Fighting Fires Proactively with **WIFIRE Commons**

BurnPro³ᴰ
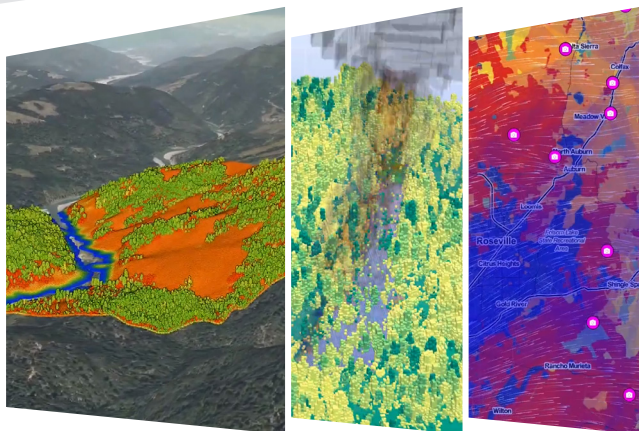
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The Problem

A century of suppressing wildfires has created a dangerous accumulation of flammable vegetation on landscapes, contributing to megafires that risk human life and property, and permanently destroy ecosystems.

The Solution

Small controllable fires can dramatically reduce the risk of large, uncontrollable fires. BurnPro³ᴰ is a decision support platform to help the fire response and mitigation community understand risks and tradeoffs quickly and accurately to more effectively manage wildfires or conduct controlled burns.

BurnPro³ᴰ harnesses novel ensemble simulations using a new coupled fire/atmosphere model to capture the interaction between user-defined complex ignition patterns. BurnPro³ᴰ enables active collaboration among land managers, burn bosses, plan-approvers, and policy-makers to significantly increase the proactive application of fire in order to successfuly combat devastating megafires. In both fire mitigation and fire response, BurnPro³ᴰ also supports users in communicating risks and trade-offs to regulators and the public.

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