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ACPAC Member Time

April 17, 2017

Working at the Science Policy Interface

- Bringing strong scientific foundation to environmental policy decisions
- Systems thinking...seeing connections
 - Multimedia, life cycle assessment
 - Across levels of government, sectors
- Effectively making decisions to advance sustainability

I participate in ACPAC in my personal capacity, and the views expressed in this presentation and participation are my own personal views; they are not intended to represent EPA.

Sustainable and Healthy Communities Research Program

- Program Vision

Develop the science and technology to support EPA's approach to a sustainable environment and to expand community stakeholders' capabilities to consider impacts of decision alternatives.

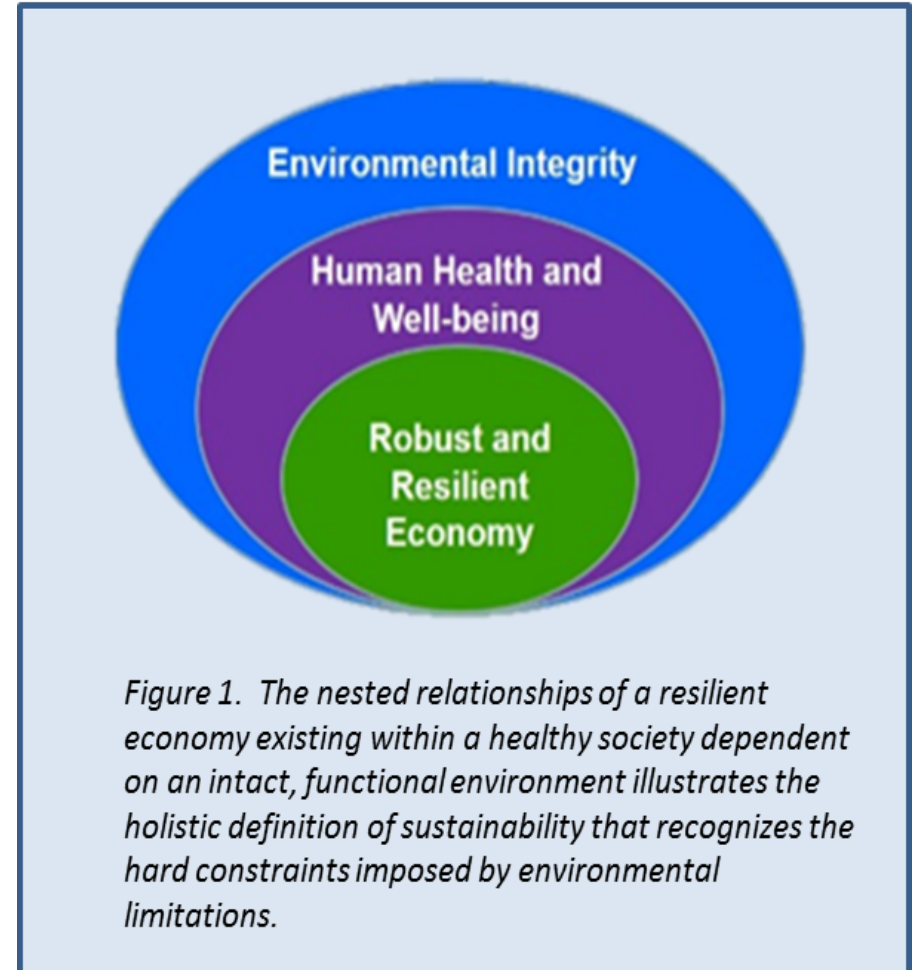


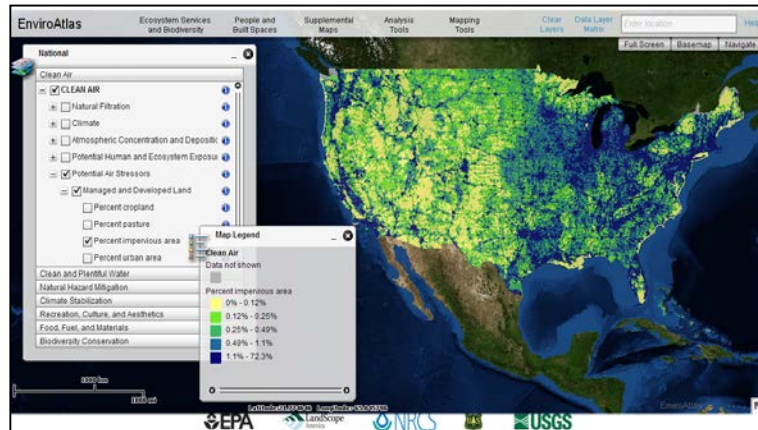
Figure 1. The nested relationships of a resilient economy existing within a healthy society dependent on an intact, functional environment illustrates the holistic definition of sustainability that recognizes the hard constraints imposed by environmental limitations.

Example Decision Support Tools

EnviroAtlas

An online decision support tool giving users the ability to view, analyze, and download geospatial data and other resources; designed to inform decision-making, education, and additional research.

<http://enviroatlas.epa.gov>



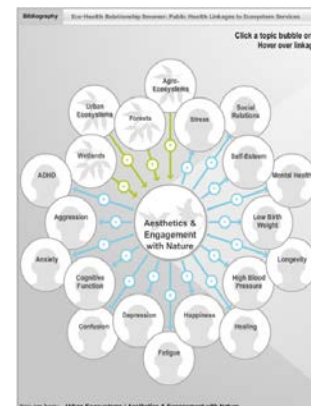
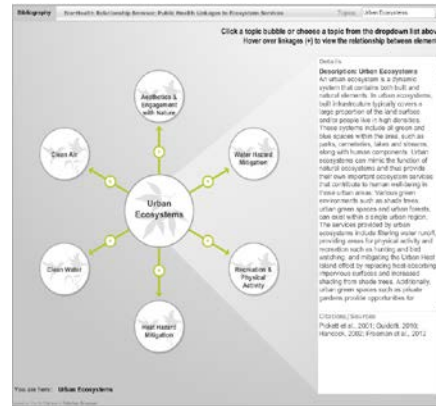
Interactive Mapping Application



C-FERST (Community-focused Exposure and Risk Screening Tool)



A web-based “tool-kit” that helps communities answer questions related to environmental health and well-being, with the goal of identifying environmental health issues, developing a plan and identifying and assessing potential solutions.



Eco-Health Relationship Browser



EPA Air and Climate Regulations

- National Ambient Air Quality Standards
- Air Toxics Regulations
- Renewable Fuel Standards
- Fuel Registrations
- Greenhouse Gas Mandatory Reporting Rule



Inter-Agency Science Coordination



- National Science and Technology Council, OSTP
 - Executive Secretary, Committee on Science (CoS)

The purpose of the CoS is to increase the overall effectiveness and productivity of federally supported efforts that develop new STEM knowledge. It is a formal mechanisms for interagency science policy development, coordination and information exchange.

Private and International Partnerships

- Chemical Sector Liaison
 - Encouraged voluntary and innovative approaches to environmental performance
- Led ORD's collaboration with China's Ministry of Science and Technology
 - Joint research on air, water, and chemicals



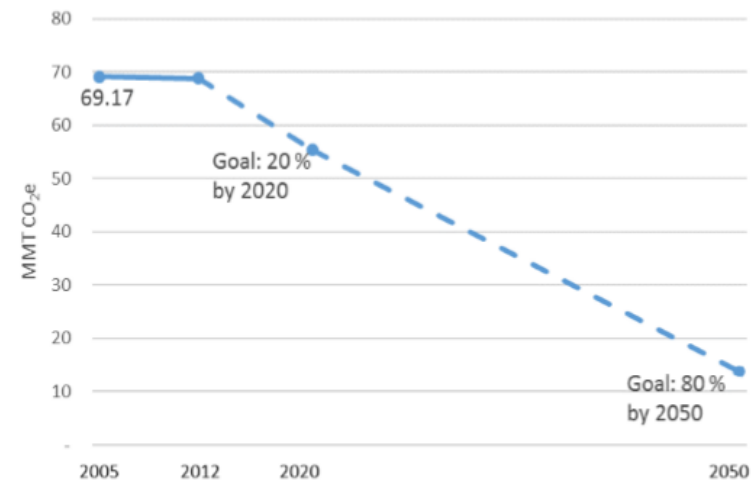
Local Action

- Takoma Park Committee on Environment
 - Sustainable Maryland certification
 - Compact of Mayors
 - Regional Climate and Energy Action Plan implementation



COMPACT
of MAYORS

Figure 1: Progress Towards Metropolitan Washington's Greenhouse Gas Emissions Reduction Goals



In 2012, the region aimed to keep GHG emission levels stable at 2005 levels. Despite a 15% growth in population, overall emissions decreased by 0.5% and per capita emissions decreased 10% between 2005 and 2012.

This plan is a tool to help the region achieve its 2020 goal.