

Wildfire Mitigation – The Irish Experience



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http://www.rte.ie/news/2010/0423/galway.htm l#video

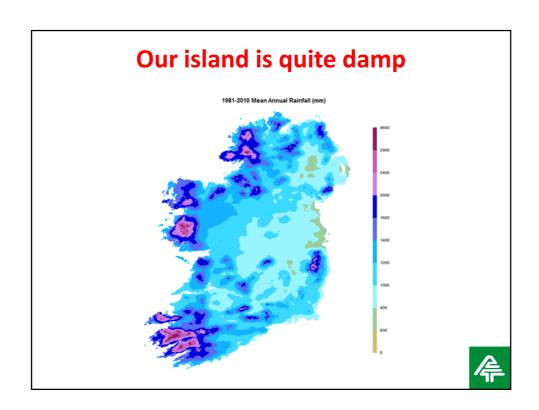


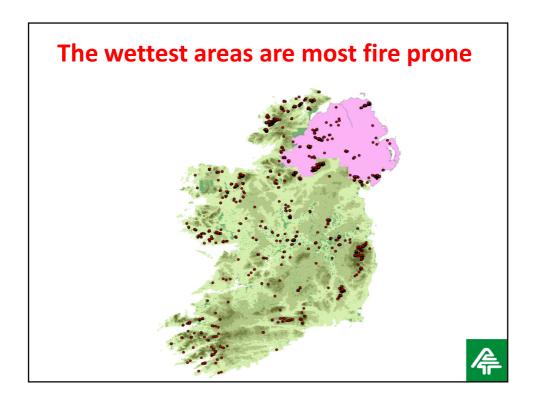
"This island is made mainly of coal and surrounded by fish.

Only an organising genius could prduce a shortage of coal and fish at the same time"

Aneurin Bevan Welshman







When we try to pick out anything by itself, we find it hitched to everything else in the universe.

John Muir







Wildfires are a visible symptom of many hidden problems

- 'Wicked problem' issue
- Land management issues
- Demographic/ Social Issues
- Urban interface issues
- Law enforcement issues
- Accumulated fuels
- Poor organisation
- Policy Transience

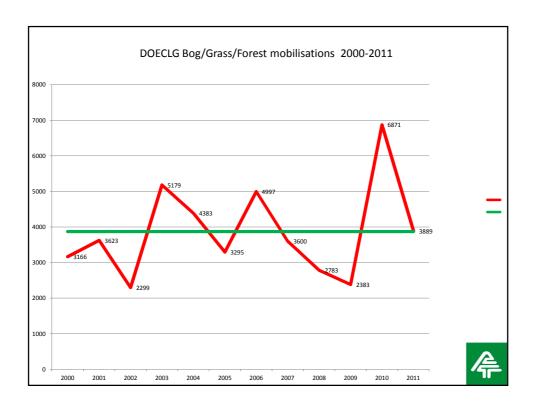


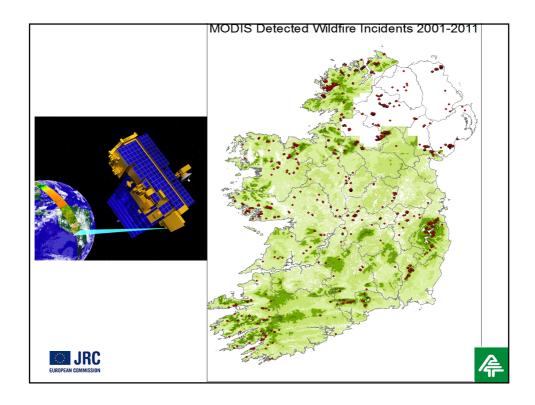
Other Challenges

- Wildfire is a part-time problem in Ireland
- Austerity Measures
- Emphasis on structural firefighting in FRS
- Poor wildfire culture across affected sectors
- Scarcity of data esp. Geospatial data
- Climate change impacts on fuels, weather
- Fuels accumulation, arrangement and extent











Effects of Wildfire-2011



- 700 incidents in 5 days
- 1500ha of forest destroyed
- 25,000ha land burned over
- Two Deaths
- Major fire service diversion
- 4 Dwellings destroyed
- Damage to critical Infrastructure
- Fire Suppression costs
- Long term damage to habita

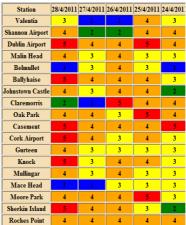


Fire Weather Warning System

Adapted from Canadian Forest Fire Weather

Index (FWI) System

- Based on ECMWF Data
- Main Synoptic stations
- 5 day forecast index,
- 5 day look back index
- Issued daily at 3pm
- 5 Condition ratings
- General fire warnings
- Prescribed fire Guidance





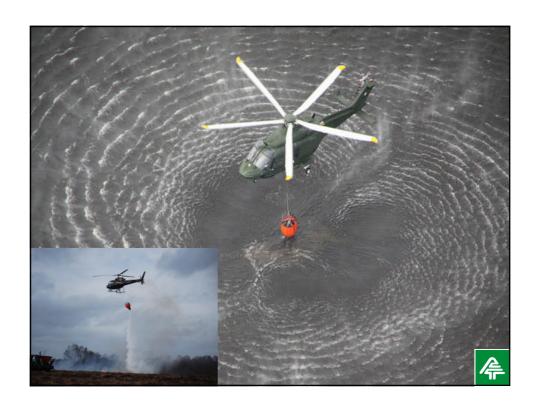














Local Level Fire Management Groups

- Organic Development
- Not centrally coordinated
- Fire interagency Groups Cork, Kerry (SW)
- Fire Management Groups Laois (Midlands)
- Controlled Burning Support Louth (NE)



Local Level Fire Management Groups

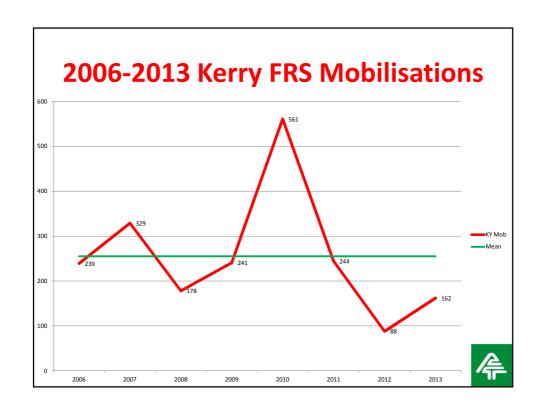
- Permit information exchange at local level
- Enable communication with key stakeholders
- Utilise and optimise existing structures, networks and capabilities
- Joint operation/cooperation/coordination of activities
- Common media message
- Interoperability

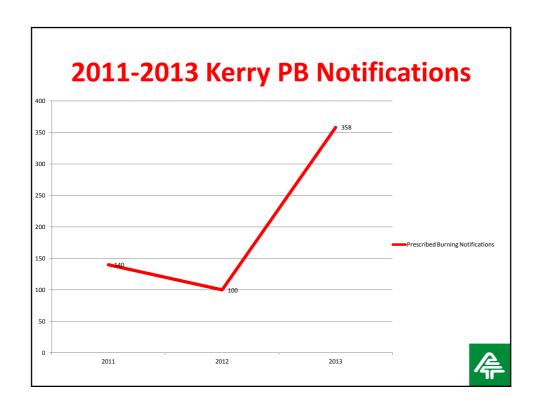


Critical elements

- Chief Fire Officer
- Senior Garda (Police) Officers
- Local Authority Public affairs officer
- Local Authority Community and Enterprise officer
- Farming organisations County Chairpersons
- 1-2 champions
- Local Media







Prosecutions



- Three prosecutions arising from 2012 incidents
- Four more prosecutions pending
- Average fine €250
- Farm Penalties



Conclusions

- Resilience comes from organisation
- Organisation comes from issue champions
- Consultation is key to behaviour modification
- The right kind of consultation for the right people
- Identify existing local structures and networks and adapt and optimise these for fire mitigation
- Low input, low cost localised methods are more resilient and more sustainable in the long run



Acknowledgements

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