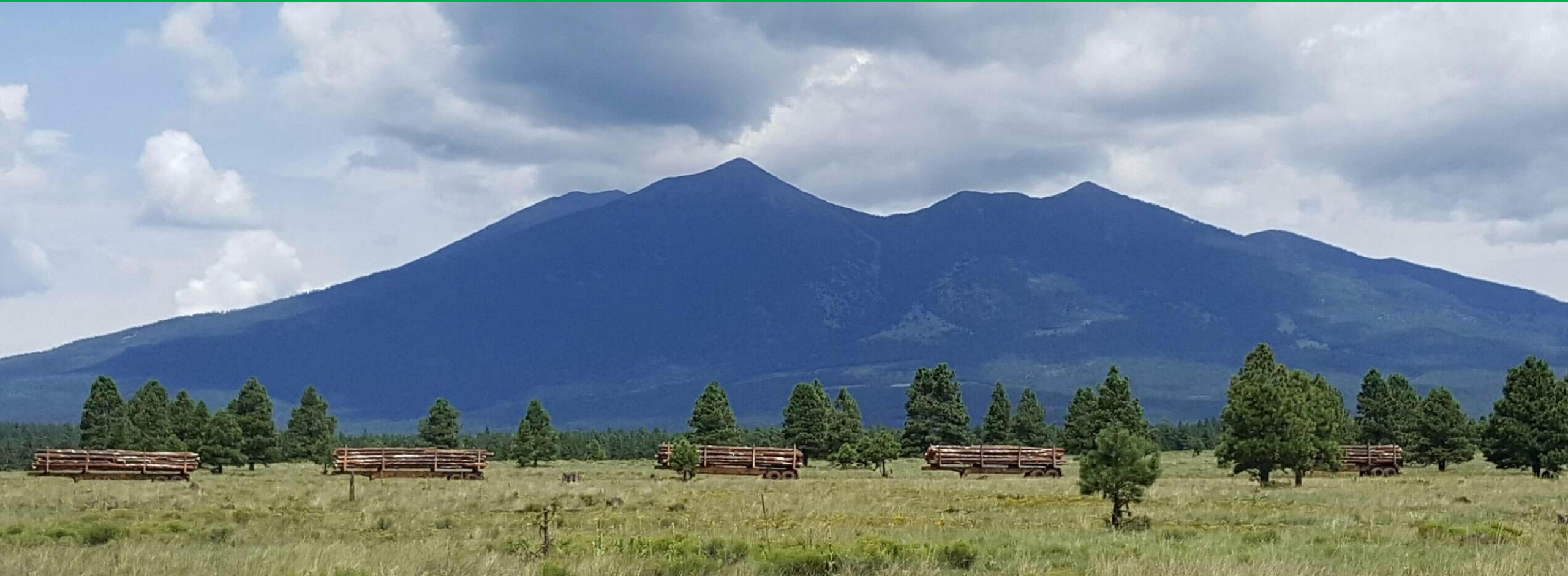


City-County-NAU Joint Meeting

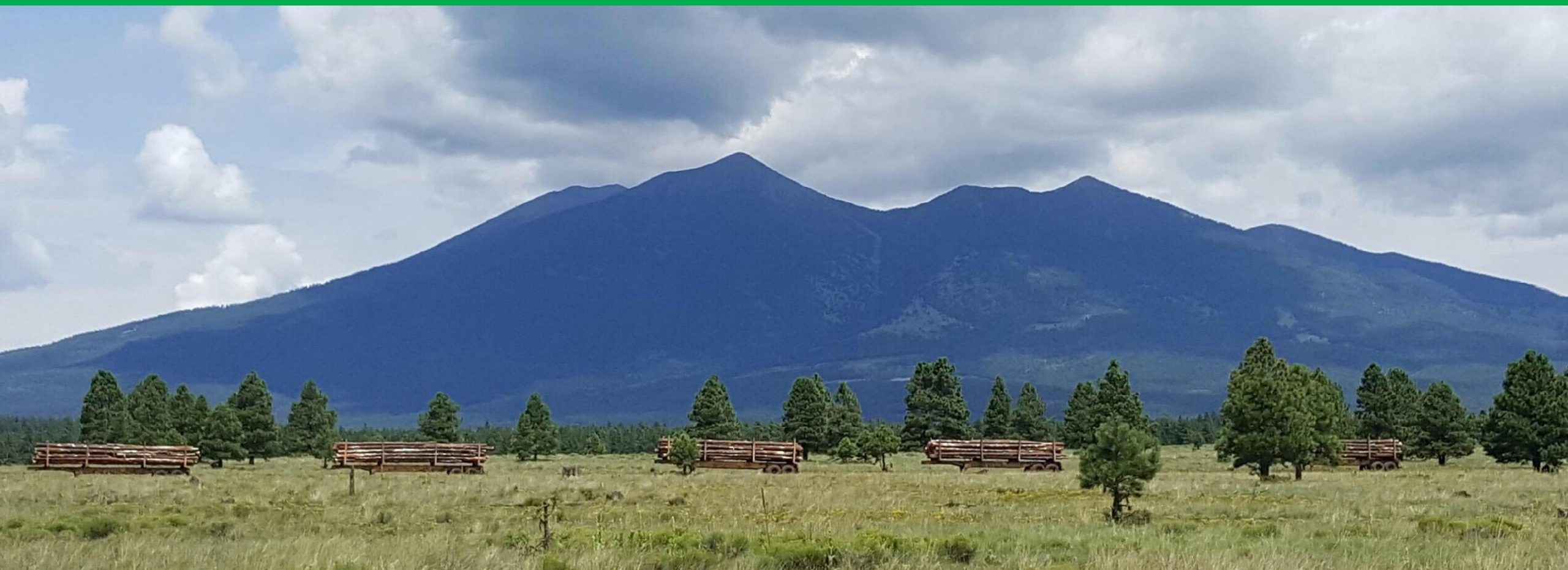
Forest Health

Apr 1, 2019



Line-Up

- Paul Summerfelt – City: *FWPP & CAAP*
- Jay Smith – County: *Industry, Legislative, and Admin Updates*
- Anne Mottek – GFFP: *2019 Wildfire Mitigation Award and recent efforts*
- Han Sup Han – NAU ERI: *Forest Biomass*



Why - What



- **Its about . . .**
 - **Exceptional danger,**
 - **Reducing risk,**
 - **Partnering with others,**
 - **Qualify of life,**
 - **Forests as integral part of our community and water system,**
 - **Investment in our future,**
 - **Recognition we can't wait for others to act**

- **Nov 2012 – \$10M Bond, w/74% approval by Flagstaff voters**

Where



City: 2,150 acres

89% complete

State: 1,035 acres

100% complete

Navajo: 120 acres

42% complete

USFS:

Phase I:

1,040 acres

100% complete

Phase II:

1,900 acres contract

40% complete

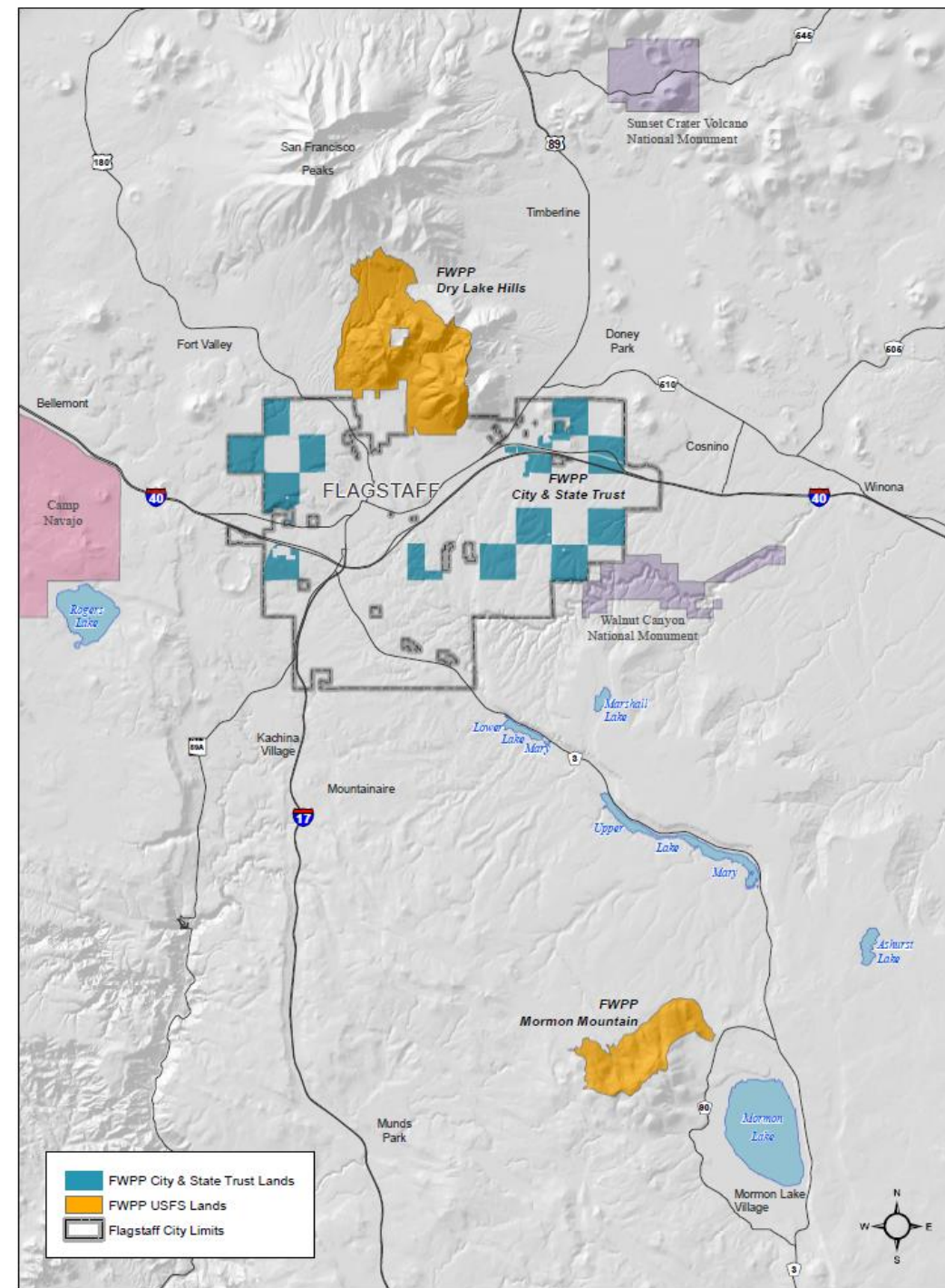
+

1,400 acres – soon

Phase III:

Est 2,600 acres

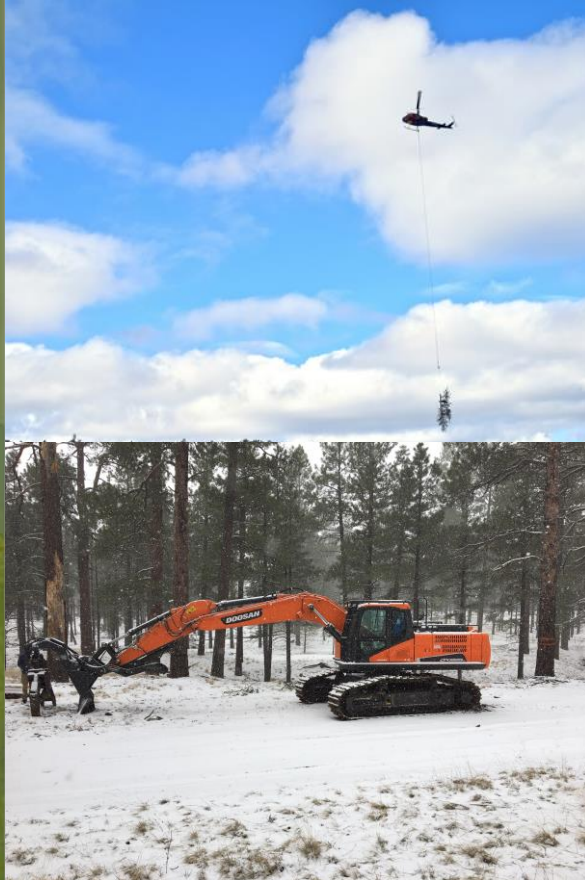
***Op Planning to
begin soon***



What



TEAM FLAGSTAFF
WE MAKE THE CITY BETTER





Climate Adaptation & Action Plan

- **Adopted Nov 2018**

Flagstaff's climate vulnerability assessment looked at how key resources and sectors could be impacted by identified climate risks:

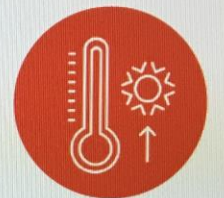
Flagstaff's climate vulnerability assessment looked at how these **resources and sectors...**



...could be affected by these **climate risks** and their associated impacts.



Wildfire



Hotter Temperatures



Drought



Flooding



FOREST RESTORATION

FOREST INDUSTRY UPDATE





FOREST RESTORATION

FOREST INDUSTRY UPDATE

- The Coconino County Industry Partnership met with local and regional Forest Service personnel as well as FWPP leaders to discuss the reasons for multiple no-bids in 2018
- The Coconino County Industry Partnership also met with Congressman O'Halleran to discuss ways to improve and increase forest industry in Coconino County
- Good Earth Power AZ /NewLife Forest Products has new investors and have begun installation of a new mill in Williams area.
- Joe Dirt Excavating has also begun installation of a mill in the Williams area.



FOREST RESTORATION

COUNTY LEGISLATIVE & ADMINISTRATIVE INVOLVEMENT

- **Supervisor Babbott and Supervisor Whiting (Navajo County) requested feedback from industry and organizations involved with Forest Restoration in AZ to identify top priorities**
- **County officials met with AZ Senate and Congressional delegation and top USFS leaders to discuss potential appropriations and administrative changes that will accelerate forest restoration in AZ**
- **County Forest Restoration Director continues to work with NAU-ERI, The Nature Conservancy and USFS to develop efficiencies and models to improve USFS practices**



**Recipient
2019 Wildfire Mitigation Award**

Established in 2014 and co-sponsored by

- National Association of State Foresters
- International Association of Fire Chiefs
- National Fire Protection Association
- USDA Forest Service

The highest national honor for outstanding work and significant program impact in wildfire preparedness and mitigation

7 awardees recognized → WUI Conference, Reno, NV March 27, 2019



Coconino County Board of Supervisors tour Ft Tuthill Thinning Project



City Council Congratulates Firewise Winners



Two Educational Kiosks at Ft Tuthill



Funded in Partnership with Fire Adapted Communities Learning Network



We can adapt to WILDFIRE

A look at FOREST TREATMENT EFFECTIVENESS



Do you know what a
HEALTHY FOREST
looks like ?

DEFEND WHAT MATTERS

- Our Homes
- Our Communities
- Our Forests

A century of fire suppression led to today's overly dense forests.

↓
Unnaturally dense forests are prone to uncharacteristically severe wildfires.

↓
Low-severity surface fires play a natural role in our forests—they reduce the risk of severe fires and improve ecosystem health.

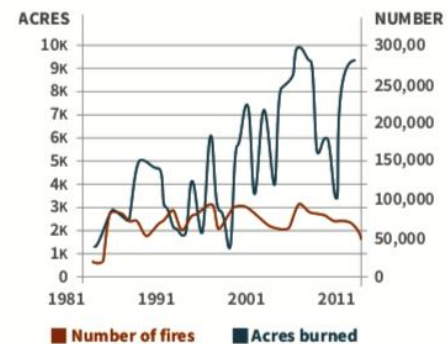
LIVING WITH WILDFIRE

- Recent trends show fires have become larger and more destructive.
- With a drier and hotter climate, fire and smoke will likely increase.
- Land managers and policy makers are working to increase the pace and scale of thinning trees and prescribed fires.
- Thinning small trees and applying prescribed fires across the landscape reduces the risk of damaging wildfires.

From 1982 to 2013 the number of individual fires decreased while the total acres burned increased.

NWCG Smoke Management Guide for Prescribed Fire, Feb. 2018

Number of Wildfires ↓ Number of Acres Burned ↑



Forest Biomass Context



Before



Forest Restoration & Fuel Reduction Thinning Treatments



After



Biomass Issues:

- **Needs to be removed from the site**
 - ⇒ **Cause fire hazard**
 - ⇒ **Attract forest insects**
 - ⇒ **Within 30days (summer) or 60days (winter)**
- **Issues with lack of market and demand for biomass in western Arizona**
- **Stops or delays restoration treatments until the biomass is removed.**
 - ⇒ **Creates bottleneck**

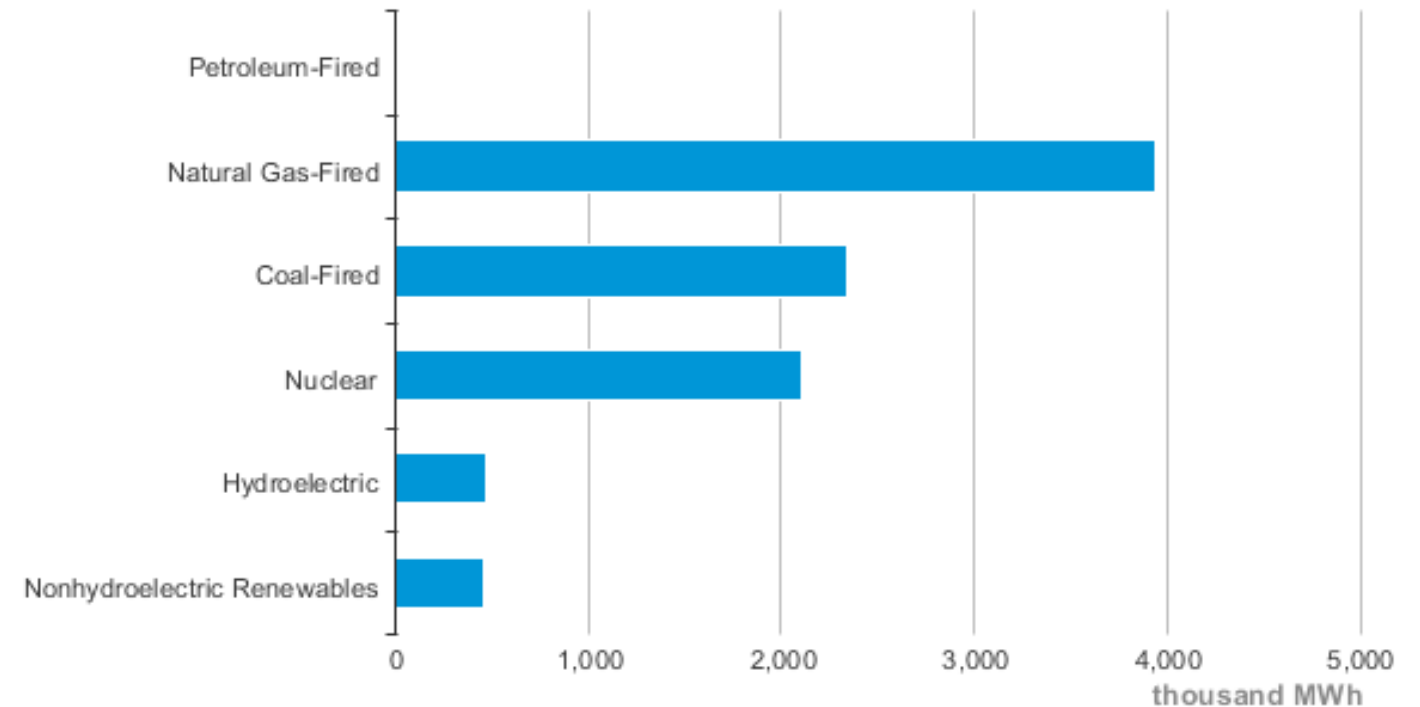


Biomass power plant in Arizona

- Novo BioPower in Snowflake
- Produce 27 MWh
- Currently less than 0.5% of the total electricity production in Arizona
- Renewable energy resources defined by Arizona Administrative Code (R14-2-1802): $\geq 60\text{MW}$

(ACC Policy Statement, 1/16/2019)

Arizona Net Electricity Generation by Source, Oct. 2018



Source: Energy Information Administration, Electric Power Monthly

Lack of markets for wood...in western Arizona



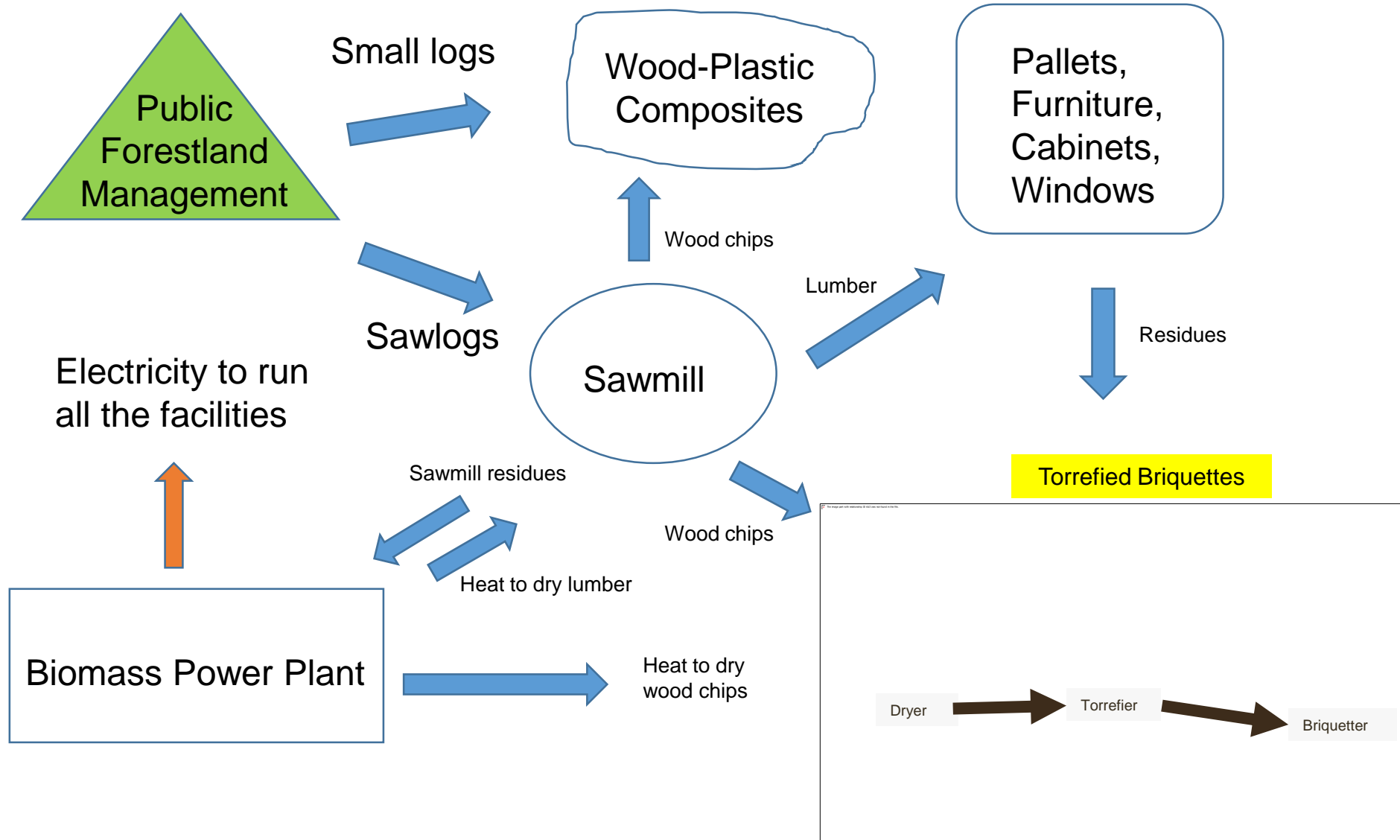
Pilot Project: Export wood chips and other forest products to South Korea



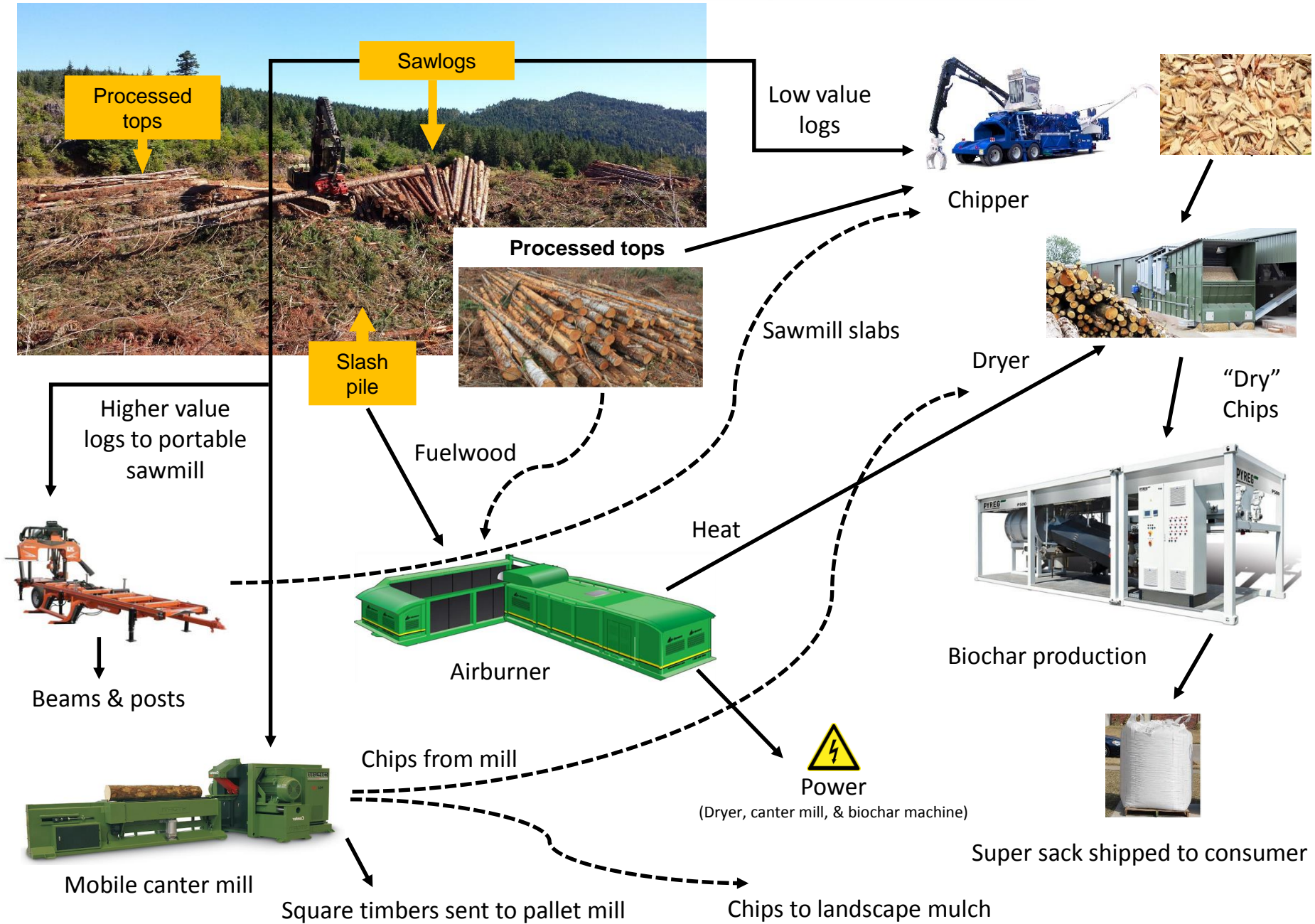
JA International, LLC South Korea



Business Cluster at Camp Navajo



In-Woods Processing Concept



Questions?

