RESONATE
Resilient Forests for Society

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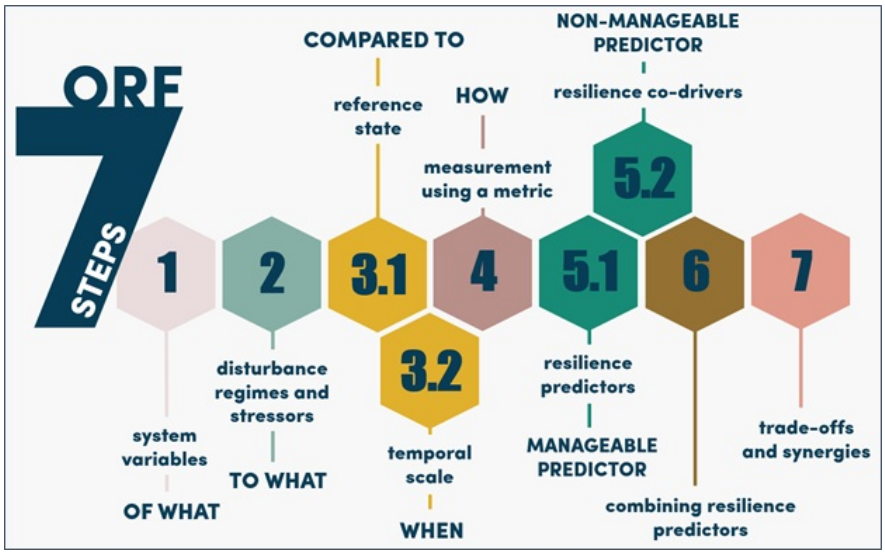
An operational guideline to enhance forest resilience

The increasing need of finding ways to adapt forest ecosystems and the forest value chain to cope with the challenge of climate-induced disturbances and stressors has prompted RESONATE researchers to develop a common framework for assessing resilience. Find out more about this operational guidance called Operational Resilience Framework (ORF) here.



Marcus Lindner: recommendations on future forest risk management for German Government

“The urgently needed adaptation of forests and forestry to climate change will keep us busy for a long time to come”, says RESONATE coordinator Marcus Lindner. The Scientific Advisory Council for Forest Policy (WBW), which supports the German Federal Government in shaping the framework conditions for sustainable forest management, published an expert opinion on this topic in October to which Marcus contributed. Get to know what it was about here.

Introducing our “sister project”: ONEforest for a common forest management

The ONEforest H2020 project seeks to adapt European forests to the climate crisis for the long-term provision of Forest Ecosystem Services. ONEforest is developing a multi-criteria decision support system for common forest management. Discover it here.

Forests’ potential for climate change mitigation: Buildings as a global carbon sink

How can forests and their products and services best contribute to climate change mitigation? This is probably the most controversial question one can currently ask when discussing the role of forests to combat climate change – and even scientists tend to disagree here. Read the full article on our EFI Resilience blog.

Projecting the future of our forests? Scenarios and uncertainties of forest models

How will our forests look like in 20, 50 or even 80 years? Nobody knows for sure, but forest researchers try to imagine how they will, could or should look like. This forecasting has been done for hundreds of years by forest practitioners with different methods to secure sustainable wood use.

The silent suffering of trees during the 2018 heatwave

With climate change we can expect that heatwaves, like the one occurring in large parts of Europe in the summer of 2018, will occur more often in the future. Check out the new Nature Communication on the impact of the 2018 heatwave on trees growing across Central and Atlantic Europe and explore how European tree species growing under various site conditions experienced such extreme weather here.

Disturbances, forests, and people: operating the world of forest resilience

RESONATE project's Twitter has explored different definitions for forest resilience. Some of them sounded rather similar, some very different and all of them might have left the reader with more questions: "But what does this mean in practice?". In this article Laura Nikinmaa tries to enlighten the mysterious and sometimes headache-inducing world of resilience.

Upcoming events

Marcus Lindner will contribute with an intervention on "Enhancing resilience of European forests based on state-of-the-art disturbance evidence, disturbance scenarios and forest modelling – approaches used in the I-Maestro and RESONATE projects" to the conference "Anticipating and Managing Multiple Risks in Mediterranean and Boreal Temperate Forests: European and North American Approaches" (Home | Multirisks2021 forests-multirisks2021.com) held at Bordeaux Sciences Agro Gradignan, France, on 4-6 July 2022.

Laura Nikinmaa, Elena Cantarello, and **Marcus Lindner** will join the conference on "Forest Disturbances and Ecosystem Dynamics in a Changing World" (Ecosystem Dynamics and Forest Management: Forest Disturbance and Ecosystem Dynamics Symposium 2022 (tum.de) organized by Technical University Munich (Rupert Seidl and others) from 19-21 September 2022 e.g. with a poster on "Indicator framework for social-ecological resilience of forests: a balancing act".

Several RESONATE researchers will participate in the IUFRO conference in Vienna from 21-23 September 2022.

Tomáš Hlásny is an invited speaker at the scientific-technical symposium on assessing forest damage and disturbance in the UNECE region in Vienna, Austria from 29-30 September 2022, where he'll discuss some of his RESONATE work.

Upcoming papers

Together with **Laura Dobor** and other researchers, **Tomáš Hlásny is currently working on a paper on** "How resilient is the forest carbon cycle to climatic extremes in Central Europe?" This is a modelling study based on the BBGC model with C-cycle simulation over several plots, from Croatia to Northern Poland.

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