NALCC Information Management Update
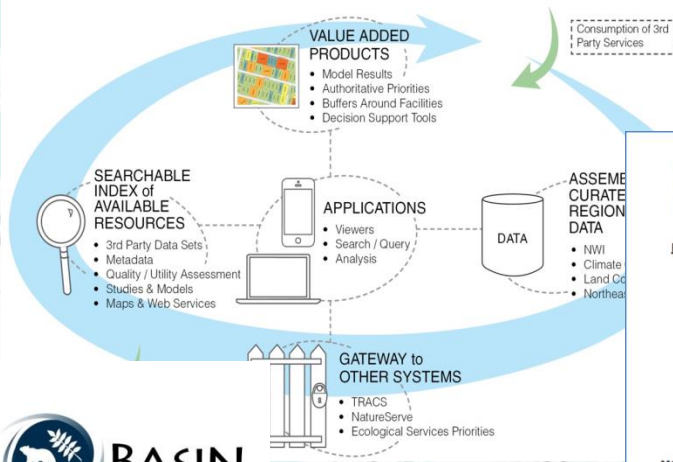
NALCC Steering Committee Meeting
April 22, 2015
BJ Richardson

Where we have been (IM)

- Albany II
- Conservation Framework
- More than just data: maps, web services, outreach, education

Northeast Conservation Framework

GOAL-SETTING
Which species to conserve?
At what levels?
Who decides?

BIOLOGICAL ASSESSMENT
What do we know about the status of priority wildlife?

CONSERVATION DESIGN
What should landscapes look like to conserve all species at levels that society wants?

PRIORITIES
Which species demand immediate attention?

INFORMATION MANAGEMENT
How will we manage the demand for and creation of data?

SCIENCE TRANSLATION TOOLS
How do we make science solutions useful?

MONITORING, EVALUATION, RESEARCH
What new information will we gather to support conservation?

CONSERVATION ADOPTION
How do we get communities and landowners engaged in conservation?

CONSERVATION DELIVERY
How will we most efficiently put conservation on the ground?

Sources: Esri, DeLorme, USGS, NPS.

Where we have been (cont'd)

- Albany II Priority Next Steps (for Information Management):
  - Support and engage in the forthcoming regional IM needs assessment ✓
  - Develop a way for states, LCCs and other partners to access the mapping and products coming out of the RCN process ✓
  - Support development of SWAP database to promote consistency in next generation of SWAPs, allow easy State rollup, guide revisions and improve accessibility (mostly done)

Sources: Esri, DeLorme, USGS, NPS

Where we have been (cont'd)

- Albany II Priority Next Steps (for Information Management):
  - Easy access to information for policy makers in Congress; translation of value of basic science for lay audience (only partially IM)
  - Create regional geospatial database that can be shared and used among all partners ✔
  - Regional habitat management database that includes spatial and tabular data on habitats being managed on both public and private lands, type of management , target species; consider pilot on one type of habitat.

Where we have been (cont'd)

- Information Management Needs Assessment (IMNA)

Information Management Needs Assessment

for

North Atlantic LCC

North Atlantic Landscape Conservation Cooperative

Final

IMNA Vision

- NALCC will establish an info management system

- This system should:
  - Provide a holistic, region-wide view ✔
  - Be information rich and readily available ✔
  - Provide data and tools to facilitate planning and "deliver conservation on the ground" ✔

AppGeo

IMNA Three **Strategic** Goals
To move us towards realizing the vision

1. Design and create a regional information management system (IMS) capacity ✓

2. Populate the IMS with relevant, region-wide data ✓

3. Provide tools for accessing and portraying the data ✓

IMNA **Programmatic Goals**/Recommendations
To move us towards achieving the strategic goals

The "do list"

- Design and **architect** the actual system ✅

- Engage with members who could potentially **host** ✅

- Budget and **find funding** to begin ✅

- **Inventory** available data ✅

- **Assemble** region-wide data ✅

- Etc…..

Implementation Guidance
Because this study is about needs, not implementation

- Keep the effort manageable ✅
  - Five $50k projects may be better than one $1M project

- Use agile development & deployment
  - Like a "design-build" for technology

- Plan for technology change ✅

- Think mobile from the outset

- Think about third-party/outsource hosting of the system ✅

- Don't forget that data can be the most expensive part ✅

- Leverage existing projects when possible
  - NALCC web-site re-design; ScienceBase; *et al* ✅
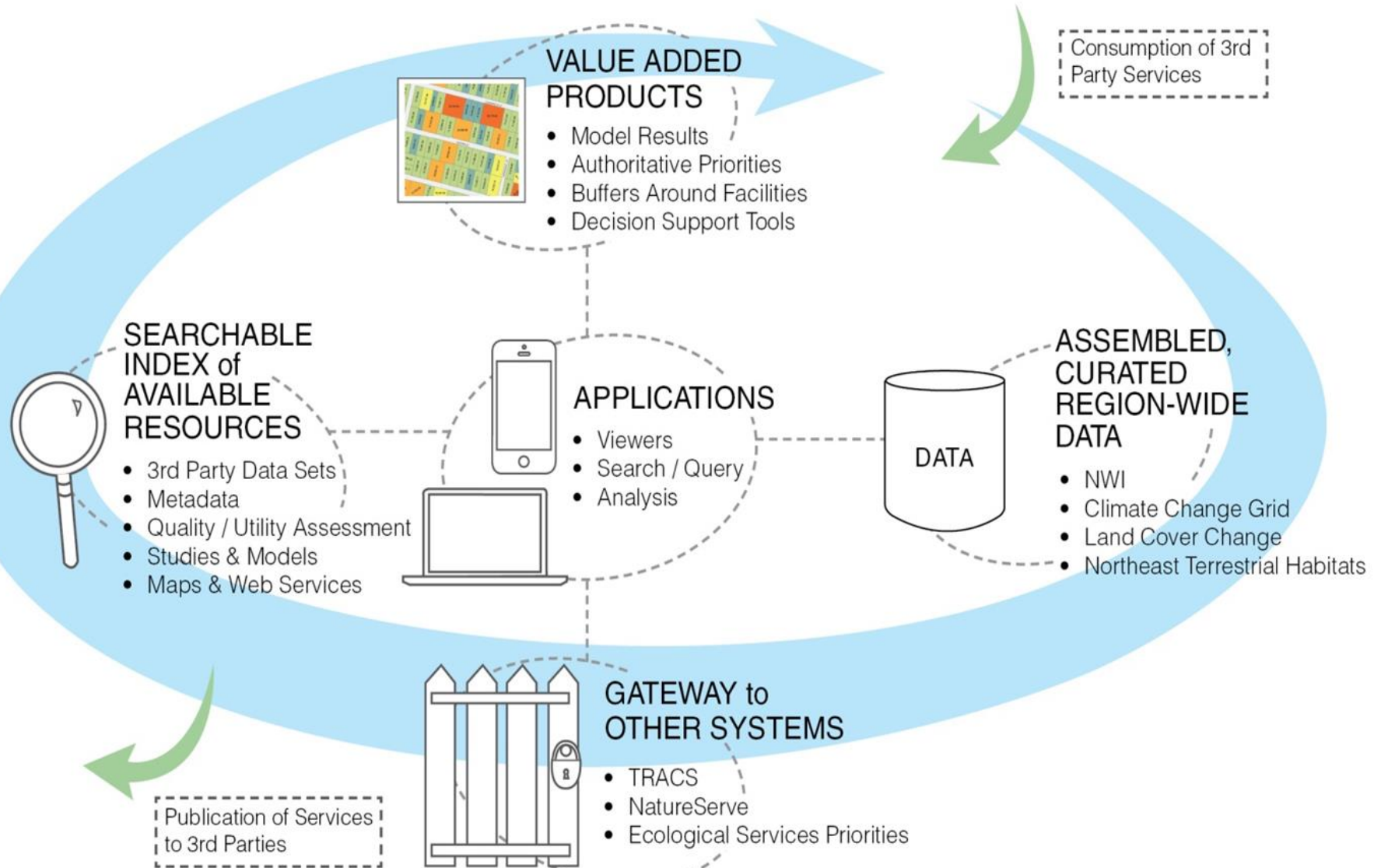

Simple is the new Complex

It can be easier to keep adding features and complexity than it is to make tough choices that maintain simplicity

What's easier a 20 minute presentation or a 5 minute lightning talk?

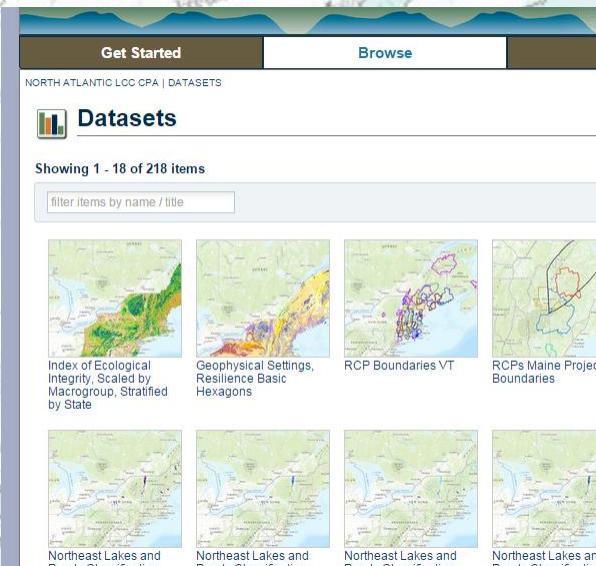AppGeo

Programmatic Goals/Recommendations
Conceptual Framework
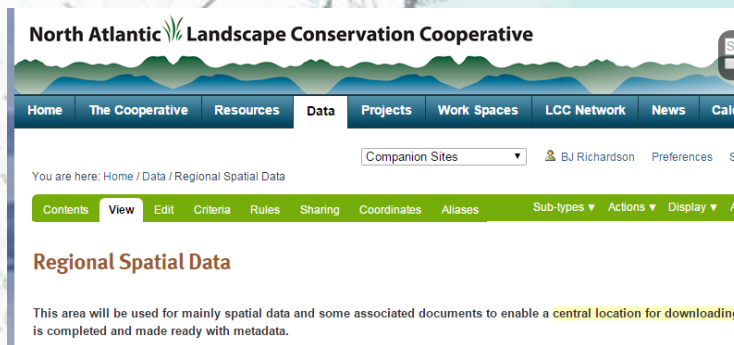
Where we are now

North Atlantic Landscape Conservation Cooperative
Conservation Planning Atlas

-
  - Over 200 data sets posted and available for viewing and download

DATA BASIN

| Get Started | Browse |

NORTH ATLANTIC LCC CPA | DATASETS

Datasets

Showing 1 - 18 of 218 items

filter items by name / title

Index of Ecological Integrity, Scaled by Macrogroup, Stratified by State — Geophysical Settings, Resilience Basic Hexagons — RCP Boundaries VT — RCPs Maine Project Boundaries

Northeast Lakes and Ponds Classification — Northeast Lakes and Ponds Classification — Northeast Lakes and Ponds Classification — Northeast Lakes and Ponds Classification

- NALCC Website
  - all data sets available for download via Amazon cloud

North Atlantic Landscape Conservation Cooperative

| Home | The Cooperative | Resources | Data | Projects | Work Spaces | LCC Network | News | Cale|

Companion Sites ▼   BJ Richardson   Preferences   Site

You are here: Home / Data / Regional Spatial Data

| Contents | View | Edit | Criteria | Rules | Sharing | Coordinates | Aliases | Sub-types ▼ Actions ▼ Display ▼ Ad|

Regional Spatial Data

This area will be used for mainly spatial data and some associated documents to enable a central location for downloading.
is completed and made ready with metadata.

Sources: Esri, DeLorme, USGS, NPS.

Where we are now (cont'd)

- Data sets available locally on FWS network; can be used for analysis as needed
- Working with other mapping portals to coordinate posting of data: other LCCs, Landscope, Two Countries/One Forest

Where we are going

- Posting projects and products on website – tying to data sets on Data Basin and website

- Facilitating easier downloads from NALCC website – batch downloading

- Completing CT River Landscape Conservation Design Pilot Project
  - Team reviewing many data sets

- Science Delivery
  - RCP Workshops (more later from Steve)
  - RCOA process (more later from Steve)

Where we are going

- Feedback on Data Basin (thru RCP, CT Riv and others)
  - Ongoing improvements to organization of data and maps
  - Evaluating improvements to interface
  - Investigating implementing analysis tools
- Interoperability: working with other mapping portals to coordinate posting of data: other LCCs, Landscope, Two Countries/One Forest
  - Newly formed Landscope Interoperability Team
    - New position to facilitate and a part time student
  - Posting data to Landscope will also enable data to be posted to ArcGIS online
- Working with expanded IM Team to chart a path forward given existing accomplishments
  - Looking for new members

Sources: Esri, DeLorme, USGS, NPS

Thank you

- NALCC Staff, especially Renee Farnsworth
- NALCC Partners participating on IM Team and many participants in IMNA

Technology Profile:
What IT/GIS needs could NALCC be providing