



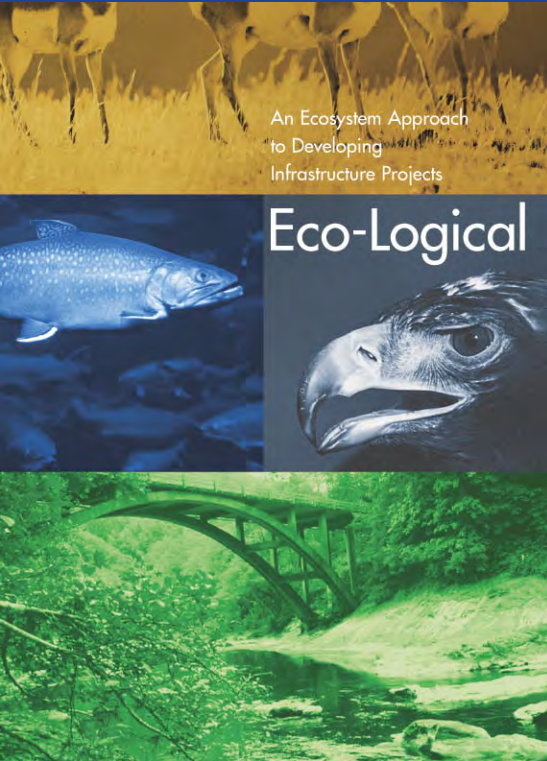
Eco-Logical and Integration of Geospatial Tools and Data

Todd Williams
Environmental Services Director
Arizona DOT

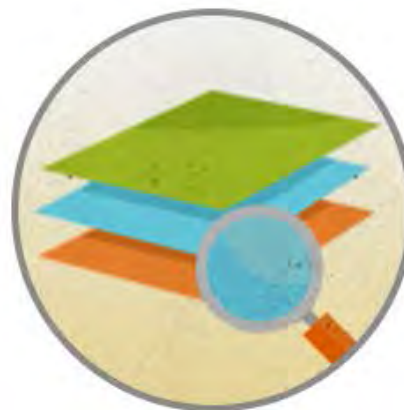
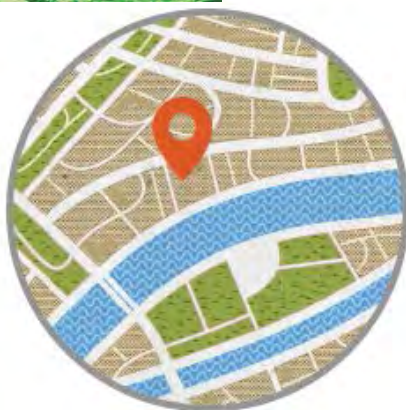
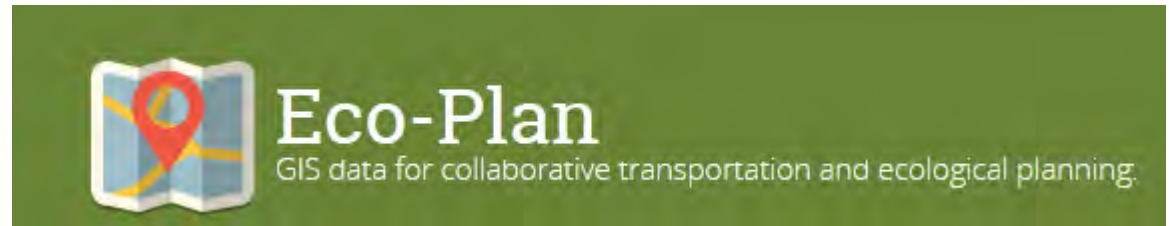
June 25, 2014



Eco-Logical and Eco-Plan



- **The approach and the tool for ecological based planning in transportation**



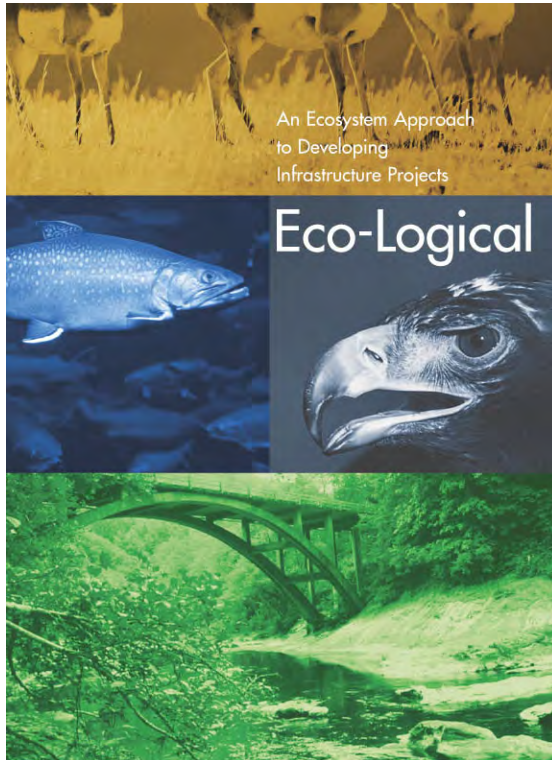
Demands On DOT's in Project Development



How can Eco-Logical & Eco-Plan meet these demands?

| | |
|------------------|---|
| Risk Management: | Having a clear approach to the project while building proactive relationship with resource agencies |
| Performance: | Balanced outcome for transportation and environment |
| Investment: | Avoidance and mitigation costs justified |
| Schedule: | Increases predictability of environmental actions (permitting) |
| Governance: | Shared effort in collaborating with approving agencies and stakeholders |

Ecosystem Approach to Developing Infrastructure Projects



Prepared by the Steering Team
April 2006

Signed by the Steering Team Partners' Leadership

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National Park Service
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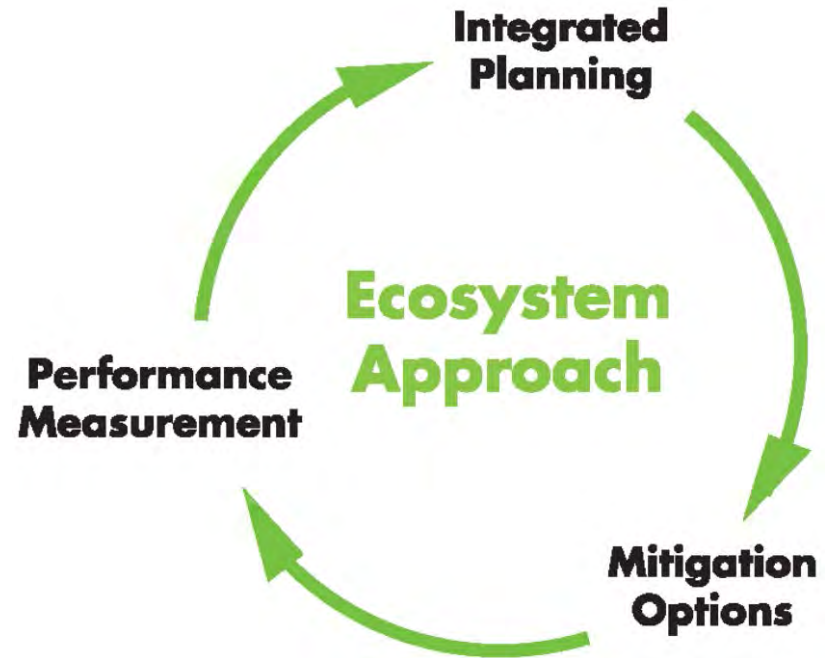
Anne Miller, Director
Office of Federal Activities
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U.S. Environmental Protection Agency

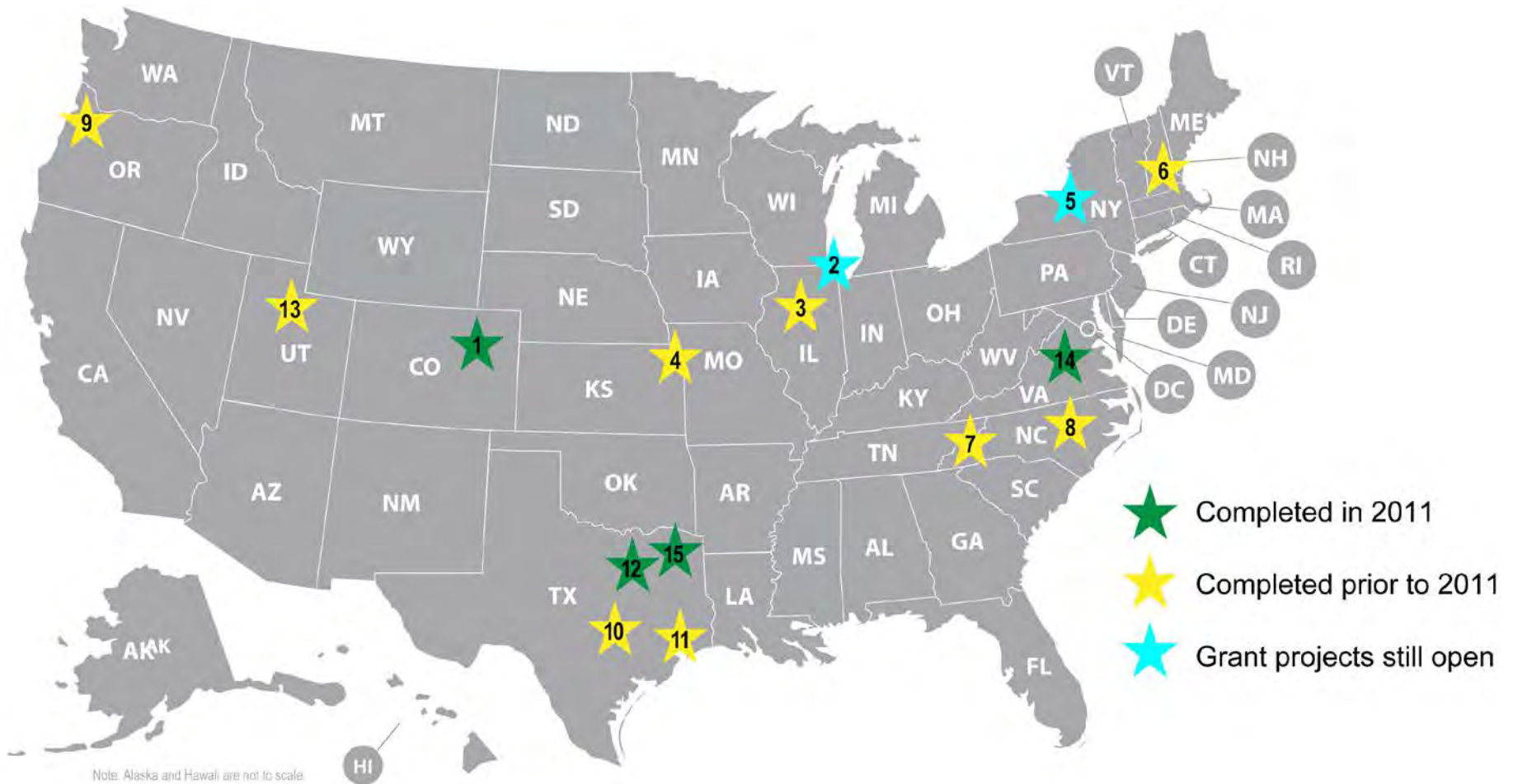
James R. Walpole, General Counsel
National Marine Fisheries Service
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What is the Eco-Logical Approach?

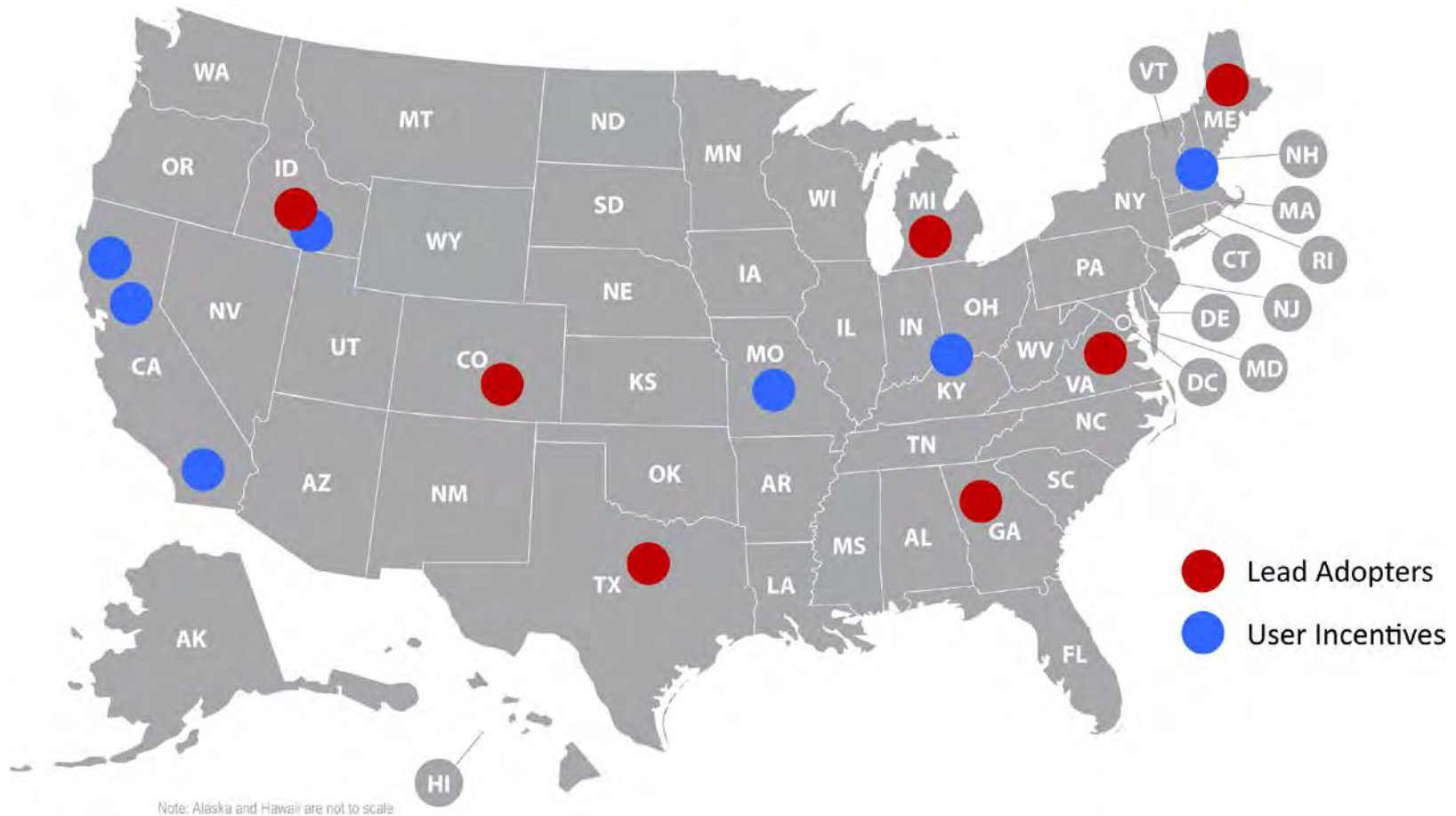
- Predictability
- Connectivity
- Conservation
- Transparency



FHWA Eco-Logical Implementation Program



Implementation Assistance Program



- Currently funds 14 assistance projects— seven Lead Adopter Incentive recipients (\$200,000-250,000 each) and seven User Incentive recipients (\$25,000 each).



Eco-Plan

Eco-Plan supports transportation planning by providing prepared maps of national ecological data sets that can be used to avoid and minimize transportation impacts.

- ✓ Review maps of national ecological data sets
- ✓ Find data and other useful GIS information
- ✓ Upload or draw a planning area or transportation network
- ✓ No GIS skills needed

Eco-Plan Advanced



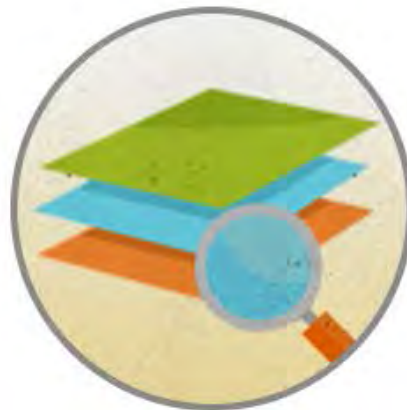
Eco-Plan Advanced

Eco-Plan Advanced, a separate website hosted by Esri ArcGIS Online, provides all of the information available through Eco-Plan with additional capabilities.

- ✓ Add any data set to the prepared maps of national ecological data
- ✓ Set up groups to save, share and comment on maps
- ✓ Conduct GIS analysis and create reports
- ✓ Requires GIS skills

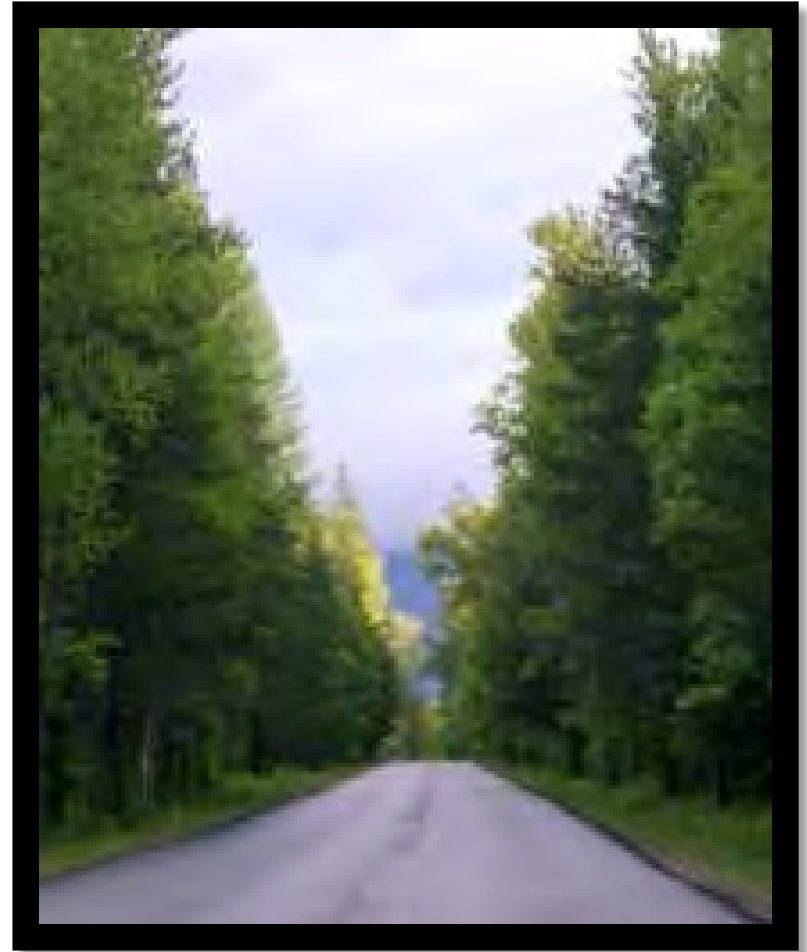
Eco-Plan and Eco-Plan Advanced

- Three Pilot Projects
 - UC Davis
 - East-West Gateway Council
 - Parsons



Eco-Logical Resources for Practitioners – Coming This Fall

- AASHTO Practitioner's Handbook
- Updated Website
- Technical Assistance
- Peer exchanges
- Workshops
- Eco-Plan and Eco-Plan Advanced to be released this fall



Today's Agenda: Benefits of an Eco-Logical Approach

- **Margaret Barondess**, Environmental Services Section, Bureau of Development, Michigan Department of Transportation.
Establishing better outcomes for I-75 and Lake Erie and other reconstruction projects in a preservation-oriented state.
- **Judy Gates**, Director, Environmental Office, MaineDOT
Delivering projects in Maine where the most challenging stakeholder swims upstream.
- **Kendall Wendling**, Transportation Planner, North Central Texas Council of Governments
Applied Eco-Logical approach into Long Range Transportation Plan and Corridor Feasibility Study
- **Brian Yanchik**, Lead Ecologist, Federal Highway Administration Resource Center
- **Shari Schaftlein**, Director, Office of Human Environment, Federal Highway Administration
Eco-Plan and Eco-Plan Advanced – Two National Level Planning tools for pre-NEPA planning

Contacts: Eco-Logical

Eco-Logical Website:

http://www.environment.fhwa.dot.gov/ecological/eco_entry.asp



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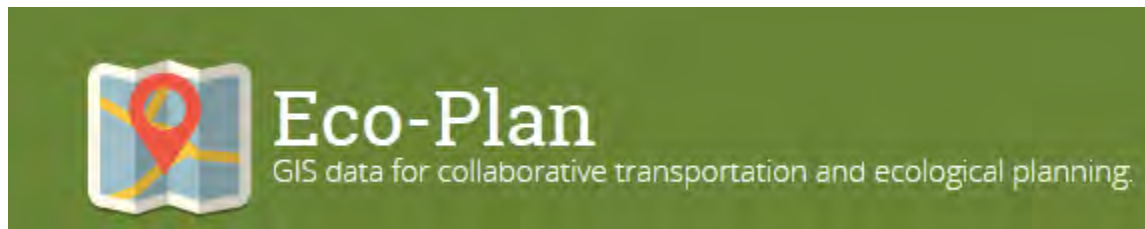
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Contacts: Eco-Plan

Eco-Plan Websites:

<http://c40-stage.icfwebservices.com/>

<http://eco-plan.maps.arcgis.com/home/index.html>



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