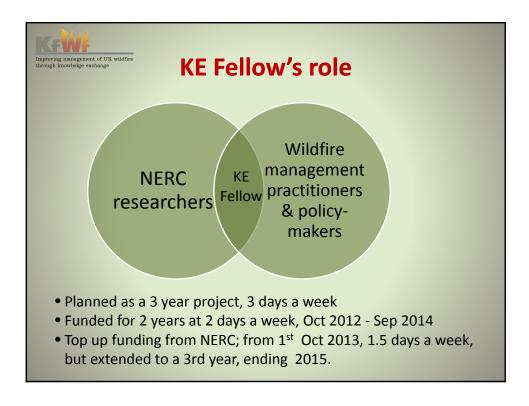




Structure of session

- Progress report on Knowledge for Wildfire project
- 2. Poster session





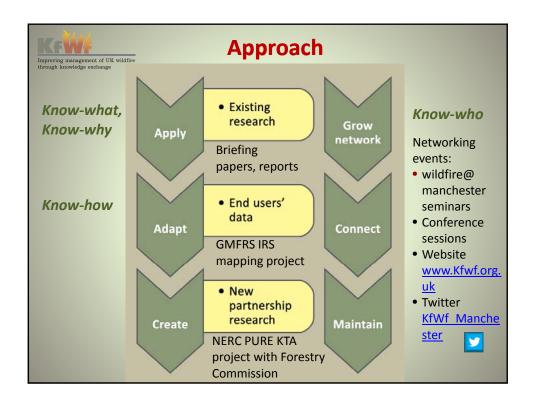
Project aims

- To maximise the use of existing NERC-funded research and promote mutually beneficial new research and KE projects on wildfire;
 - improve the evidence base for managing wildfire risk in the UK
- To assist the management of wildfire risk in the UK at all stages from prevention to response and recovery.



Project objectives

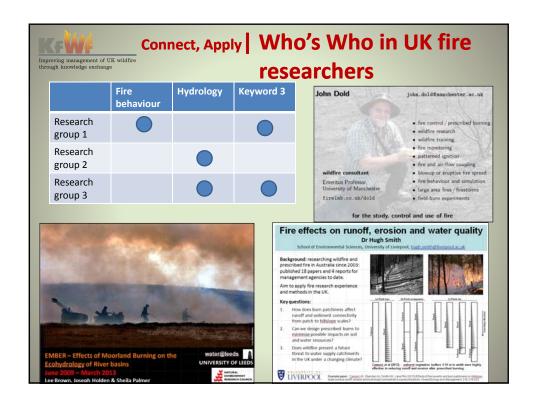
- **1. Connect** emerging cross-sector and cross-disciplinary interests in wildfire; awareness-raising and advocacy role
- Apply NERC's existing fire-related research, and use research to adapt (add value to) user data
- **3.** Create/facilitate new partnership research and KE which addresses knowledge gaps.

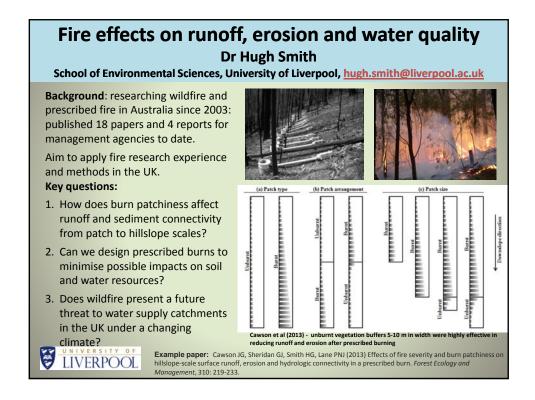


Improving management of UK wildfire Apply | How NERC science can help

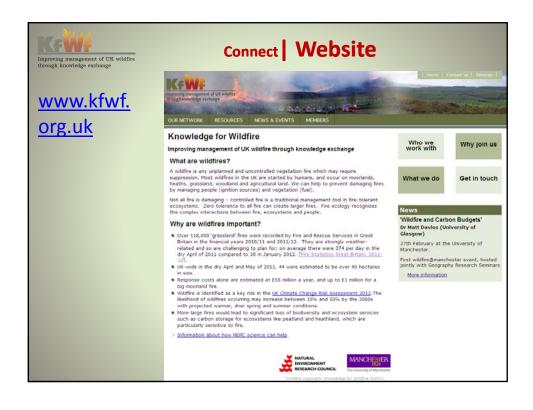
By improving our understanding of:

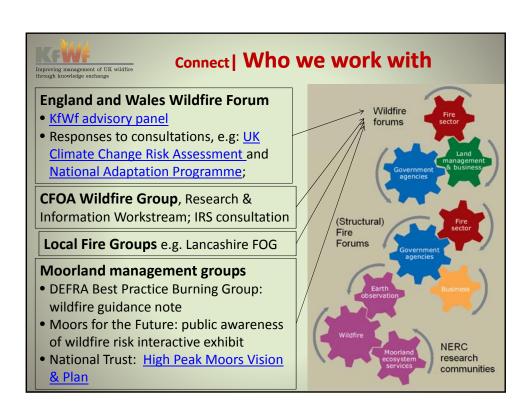
- How past fire regimes were related to climate and land management. How climate change may change wildfire frequency and magnitude, and feedback to climate
- How wildfires affect carbon budgets
- How wildfire emissions affect air quality and health
- How fire ecology explains complex relationships between fire, vegetation, soil, climate and people. How managed fire and wildfire interact with biodiversity, water colour and other ecosystem services
- How <u>remote sensing</u> can be used to detect: <u>pre-fire</u> fuel load & fuel moisture content; <u>active fire</u> location and energy; <u>post-fire</u> vegetation and soil burn severity, and monitor long-term ecological response
- How GIS can model wildfire risk, hazard and threat....etc



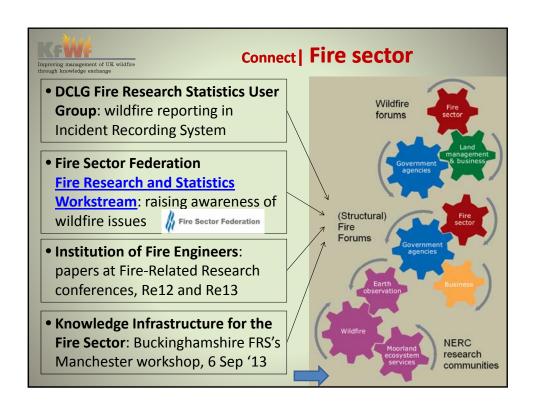






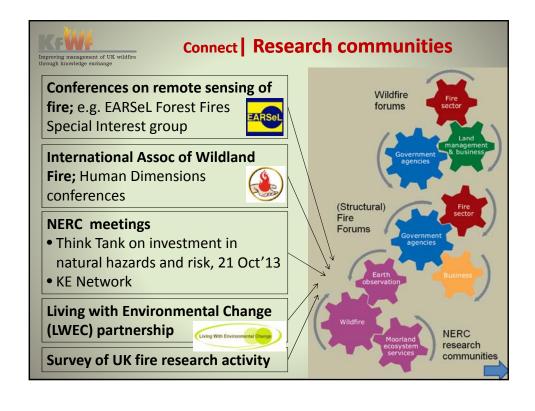






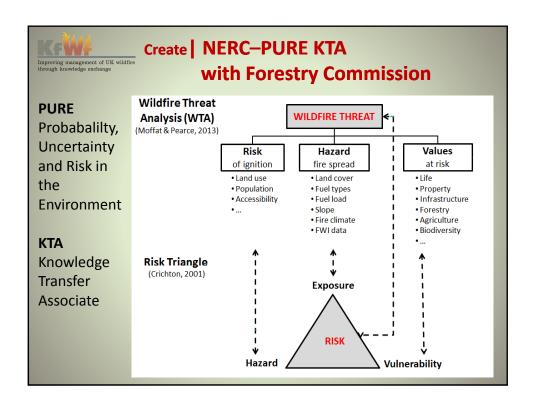














Benefits

For end-users

- Access to NERC-funded science and expertise
- Opportunities to work with researchers and influence the research agenda
- Add value to your datasets

For researchers

- Benefit from end-users' expertise and data
- Increase the impact of your research
- · Find out what new research end-users really want

For both

- Links into other networks
- Build partnerships for funding applications
- Improve the evidence base for management, policy making and funding applications



Thank you for listening

Questions?

<u>Julia.mcmorrow@manchester.ac.uk</u> <u>www.kfwf.org.uk</u>



Poster session

- 1. Controls on the formation, transport and fate of charcoal from moorland wildfires. Gareth D CLAY
- 2. Assessing prescribed burning performance over a 25 year period: a case-study. Pierre DENELLE, Katherine A ALLEN, Francisco M SÁNCHEZ RUIZ and Rob H MARRS
- 3. Measuring vegetation canopy moisture content with dualwavelength terrestrial laser scanning F.M. DANSON, R. GAULTON, S. HANCOCK, & L.A. WALKER
- 4. The Geography of vegetation fires in Greater Manchester: adding value to Fire and Rescue Service incident data.

 Richard DONLAN
- 5. *Development of a mobile app for fire prediction, detection and monitoring Philip E FROST and Derick SWANEPOEL
 - * Poster author not present



Poster session

- 6. The effect of drought on fire severity in heather moorland prescribed burning. Roger GRAU-ANDRES, G Matt DAVIES; Susan WALDRON and Michael BRUCE
- 7. *The International Wildfire Simulation Training Project: 3D serious game-based training and exercising of wildfire response professionals. Philippe MERESSE, Eric TURPIN, Martijn BOOSMAN, Steven VAN CAMPEN, et al.
- 8. Detecting moorland wildfire scars and their persistence in the landscape using Synthetic Aperture Radar (SAR); Peak District National Park. Gail MILLIN-CHALABI, Julia MCMORROW and Clive AGNEW
- 9. Flammability properties of British moorlands and heathlands vegetation: models for predicting fire ignition and spread. Victor M SANTANA, Rob H MARRS
 - * Poster author not present