



## INTEGRATED CHALLENGES STRATEGY

**Integrated Fire Management (IFM)** seeks to harness the ecological benefits of wildfires while minimising the damage they can cause to communities, infrastructure, and natural resources.

The views on fire management and governance have evolved towards a **more comprehensive and holistic approach**, recognising that it requires a multifaceted strategy linking the entire fire cycle and its components:

- 1) Prevention & Preparedness; 2) Detection & Response; 3) Adaptation & Restoration.

## LIVING LAB VOICES - WISHLIST

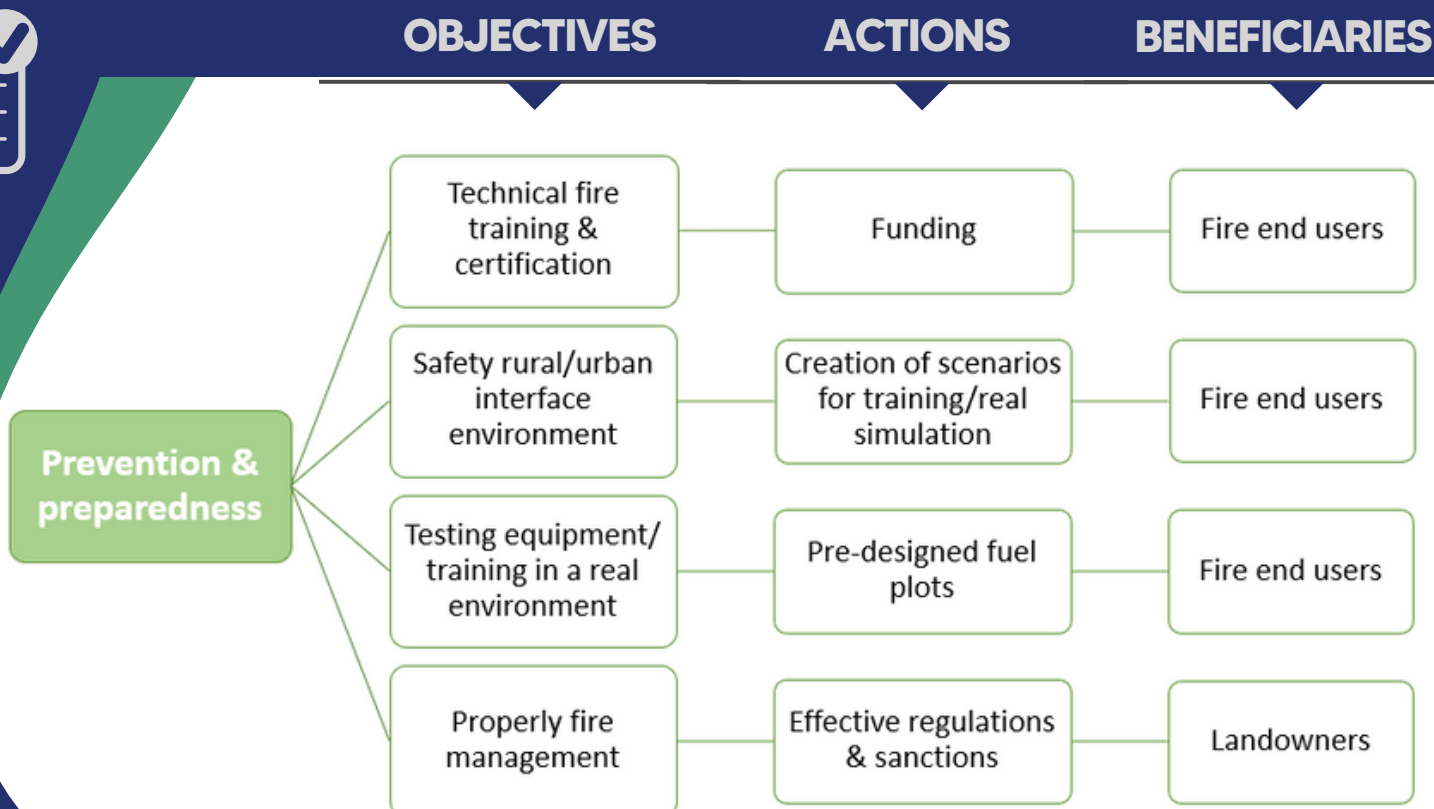
### Mobilise resources for effective action

- Training for technical fire in extreme real live conditions
- Training for response to infrequent extreme wildfire events in real-time conditions

### Understanding the risk

- Tools for improved risk assessment

## WHAT NEEDS TO BE OVERCOME?





## INTEGRATED CHALLENGES STRATEGY

Through collaboration among stakeholders and **adopting a proactive approach and innovative strategies**, IFM can lead to long-term resilient ecosystems, reduced risks to human life and property, and sustainable land management practice. These key principles contribute to **building more resilient communities and ecosystems in the face of wildfire challenges.**

## LIVING LAB VOICES - WISHLIST

### Safe and improved early attack and suppression

- Decision support tools for response
- Efficient and secure incident management
- Increase the safety, efficiency and operational awareness of forest firefighters during emergencies
- Safe and efficient night suppression

## WHAT NEEDS TO BE OVERCOME?

### OBJECTIVES

### ACTIONS

### BENEFICIARIES

Detection & response

New generation of Personal Protective Equipment

Design a new tool (smart glasses)

Fire end users

Safety of the operatives

Integrate photoluminescence into hoses

Fire end users

Avoid material losses

Integrate photoluminescence into hoses

Fire end users

Optimise the water in fire-engines

Built-in water-cooling system (4°C)

Fire end users





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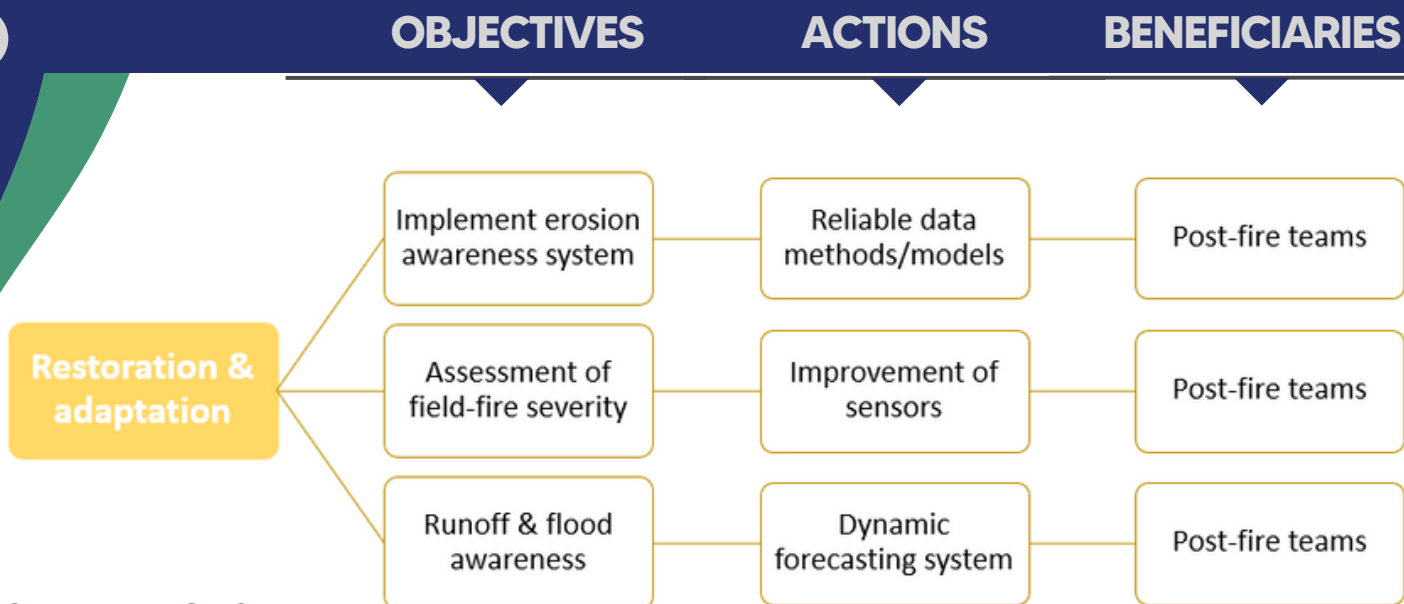
Mapping the stakeholders involved in IFM helps identify their interests, roles, and potential contributions to wildfire management efforts. However, it should be complemented by a comprehensive approach that includes adequate resources for fire agencies, advanced technology for fire detection and suppression, research on fire behaviour and ecology. Also, collaboration between stakeholders, including government agencies, communities, and environmental organisations.

## LIVING LAB VOICES - WISHLIST

### Smarter post-fire restoration and recovery

- Methods and tools to assess and address post-fire hydrological risks
- Real time forecast of post-fire hydrological risk
- Handheld or remote sensors to assess wildfire severity, related risks and restoration needs
- New solutions to determine post-fire restoration priorities

## WHAT NEEDS TO BE OVERCOME?



### CHALLENGES

