

Collaborating for Change: Multi Stakeholder-Data Driven Innovation in Wildfire Policy. Lessons from SILVANUS.

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Abstract

SILVANUS, Horizon 2020 Green Deal project involving 49 partners from 20 EU and 3 non-EU countries, committed to advancing wildfire risk management through an interdisciplinary, stakeholder-driven approach. This abstract presents the policy recommendations developed using a data-driven methodology, to be delivered to the European Commission and Parliament, designed to inform future EU actions by translating field-tested, stakeholder-informed solutions into effective actionable policies.

The project demonstrates the importance of involving civil society, industry, and public authorities in target-oriented research. Through a massive use of technology and AI, SILVANUS piloted innovative tools across diverse landscapes, aligning the achievements with real-world needs and the EU's twin digital and green transitions. Testing beyond EU borders underlines the global relevance of wildfire adaptation, as climate risks transcend frontiers, benefiting from scaling up the most advanced solutions available worldwide.

SILVANUS promotes digital and green literacy, delivers advanced training via virtual and augmented reality in crisis scenarios, mobilizes civil protection stakeholders, local communities, and multiprofessional teams. This collaborative ecosystem supports the co-design of scalable and transferable policy solutions that address the needs of governments, academia, citizens, and the private sector alike.

The project reaffirms AI and advanced technologies as enablers of systemic change, stressing the imperative of a human-centered, cross-sectoral approach to climate resilience. The IWRM digital platform aggregates real-time data from drones, satellites,

sensors, and meteorological stations to predict extreme wildfire events, strengthen preparedness, and support ecosystem recovery, thus accelerating innovation and sustainability in environmental governance acting as an innovation accelerator.

Keywords: Wildfire integrated management, AI and public policy, EU Green Deal, stakeholder engagement, citizen literacy and immersive training, data-driven innovation, interdisciplinary research