

Marketing, Communication, Demonstrating Impact/Value

Sandra Gesing

sandra.gesing@nd.edu

Virtual Residency

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ND CRC in 2006-2008

- Effort with 7 FTEs centrally funded
- HTC and HPC Computing and basic user support
 - One centrally funded cluster plus multiple faculty funded clusters in various cabinets on campus
 - Around 300 active users
 - 80% centrally funded hardware
- No other kinds of research computing services
- Underserved social sciences and humanities for their need on science gateways
- ~1000 faculty, ~12000 students

Implementation by CRC Director

Take the risk and hire people first

➔ train people

➔ generate / bring projects

➔ assign people to projects and focus on getting more projects and more people -> etc...

➔ if not successful then exit, i.e. quit 😊

Fortunately, we had many projects, mostly science gateway projects of various kinds and difficulty.

Marketing and Communcation

- Direct outreach to departments
- Yearly user event
- User awards
- Training

Extension of services

- Software development and profiling
- Cyberinfrastructure/
science gateway development
- Computational Scientist support
- Collaborative research/grant development
- System administration/prototype architectures
- National resources (e.g., XSEDE, OSG)



"We like to bring together people from radically different fields and wait for the friction to produce heat, light and magic. Sometimes it takes a while."

Impact/Metrics – ND CRC in 2020

- 50 FTEs with 70% of the staff salaries supported through grants and services
- HTC and HPC Computing and user support
 - 30,000 cores
 - 2,200 active users
 - 12 HPC engineers and user support staff
 - 25% of compute nodes are centrally funded
- Cyberinfrastructure development
 - ~15-20 CI projects each year with ~35 faculty from various departments including social sciences and humanities
 - supported by ~25 research programmers, ~8 computational scientists, some FTE fractions of HPC engineers, and a few (7) grad students and undergraduate interns (4-6)
- ~1000 faculty, ~12000 students



CRC HPC Center (old Union Station)

<http://crc.nd.edu>

Thanks

Thanks!

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