



Wildland-Urban-Interface Virtual Essays Workbench

WUIVIEW



Kick-off Meeting 28 Jan 2019 at DG ECHO / ERCC

The WUIVIEW Consortium



- Universitat Politècnica de Catalunya – **UPC** (Coord.) - *Spain*
- Associação para o Desenvolvimento da Aerodinamica Industrial – **ADAI** – *Portugal*
- Fundació d'Ecologia del Foc i Gestió d'Incendis Pau Costa Alcubierre – **PCF** – *Spain*
- Association pour la Recherche et le Developpement des Methodes et Processus Industriels – **ARMINES** – *France*
- Alma Mater Studiorum Università di Bologna – **UBO** – *Italy*
- Rise Research Institutes of Sweden Ab – **RISE** – *Sweden*



Basic Project Data

- Project duration: 24 months (01/02/2019 – 31/01/2020)
- Total project eligible cost: 762,687.44 €
- EC financial contribution: 572,015.58 € (75% total eligible cost)
- Area of activity: Prevention
- Priority: Development of disaster risk reduction strategies, taking into account climate change adaptation



Wildland-Urban-Interface (WUI) Fires



Background & Needs



- Climate change is worsening the WUI fire problem throughout Europe
 - More intense wildfires
 - Emergent WUI-fire prone zones in northern latitudes
- WUI fires quite often exceed fire-fighters capacities
 - Self protection is a growing need
- Observations from WUIWATCH project:
 - Fuels at home-owner scale whose hazard is poorly characterized and disregarded
 - Vulnerable elements in houses whose response to and interaction with fire is unknown
 - Lack of scientific-based standards to deal with the WUI problem at the microscale

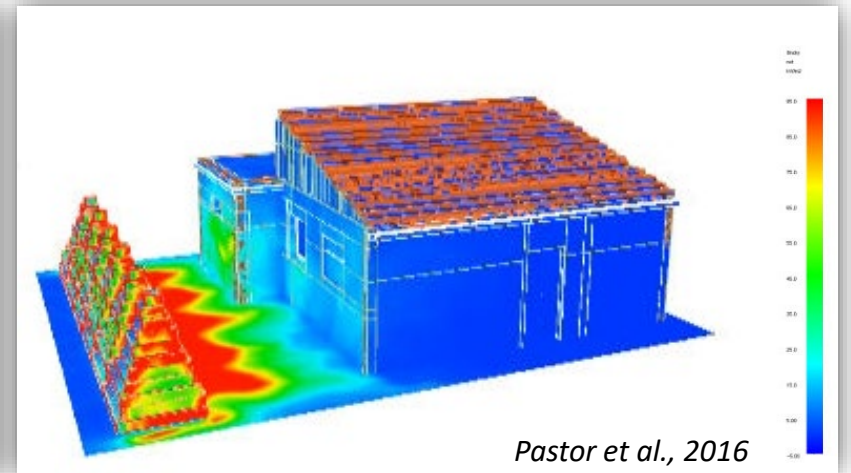


Objectives & Activities

WUIVIEW aims at reinforcing WUI fires risk reduction strategies by...

Designing, testing and operating a virtual workbench service for the analysis of fire hazards and buildings vulnerabilities at different European WUI realities

- Platform to perform essays and simulation studies dealing with structures survivability and sheltering capability
- Workbench set-up
 - Real fire experiments
 - Modelling and simulation
 - Demonstration in real WUI settlements
(Spain & Sweden)



Outputs, Follow up & Major Events

EXPECTED OUTPUTS

- ✓ Data on fuels hazard and buildings vulnerabilities
- ✓ Modelling codes and guidelines
- ✓ Recommendations for regulations improvement
- ✓ Education material
- ✓ Scientific papers and conference communications

EXPECTED RESULTS

- ✓ Improved knowledge and awareness to all fire actors
- ✓ New capability to assist fire safety design

EXPECTED FOLLOW-UP

- ✓ Consultancy service to manage WUI fire risk in vulnerable communities

• Major Events:

- Two international workshops: I Coimbra - (~ M12)- on hazards at the WUI microscale. II Barcelona – (~ M23)– on modelling for fire safe designs. WS coupled with project meetings.
- Kick-off meeting in Barcelona (11/02-12/02). Other technical meetings (some partners): Barcelona (~ M9), Borås (~ M13).
- Fire experiments in Coimbra and Alès (M7-M8).

More information:

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