

DOE National Laboratories: Engines of Innovation

EDA National Economic
Development Conference
Plenary Panel III:
How to Grow High Value Jobs and
Investment in Your Region

Raymond L. Orbach Director, Office of Science June 10, 2004



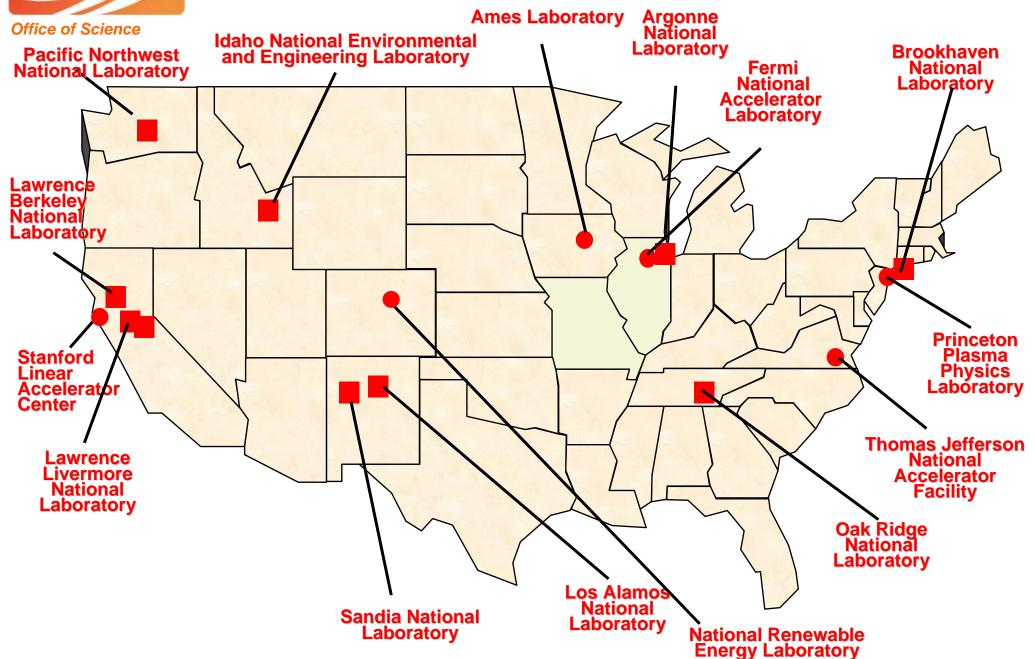
Laboratory Resources

- Powerful Scientific Instruments Easily Accessible through Broadband Networks
 - Leading Edge Supercomputers
 - Virtual Prototypes: faster, cheaper product development
 - Tools to Probe Matter at the atomic scale: Unique Nanoscale Science Research Centers, Synchrotron Light Sources, Neutron Sources
 - New materials, designer drugs
- World Class Research Programs
 - Capabilities in materials research, chemistry, biosciences, engineering, computational modeling, data analysis.

U.S. Department of Energy



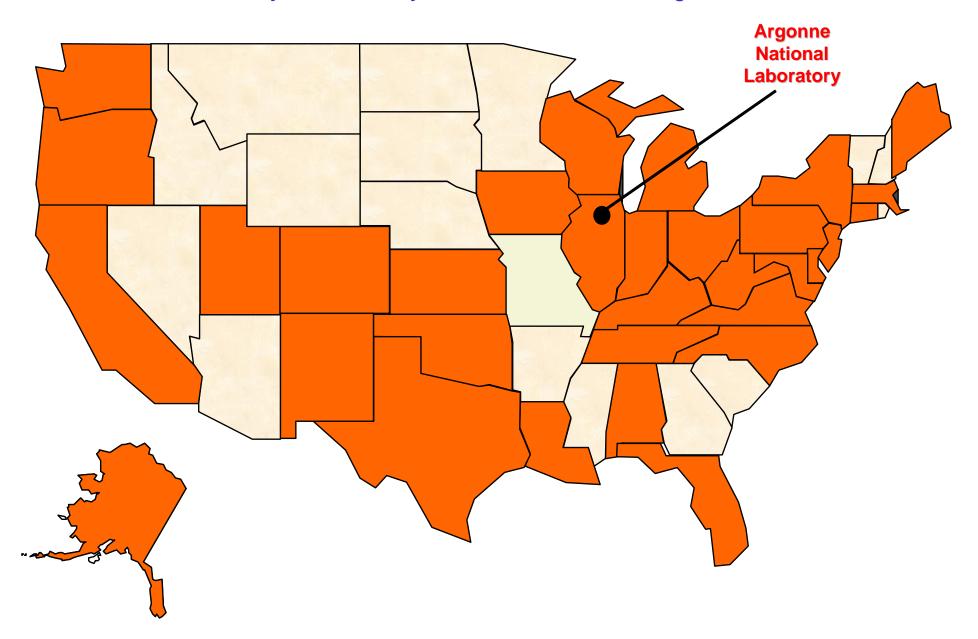
DOE National Laboratories





Argonne National Laboratory: 220 R&D Agreements in 33 States

Primarily with industry - some with state/local government or universities





Laboratory Support for Industry

Technical assistance

- Assist companies with short-term technical problems in areas where expertise not available commercially
- User facilities
 - Industry use of large, unique research facilities
- Cost-shared R&D
 - Cost sharing with an industrial partner
- Reimbursable R&D
 - Costs paid by industrial partner
- Licensing
 - Industrial acquisition of laboratory patents, copyrights, and trademarks
- Personnel exchange
 - Visiting scientist uses special laboratory capabilities