

## The Network for Computational Nanotechnology

### NEED

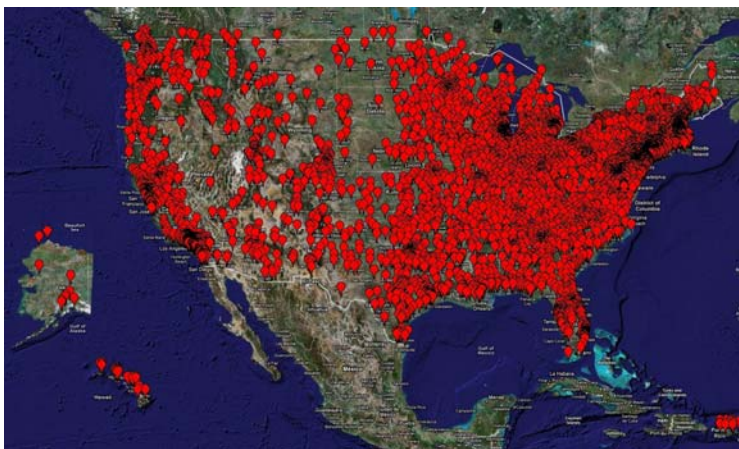
Nanotechnology as a tool for innovations is being researched world-wide. To drive more rapid innovation, scientists need to share information, modeling, simulations, and results during research projects so that research can be adapted and responsive to breakthroughs as they occur.

### INITIATIVE

The Network for Computational Nanotechnology (NCN) mission is to support the National Nanotechnology Initiative (NNI) by designing, constructing, deploying, and operating [www.nanoHUB.org](http://www.nanoHUB.org), a national cyber-resource for nanotechnology theory, simulation, and education. The vision is to accelerate the transformation of nanoscience to nanotechnology and to build the nation's nanotechnology workforce. NCN was launched in 2002 with \$10.5 million from the National Science Foundation and over \$4 million in support from Purdue University. In 2007, NSF awarded NCN \$18 million for a further five years of development and operation.

### IMPACTS

- NCN has deployed to date over 90 simulation tools and 1000 educational items authored by over 600 members of the nanotechnology community.
- From their web browser, researchers and students learn from nanoHUB educational materials, run state-of-the-art simulation tools, and view and interact with graphical results. In the 12 months ending June 30, 2009, more than 90,000 used nanoHUB. Over 400 research publications cite nanoHUB tools and/or resources.
- To date, nanoHUB resources have been used in 294 college courses taught at 92 institutions. There are nanoHUB users at 17% of all U.S. .edu institutions. [www.nanoHUB.org](http://www.nanoHUB.org) is a powerful means for educating the U.S. nanotechnology workforce.



[www.nanoHUB.org](http://www.nanoHUB.org) user locations.

NCN Funding Award  
Total to Date

NSF: \$35,980,000