

Motivation:

- increasing forest fire risk in central Europe
- lack of characterization of central European forest structures from a **fire behavior perspective**

Aim:

- develop a **fuel type classification** for central European forests
- develop an **image-based approach for mapping fuel types** using Deep Learning

Methods:

- **field inventory of fuels** in central European forest types
- **classification** into characteristic fuel types based on fire-carrying fuel component
- **training of a Convolutional Neural Network (CNN)** for automatic identification of fuel types from photographs
- **mapping** of fuel types using **geotagged imagery**, potentially in a citizen-science approach

