

Challenges and Success for US Overseas Campuses

Internet2 Spring Member Meeting
Track Session
Tuesday April 28, 2009
1:15 – 2:30 p.m.



Session Overview

- Focus: US institutions' growing number of programs and campuses located outside the US: issues, challenges, possibilities for leveraging Internet2 and its counterparts in other countries
- Louis Fox, Duke University
 - Duke's International Programs
- Marilyn McMillan, New York University
 - NYU Global Programs

R&E network connectivity for US campuses abroad

- Several US institutions' programs/offices/campuses have successfully connected to NRENs in those countries
 - Examples:
 - NYU, Stanford University connected to GARR in Florence, Italy
 - Georgia Tech Lorraine connected to RENATER in France
 - Texas A&M University in Mexico City connected to CUDI

Reachable Networks

AMERICAS

Argentina (INNOVARED)
Brazil (RNP2/ANSP)
Canada (CANARIE)
Chile (REUNA)
Colombia (RENATA)
Costa Rica (CR2Net)
Ecuador (CEDIA)
El Salvador (RAICES)
Guatemala (RAGIE)
Mexico (Red-CUDI)
Panama (RedCyT)
Peru (RAAP)
Uruguay (RAU2)
Venezuela (REACCIUN2)

MULT-NATL NETS

Asia (APAN)
Med/N Africa
(EUMEDCONNECT)
Europe (GEANT)
Nordic (NORDUNet)
Latin America
(redCLARA)
SE Asia (TEIN)
S&E Africa (UbuntuNet)
T&T, Jamaica (U. West
Indies Network)

EAST ASIA and PACIFIC

Australia (AARNET)
China (CERNET, CSTNet,
NSFCNET)
Fiji (USP-SUVA)
Hong Kong (HARNET)
Indonesia (ITB)
Japan (SINET, WIDE, JGN2)
Korea (KOREN, KREONET2)
Malaysia (MYREN)
New Zealand (Karen)
Philippines (PREGINET)
Singapore (SingAREN)
Taiwan (TANet2, ASNet)
Thailand (UNINET, ThaiSARN)
Vietnam (VinaREN)

CENTRAL ASIA

Armenia (ARENA)
Georgia (GRENA)
Kazakhstan (KAZRENA)
Tajikistan (TARENA)
Uzbekistan (UZSCI)

SOUTH ASIA

India (ERNET)
Pakistan (PERN)

EUROPE and MIDDLE EAST

Albania (ASA/INIMA) Netherlands (SURFnet)
Andorra (Univ. of Andorra) Norway (UNINETT)
Austria (ACOnet) Palestinian Territories
(Govt Computing Ctr)
Belgium (BELNET) Poland (PIONIER)
Bosnia-Herzegovina Portugal (RCTS2)
(BIHARNET) Qatar (Qatar FN)
Bulgaria (ISTF) Romania (RoEduNet)
Croatia (CARNet) Russia (RBnet, RUNNET)
Cyprus (CYNET) Serbia-Montenegro
(AMREJ, UoM/MREN)
Czech Republic Slovakia (SANET)
(CESNET) Slovenia (ARNES)
Denmark Spain (redIRIS)
(Forskningsnettet) Sweden (SUNET)
Estonia (EENet) Switzerland (SWITCH)
Finland (Funet) Syria (HIAST)
France (Renater) Ukraine (URAN)
Germany (G-WIN) UAE (ANKABUT)
Greece (GRNET) United Kingdom (JANET)
Hungary (HUNGARNET) Turkey (ULAKBYM)

AFRICA

Algeria (CERIST)
Egypt (EUN/ENSTINET)
Kenya (KENET)
Morocco (CNRST)
South Africa (TENET)
Tunisia (RFR)

R&E network connectivity for US campuses abroad

- Case of US institutions helping to instigate NREN capabilities
 - Example: Qatar
 - Texas A&M, Cornell, Carnegie Mellon, VCU, Georgetown – worked with Qatar Foundation to get connectivity for all institutions to global R&E network infrastructure

R&E network connectivity for US campuses abroad

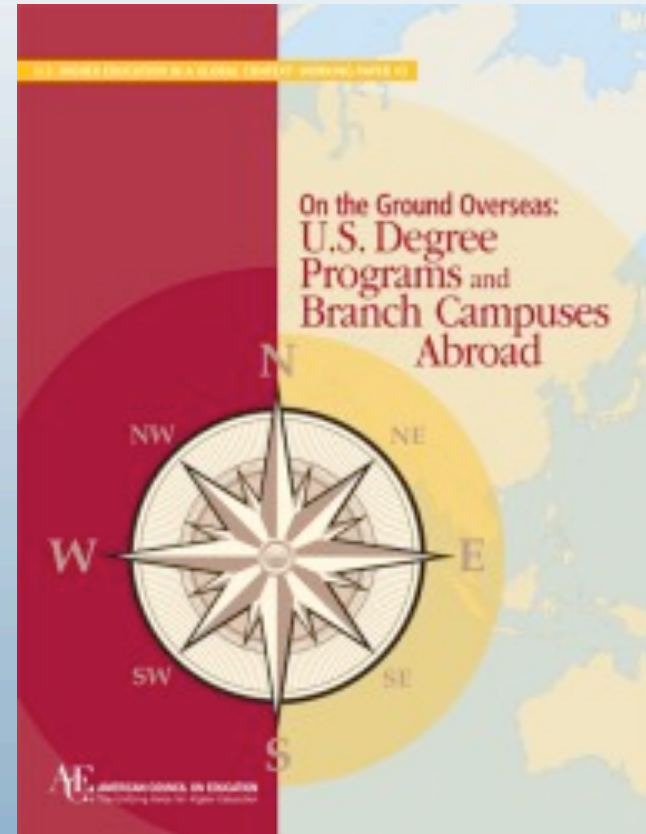
- Countries with emerging NRENs
 - Example: United Arab Emirates
 - UAE universities under leadership of Khalifa University of Science and Technology began effort to interconnect/build NREN 2+ years ago
 - Not yet connecting universities beyond government-funded universities

Beyond just R&E network connectivity

- Commercial Internet connectivity
- Data backup/storage/disaster recovery solutions
- Other telecommunications capabilities
- IT-related policy considerations
 - Data policies
 - Compliance with local regulations
- IT support needs

ACE Internationalization Program

- Reference Publication: “On the Ground Overseas: US Degree Programs and Branch Campuses Abroad”
- <http://www.acenet.edu>



Opportunities

- Interest in collaboration among US universities
- Can Internet2 help?
 - Developing pilot project with interested members
 - Focus on aggregating needs, providing on-the-ground support for US campuses abroad
 - Initial pilot focus: China
- Continuing to facilitate in China and other countries dialogue between US institutions and local NRENs
 - NYU hosted meeting in Abu Dhabi April 7

Watch this space

- Have a campus/branch abroad?
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 - <http://www.internet2.edu/international>
- Questions/ideas:
 - Heather Boyles <heather@internet2.edu>