

Green Infrastructure, Eco-Logical, and Planning and Environmental Linkages (PEL)

Mike Ruth

Federal Highway Administration

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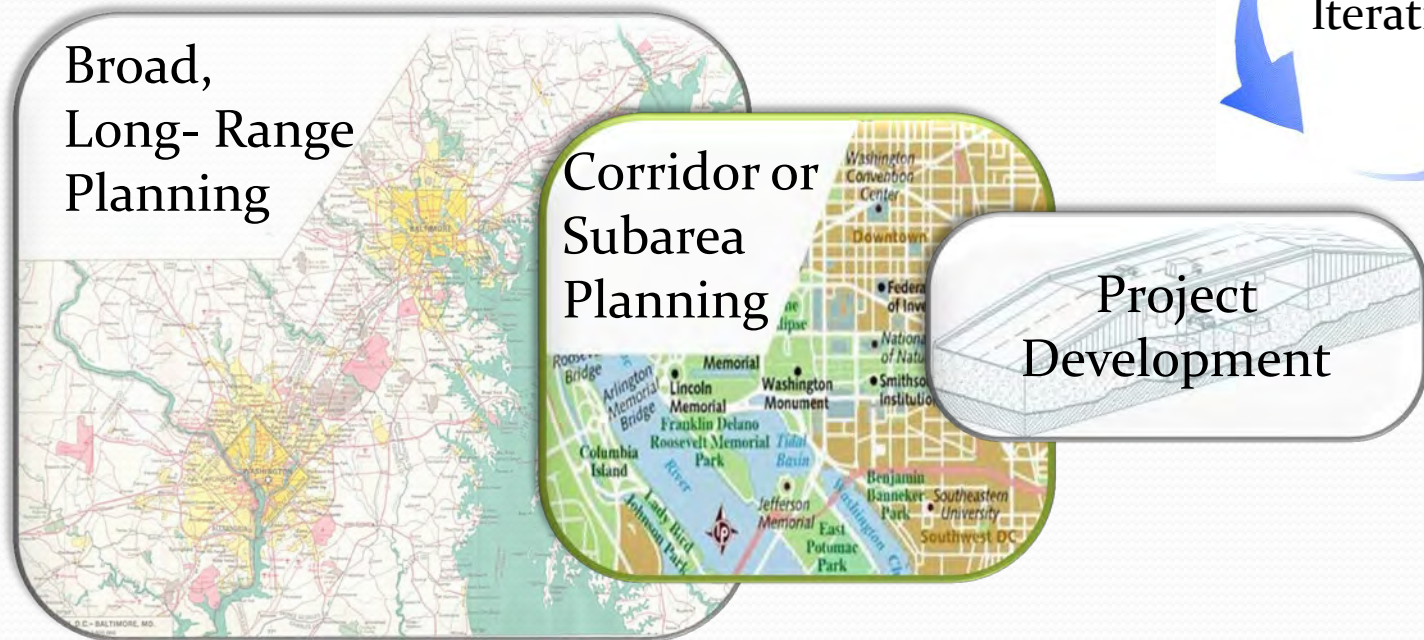
Agenda

- Transportation Planning
- Green Infrastructure Planning
- Integrated Planning
 - **Planning and Environmental Linkages (PEL)**
 - **Eco-logical**
- Putting It All Together

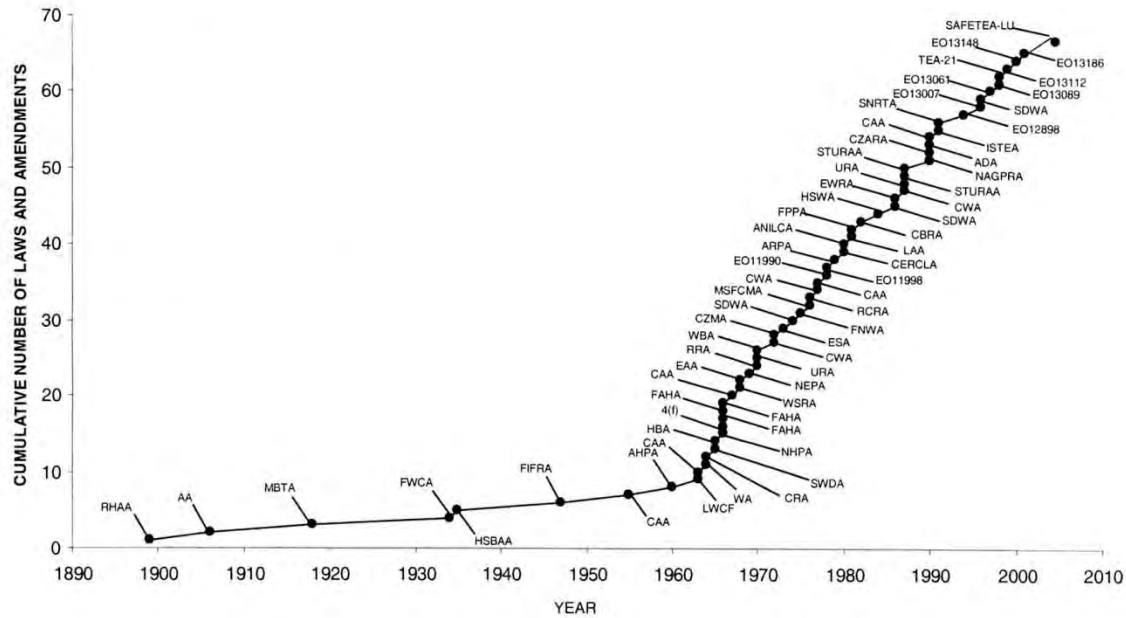


Transportation Planning

- Cooperative, continuing, and comprehensive
- Long-term and short-term
- Large and small geographies



Federal Environmental Laws & EOs Affecting Transportation



Green Infrastructure Planning



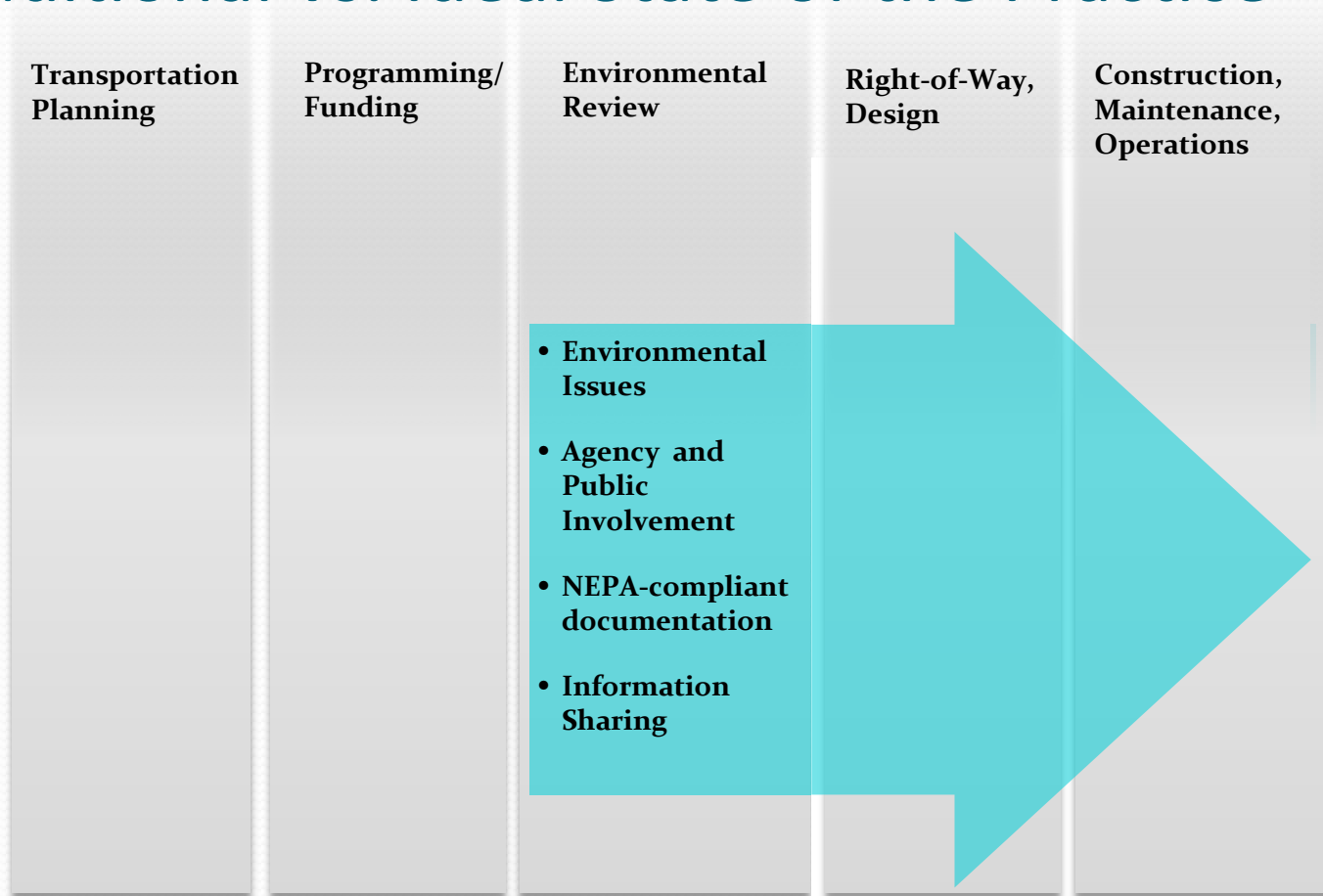
Integrated Planning

- **Planning and Environmental Linkages:** Supports the early consideration of environmental issues in transportation planning.
- **Eco-Logical:** Endorses ecosystem-based mitigation through partnerships.

These approaches both relate to and support **green infrastructure**.



Planning and Environmental Linkages (PEL): Traditional vs. Ideal State of the Practice





What is Eco-Logical?

- An ecosystem methodology for planning and developing infrastructure projects
- Developed by eight Federal agency partners and four State DOTs
- Collaboration between transportation, resource, and regulatory agencies to integrate their plans and identify environmental priorities across an ecosystem

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



U.S. Army Corps of Engineers®

Putting It All Together

Examples

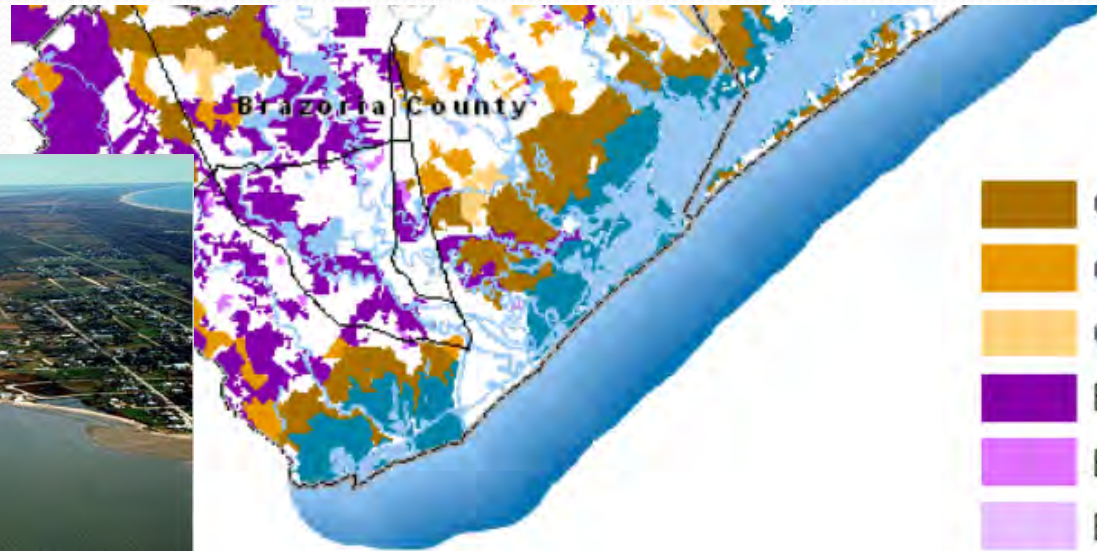


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Eco-Logical and Green Infrastructure: Houston-Galveston Tool

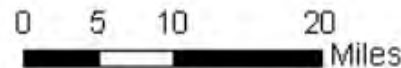


Galveston Bay. Photo courtesy U.S. Army Corps of Engineers/Flickr



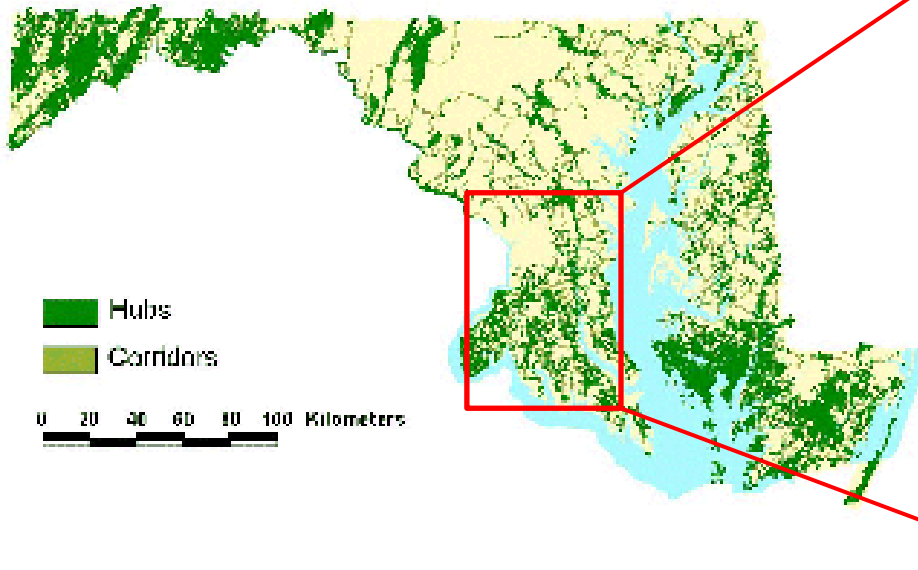
- Coastal Prairie 1
- Coastal Prairie 2
- Coastal Prairie 3
- Bottomland Forest 1
- Bottomland Forest 2
- Bottomland Forest 3
- Upland Forest 1
- Upland Forest 2
- Upland Forest 3
- Tidal Wetlands

www.h-gac.com/go/eco-logical

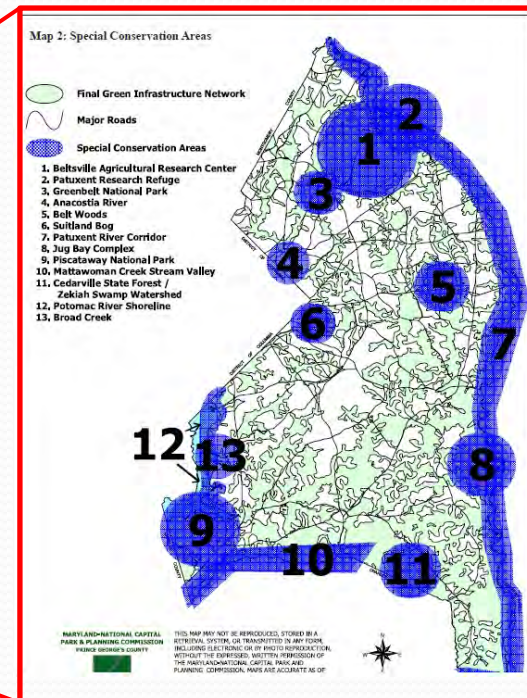


PEL and Green Infrastructure

Maryland



Prince George's County



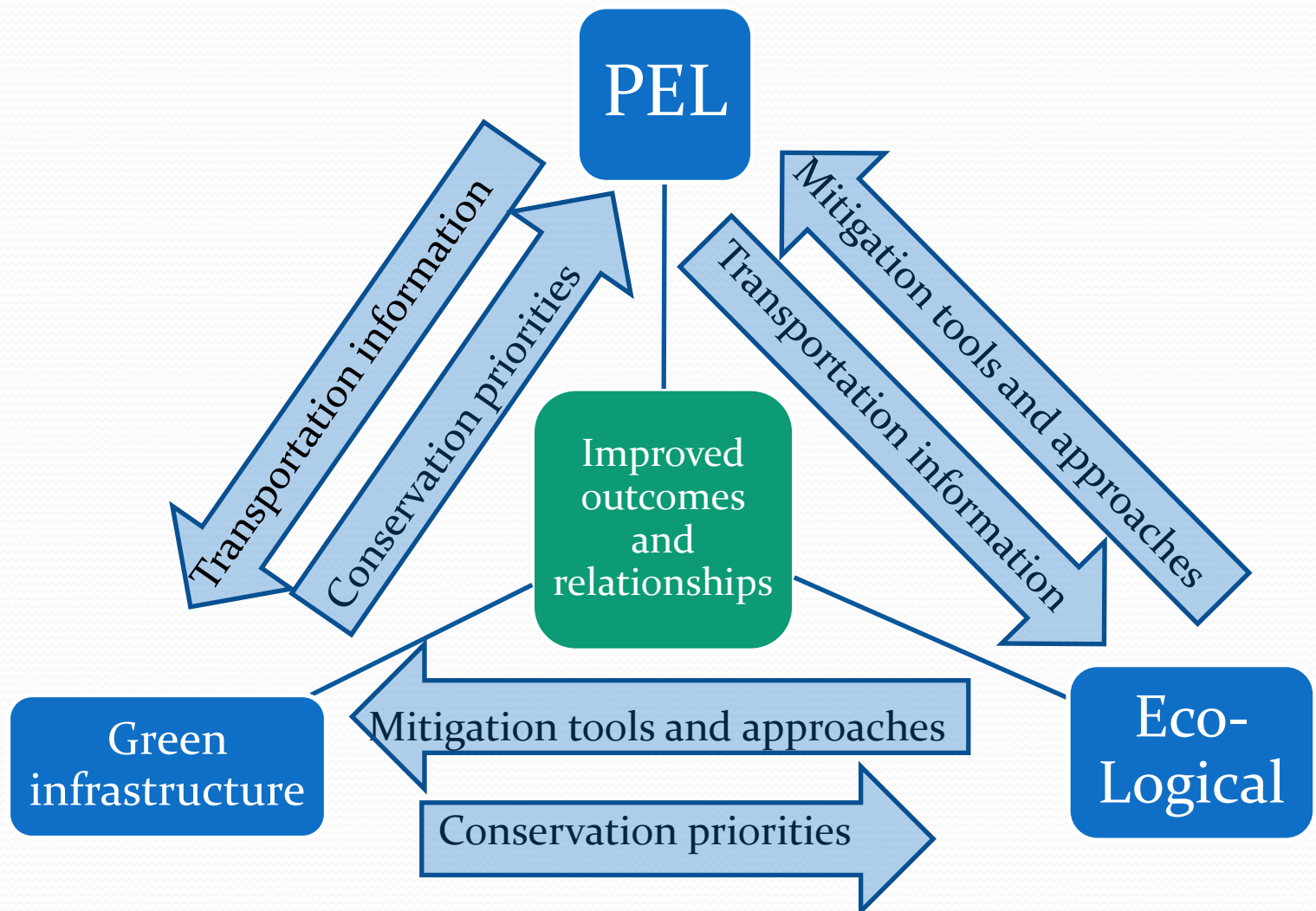
[www.pgplanning.org/Projects/Ongoing Plans and Projects/Environmental/Green Infrastructure.htm](http://www.pgplanning.org/Projects/Ongoing%20Plans%20and%20Projects/Environmental/Green%20Infrastructure.htm)

www.conservationfund.org/wp-content/uploads/2012/10/Sustainable-Chesapeake-Chapter-3-GI-Planning-PG-County.pdf



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Inputs and Outputs



Mutually Reinforcing Concepts

Eco-Logical

- Ecosystem approach to development and mitigation
- Performance management

Green Infrastructure

- Ecosystem approach
- Framework
- Integrated planning

- Ecosystem approach to conservation

- Proactive contacts
- Information sharing
- Interagency cooperation
- Balanced priorities
- Improved outcomes

- Tools and techniques

- Plans and documents

- Streamlined processes
- Reduced redundancies

PEL



For More Information

- Planning and Environmental Linkages (PEL):
www.environment.fhwa.dot.gov/integ/
- Eco-Logical:
www.environment.fhwa.dot.gov/ecological/eco_entry.asp
- Green Infrastructure:
www.americanrivers.org/initiatives/pollution/green-infrastructure/what-is-green-infrastructure/

Contact: Mike Ruth (mike.ruth@dot.gov)

