USDA Forest Service Perspective on Bonanza Creek LTER

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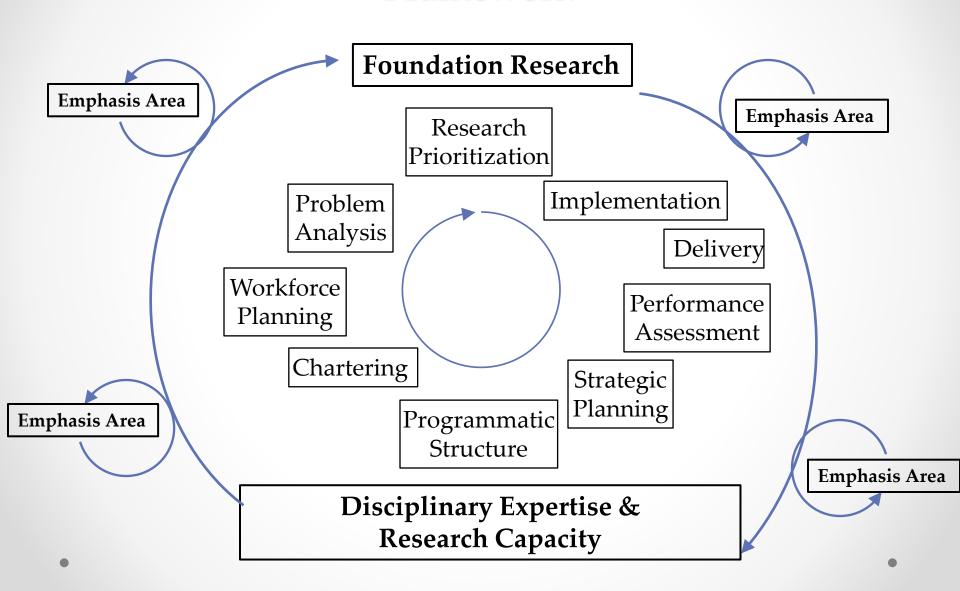




Long-term, Large-scale Studies as Key Elements of PNW Foundation Research

- The Forest Service research mission is outcome oriented with an emphasis on meeting societies needs now and into the future
- In contrast to some other federal research entities,
 the Forest Service has a large land base it manages
- The capacity to conduct long-term studies and monitoring has been an important distinguishing feature of Forest Service research

One Representation of the PNW Strategic Framework



Current Research Emphasis Areas

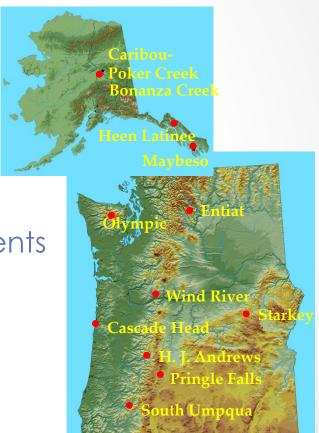
- Socioeconomic-biophysical Interactions
- Resource Management and Landscape Restoration
- Natural Disturbances
- Climate Change
- Inventory and Monitoring

Experimental Forests and Ranges

- Long-term monitoring
- Process and function studies
- Applied management experiments
- Multi-organizational collaborations
- Place-based inference
- Network potential
- Permanent infrastructure

Large-scale, Operational Experiments

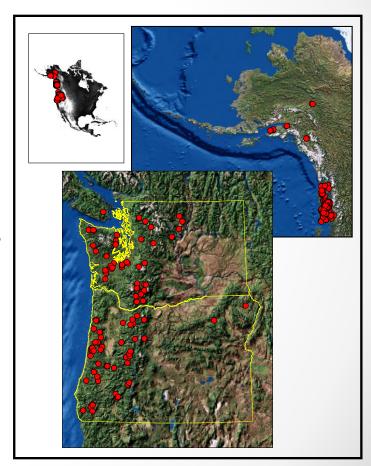
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- Objective driven
- Multi-organizational collaborations
- More or less adaptive
- Multi-site: off or on EFRs
- Network potential
- Transitory infrastructure



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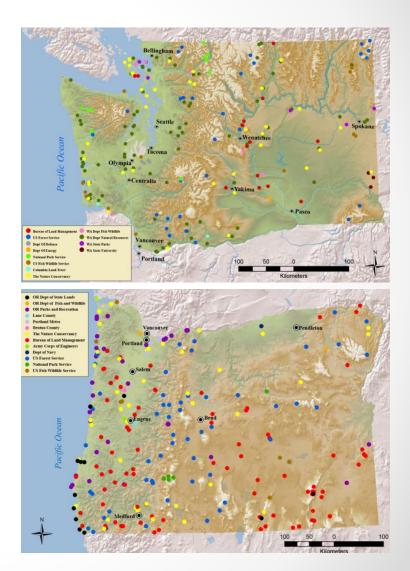
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Research Natural Areas

- Representation of the diverse array of ecosystems and communities
- Observational studies
- In some cases manipulated to restore important process characteristics



Resource Monitoring

- Long-term monitoring
- Watershed or landscape assessments
- Extensive landscape or ecoregion inference
- Permanent and transitory infrastructure
- Distinct mission mandates and accountability

Programmatic studies

- Scientist or unit driven
- Variety of biological, physical, and social research
- Variety of research environments laboratory, field, office
- Variety of infrastructure needs
- Variety of scale and scope of inference
- Variety of collaboration and partnership modes

Where Are We Going With Experimental Forests?

- Maintain our capacity to do long-term research
- Strive for greater scientific impact and relevance by pursuing opportunities for cross site integrated studies or synthetic analyses
 - Important themes
 - Geographic/ecological scope of inference
 - Leverage
 - Partners and advocates
 - Broad interest

Information of Interest to Bonanza Creek LTER

- FIA is preparing to inventory interior Alaska
- PNW has taken the lead for USDA in establishing the Pacific Northwest Climate Hub
- HJ Andrews renewed the LTER project last year
- Wind River NEON moving forward