

# WA wildfire season AQI forecasting performance evaluation

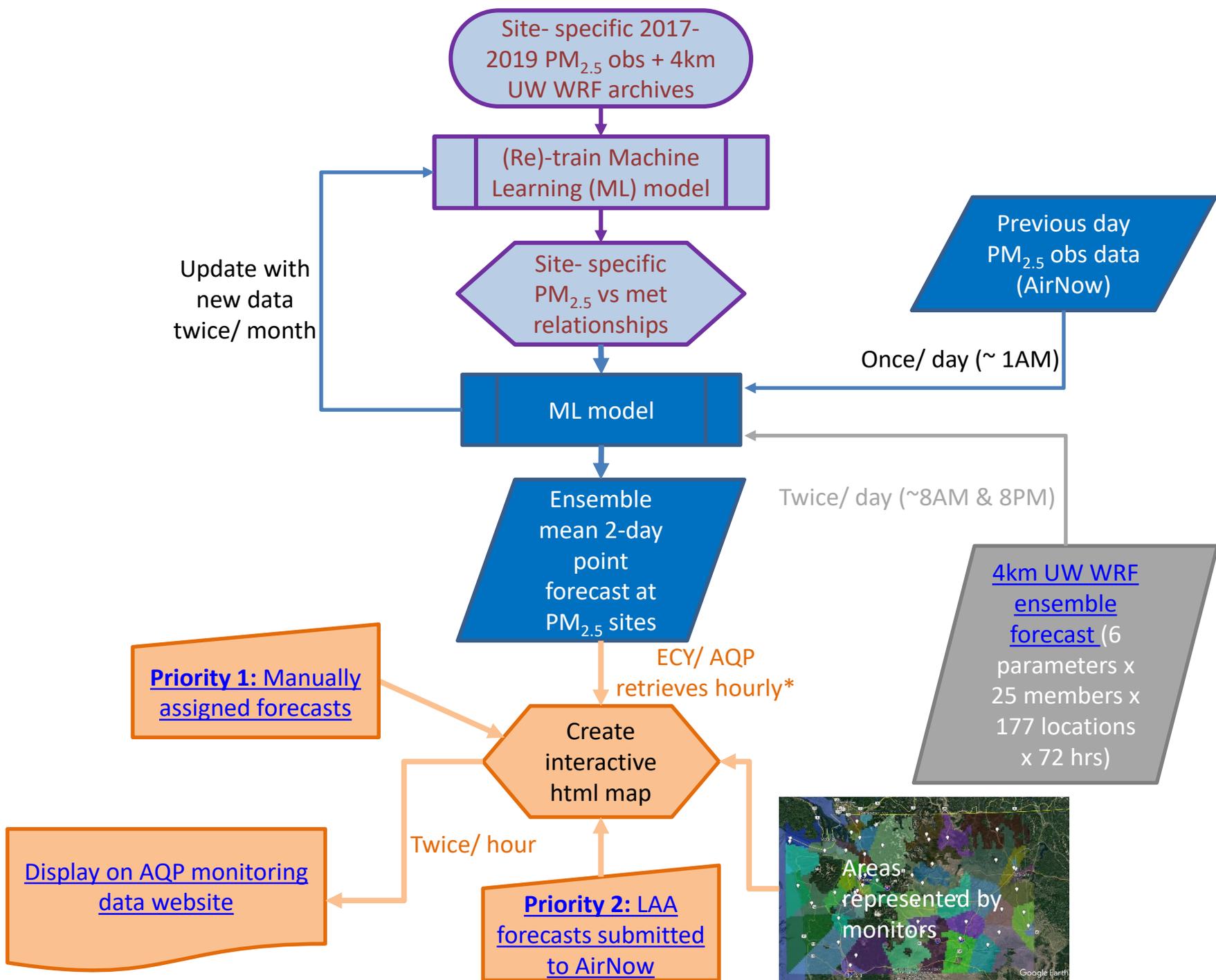
**Ranil Dhammapala**  
**NW-AIRQUEST quarterly meeting**  
**February 4, 2021**



# Background

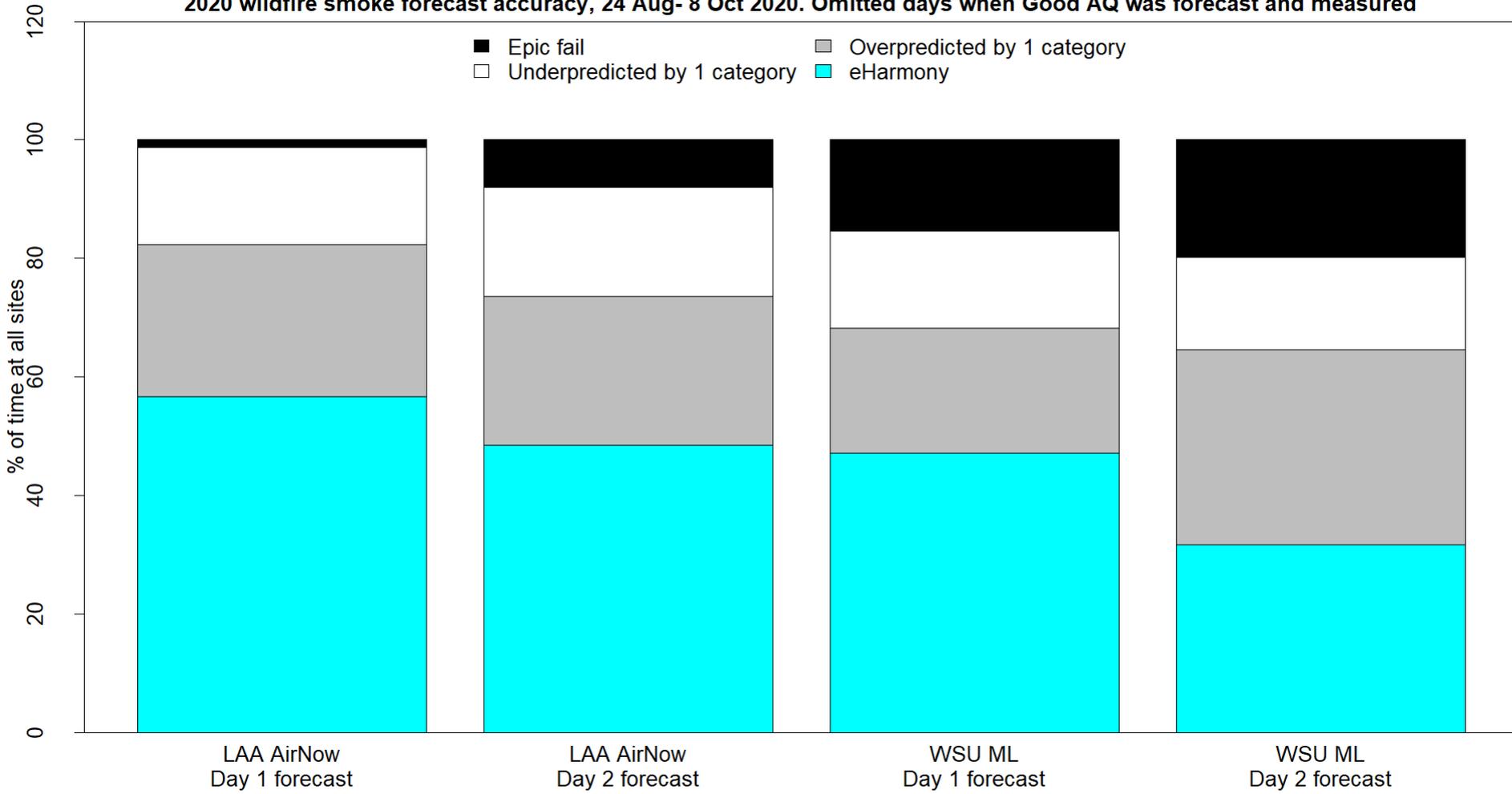
- LAA forecasts submitted to AirNow remain unchanged
  - PSCAA, SRCAA, ORCAA & NWCAA
- WSU Machine Learning model for other areas (2-day forecast for each monitor)
- Manually overridden if needed
- Public forecasts on Smoke blog and <https://enviwa.ecology.wa.gov/home/text/421>
- Evaluated Aug- Oct forecasts
  - Left out days when “Good” air was predicted & observed





# How well did it perform?

2020 wildfire smoke forecast accuracy, 24 Aug- 8 Oct 2020. Omitted days when Good AQ was forecast and measured



# Usage and plans

- [More performance metrics](#)
- ML forecasts to AirNow
  - Submitting ECY, SWCAA & BCAA sites
  - Not submitting YRCOA & tribal sites
- Repeat evaluation for wintertime

