COLORADO

Center of Excellence for Advanced Technology Aerial Firefighting

Department of Public Safety

Colorado Fire Prediction System

Planned Development and Research

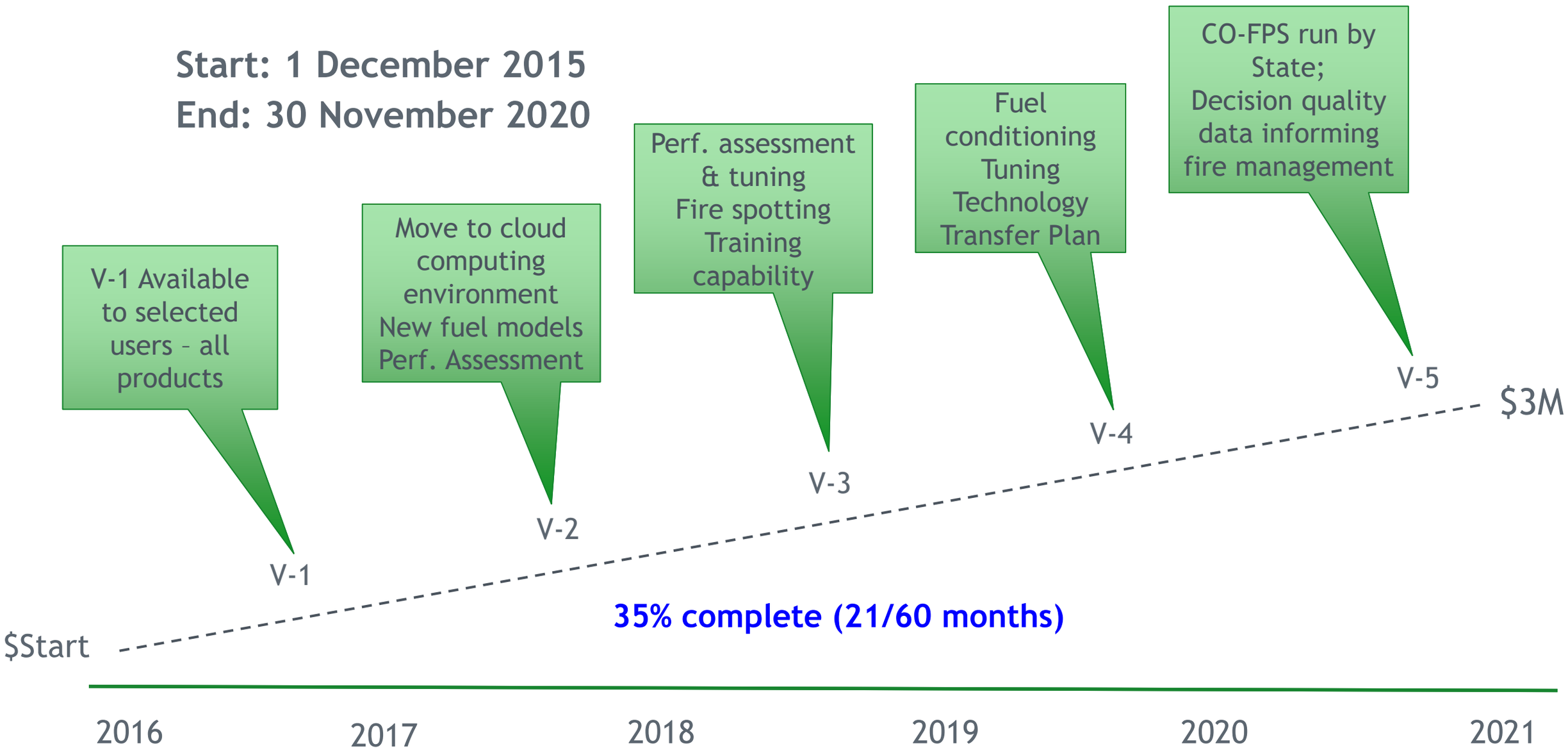
COLORADO

Department of Public Safety

Is the project on Schedule?

YES – On schedule and budget

Start: 1 December 2015
End: 30 November 2020



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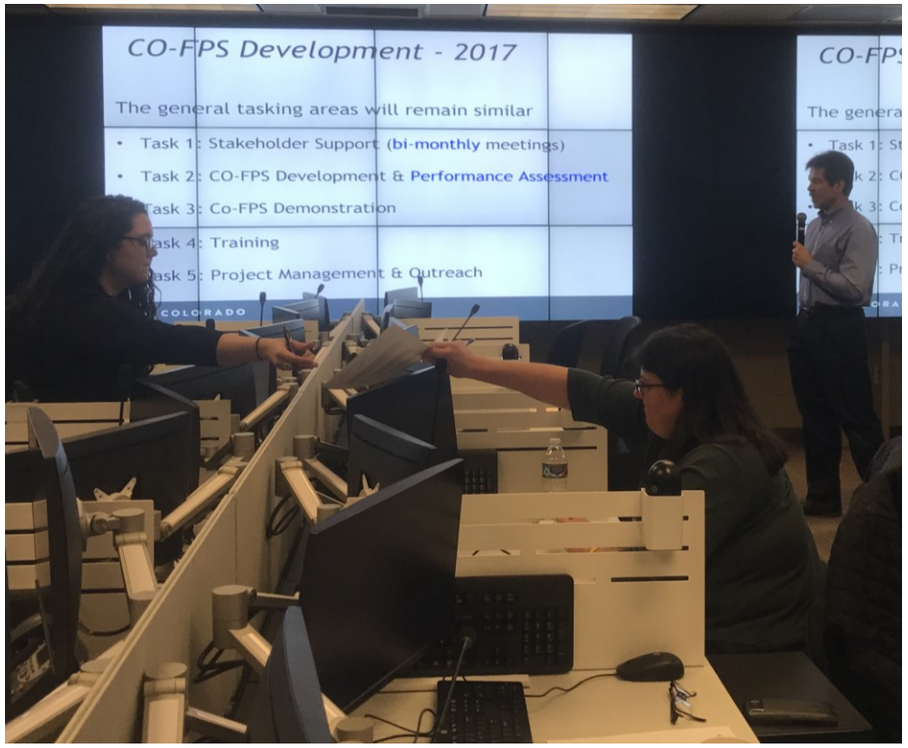
CO-FPS Long Term Vision

CO-FPS moved to cloud, additional stakeholders solicited

Additional features added to CO-FPS including enhanced fuels data

Verification study drives improved accuracy of system

Decision-quality data produced by CO-FPS, technology transferred to State



Verification Plan

- Remotely sensed data from DFPC and federal aircraft, and satellites is utilized to verify predicted fire spread.

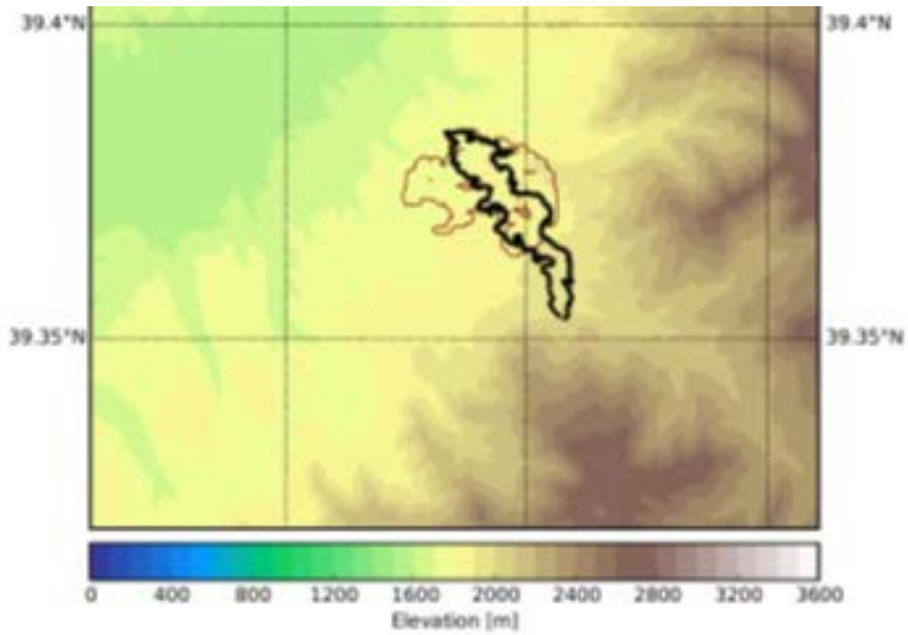
- The ability of the MMA to capture multiple perimeters on a single fire has been demonstrated several times.

- NCAR is ingesting this type of remotely sensed data into CO-FPS for model verification purposes.

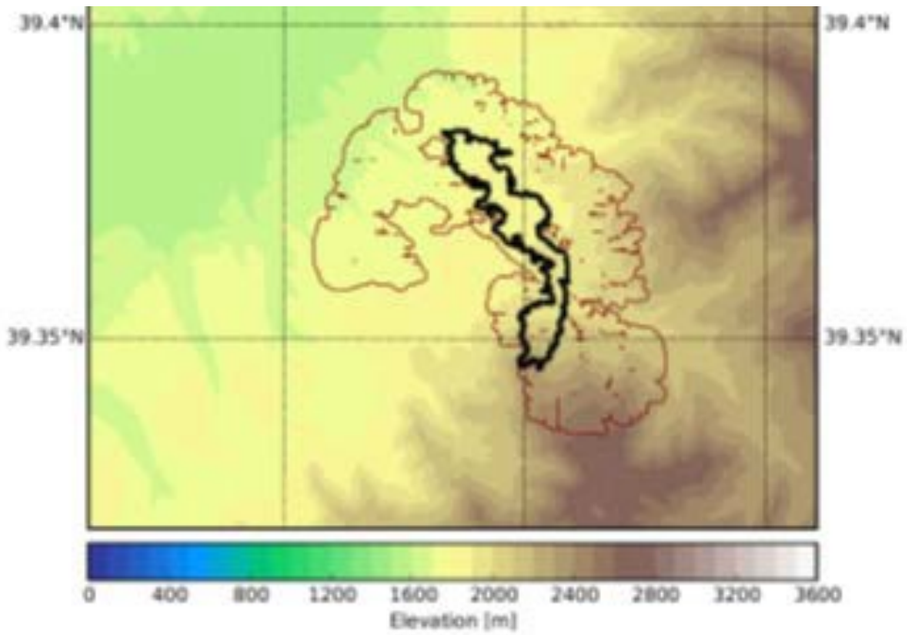
2016 Verification Research

- Comparison between actual fire growth and CO-FPS predictions were made on 11 Colorado wildland fires in 2016. The model is currently being tuned using results from this study.

- 2016 research revealed that CO-FPS generally over-predicts fire growth, though most researched fires were subject to human fire suppression.

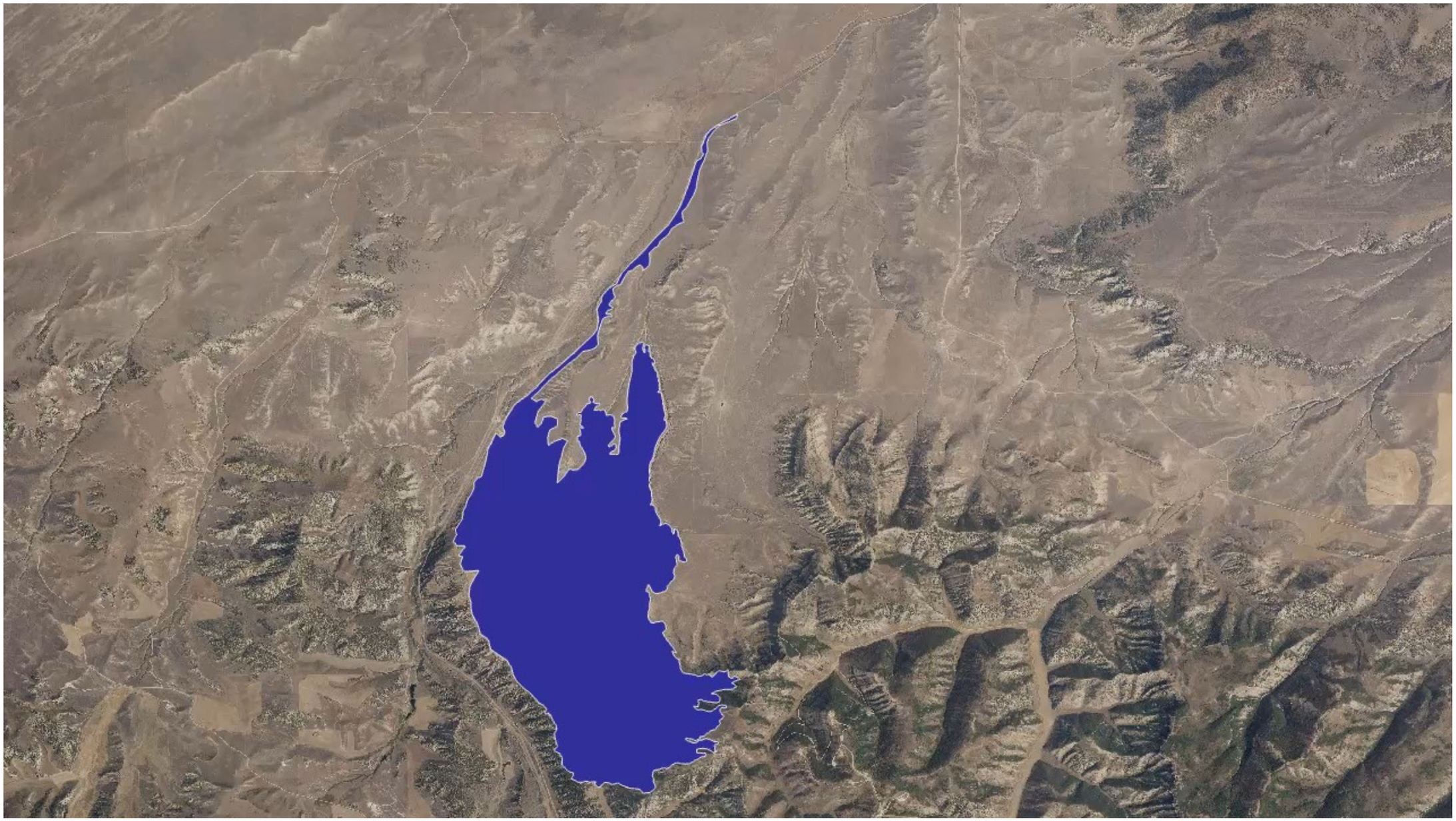


Spring Creek 2, Phase 1

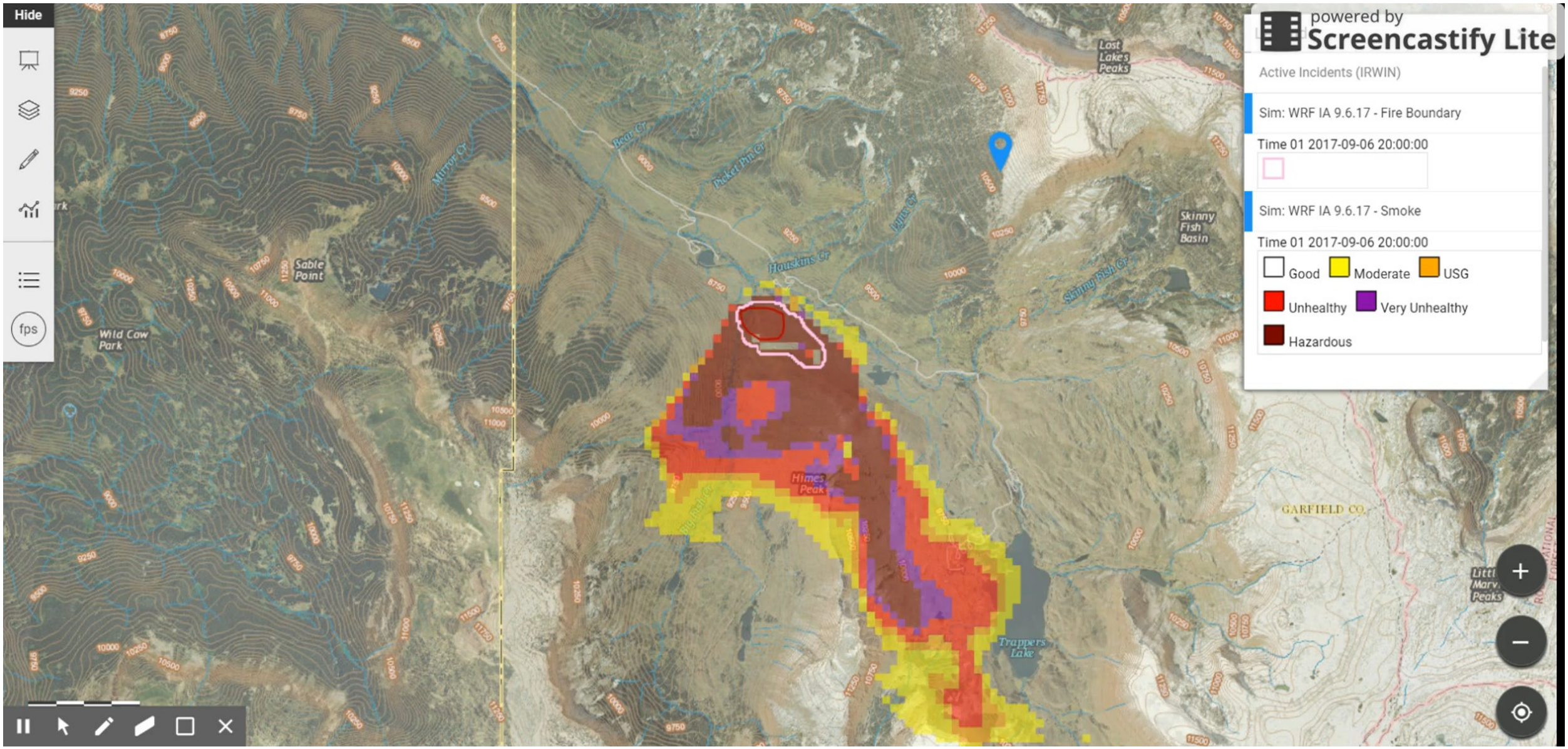


Spring Creek 2, Phase 2

Observed Fire Growth - Pine Tree Fire 9/10/17



Himes Peak Fire Simulation - 9/6/17, 1:00 pm



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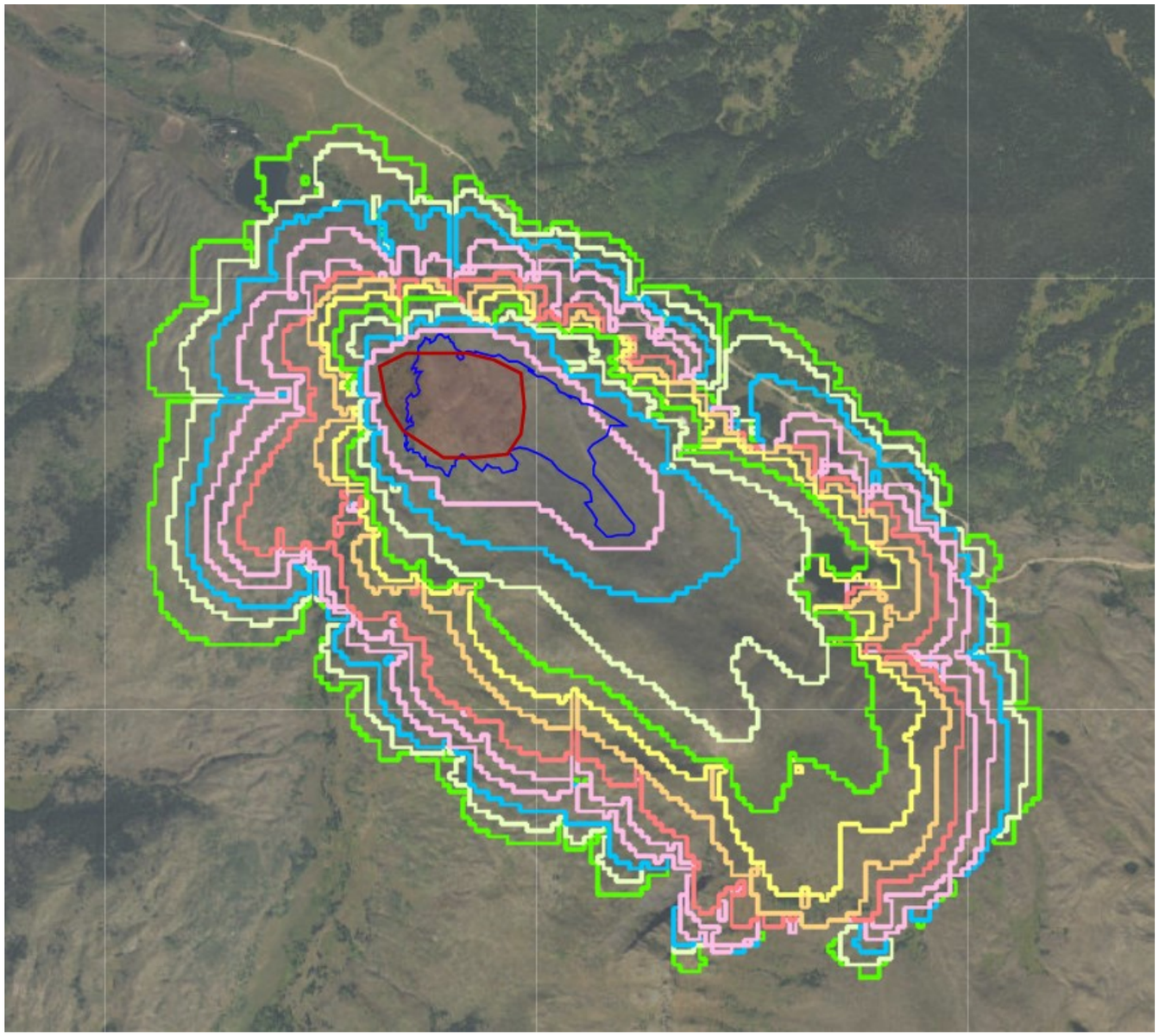
Analysis - Himes Peak