

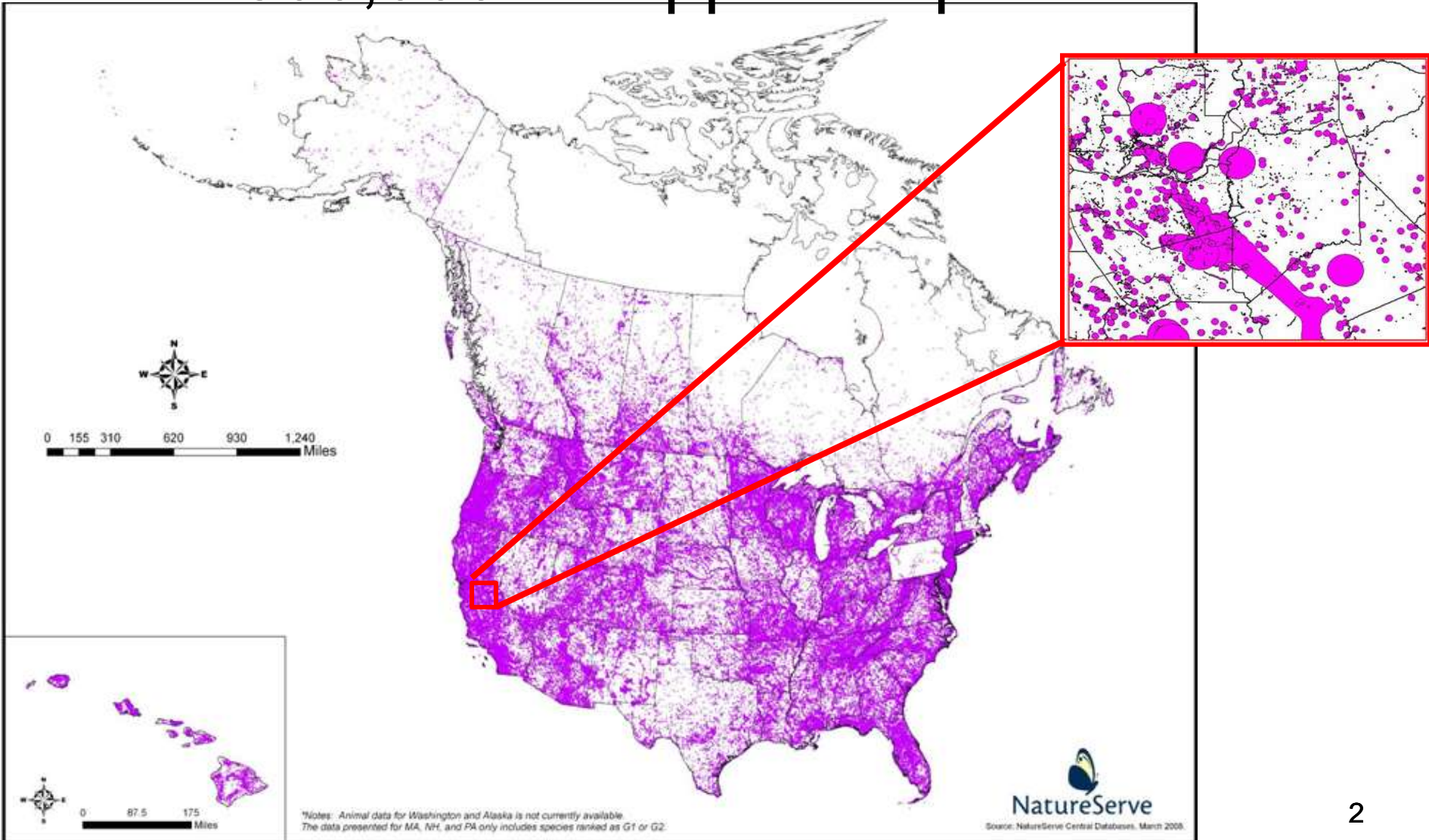
Multi-Jurisdictional Data (MJD) Screening Tool: Overview and Next Steps:

**Southeast Regional Natural Heritage Conference
April 2010**

Kat Maybury, NatureServe

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

Kat Maybury (NS), Leslie Honey (NS), and...

John Gamon (WA)



Rayo McCollough (NM)



Sabra Schwartz (AZ)



Nick Conrad (NY)



Pete Sorrill (ON)

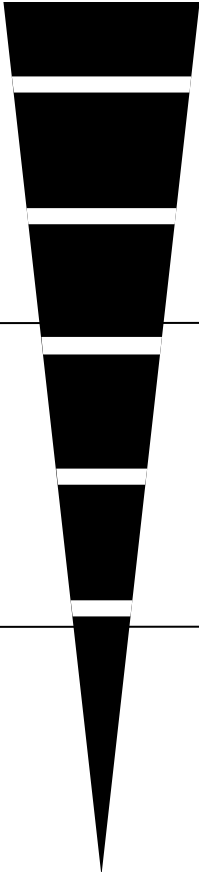
Decisions: Query Options

- 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
- **HOWEVER**, programs can “fuzz” sensitive taxa at their discretion

Where We Are Now



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

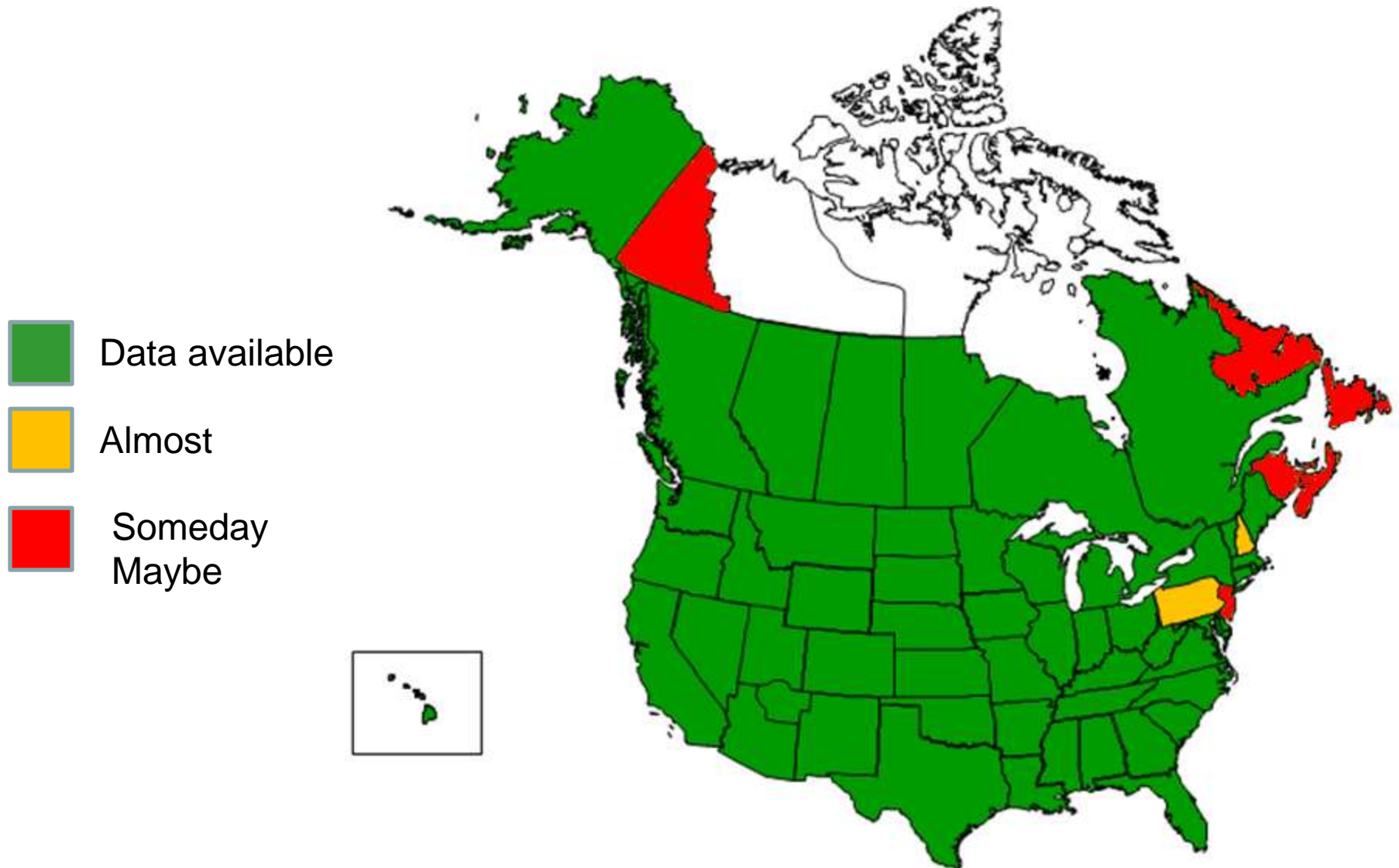
*(*partially)*



*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: 57 of the 60 U.S./Canada Programs



Current Uses: NEPAssist

U.S. ENVIRONMENTAL PROTECTION AGENCY

NEPAssist

Share

Contact Us Search: All EPA This Area

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A web-based application that:

- Draws environmental data dynamically
- **Raises important environmental issues at the earliest stages of project development**

Area of digitized polygon	73.53 sq mi
<input type="checkbox"/> Places	
Within 1000 meters of a hospital?	58
Within 1000 meters of a school?	58
Within 1000 meters of a church?	58
Within 500 meters of a Congressional District?	100
Is study area within endangered species area at the County level?	100

Contact Us Search: All EPA This Area

You are here: [EPA Home](#) » [NEPAssist Home](#)

Results for 0 meters from study area

Study area type: polygon

Total area of study area plus buffer: 185.26 sq km / 71.53 sq mi

Modify question by entering a new buffer distance and unit for the selected study area:

Common Name	Name	Taxonomy		Conservation Status	
	Scientific Name	Species Group (Broad)	Species Group (Fine)	NatureServe Global Status	U.S. Endangered Species Act Status
Florida Panther Display full report	<i>Puma concolor coryi</i>	Animals, Vertebrates	Carnivores	T1 - Critically Imperiled	LE: Listed endangered
Eastern Indigo Snake Display full report	<i>Drymarchon couperi</i>	Animals, Vertebrates	Snakes	G3 - Vulnerable	LT: Listed threatened
Cape Sable Sparrow Display full report	<i>Ammodramus maritimus mirabilis</i>	Animals, Vertebrates	Perching Birds	T1 - Critically Imperiled	LE: Listed endangered
Mangrove Gambusia Display full report	<i>Gambusia rhizophorae</i>	Animals, Vertebrates	Bony Fishes	G3 - Vulnerable	
Bartram's Hairstreak Display full report	<i>Strymon acis bartrami</i>	Animals, Invertebrates	Butterflies and Moths	T1 - Critically Imperiled	C: Candidate
Everglades Key Pencil-flower Display full report	<i>Stylosanthes calcicola</i>	Plants, Vascular	Pea Family	G3 - Vulnerable	
Small Prescottia Display full report	<i>Prescotia oligantha</i>	Plants, Vascular	Orchid Family	G4 - Apparently Secure	
Holly-leaf Fern Display full report	<i>Lomariopsis kunzeana</i>	Plants, Vascular		G3 - Vulnerable	
Bahama Sachsia Display full report	<i>Sachsia polycephala</i>	Plants, Vascular	Aster Family	G2 - Imperiled	
Myrtle-of-the-river Display full report	<i>Calyptanthes zuzygium</i>	Plants, Vascular	Myrtle Family	G4 - Apparently Secure	
Florida Gamanrass	<i>Trinsacum floridanum</i>	Plants, Vascular	Grass Family	G2 - Imperiled	

Current Uses: 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

Find ER Site List Site

Zoom In Zoom Out 2X Recenter Identify

Select a feature

- Air emissions
- City boundaries
- Congress'l Districts
- Countries
- 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

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

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

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) Keep everything as-is
- b) Fuzz a little more data a little more?
- c) Fuzz a lot more data a lot more?
- d) *Opt out??*

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).



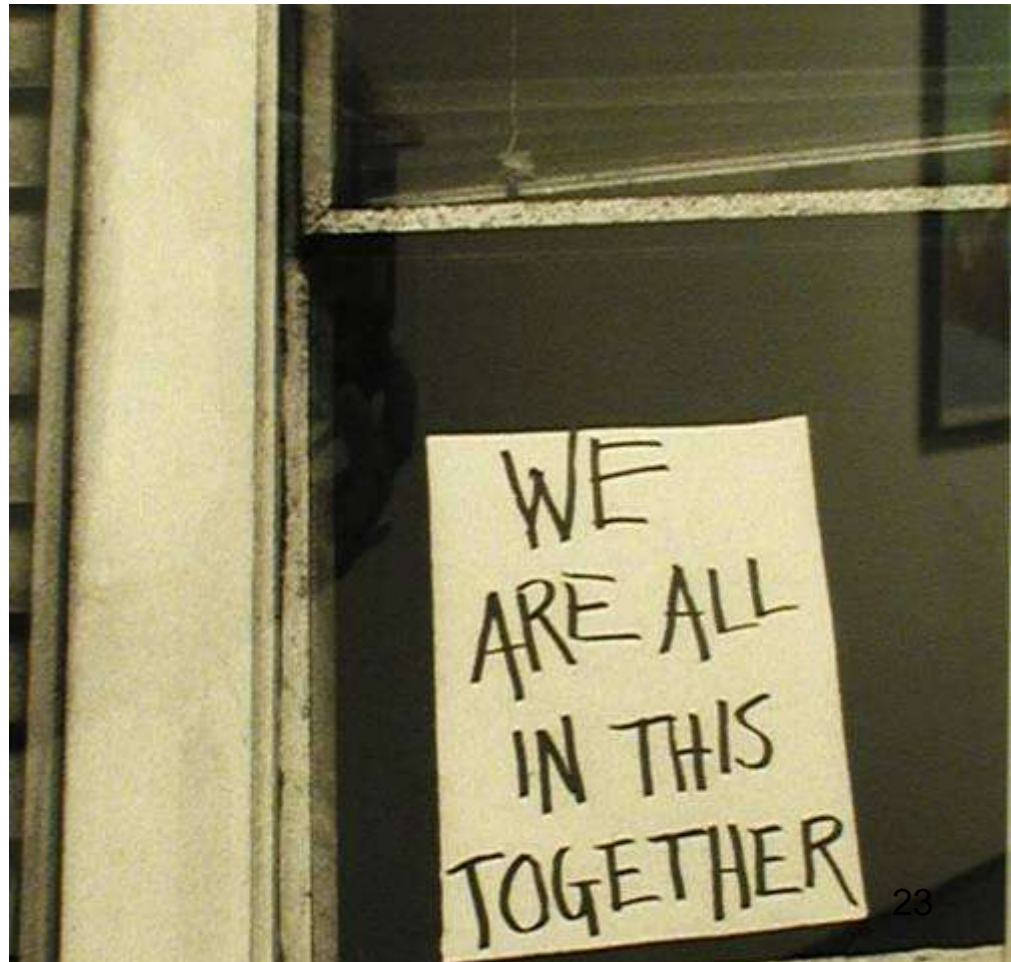
Option 2 – You get a guaranteed rate based on use

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

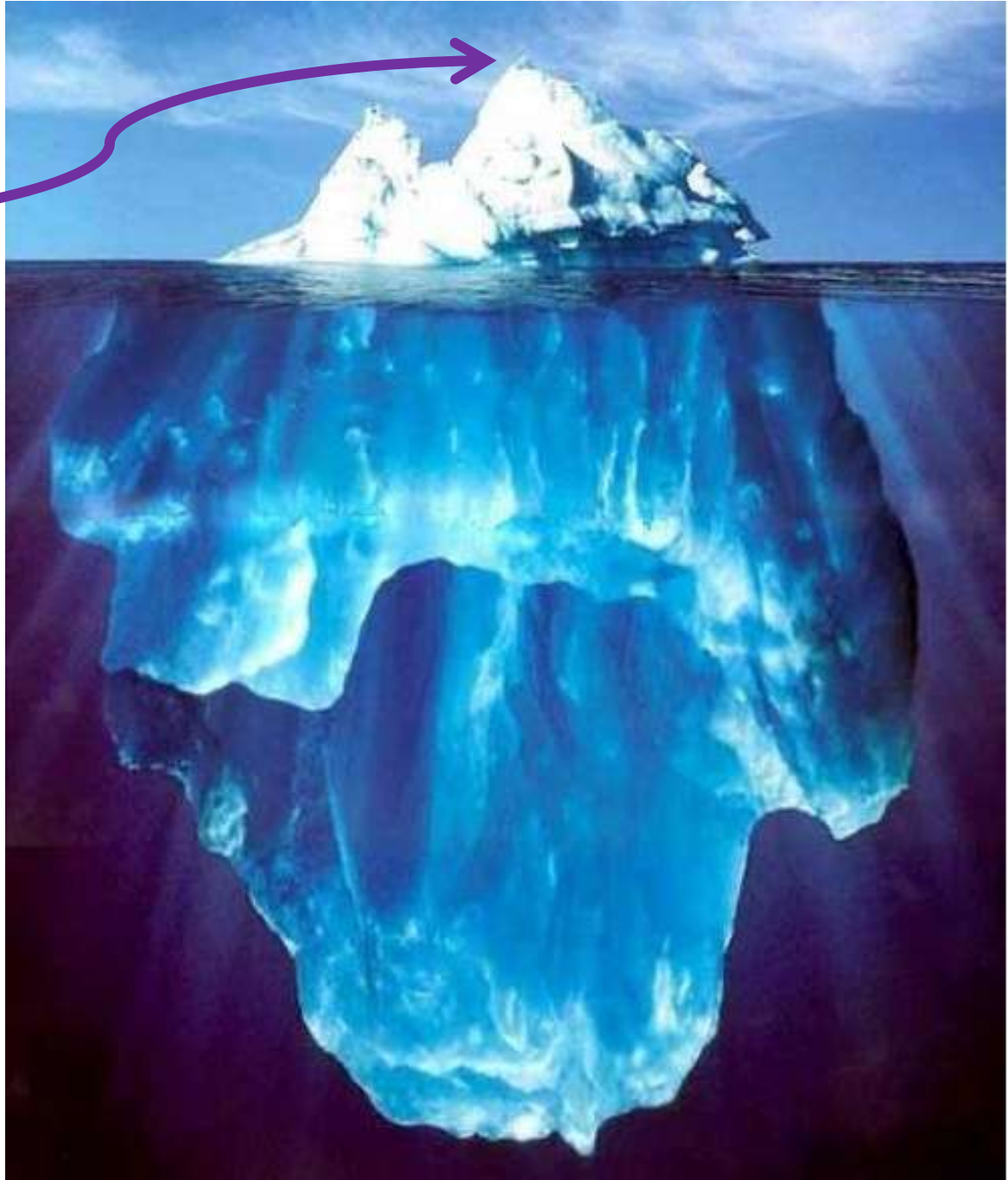
or... hybrid of Options 1 and 2: you get a “base rate” for participating & additional funds based on “hits.”

Option 3 – Joint Ownership – *no guarantees!*

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



**Screening
Tool**



**Screening
Tool**

NatureServe
Hardware, Refresh Data, IT Tweaking

NatureServe
**Data Exchange, Global Rank
Review, Biotics, EO Updates,
QC, ETC....**

Member Program
**Data Exchange, S/Grank Review, Databases, EO
Updates, Processing Backlogs, Field Surveys, QC,
ETC...**

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?