

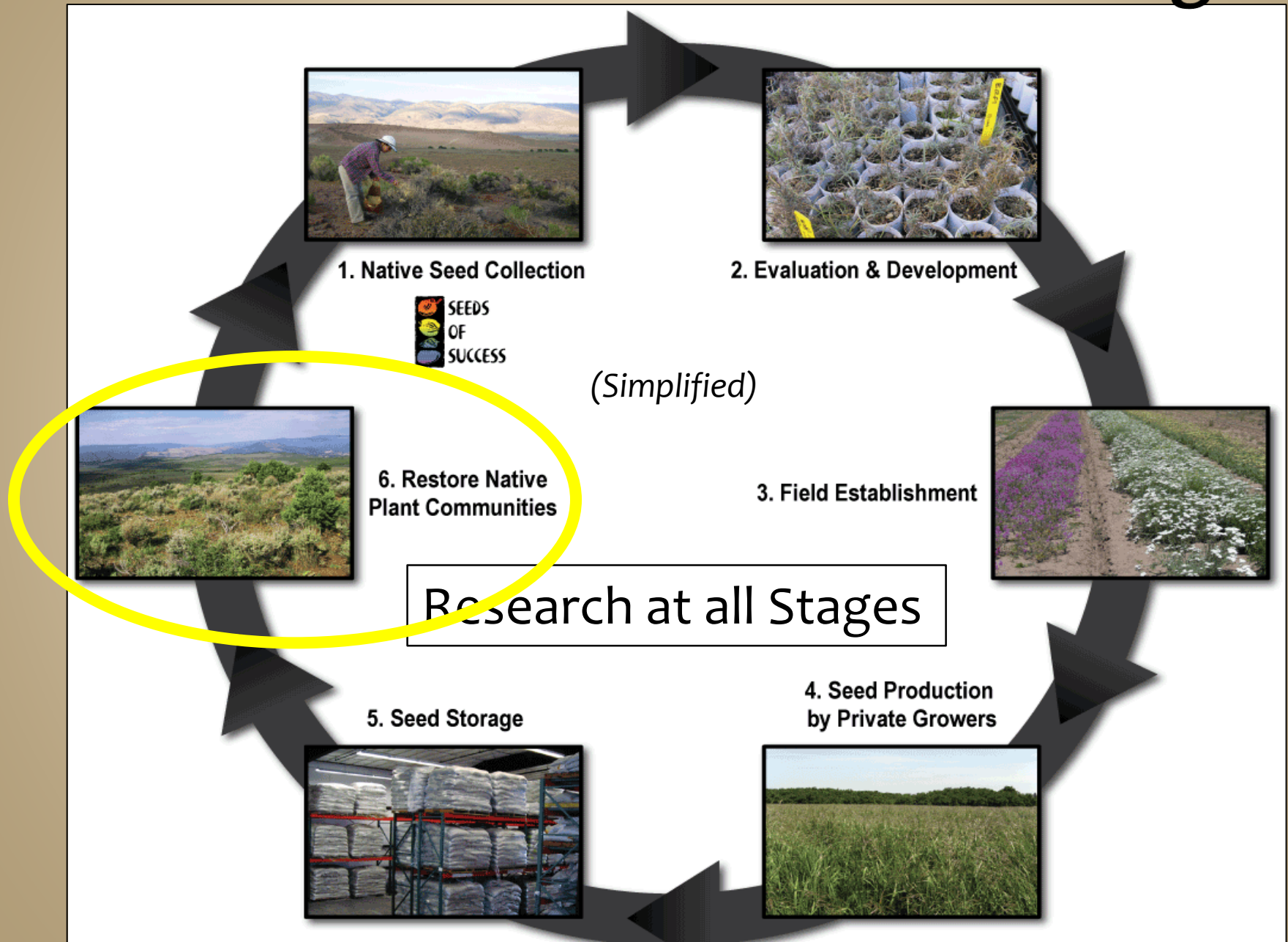
Colorado Plateau Native Plant Program (CPNPP) Overview; Meeting Goals

Adrienne Pilmanis, Coordinator
CPNPP 2018 Annual Meeting

February 5, 2018
Grand Junction, CO



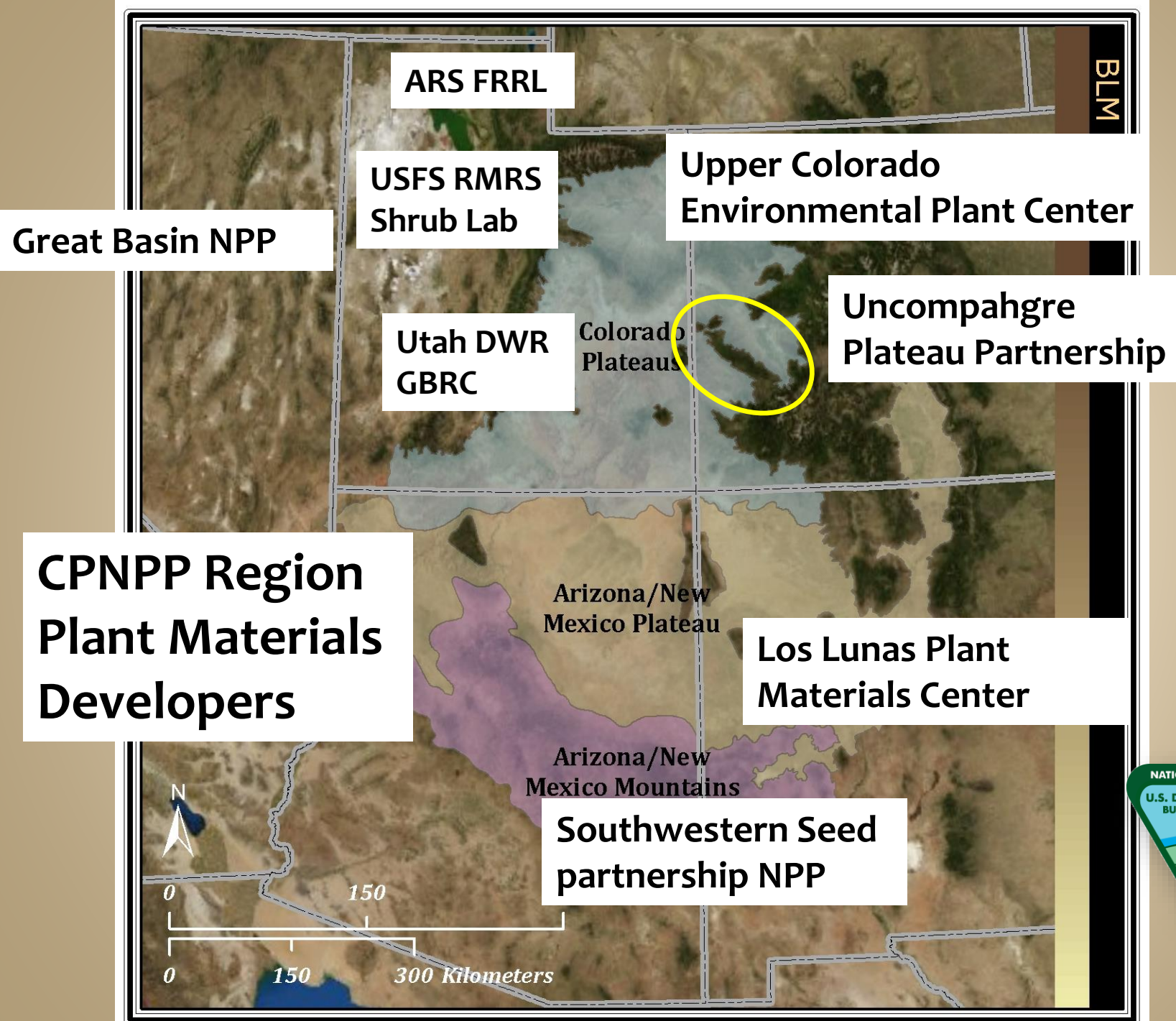
What's a Native Plant Materials Program?



Why create CPNPP? To support Restoration & Reclamation success!

- High regional materials demand driven by landscape/habitat degradation due to invasive species, drought, development, fire, climate change
- Accumulated science tells us: to get resilient ecological function and ecosystem services, need genetic diversity, origin (provenance) of plant material important (how far should seed be moved?)
- Past: most commercial plant materials originated outside of region, may have been heavily selected with possible loss of genetic diversity
- CPNPP “Plant Materials” = seed, seedlings, propagules



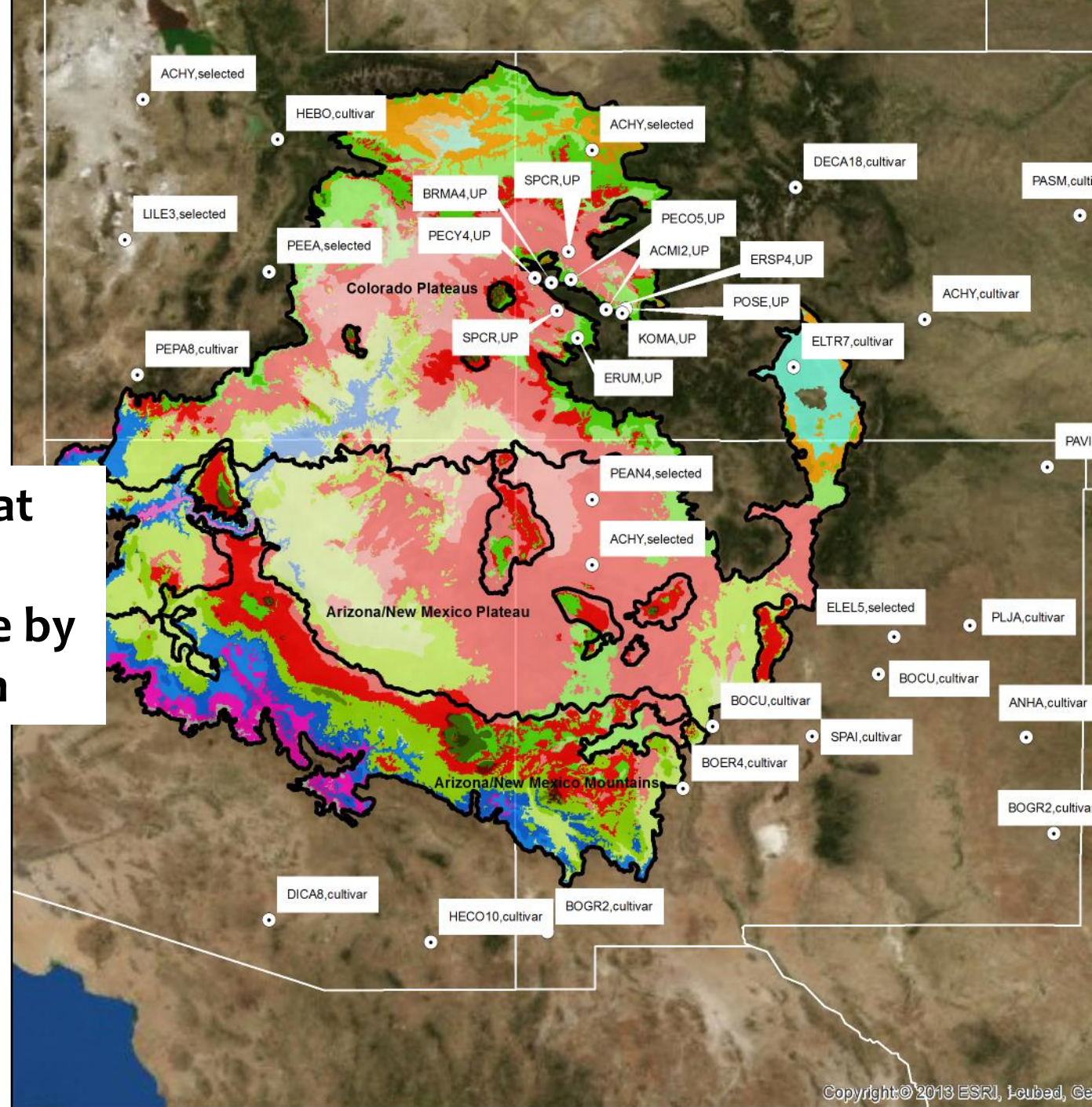


The CPNPP Region, PSTZs & Releases

Do we have what
we need? Not if
goal is to source by
local adaptation

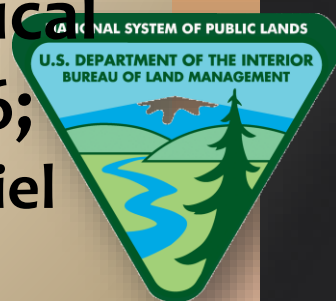
2014 -
Provisional
Seed Transfer
Zones
Bower et al

Map: Rachel Hosna



CPNPP est.~2009

- **Federal & state agency support and funding:**
 - BLM, USFS , UCEPC, UP, USGS, NRCS LLPMC
- **Coordinator Wayne Padgett (2009-2013)**
- **Other partners engaged due to common interests & missions, perceived needs**
- **Chicago Botanic Garden, Univ. of Utah Rio Mesa Research Center and Red Butte Botanic Garden , Northern Arizona University, Landsward institute, Northern AZ Native Seed Initiative, Mayberry Plant Propagation Center, Seed Growers and Distributors**
- **Science Leadership USGS Southwest Biological Research Station (SBRC) Troy Wood 2010-2016; 2017 John Bradford, Jayne Belnap, Rob Massatti, Daniel Winkler**



CPNPP Vision & Mission

VISION - A Colorado Plateau region that supports healthy and resilient native plant communities now and for future generations.

MISSION - To facilitate the increased availability of native plant materials for use in restoring native plant communities and ecosystems of the Colorado Plateau region.



CPNPP Guidance, Products

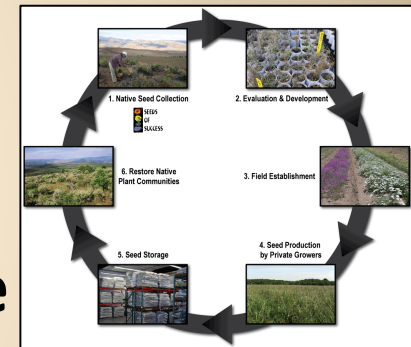
- Five-Year Strategic Plan & Operation Plan
- Exec. Committee, Working Groups, MOU
- Research Strategy (*pending*)
- Priority Species Lists
- Annual Meetings
 - Science Retreats at Bonderman Rio Mesa
- Annual Reports
- Communication - Website (now *landscape.org*), Monthly Conference Calls
- Conservation Registry page (*offline now*)



CPNPP Strategic Goals & Objectives:

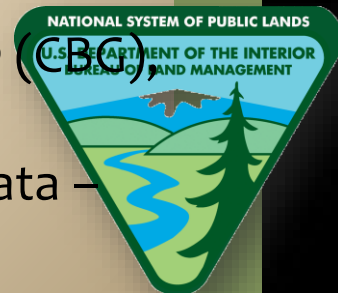
As per 2014 5-yr Strategic Plan

1. Collect Native Plant Materials
2. Evaluate, Research & Develop
3. Establish Foundation Fields, Increase
4. Commercial Production
5. Seed Storage
6. Restore Native Plant Communities
7. Monitor Restoration Effectiveness & Feedback
8. Communicate with Partners & Public



Noteworthy Accomplishments

- Partnership Agreements – more than doubled in 2017
- CPNPP Monarch Conservation Grant – Nat'l Fish & Wildlife Foundation – milkweed/ nectar-producing seed, increase, use, Educ.
- Wildland Collection Evolution – SOS Protocol, R&D, increase
- National & Global seed requests from ARS GRIN storage – 50 states, 36 countries, multiple researchers, corporations, NGOs
- CPNPP Database Created – tracks inventory; allows data queries, R&D and seed use request coordination
- Better than PSTZ: Climate Similarity Transfer Zones using Species Distribution Models – NAU, USGS
- Mobile Collecting and Sourcing Tool (and with changes in climatic conditions) – Doherty et al
- Native Seed Market Economic Analysis – Camhi et al
- Evaluating Restoration failures & successes: CPROD (CBC), RAMPS (USGS), LTDL, WRI, SDARRT, AIM, etc.
- INFORMATION SYNTHESSES COMING! Species Trait data – help practitioners on the ground (seed menus, sourcing)
- Quantitative Seed Needs Assessment – GIS layers, Plans



2017 CPNPP SOS Teams, Partners, other Plant Materials Programs



CPNPP 2018 Meeting Objectives

- **Share information about CPNPP & partners; Native Plant Materials (NPM) use and development:**
 - Stakeholder goals, investments and outcomes
 - Resources available: NPM, people, data, tools
- **Facilitate networking across disciplines:**
 - Respectfully listen to & communicate with one another
 - Listen, learn, share, teach and THINK;
- **Show ways to get involved including:**
 - Scout & collect; host trial or study site; incorporate new NPM in projects/ work, to allow comparisons & evaluation; engage in Outreach (develop, share, borrow ideas or materials); participate in research.



Thank you!!



Adrienne Pilmanis, BLM
CPNPP Coordinator

