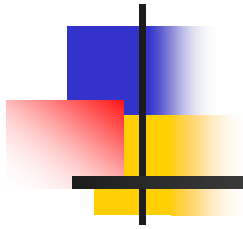


Brief Overview of the NASA/NOVA Faculty Professional Development Program: 1995-2006



Michael Odell
Ingenuity Center
University of Texas at Tyler
Tyler TX

NASA/NOVA



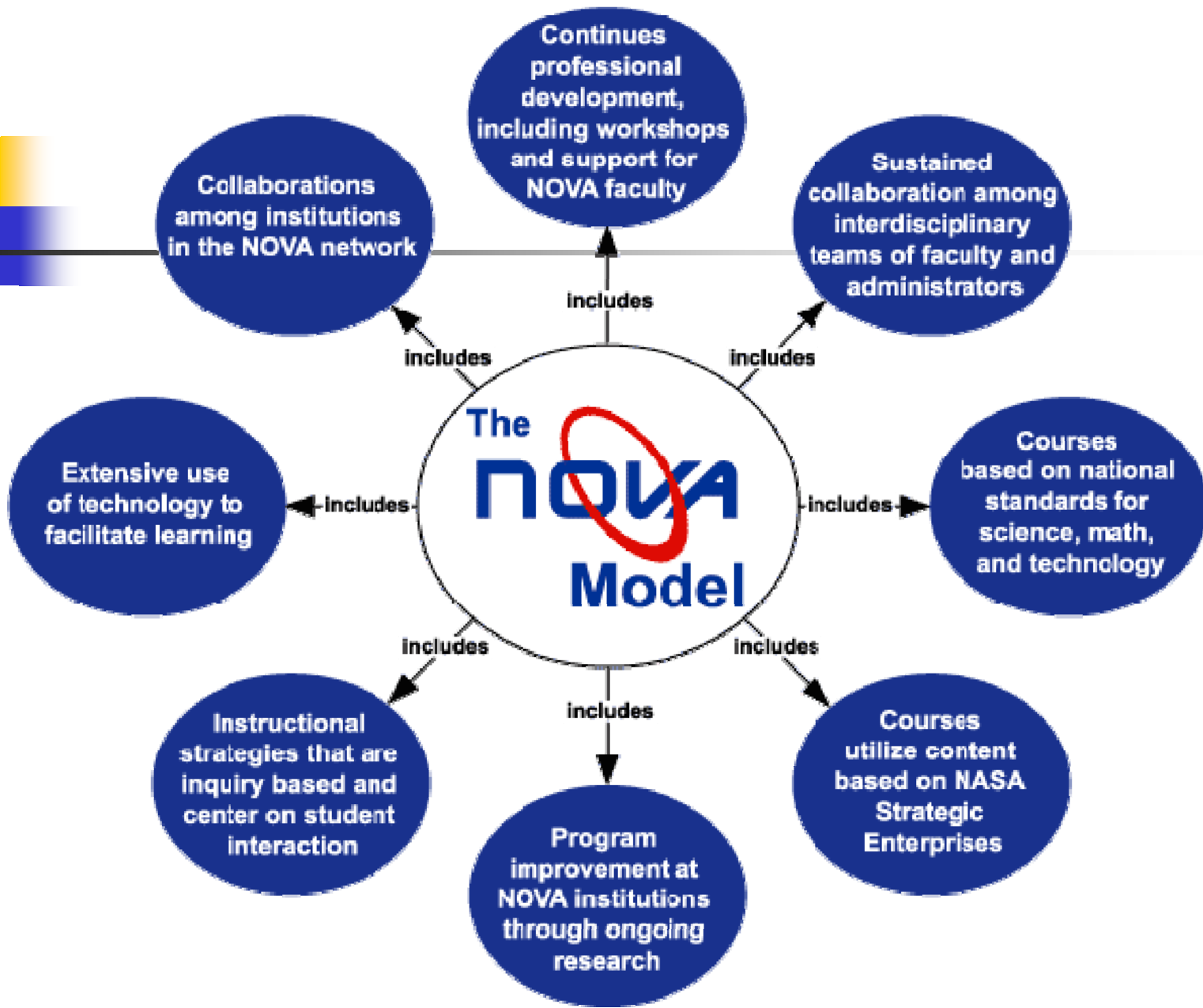
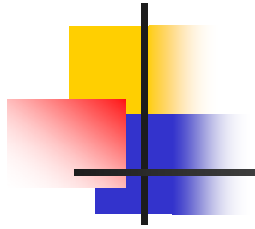
The overarching goals of this 12 year project were to:

- Provide continuous professional development and support for NOVA faculty;
- Facilitate sustained collaboration among interdisciplinary teams of faculty and administrators;
- Create change within courses based on the national standards for science, math, and technology;
- Incorporate instructional strategies that were inquiry based and encouraged significant student-to-student interaction;
- Incorporate extensive use of technology to facilitate learning;

Description of Institutions

Study Population = 103 diverse institutions, 354 faculty in collaborative teams of 3+, teaching in 185 STEM courses





NOVA Model: Elements



- **Propose and Develop New or modified STEM courses** that are components of an education major's program
- **Phase I** - Professional Development Workshop and Proposal Development - 26 National Workshops over a 12 year period
- **Phase II** - Continuing research and dissemination projects
- **Phase III** – Continuing projects involving developing online course materials
- **Leadership Development Conference** – Annual conferences sharing research and providing additional professional development
- **Action Research by faculty instructors** to determine efficacy of continued changes introduced
- **Collaborating and networking** among and between teams of faculty on common goals
- **NOVA Local reform effects**, workshops, product development, and dissemination