



SILVANUS

VOL
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SILVANUS - European Green Deal Project for Wildfire Management and Climate Change

SILVANUS is a Horizon 2020 Green Deal project, named after the Roman deity of woods and uncultivated lands, whose main objective is to create a climate resilient wildfire risk management platform to prevent and suppress forest fire, and to restore burnt areas. The project is promoting innovative sustainable forests, wildfire governance framework and policy recommendations for a society resilient to wildfires. SILVANUS consortium includes a wide range of environmental, technical and social science experts from eighteen countries, spanning over four continents, who will support regional and national authorities responsible for wildfire management in their respective countries.

SILVANUS experts will help authorities to efficiently monitor forest resources, to evaluate biodiversity, to generate more accurate fire risk indicators, and promote safety regulations among the local population affected by wildfire through awareness campaigns.

Immerse yourself in the world of SILVANUS!
Modern and Innovative Protector against Extreme
Wildfire, For the Benefit of Forests and Humankind

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This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No 101037247

SILVANUS in Brazil -

Pilot Demonstration in Rio de Janeiro and Tijuca National Park

The final pilot of the project, organised by Consortium partner COPPETEC, took place in Brazil between February 24th and 27th, 2025. It featured presentations of the full version of the platform to Brazilian stakeholders from the SILVANUS team, including representatives from Venaka Treleaf GbR, Netcompany-Intrasoft, Agricultural University of Athens, Universitas AMIKOM Yogyakarta, Center for Security Studies (KEMEA), Zanasi & Partners, ITTI, Expert.ai, SYNTHESIS Center for Research & Education, ASSET Puglia and Moravian-Silesian Fire Rescue Brigade.

Demonstrations of Brazilian efforts in wildfire prevention were made by representatives from Federal University of Rio de Janeiro, National Center for Monitoring and Early Warning of Natural Disasters (Cemaden), National Center for Forest Fire Prevention and Combat – Ibama, Civil Protection/Fire Department of the State of Rio de Janeiro – CBMERJ, Secretariat of Environment and Climate (SEMAC) of Paracambi and Rio de Janeiro. Topics included solutions for the sustainability of the Amazonian rainforest, overview of Brazilian wildfire case studies, and a special visit to Tijuca National Park, a pilot site close to Rio de Janeiro.

One particular highlight was the SILVANUS support and presentation by Carlos Nobre, a renowned scientist and meteorologist, who contributed to the 2007 Intergovernmental Panel on Climate Change (IPCC) report that has received a Nobel Peace Prize.

Thank you to COPPETEC and the Brazilian stakeholders for the opportunity to present the platform in an important international partner country. SILVANUS team sends its best regards!

The Brazilian pilot was the final pilot demonstration of the project, bringing a successful end to two trial periods of platform testing and pilot sessions from 2023 to 2025.



FirEURisk-SILVANUS Online Webinars

1st Webinar- Main Achievements Presentation



Thursday 06th of February, 12.00pm-13.30pm

Timeslot	Action	Presenter	Organization
11.50am-12.00pm	Opening the online platform		
12.00pm	Welcoming all participants & describing the agenda	Klelia Petrou	EUC
12.05pm-12.15pm (15 minutes)	Welcoming and 5min presentation FirEURisk	Domingos Viegas	ADAI-FirEURisk Coordinator
12.15pm-12.45pm (30minutes)	FirEURisk- Presentation of Main Results & Achievements for IWFM	Emilio Chuvieco Salinero	UAH
12.45pm-13.15pm (30minutes)	SILVANUS- Presentation of Main Results & Platform	Krishna Chandramouli	Venaka Treleaf GbR
13.15pm-13.30pm (15minutes)	Questions from the Q&A Panel	All	TBC
Closing Webinar 01			



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The 1st session of the joint FirEURisk-SILVANUS webinar series, entitled “Managing & Living with Wildfires in Europe: Highlights on Integrated Wildfire Risk Management from FirEURisk & SILVANUS EU Horizon projects”, took place on February 6th, 2025. SILVANUS technical manager Krishna Chandramouli summarised the key achievements of the project at the first of two collaborative webinars between FirEURisk and SILVANUS.

The presentation emphasised the cooperation between the two projects, such as the use of the fuel map data of FirEURisk to advance the results of the SILVANUS platform.

The name of the second webinar between FirEURisk and SILVANUS was titled “Fuel-Relevant Land Management Strategies as part of an Integrated Fire Management (IFM) Approach”. Highlights included discussions on prescribed fire as a landscape management tool and animal grazing as a wildfire prevention tool (on the basis of case studies in Greece and Portugal), analysis of impact assessment framework for SILVANUS platform, and combining IFM and Closer-to-Nature Forest Management concepts to reduce the risk of wildfires.

SILVANUS presenting the Citizen Engagement Course and Campaign at the Ukrainian “Library for Your Needs” Round Table

SILVANUS had the honour of presenting the Citizen Engagement Campaign and Course at the “Library for your Needs” hybrid round table in Ukraine on March 4th, 2025, organised by Ukrainian Library Association, Yaroslav Mudryi National Library of Ukraine in Kyiv, Library Country Charitable Foundation, and funded by the Swedish Institute.

The event was organised within the “Empowering Libraries for Rebuilding Ukraine” project, led by SILVANUS Consortium partner University of Borås (HB).

Kayvan Yousefi Mojir from HB, one of the leading experts behind the SILVANUS citizen engagement educational campaign and course, presented the project online to an audience of educators, media experts, librarians in Ukraine and beyond. The event also included presentations from National Library of Latvia, Riga Central Library, Khmelnytskyi City Centralised Library System, Mykolaiv Regional Library for Youth, and Kropyvnytskyi Regional Universal Research Library.

Лілія Гребенюк Тетяна Петрич... Ірина Дементь... Оксана Зиминс... SPILNO БІБЛІОТЕКА

Лілія Гребенюк Тетяна Петриченко Olha Maksymenko Ірина Дементьева Оксана Зиминська, Х... Spilno

Posters and campaign

WILDFIRE PREVENTION AND SAFETY TIPS TO CITIZENS

PROTECT YOUR HOUSE

- Create a defensible space**
Remove all flammable material, like dry leaves and twigs, branches in a 10 m perimeter around the house.
- Flammable material**
Store flammable material in sheltered areas, avoid use of flammable building materials.
- Equipment to have**
 - Water tank
 - Water pipes
 - Pumps
 - Fire extinguisher
 - Power generator
- Wildfire prevention needs your engagement**
- Keep trees trimmed**
Trim tree branches and bushes near your home to reduce the risk of fire spread.
- Ask for help**
Call 112
Free of charge from mobile phones, even without a SIM card OPERATED IN ALL EU MEMBER STATES!

THE MOST COMMON CAUSES OF WILDFIRES

- DEBRIS BURNING**
When waste, trash or vegetation from yard clean-up are burned in large piles, embers can easily be carried away by the wind.
- UNATTENDED CAMPFIRES**
Campfires left unattended, growing out of control, or not fully extinguished can be dangerous.
- UNEXTINGUISHED CIGARETTES**
Dry vegetation can catch fire and spark a massive wildfire from unextinguished cigarettes.
- ARSON**
The intentional and illegal act of setting fires.
- LIGHTNING STRIKES**
Lightning can release enough heat to ignite a tree or other fuels when it strikes an object.
- VEHICLES AND EQUIPMENT**
Anything that can cause a spark has the potential to spread a fire outdoors, especially in ideal fire weather conditions.
- CLIMATE CHANGE**
High temperatures and droughts can prolong forest fire seasons and increase the flammability of dry grass, leaves, twigs, or pine tar.

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IF YOU ARE IN THE FOREST/COUNTRYSIDE

7 tips To prevent wildfire in forests

- 01** Never burn rubbish, dry leaves or branches.
- 02** Don't have barbecues close to dry vegetation.
- 03** Do not smoke and never throw lit cigarettes in open-air places.
- 04** Stay informed about local fire conditions and weather patterns.
- 05** Notify the authorities if you notice the presence of people with risky behavior.
- 06** Report any suspicious fires to the authorities immediately.
- 07** Bring your meal prepared to avoid lighting fires.

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This was a powerful round table on the advantages and power of education, knowledge, and organised common action in Ukrainian libraries, schools and other institutions in times of war. SILVANUS team is grateful to the organisers of the “Library for Your Needs” round table for making a small contribution to a great cause.

Wildfire

8 modules
90 topics

CITIZEN ENGAGEMENT COURSE



The course aims at empowering individuals and communities to become proactive participants in wildfire management.



Forest ecosystems

Biodiversity

Fire behaviors

Family emergency plan
Response and recovery

The course has been designed for general public by involving firefighters, educational institutes and civil protection agencies.

- M1.** Introduction to wildfire
- M2.** Wildfire Management
- M3.** Forests ecosystem
- M4.** Biodiversity And Wildfire
- M5.** Wildfire Prevention
- M6.** Preparedness
- M7.** Response And Recovery
- M8.** Citizen Engagement

Wildfire prevention
Home protection



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Platform Component and Citizen Engagement Course

Videos on SILVANUS YouTube Channel

IoT Device Technical Details

- Collection of imagery and sensory data
- Detection of fire/smoke events in images on the edge, using ML algorithms
- Self-powered
- Connection to Wi-Fi/mobile network
- Secure data transmission



The screenshot shows the SILVANUS web application interface. On the left is a sidebar menu with various features like 'Fire Danger Index', 'Smoke/Fire Detection', and 'Evacuation Route Planning'. The main area displays a map with a blue evacuation route. On the right, a 'Evacuation Route Planning' panel provides details for a route from 'Risk Area1' to 'Ischitella', including distance (7568.1 meters), duration (753.7 seconds), and a list of steps with specific instructions and timing.

It shows the exact steps and a timer that indicates how long the route will be safe.



SILVANUS
CITIZEN ENGAGEMENT

BY GAINING KNOWLEDGE ABOUT FORESTS AND WILDFIRES, YOU CAN SAVE LIVES,
MINIMIZE ENVIRONMENTAL DAMAGE, AND PROTECT FORESTS.
JOIN THE MOVEMENT!



Report from the SILVANUS Final Event

The final SILVANUS event entitled “Contributions and Collaborative Strategies in Advancing Climate and Environmental Policies for Landscape and Community Resilience through Integrated Wildfire Risk Management (IWRM)”, organised by the project coordinator Università Telematica Pegaso, marked the end to three and a half years of intense and highly collaborative work between 49 partners from 18 countries. The event took place at the Lazio European Affairs and International Relations Office in Brussels on March 25th, 2025.

The project was presented by the SILVANUS Consortium members, showcasing the platform and its components, such as the Fire Detection IoT Device, AR/VR Training for Firefighters, Forward Command Centre and Health Impact Assessment. The citizen engagement campaign, organised by University of Borås, was highlighted by an exhibition of posters, flyers and videos, which included the animated characters Silvanus the Trailblazer and Squee watching over the session. A demo video of the platform developed by ITTI, as operated by an end-user, was also displayed to stakeholders.



Report from the SILVANUS Final Event



The event was introduced by Roberta Pascolini, the Institutional Relations Coordinator of Lazio Region, the host of the event, and David Vannozzi, Vice President of International Academic Relations and Development from Multiversity Group. A keynote speech was made by Francesca Di Giuseppe from European Centre for Medium-Range Weather Forecasts (ECMWF) on the escalating dangers of extreme wildfire and future forecasts.



Michele Corleto, the project's coordinator, explained the main objectives of SILVANUS and their implementation for the 3.5-year duration of the project. The scientific coordinator Krishna Chandramouli has highlighted the key achievements of the project and the potential future of its outputs. External speakers such as Simone Borg, Malta's Ambassador for Climate Action, Nicolas Faivre from European Research Executive Agency (REA) and Claudia Berchtold, project coordinator of Firelogue enriched the discussions as panel leaders and contributors on the role of SILVANUS platform in wildfire management.



Report from the SILVANUS Final Event

The comprehensive panel sessions and discussions by SILVANUS members on the platform's technical advantages such as the decision-support system, the role of artificial intelligence in the platform's development and policy integration were some of the key highlights of the event.

The event concluded with a letter from the Vice-President of European Parliament Antonella Sberna, supporting and congratulating the project on its successful implementation, emphasising the project's impact on wildfire management.

The SILVANUS team wishes to thank all of its readers and stakeholders for following us throughout the project over the past 42 months. The modern and innovative protector against extreme wildfire is now at curtain call, but the team expects that its results and impacts will endure!



Silvanus the Trailblazer and the Consortium say Goodbye



After 3.5 years of the project, SILVANUS was presented at 135 events in 29 countries to an audience of over 23,000 experts...

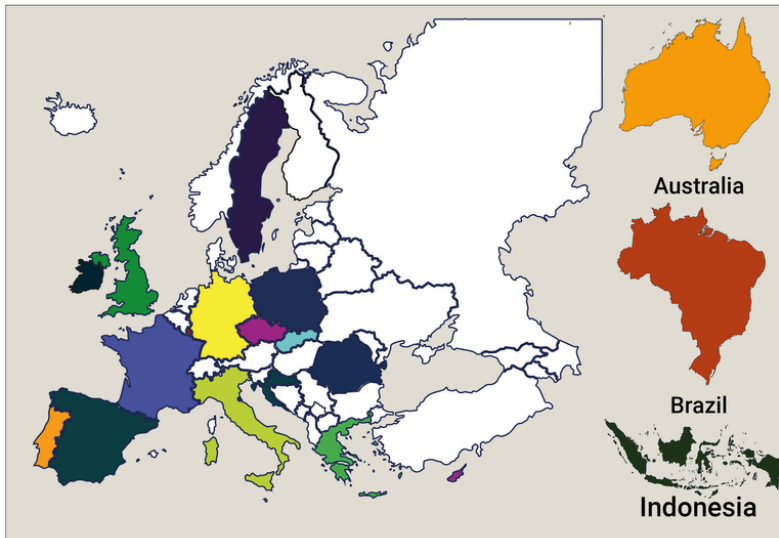
The project's impact will go on! Visit silvanus-project.eu for more information.

The Consortium, Silvanus the Trailblazer and Squee say goodbye and farewell... Continuing to trailblaze for the benefit of forests and humankind!





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