Eco-Logical Webinar Series



Updating the REF and Ecological Data

Step 9 of the Integrated Eco-Logical Framework

Presenters

William Ostrum, Federal Highway Administration

Meredith Dang, Houston-Galveston Area Council





Steps to Ensure Optimal Webinar Connection

This webinar broadcasts audio over the phone line and through the web room, which can strain some internet connections. To prevent audio skipping or webinar delay we recommend participants:

- Close all background programs
- Use a wired internet connection, if possible
- Do not us a Virtual Private Network (VPN), if possible
- Mute their webroom audio (toggle is located at the top of webroom screen) and use phone audio only

Eco-Logical Updates

- Annual Report describing projects by Implementing Eco-Logical funding recipients (late fall 2014)
- Starter Kit and Practitioners Handbook (fall 2014)
- On-Call Technical Assistance Team (fall 2014)
- SHRP2 C40A Eco-Plan data tool is undergoing open testing (<u>Eco Plan</u>, <u>Eco-Plan Advanced</u>)

Step 9: Updating the REF

This Webinar:

- An example of an agency that is updating its REF for new data and needs
- Discussion of actions and strategies that can help keep the REF relevant in decisionmaking
- Presentation: Federal Highway Administration
- Presentation: Houston-Galveston Area Council (H-GAC)
- Discussion: FHWA/H-GAC

Integrated Eco-Logical Framework (IEF)

- Process to guide transportation and resource specialists in the integration of transportation and ecological decisionmaking.
- Helps identify potential impacts to environmental resources very early in the planning process.

Steps of the IEF (and the Eco-Logical approach)

- 1. Build and strengthen collaborative partnerships
- 2. Integrate natural environment plans
- 3. Create a Regional Ecosystem Framework (REF)
- 4. Assess effects on conservation objectives
- 5. Establish and prioritize ecological actions
- 6. Develop crediting strategy

- 7. Develop programmatic consultation, biological opinion, or permit
- 8. Implement agreements, adaptive management, and deliver projects

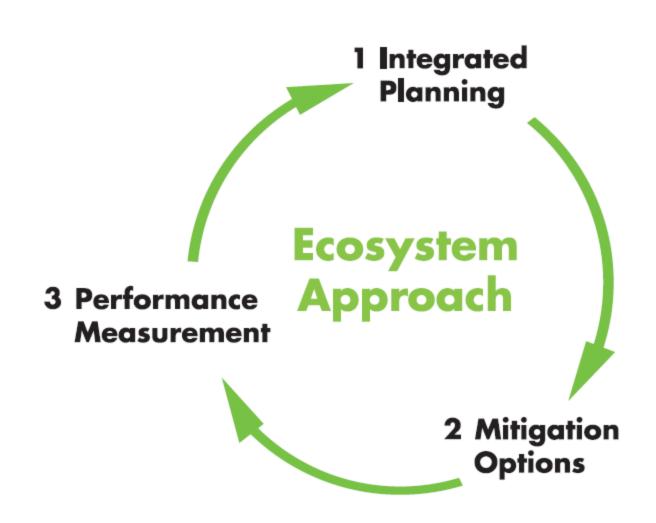
9. Update REF

Partner
Share Data
Analyze Effects

Identify key sites and actions

Document Implement Evaluate

Step 9: Updating the REF



Potential Update Actions



Expand REF geography and data types



Incorporate most recent data layers



Consider effects of implemented transportation and mitigation projects



Re-evaluate regional environmental and infrastructure priorities

Performance Feedback in the REF

Example Logic Model for a Wildlife Crossing* Planned Wildlife Crossing Intended Results Inputs Activities Outputs Outcomes Impacts - Habitat - Increase in - Conservation - Staff time Develop and implement bridge population sizes of healthy, Funding wildlife crossing productive. - Increase in sustainable Materials habitat ecosystems for cconnectivity the benefit of Regional conservation wildlife strategy - Decrease in vehicle-wildlife interaction

Potential Update Strategies

- Regularly-scheduled or real time data updates from partners
- Continued engagement with stakeholders
 - Formal (e.g. MOUs, data-sharing agreements)
 - Informal
- Performance management and planning that includes ecological data

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Updating the REF and Ecological Data

Step 9 of the Integrated Eco-Logical Framework

- William Ostrum, Federal Highway Administration (william.f.ostrum@dot.gov)
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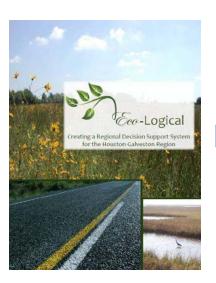




Meredith Dang, AICP
Houston-Galveston Area Council
June 25, 2014

Houston-Galveston Area Council

Working with Existing Plans







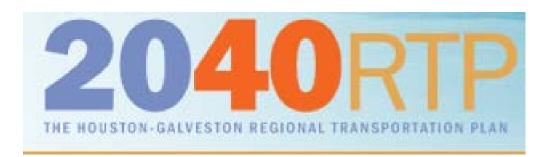




HOUSTON GALVESTON REGIONAL PLAN

People Places Prosperity





By 2040 The Region Will Add





Eco-Logical Project Need

- Lack of ecosystem approach to long-range planning
- Coordinating transportation and conservation needs early in the process







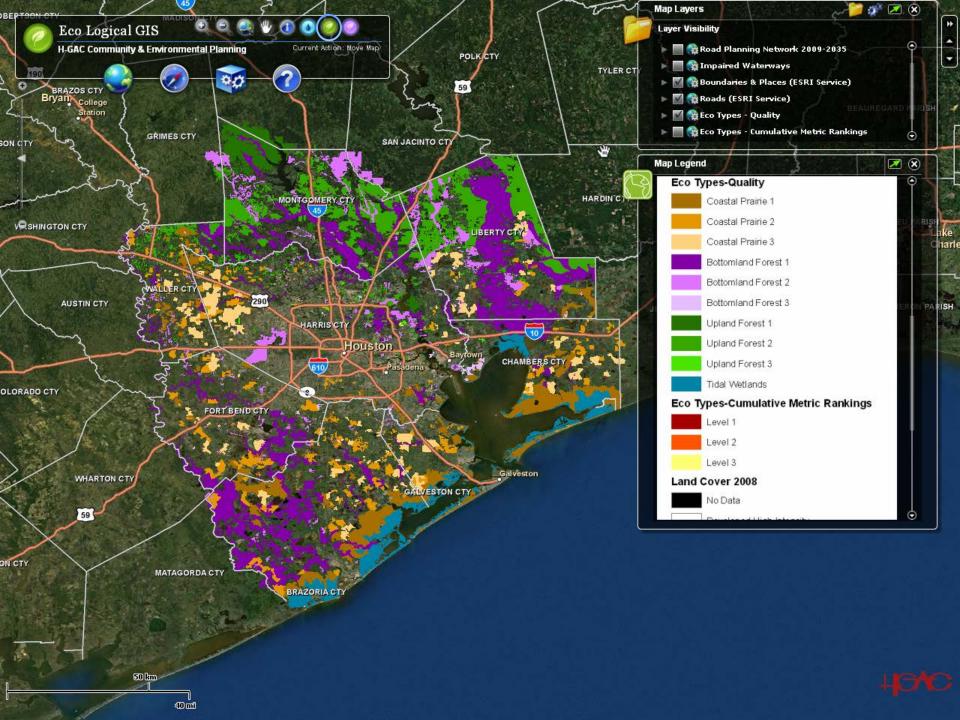
Purpose of Eco-Logical

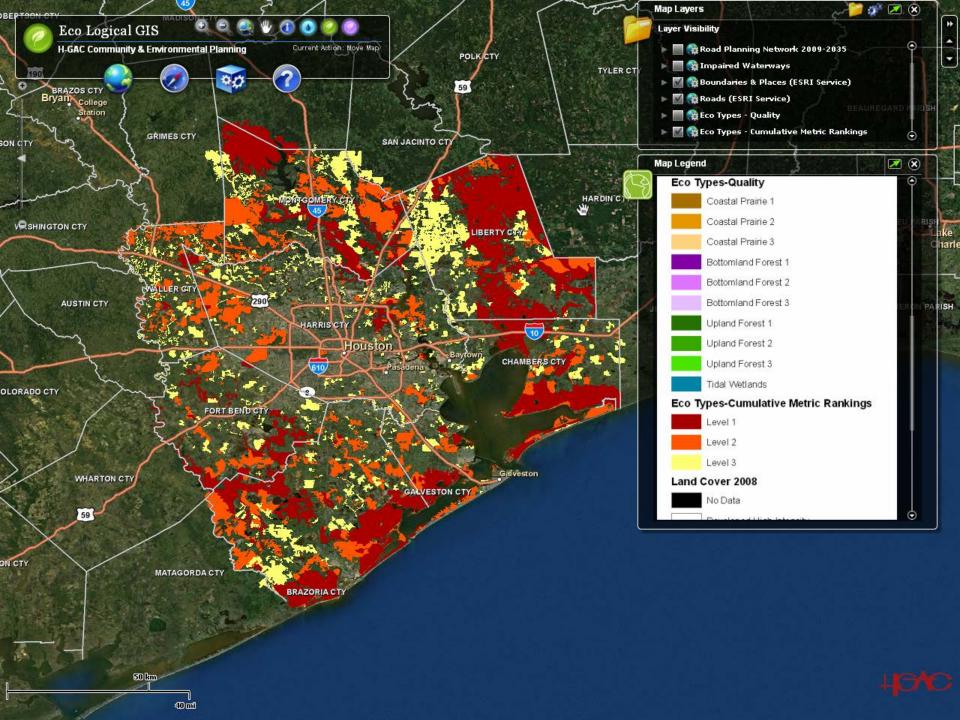
- Decision support system for regional planning
- Inventory of high value environmental resources
- Data clearinghouse for organizations and the public

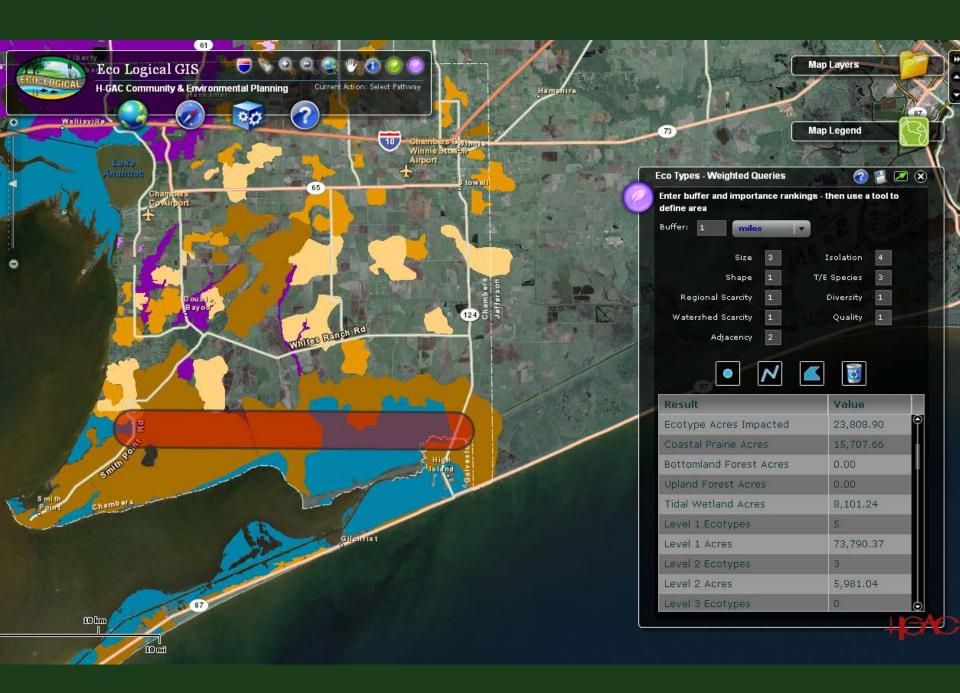




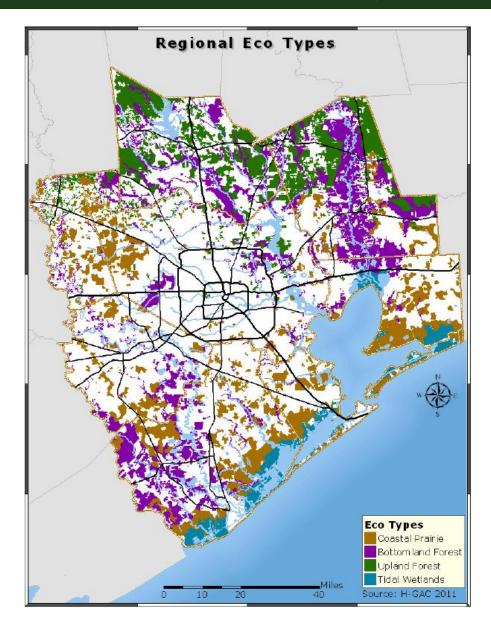


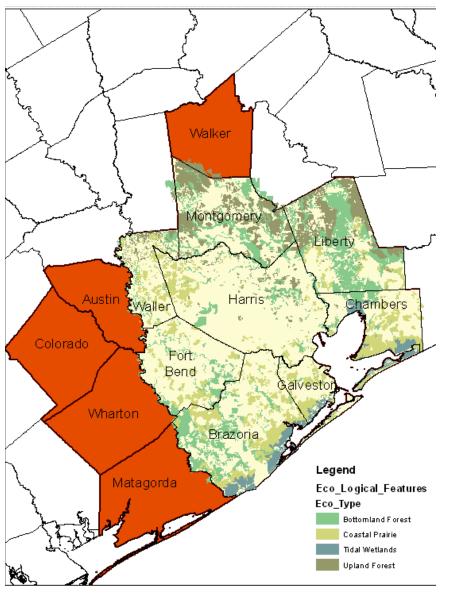






Expanded Mapping





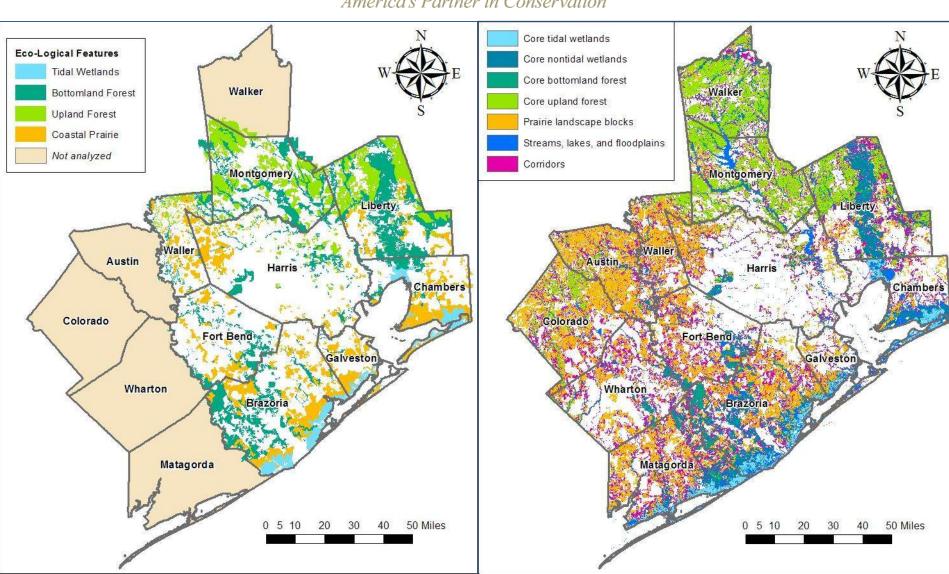
Original Eco-Logical 8 Counties

Sustainable Community 13 Counties

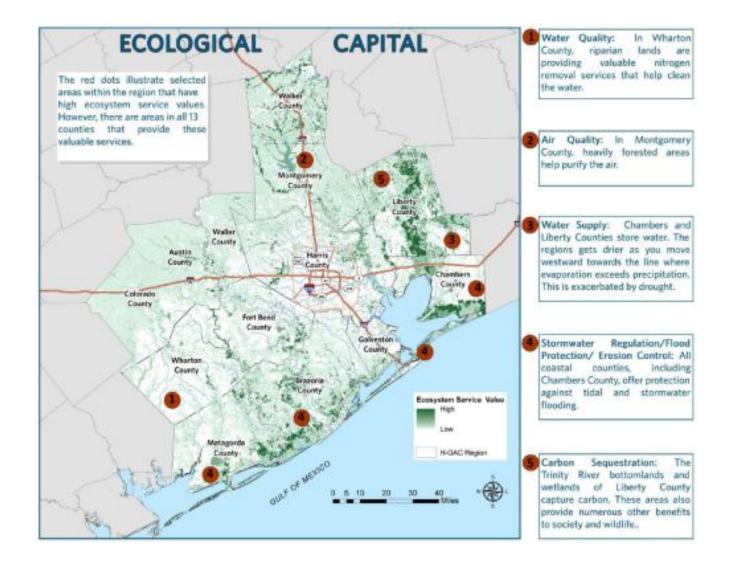
Eco-Logical GIS Update for 13-Counties

THE CONSERVATION FUND

America's Partner in Conservation



Eco-Logical Services Assessment





尽力 The Ip make the vision for a better tomorrow a reality!

What choices should we make when planning for the **future of our region**?

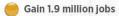


WIN GIFT CARD

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Forecasts by the Houston-Galveston Area Council predict that by the year 2040, our region will:







For this survey, please consider three possible futures for the region. Each represents one of the top three areas residents indicated were important during a survey conducted in early 2012 - Less Time on the Road, Greener Region, Competitive Workforce. As a baseline when thinking about these three alternative futures, please consider the Current Course, or what the future may look like if we don't make any changes to our current growth, environmental and educational trends.



2040 Current Course

- · Existing trends continue
- · No major policy changes
- Most of growth occurs outside of existing towns
- · Traffic congestion increases
- · Large amount of natural areas lost to development
- · Education concerns not addressed, leading to a less competitive workforce



2040 Alternative Future: Less Time on the Road

- · Most of growth occurs in existing places
- More jobs and housing located closer together
- Reduction in travel times, costs Some new housing is smaller sized, in walkable areas
 - · More investment in sidewalks, bikeways, public transportation
 - · Better air quality



2040 Alternative Future: Greener Region

- Air and water quality improved
- · Development reduced in flood and storm surge vulnerable
- · Best natural areas preserved
- · New businesses, workers. tourists attracted by natural
- Greener practices adopted by local governments



2040 Alternative Future: Competitive Workforce

- Increase in education attainment of residents
- · Community factors, such as poverty and crime, addressed
- · Highly skilled workforce
- Competitive economic region
- · Good jobs and job training opportunities



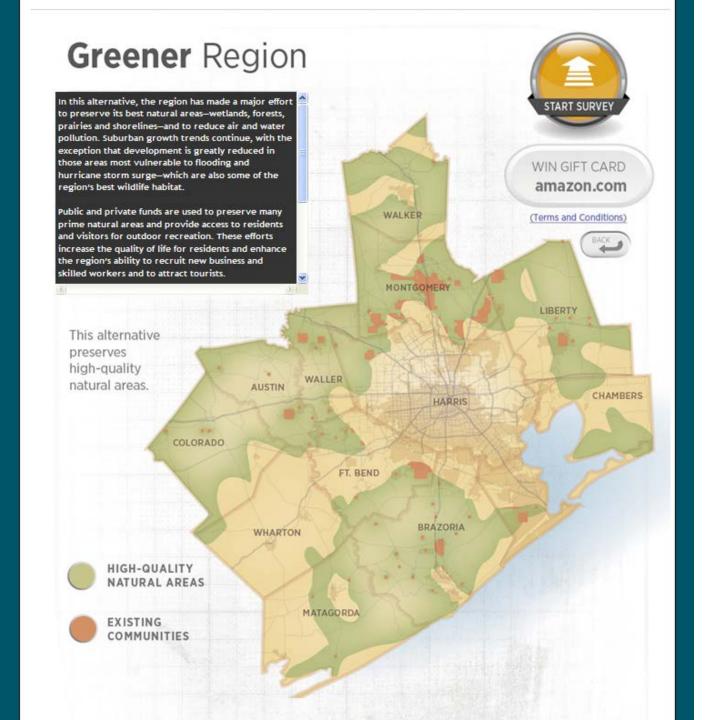








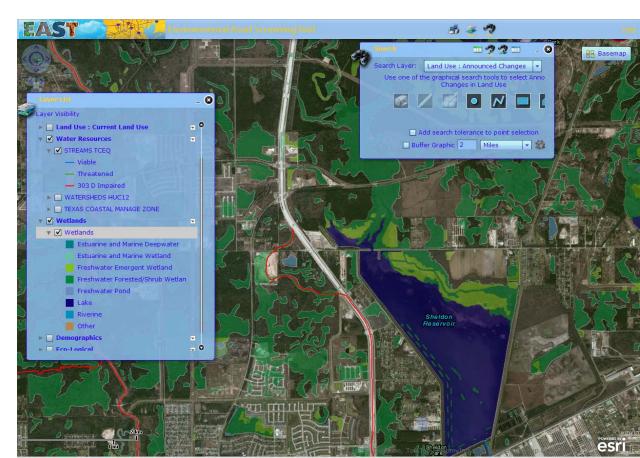




Integration with Future Plans

2040RTP THE HOUSTON-GALVESTON REGIONAL TRANSPORTATION PLAN

- Analyze the potential impacts to natural resources
- Capture impacts as a performance measure



Next Steps



- Regional mitigation plan
- Mitigation banks and credit availability
- Share data and analysis
- Broaden partnerships





Questions?

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

www.ourregion.org

www.2040plan.org