

Expanding the AG Community in a Closed Universe

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Introduction

- How can we continue to grow the AG in the EPSCoR Community and beyond?
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Share the Vision . . .

- Don Morton, U Montana, Missoula
- Nicholas Jovanovich, U Arkansas, Little Rock
- Roger Edberg, U Alaska, ARSC, Fairbanks
- Success stories of visionary individuals who helped others understand the need and received funding outside NSF

High quality group-to-group Communication

- Large format multimedia displays
- Presentation and interaction environments
- Interfaces to grid middleware
- Interfaces to visualization environments
- Supports large-scale distributed meetings, collaborative work sessions, seminars, lecture, tutorials and training.
- Other creative uses.

Goal: AG node for each EPSCoR State - 22

- Grant for 6 – U Kansas (2); U Kentucky (2); Montana State; N Dakota State; U So Carolina, West Virginia U
- Another 5 - Alaska ARSC; Hawaii (2) MHPCC and Manoa; Arkansas, UALR; Maine, UM; Montana, UM-Missoula; U New Mexico;
- 11 to Goal - AL, ID, LA, MS, NE, NV, OK, SD, VT, WY, PR.
- Limitations—setup expertise, operators, security

Don Morton

- Saw the need and decided that he was going to have an AG at his campus. He did what it took to acquire one.

Nicholas Jovanovic

- Has the opportunity to create an ideal environment for their new department. He “sold” the AG and now it too will be included at Arkansas.

Roger Edberg

- The ARSC sits at the top of the world and their location and inability to interact easily with colleagues in the lower 48 requires them to use technology to bring them closer.

Why stop now?

- The Alliance Access Grid project is aimed at prototyping a number of Access Grid nodes and using this prototype to conduct remote meetings, site visits, training sessions and educational events.
- Our goal is that each EPSCoR state will be allowed to participate in science and technology via the AG thereby bridging the digital divide.

How Do We Catalyze or Enable Adoption by Other Communities?

- What limitations exist in the current technology that we need to overcome?
- What aspects might be augmented?
- Features added?
- Speak up during this retreat, share your opinions, ideas and apps.

Reality . . . are you a player?

What is your situation?

- If limitations are resolved, will you be able to participate?
- Are there visionaries at your institution . . . can we assist you in seeking funding to acquire an AGN?
- Broker a relationship?

What This Means

- Regardless of the type of technology used, remote areas of the U.S. must be included, not left behind.
- Open source, group-to-group interaction seems to fit the academic model well.
- Serious cooperation is required to overcome the obstacles.

Next Steps

- Please get involved—share your apps, inspire others
- If you are from an EPSCoR state and need assistance in talking with your administration about acquiring an Access Grid, we will be happy to help you.
- If not are NOT from an EPSCoR state but are interested in collaboration, we welcome you too—identify yourself.
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The University of Montana AGN

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Background

- Arctic Region Supercomputing Center Collaborations
- Northern Rockies Center for Applied Computational Science
- Attendance at NSF EPSCoR Wireless Workshop and Kansas Chautauqua
- Promotion at U. Montana

Status

- Parts are in
- Can interact with self
- Equipment problems
- Waiting on network

Plans

- Distributed training in HPC
- Access to remote seminars
- Collaboration with remote partners
- Enabling students to participate in distributed R&D activities
- Promotion of AG in other disciplines
- Federal appropriations