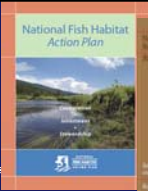




## LCCs

- A. Landscape:** define ecologically-relevant scale to work
- B. Conservation:** address threats at a scale beyond that of any single entity ... *connectivity, resilience, irreplaceability*
- C. Cooperative:** work through a collaborative decision-making => **self-directed partnership** ...all DOI units, federal agencies, state, tribal




**22 LCCs**

Appalachian LCC

**LCCs**

“agencies may soon be **unable to fulfill legal and regulatory responsibilities** because of climate-related changes”


Source: NRC 2009



**Secretarial Order #3289**  
(Sept 2009)

...ordered Department to establish

“a **network** of Landscape Conservation Cooperatives (to engage **DOI** and **federal agencies, states, tribal** and local governments and the public to craft practical, landscape-level strategies for **managing climate change impacts.**”



22 LCCs  
Appalachian LCC

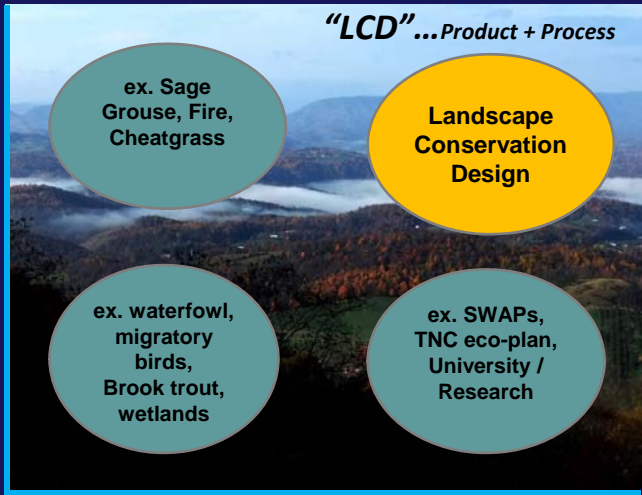
**LCCs & LCDs**

**“LCD” ...Product + Process**

**Stakeholders / Audience**

All Stakeholders

Limited / Internal



ex. Sage Grouse, Fire, Cheatgrass

**Landscape Conservation Design**

ex. waterfowl, migratory birds, Brook trout, wetlands

ex. SWAPs, TNC eco-plan, University / Research

Single Holistic

**Targets (species, issue, habitats, etc.)**

Source: Tom Miewald, National Wildlife Refuge System



## I. LCDs – evolution / understanding, guidance









Rob Campellone, Policy NWR System

## I. LCD evolution / understanding, guidance, frame



**Landscape conservation design and the iCASS Platform:**  
 An adaptation pathway for social transformability in sustainable planning  
Compellone, R. M., Chomazani, T. M., Fischler, N. A., Gallo, J. A., Lopez, J. R., McCremack, R. J., Marwood, T. A., Murray, B. A., Porek, D. J., Shovaly, D. B. (in review)

August 2016

**Introduction**  
 Single-institution planning is typically atomistic, rigid, and incapable of... that develops the technical blueprints and specification documents that guide the manufacture of resilient and sustainable landscapes. We assert that design constitutes an adaptation pathway—

**iCASS**

- i innovation** ——— (vary geography, socio-ecological systems)
- C Convening** ——— stakeholders => shared goals { articulate }
- A Assessment** ——— current & future conditions
- S Spatial** ——— develop design [what will success look like]
- S Strategy** ——— (map) how do we implement it...acting collectively

**iCASS innovation** ...to address **“Wicked Problems”**

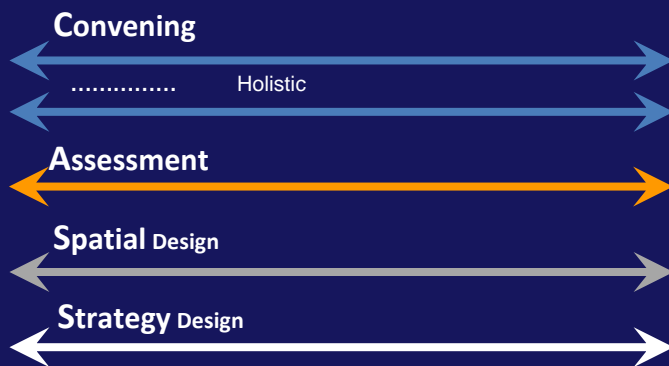
Reference: (<http://www.journals.elsevier.com/landscapeandurbanplanning>)

Tom Miewald, North Pacific LCC, Science Applications, NWR System

I. LCDs – evolution / understanding, guidance, frame, **practice**

*...a continuum*

**iCASS**

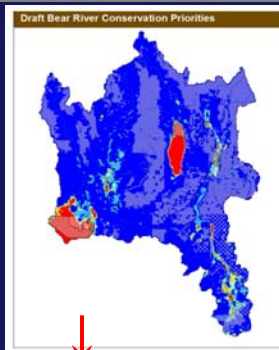


Tom Miewald, North Pacific LCC, National Wildlife Refuge System, USFWS Science Applications

**Convening**

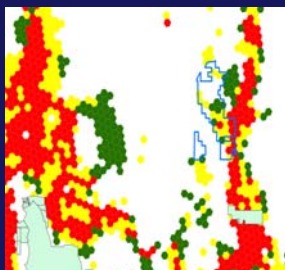
- Outreach**
- Conversations with agencies, NGOs, landowners
  - Invitations to 14 tribes
  - 12 public meetings

**Assessment**

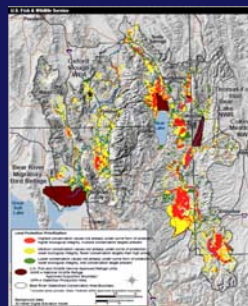


**iCASS**

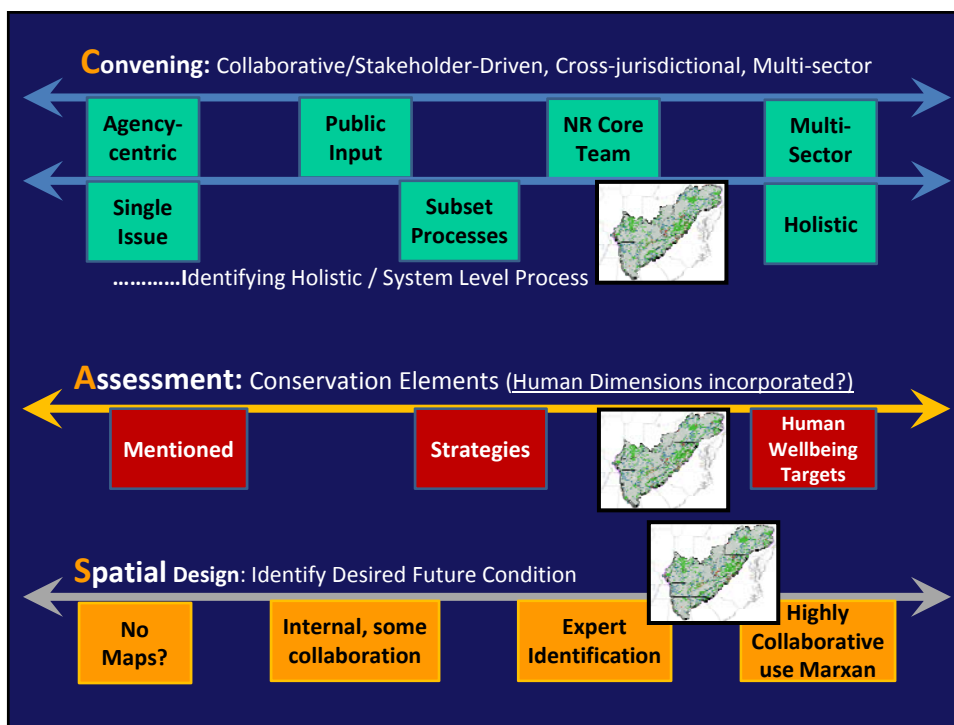
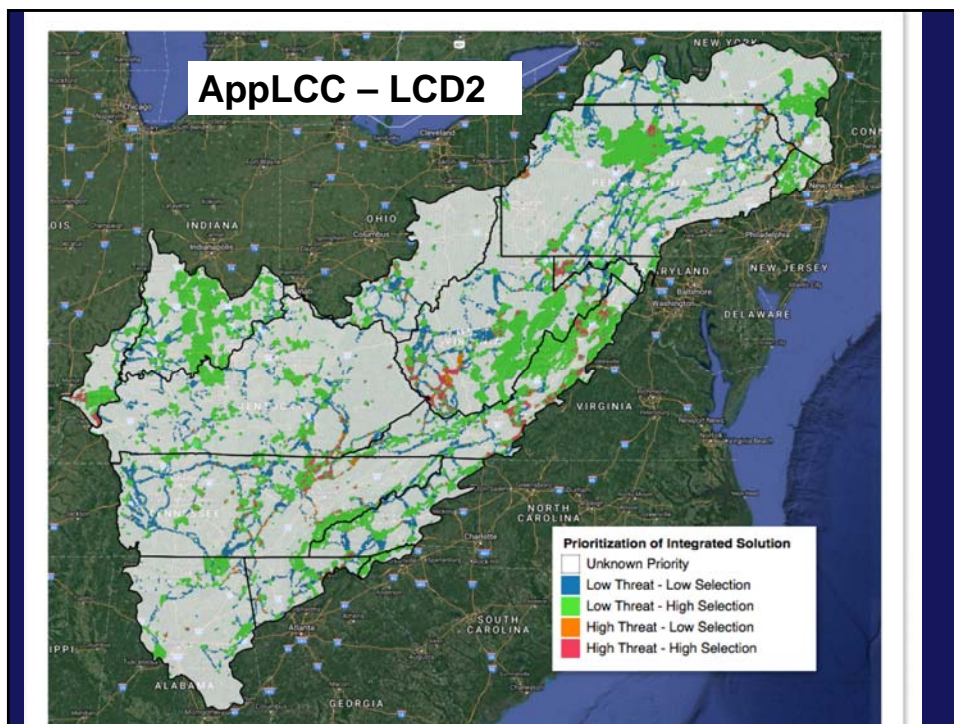
**Strategy (commitment/action)**

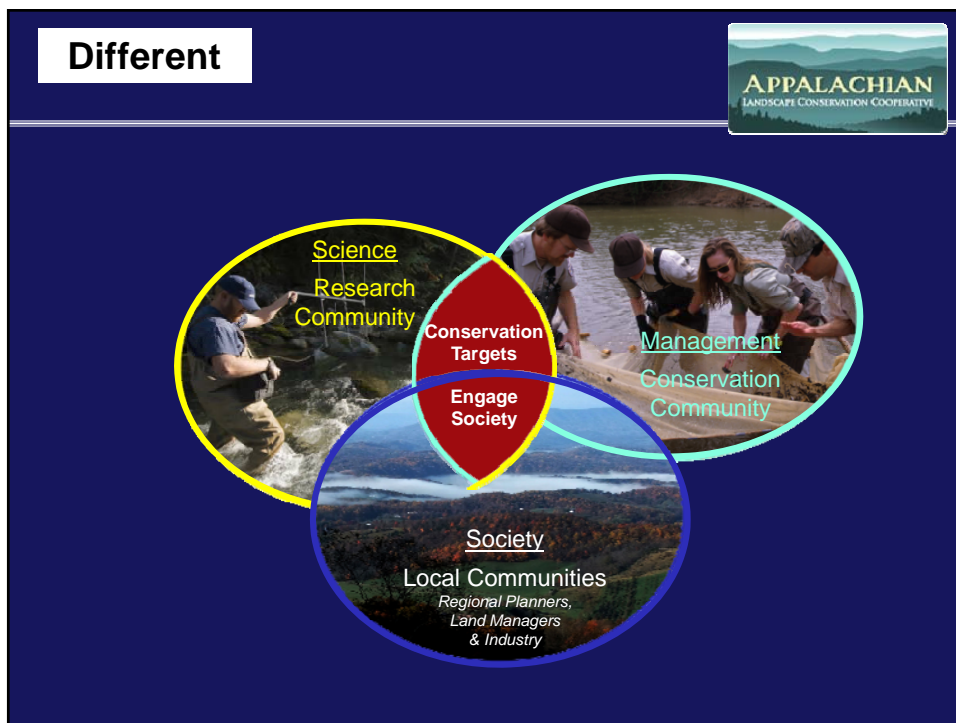
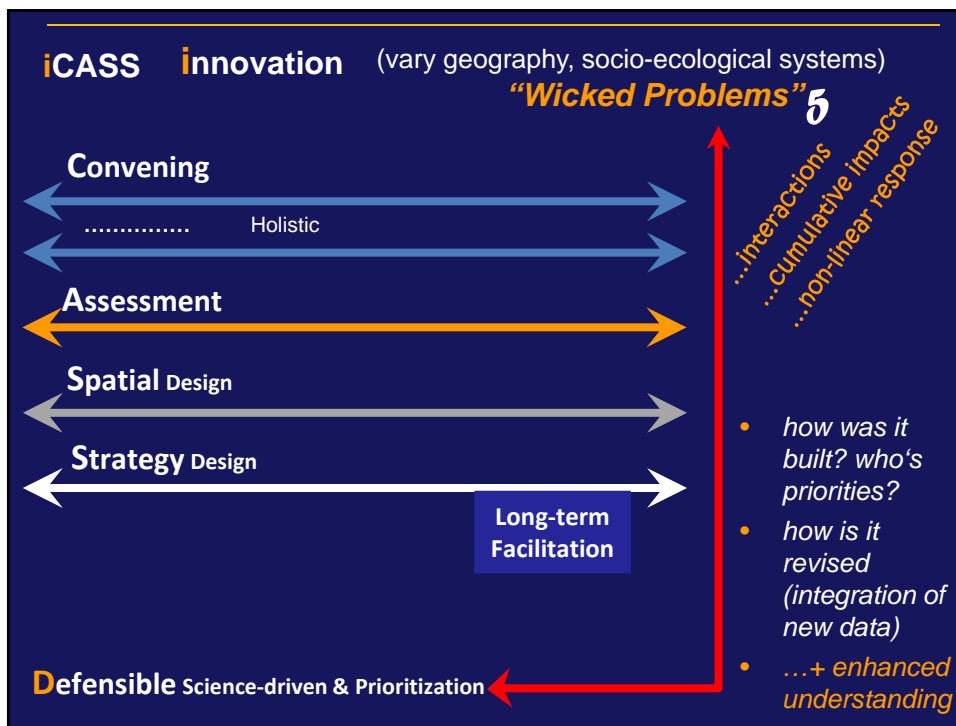



**Spatial Design**












## + Guiding Principles

**Guiding Principles:**  
Working at a landscape-level, engaging a diversity of partners, and leveraging resources to chart a more sustainable path forward.

**Role of LCCs**



OVERVIEW: Using AppLCC Science Investments  [GET STARTED](http://www.applcc.org)

<http://www.applcc.org>

The **Big** Questions

- I. Why landscape planning & design approach?**
- II. What are Landscape Conservation Designs (LCDs)?**
- III. How can the LCD inform decision-making?**