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The Role Of NREN In Research Collaboration

How NRENs Can Help Connect Researchers in Disparate Locations



Collaboration Is Critical For Research

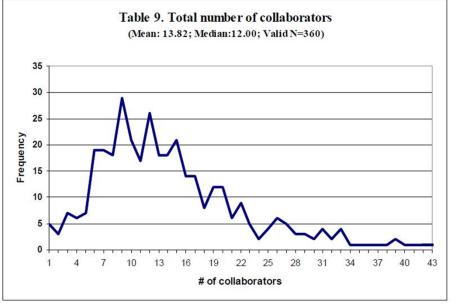
13.8 Average No of Collaborators

93% of the time working with others

20% of the time with people outside institute

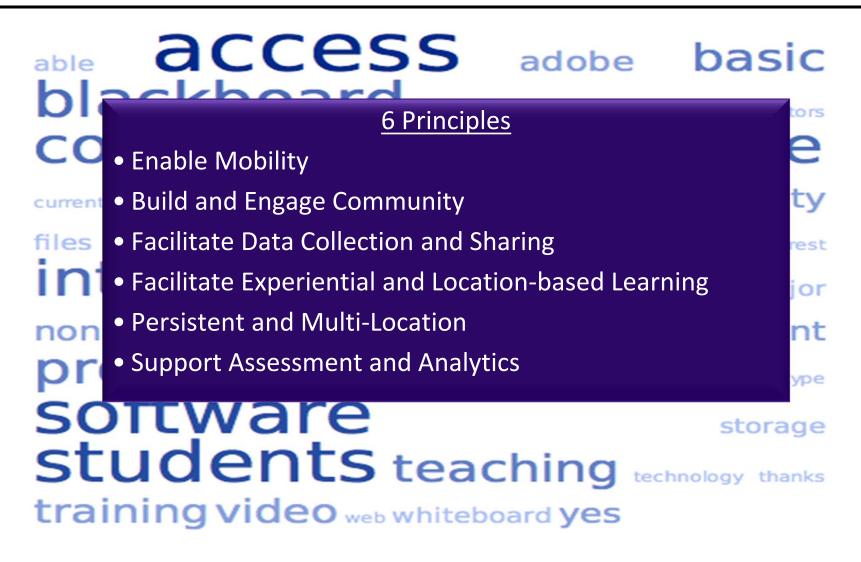
6% of time working internationally

Work Setting	N	Mean percentage of Research time	Std. Deviation
Research time working alone	420	16.38%	20.336
Research time working with researchers and graduate students in my immediate work group	434	51.07%	24.006
Research time working with researchers in my university, but outside my immediate work group	407	12.21%	12.632
Research time working with researchers who reside in nations other than the U.S.	391	5.71%	8.074
Research time working with researchers in U.S. universities other than my own	403	9.11%	10.901
Research time working with researchers in U.S. industry	393	5.96%	8.455
Research time working with researchers in U.S. government laboratories	380	3.35%	6.715



The Impact of Research Collaboration on Scientific Productivity, Bozeman & Lee, 2003

What Is Important?



Global Network University (GNU) – The Vision The Role of The NREN is ...

... to enable <u>seamless mobility</u> of faculty, students, researchers, and teaching and learning between branch campuses and across international study sites

Source: NYU Vision Document, February 2009

To achieve this vision, the NREN has the following technology-focused objectives:

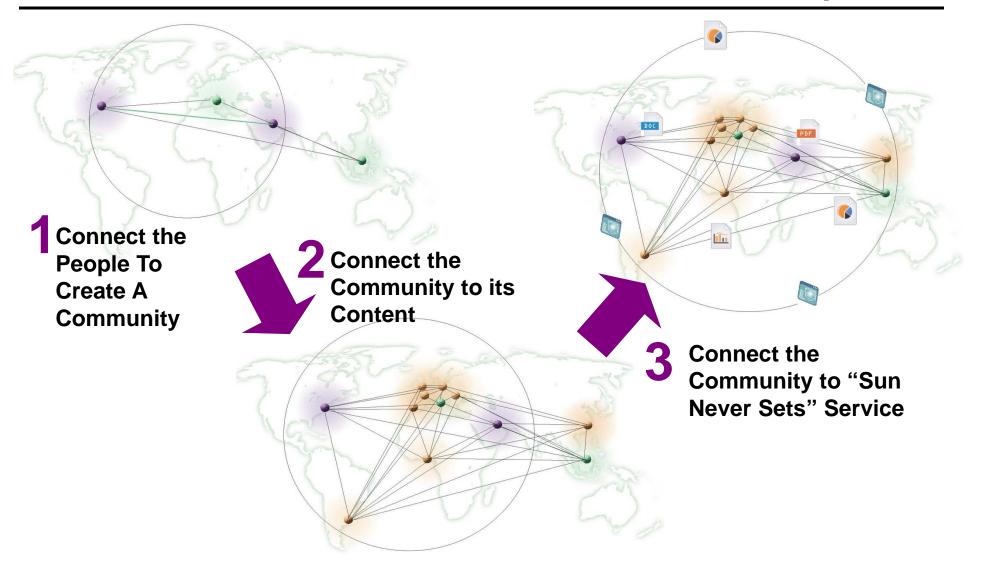
a **world-class, fully-meshed** network

access to new communications technologies

globalize shared services & applications

Create The Collaboration Environment In Three Steps

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Where Are They? What Do They Connect?

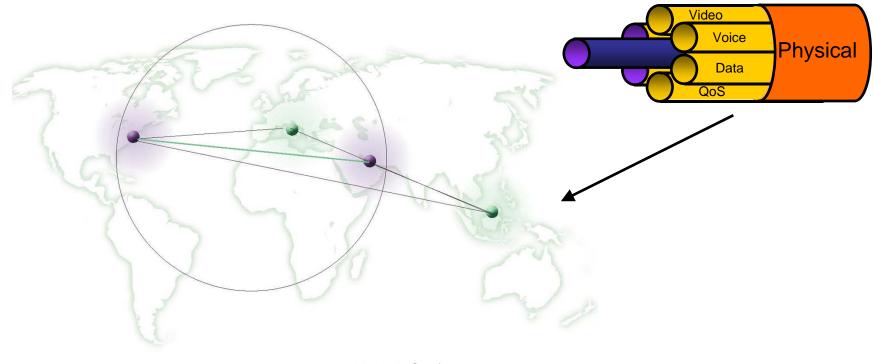


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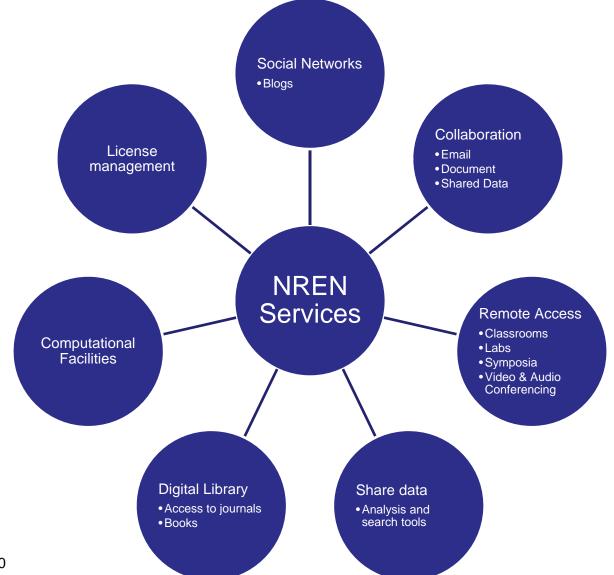
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Step 1: Connect The Researchers

- Build meshed network to connect all your researchers across the world
- Videoconferencing, shared applications and a new network link two additional global sites to deliver global curriculum capability



What Services Do They Need?

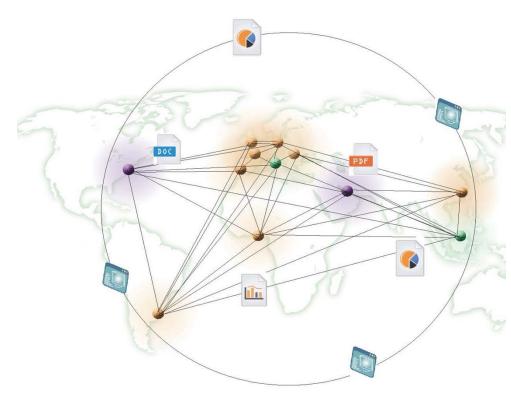


ITLP - June 29th, 2010

The Challenges

Researcher Needs	Extensible Service ModelComputational Grid
Data Overload	Recommender EngineAnalytics
Global Access	Role and Institution BasedLocation Aware
Legal Issues	 Copyright & License Mgt Compliance

<u>Step 3– Provide A "Sun Never Sets" Service</u>



Service Without Boundaries

- 5 Continents
- 12 Time Zones

•Requires Pragmatic, operational, easy to use, flexible services

•Leverage a "follow the sun," offering support, training and assistance as needed by the global community.

The NREN is More Than A Network. The NREN

- is a technology-enabled global community that will deliver access to the intellectual and educational resources of a major research enterprise,
- is an international community of researchers, faculty and students,
- is a state-of- the-art library system with comprehensive research databases
- provides channels for academic exchange across the globe
- allows joint classroom experiences across institutions

... is a Collection of Collaboration Services

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