Antecipate cenarios
 - ii. **During:** Capacity for analysis of the ongoing situation
 - iii. After: Lessons learned
- 2. How to implement fire analysis?
- **3. Portuguese case** Use of Fire and Analysis Group (GAUF)
- 4. The importance of the relationship between science and operation
- 5. Concept

Importance of fire analysis

Before | During | After



Why is it essential to implement fire analysis in the operation?



The same answer ???

More resources

VS

qualified resources

????



- More intense and faster
- More extreme events



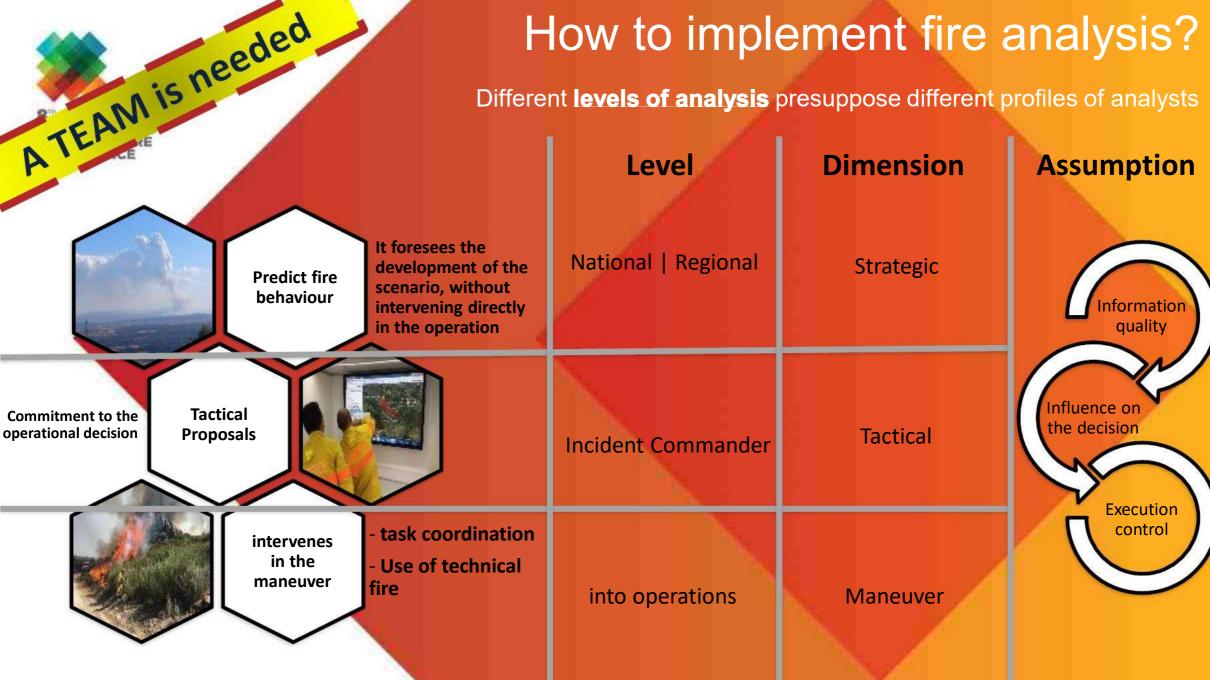
- Larger and more available territories
- Drier fuels
- More periods with severe weather



Investment in fire analysts investment in airplanes

investment increase

Efficiency?





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EAUF

The Fire Use and Analysis Group (GAUF) is composed by 28 specialists in analysis and use of technical fire, members of the Special Civil Protection Force. All of them are trained in prescribed burns and fire suppression.





NAD-AIR

• Strategical and a Tactical Analysis

Daily briefing at the National Command

Tactical proposals



- Near real time image and data transmission
- Direct articulation with NAD-AIR
- Fire analysis and information share
- Direct articulation with the incident Commander
- Analyze wildfire and suggests the strategic plan of action
- Plan and execute suppression tactics using technical fire





Operational Information to Incident Commander



fire spread simulation



After





Technical Report



Internal lessons



Portuguese case

Use of Fire and Analysis Group (GAUF)



What happens when decision support resources only appear when there is an emergency?

Contact with all agents and focus on development must be constant

Operational dynamics

- Researcher working in the analysis cell
- Operational instructions for all agents
- Prescribed Burn with firefighters

Fire analysis products

- Types of meteorological products in articulation with the IPMA
- Strategic Operational Analysis
- Co-creation with of risk maps and new prediction parameters (research)

Creation of decision support tools

- Common platform for wildfire analysis and management
- Wildfire energy released dashboard
- Fire simulator

Develop knowledge about the phenomenon

The Portuguese Large Wildfire Spread Database (PT-FireSprd)

https://essd.copernicus.org/preprints/essd-2022-475/#discussion https://zenodo.org/record/7495506#.ZEerAnaZPcs



Concept



Expecting the best development and technical analysis without guaranteeing basic needs is a utopia.

Communication

Adaptation of the operational response and prevention system

Work conditions

Qualified human resources

- ✓ Communication tools and common language
- ✓ Better definition of the analyst in the operations management system
- ✓ Legitimacy of the function in the legislation
- ✓ Adequate salary remuneration
- ✓ Legitimacy of the function in the legislation
- ✓ Career
- ✓ Selection of human resources
- ✓ Multidisciplinary education and training
- ✓ Constant relationship with scientific researchers
- ✓ Technological update
- ✓ Operational experience

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