

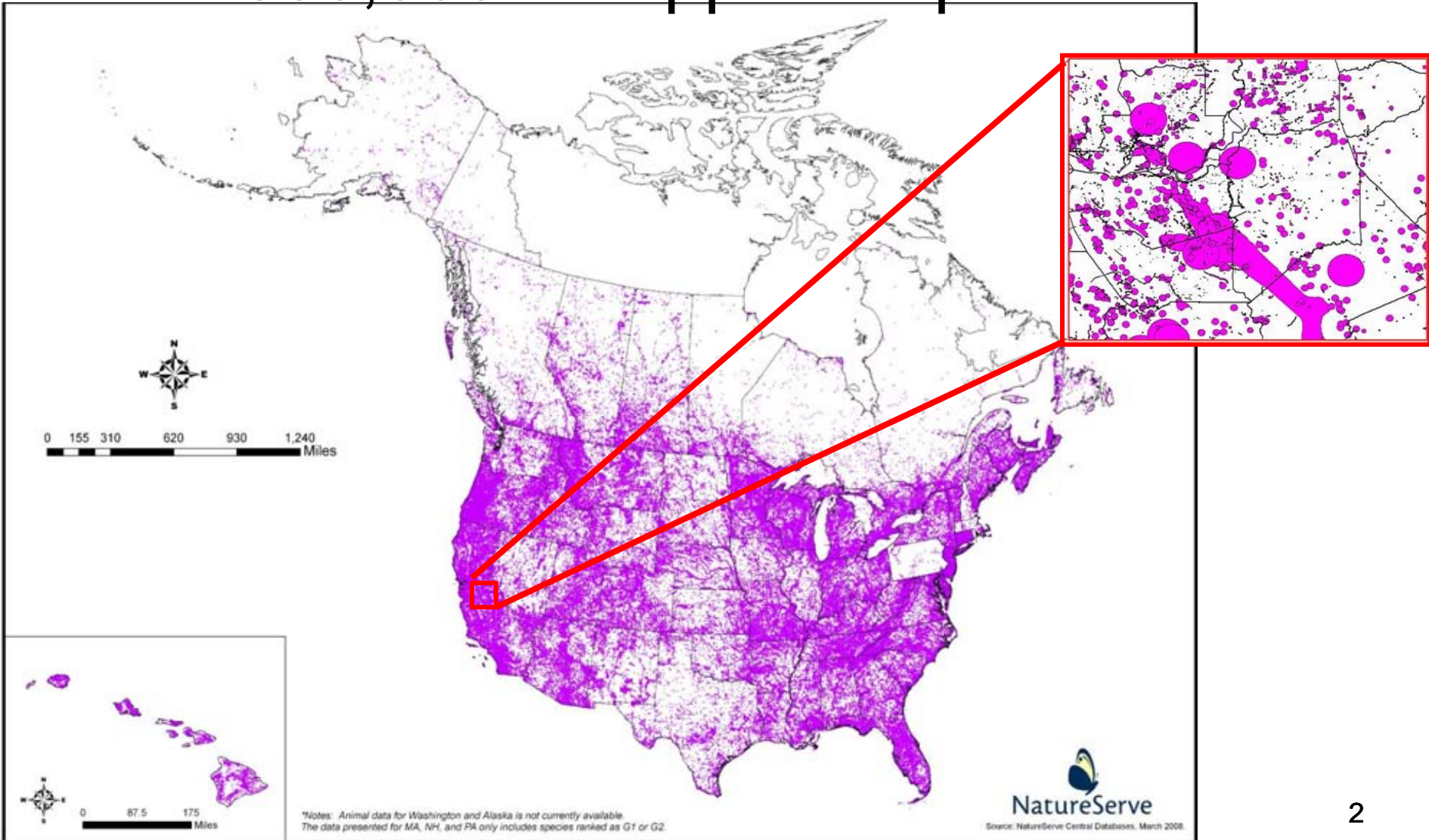
Multi-Jurisdictional Data (MJD) Screening Tool: Overview and Next Steps:

**Northeast Regional Natural Heritage Conference
April 2009**

Nick Conrad, Kat Maybury, Pete Sorrill

NatureServe's MJD

600,000+ Mapped Populations



Background

- NatureServe had no standard species EO product it can offer to its clients
- We formed a Data Access Team to define at least one such product
- Team Surveyed Member Programs (39 programs responded) *and*
- Conducted a Workshop in November 2007 (19 programs participated)
- **One endorsed product!**

The Endorsed Product

- Did not involve precise data
- Offered scalable levels: the smaller the area queried the less detailed the information about what's in the area.

Low spatial resolution;
High attribute detail



High spatial resolution;
Low attribute detail

vs.

Product Development Team

Nick Conrad (NY), Kat Maybury (NS), Pete Sorrill (ON) , and...

John Gamon (WA)



Rayo McCollough (NM)



Sabra Schwartz (AZ)
5



Leslie Honey (NS)

Decisions: Security

4. This web service is intended solely for informational or planning and assessment purposes. Use of the web service for any other purpose is prohibited.
5. Data provided via this web service should not be regarded as a substitute for on-site surveys such as are required for environmental assessments. If ground disturbing activities are proposed on a site, the user should contact the appropriate regulatory agency. The user center should be contacted for more information.
6. In the event that a registered user is no longer interested in using the web service, NatureServe may, upon the user's request, delete the user's account. The user may have, at any time, terminated the user's account.
7. NatureServe does not provide any warranty, express or implied, regarding the completeness and accuracy of the data provided via this web service.
8. NatureServe shall have no liability for any damages, direct or indirect, that may be caused, directly or indirectly, by the use of this web service, including but not limited to, anticipated profits or income.

I understand and agree to the Terms and Conditions

← Previous

Next →

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Begin Tutorial >>



NatureServe Web Services
Delivering Biodiversity Data to your Desktop



My Conservation Data

MJD Web Service

Home

Getting Started

User Guide

Data Interpretation

FOIC Metadata

Create Subscription

Your Subscription

Subscription Home

User Registration

In order to access the web service, you must be a registered user. Use this page to register and add yourself to this subscription. If you are already a registered user, you may add yourself to this subscription by clicking on the button below.

I already have a username and password

If you are a new user, you will need to complete the following steps:

1. Fill out the form below.
2. Take a short tutorial and quiz on our methods and the usage of our data. This should take approximately 10 minutes to complete.
3. Read and agree to the terms and conditions.

Please supply your email address and your choice of password. The email address must be a non-shared address, accessible only by you. It will be used for administrative communications, such as lost passwords. Your password is case sensitive and must be a minimum of six characters.

Email ←

Re-enter Email ←

Choose a Password ←

Re-enter Password ←

Next →

Cancel

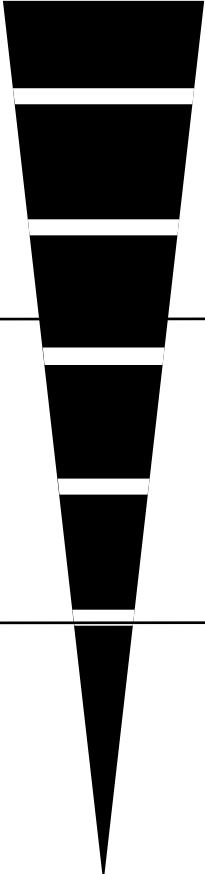
Decisions: Query Options

- User would choose an area or submit a shape
- User could then refine criteria, e.g., limit to taxa with status under the USESA

Query Options

Size of Area Queried

Information Detail Returned

<p>Larger: down to 1/4 Quad (~14 sq miles or 36 sq km)</p>		<p>Maximum: species by name and with comprehensive information about the species, as well as information on each individual element occurrence (e.g., when last observed, viability)</p>
<p>Medium: down to 1/4 of a 1/4 Quad (~3.7 sq miles or 10 sq km)</p>		<p>Intermediate: species not named, but identified by major group (e.g., bird species 1; bird species 2; plant species 1), and with information about each</p>
<p>Small: down to 1 sq mile or 2.6 sq km. Note: <i>not available for all states/provinces</i></p>		<p>Minimum: a "Yes" that at least one species is known there (or a "Not Known")</p>

Expectations

- All U.S. and Canadian member programs will participate at the standard BIG and MEDIUM levels
- **HOWEVER**, programs can “fuzz” sensitive taxa at their discretion

Where We Are Now



**The
endorsed
web service
has been
created!! ***

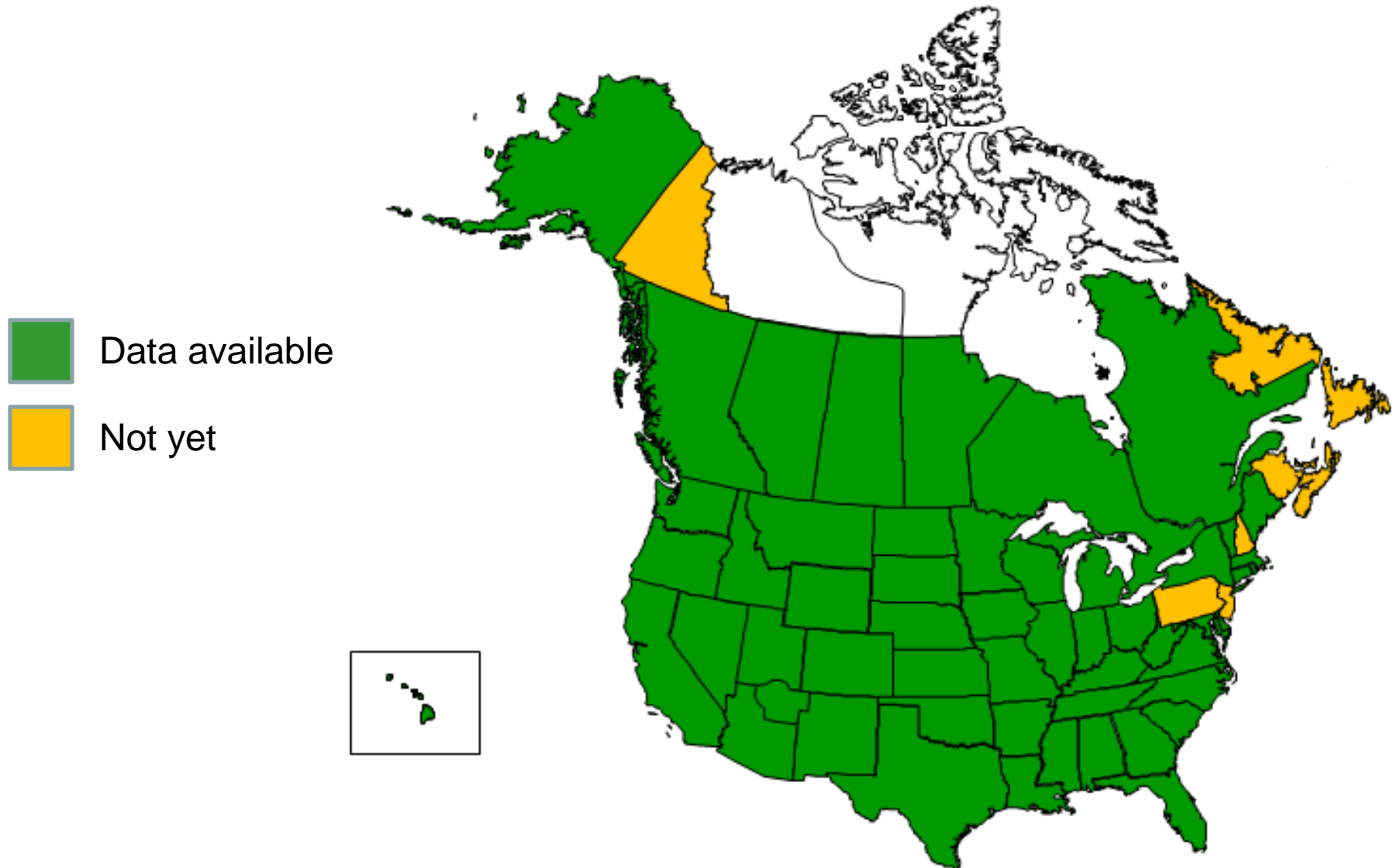
*(*partially)*



*Not Supported Yet

- An interface
- A way of limiting results to anything other than status under the U.S. Endangered Species Act ---- no selects allowed by Srank, SPROT, Grank, SARA for example
- No subnational protection status reported.

Member Program Participation: 55 of the 60 U.S./Canada Programs



Demo at:

<http://mjdwstest.natureserve.org/mjd/home.htm>

<speciesMajorTaxonomicGroupName>**Freshwater and Anadromous Fishes sp. 1**</speciesMajorTaxonomicGroupName>

■ <status name="USESA Status">

<statusDescription>**LE: Listed endangered**</statusDescription>

<dataFuzzed>**N**</dataFuzzed>

</dataFuzzing>

<dataSteward>**New York Natural Heritage Program Contact: Nick Conrad at nbconrad@gw.dec.state.ny.us**</dataSteward>

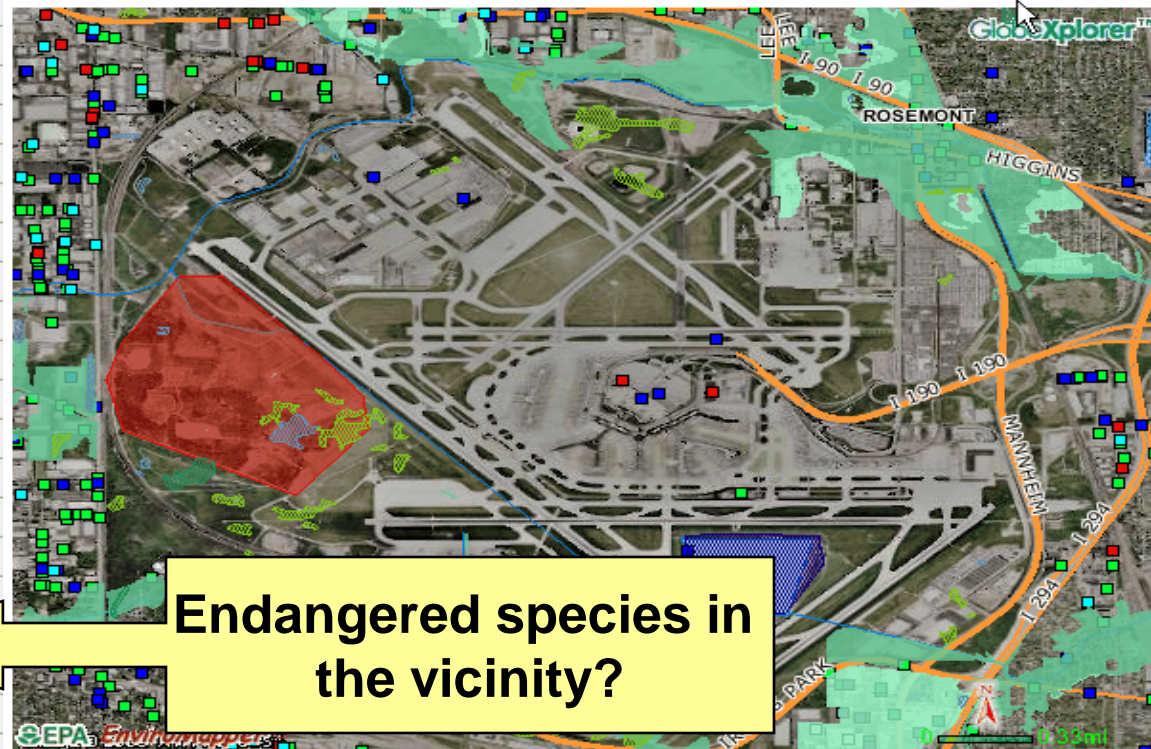
dataFuzzed>**Y**</dataFuzzed>

<dataFuzzedComment>**Sensitive Record(s) - The spatial footprint for the record(s) has been made less precise; the known location(s) for the record(s) may or may not actually be within your query area. Contact the Data Steward(s) for more information.**</dataFuzzedComment>

NEPAssist

A GIS tool that assists the review of Environmental Impact Statements and Environmental Assessments

Within 400 meters of a Wild and Scenic River?	No
Within an Area of Concern (Great Lakes)?	No
Within 400 meters of a Great Lakes shoreline?	No
Within Great Lakes basin?	No
Within 400 meters of an Environmentally Sensitive Shoreline?	No
Within an NWI Wetland?	Yes
Within 400 meters of a Pipeline?	No
Within 400 meters of an Oil Storage Facility?	
Within 400 meters of a Navigation Lock/Dam?	
Within 400 meters of a Non-navigational Dam?	
Within 400 meters of a Marina?	
Within a Wildlife Refuge?	
Within a National Forest?	
Within 400 meters of a National Forest?	
Within a State Forest?	
Within a Federally Managed Area?	
Within a State Managed Area?	
Within a Locally Managed Area?	
Within a Privately Managed Area?	
Within a Federal Special Designated Area?	
Within a State Special Designated Area?	
Within a Local Special Designated Area?	
Within a Private Special Designated Area?	
Within Other Environmentally Sensitive Areas?	
Within 400 meters of a Archaeological Site?	
Within 1609 meters (1 mile) of a Nuclear Power Plant?	
Within 1609 meters (1 mile) of an Electric Power Plant?	
Within 400 meters of an Animal Feedlot?	No
Within 400 meters of a Poultry or Hog Farm?	No
Within the boundaries of a Metropolitan Planning Organization?	Yes <i>Chicago Area Transportation Study</i>



Emergency Response

EnviroMapper for EOC - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://134.67.221.114/era/em4er.asp>

Emergency Response Analyzer

Jan 17, 2008 12:07

ER Events From: To: High-light Zoom To Show Time Scale Print

New Geography

- NW
- N
- NE
- W
- E
- SW
- S
- SE

Find ER Site List Site

Zoom In

Zoom Out

2X

Center

Identify

Select a feature

- Air emissions
- City Boundaries
- Congress'l Districts
- Countries
- Counties
- Daycare centers
- ER Sites
- FEMA Region HQ
- Federal lands
- Fire stations
- Hazardous waste
- Highways
- Hospitals
- Landfill
- Multi-activities
- NOAA ESI
- RCRA TSD
- RMP
- Railroads
- Schools
- Sections boundary
- Streams
- Streets
- Superfund
- Townships boundary
- Toxic releases
- Water bodies
- Water dischargers
- ZIP Codes

Endangered Species

There is no OSC site in the time period you specified.

Map Features Legend

- ER Sites
- Cities
- Streets
- Major roads
- Local streets
- Townships boundary
- BLM
- Alternate
- N/A
- Sections boundary
- BLM
- Alternate
- Counties
- Countries

Refresh Map

Beyond EPA...

NatureServe's goal is to:

"make biodiversity a mainstream consideration in all significant conservation and natural resource management decisions by making it simple for conservationists, government agencies, corporations, and landowners to access and use high-quality biodiversity information."

--NatureServe's Strategic Plan 2007-2011.

"It is a big hassle to get endangered species information from multiple states."

-KCI

"We would be willing to pay for more timely access to data."

- CH2M Hill

Beyond EPA...

If the web service were offered to ALL clients (consulting firms, etc.), would you:

- a) Fuzz a little more data a little more?
- b) Fuzz a lot more data a lot more?
- c) Prohibit “Small” queries (less than 10 sq. km)?
- d) At what point does enlarged data undermine the usefulness of the product?

Business Model

Who takes the risks?

But what if
I fail?

We all get
to laugh
at you.



@hugh

Business Model

Who gets the benefits? (...assuming there are benefits)



Current Practice – MJD Products

- NS recovers and passes on your fees (what you would have collected if client went directly to you with the data request)
- NS also recovers support for its costs to aggregate data (data exchange)... and for many other costs.

Option 1–Continue Business As Usual

- you get a guaranteed amount

NatureServe pays every program upfront, a flat rate, ***or...***

...an amount based on how many EOs the program has (or acreage or other quantity measure).



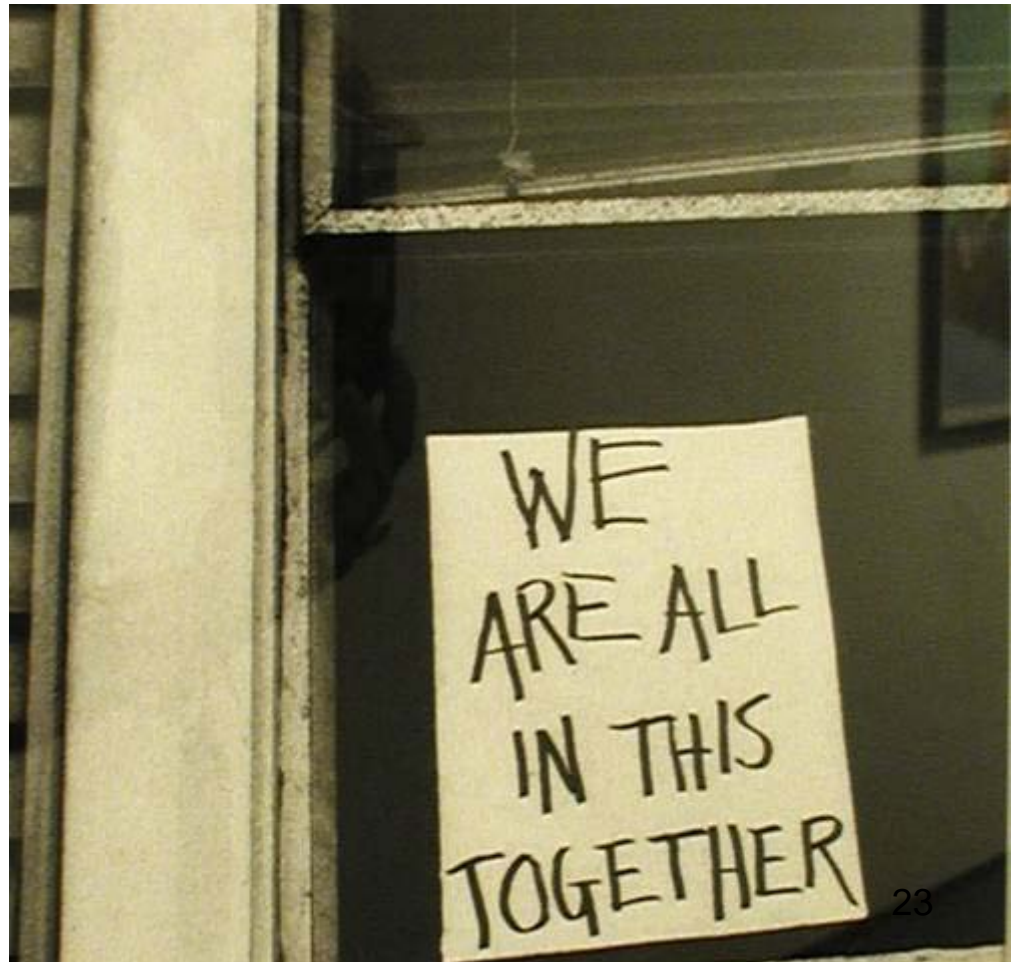
Option 2 – You get a guaranteed rate based on use

No funds upfront; NatureServe reimburses you based on “hits” to your data.

or... hybrid of Options 1 and 2: you get a “base rate” for participating & additional funds based on “hits.”

Option 3 – Joint Ownership – *no guarantees!*

- A shared Network product: we all assume risks and reap benefits based on its **success** / failure



Option 3 Joint Ownership – Surplus Scenario

- Divvied up equally
- Or based on quantity (acreage, number of EOs.)?
- Or ***targeted*** investments back into the Network / data?