

# Forecasting Prescribed Fire & Community Smoke Exposure



More fire



More people



Climate & Management

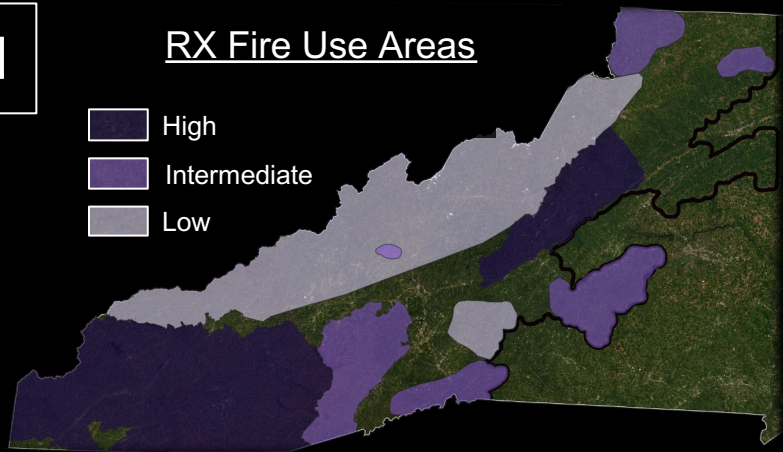


# 3-part Approach to Modelling Future RX Smoke Exposure

1

## RX Fire Use Areas

- High
- Intermediate
- Low



# 3-part Approach to Modelling Future RX Smoke Exposure

1

RX Fire Use Areas

High

Map Fire Use w/ Data  
& Expert Feedback

2

Variable Climate

Hotter, Drier

Hotter, Wetter

Historical Climate

Forest Change & Fire Management



Estimates of Smoke Dispersion



# 3-part Approach to Modelling Future RX Smoke Exposure

1

RX Fire Use Areas



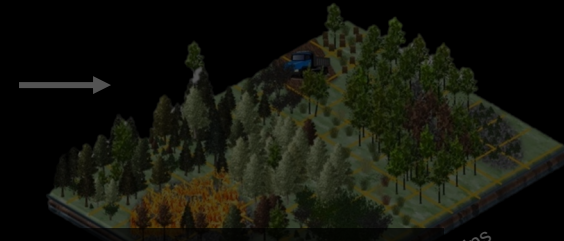
**Map & parameterize fire use w/ expert feedback**

2

Variable Climate

Hotter, Drier  
Hotter, Wetter  
Historical Climate

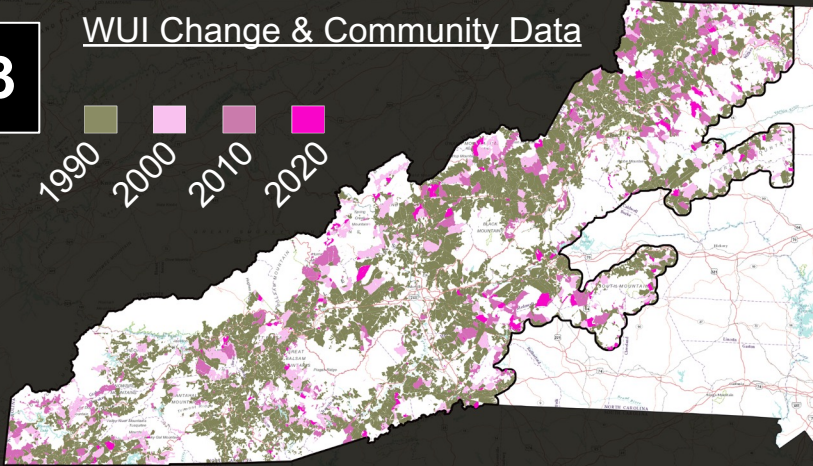
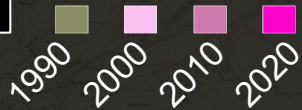
Forest Change & Fire Management



**Estimate smoke dispersion under different climate & management strategies**

3

WUI Change & Community Data



# Support Vision for Community-aware Fire Management

**Where and who are the communities adjacent to lands managed with fire?**



*Credit: GSMNP*

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