

How Do We Get The Business Rules, Developed By The Separate Disciplines, To Reinforce An Interdisciplinary Approach to Science?

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Problem Solving Method

Step 1: Identify & define the problem

Step 2: Gather information

Step 3: Formulate solutions

Step 4: Analyze and compare possible solutions

Step 5: Select the best solution

Step 6: Implement the best solution

What is Interdisciplinary Science?

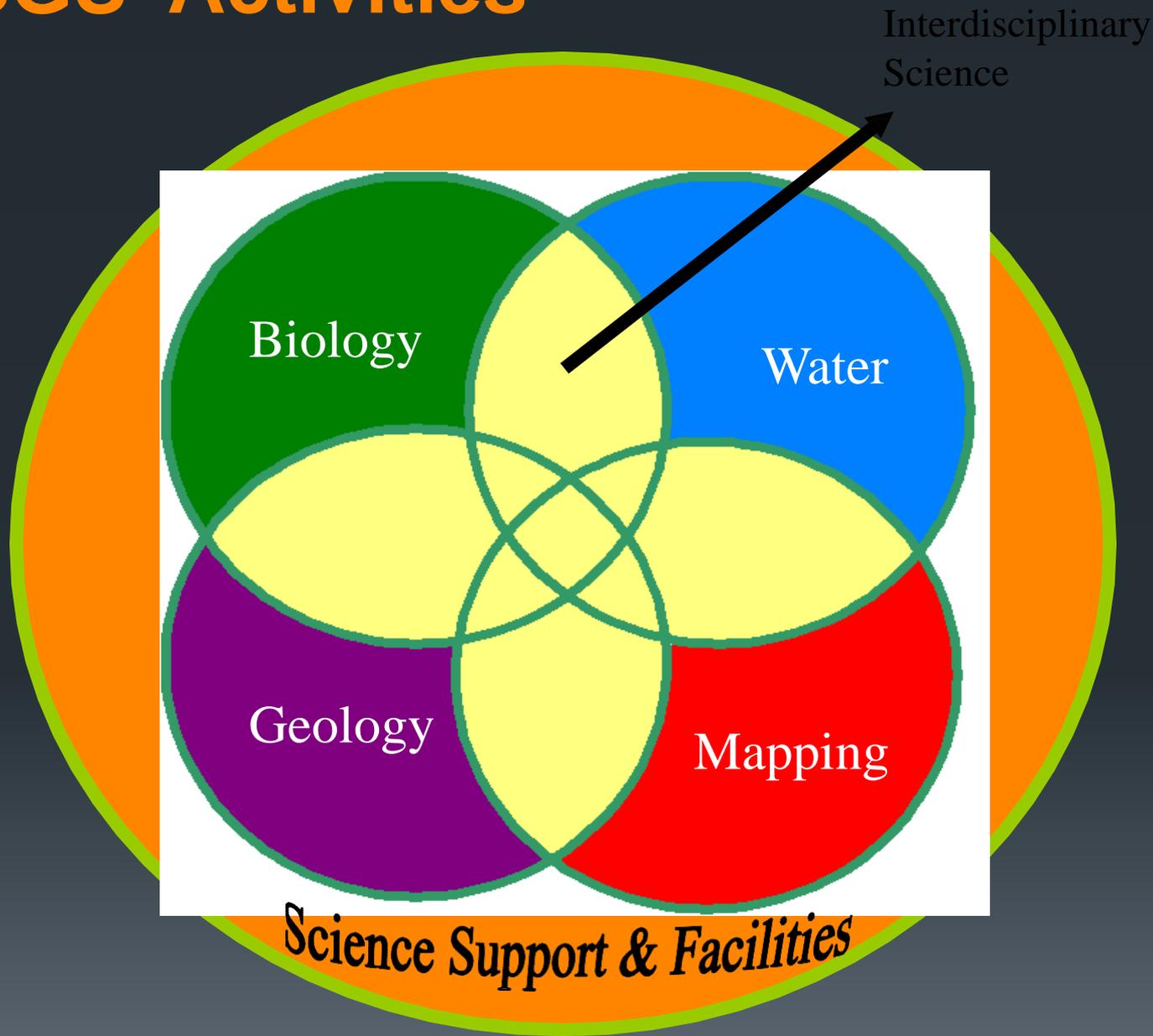
The ability to conduct USGS Science within the bureau without the limitations of discipline, region or cost center.

Place-based Venture
Capital Regional
Partnership

USGS Budget Structure

Activity	Sub-activity	Program
Mapping	Coop Topo Mapping	Same as sub-activity
	Land Remote Sensing	Same as sub-activity
	Geog Analysis & Mapping	Same as sub-activity
Geology	Geologic Hazards	(5)
	Geo. Landscape & Coastal Assess	Earth Surface Dynamics
	“	Nat. Coop Geo. Mapping
	“	Coastal & Marine
	Geo. Resource Assess	(2)
Water	Hydro. Monit. Assess. & Research	(6)
	Coop Water Program	Same as sub-activity
Biology	Bio. Research & Monitoring	(6)
	Bio. Information Mang & Delivery	Same as sub-activity
	Coop Research Units	Same as sub-activity
Science Support		
Facilities		

USGS Activities



List of Business Rules that are possible impediments

- Budget Process
- Direct/Indirect Cost
- Equipment
- Facilities
- FTE
- Funding
- Procurement

A Look at Interdisciplinary Science

Location

Activity

	Same	Different
Same	Same Location Same Activity	Different Locations Same Activity
Different	Same Location Different Activities	Different Locations Different Activities

Different Location/Different Activity

- + can bring skill mix needed to do project
- + no employee relocation
- + leverage resources from difference programs to accomplish more
- + programs identified are funding money may
- facilities cost differ
- how assessments are calculated
- tracking funding by program
- who gets the accomplishments
- indirect costs may differ

Same Location/Different Activity

- + may be able to expand skill mix
- + leverage resources from different activities/programs
- + facilities may be the same

- relocation of employees
- who gets accomplishment (primary program)
- tracking by program
- ? direct/indirect costs
- ? assessments

Different Location/Same Activity

- + no relocation of employees
- + easy to track funding by program
- + know which program gets the accomplishment
- may have limited skill mix or want to “hire” your own
- may not have enough funding to do what you want
- indirect costs calculation may differ
- facilities cost may differ
- ? direct/indirect costs
- ? assessments

Same Location/Same Activity

- + know which activity/program gets accomplishments
- + facilities costs same
- + track expenditures by activity/program

- limited skill mix
- move (relocation)
- can't leverage
- ? direct/indirect costs
- ? assessments

Future Actions

In FY03/04

➤ Identify key individuals to participate (e.g. manager, AO, ORS representative, IT, scientists, program coordinator, RD staff, APS, Budget Office)

Future Actions

In FY03/04

➤ Locate and examine places where interdisciplinary science is working

Were there impediments?

If so, what were they and how did the scientists/managers deal with them

➤ Locate and examine places where interdisciplinary science is NOT working

Why?

What were the impediments?

Future Actions

In FY04

- Determine changes needed for consistent business rules
- Enhance existing processes (don't reinvent wheels, make them more round and so they roll together).

Future Actions

FY03 and beyond

- Continue positive development of bureau-wide consistency and processes