ATP Stimulates U.S. Economic Growth

ATP $ → R&D → Technology based product/service

Company $ → Company Profits → U.S. Economic Benefits → Diffusion of Knowledge

ATP Organization

OFFICE OF THE DIRECTOR
Director
Deputy Director
Executive Office

Administrative Support

Economic Assessment Office
Info Tech & Applications Office
Chemistry & Life Sciences Office
Electronics & Photonics Office

Program Planning & Mgmt
Info Resources

Policy & Operations
### Investments in Innovative Technologies

#### Electronics and Photonics ($329 M)
- Microelectronics
- Optoelectronics
- Optics Technologies
- Power Technologies
- Wireless Electronics
- Organic Electronics

#### Biotechnology ($254M)
- DNA Technologies
- Tissue Engineering
- Drug Discovery Methods
- Proteomics
- Medical Devices & Imaging
- Microfluidics

#### Manufacturing ($180 M)

#### Information Technology ($389 M)
- Advanced Learning Systems
- Component-Based Software
- Digital Video
- Information Infrastructure for Healthcare
- Electronic Commerce
- Dependable Computing Systems
- Technologies for the Integration of Manufacturing Applications

#### Chemistry and Materials ($344 M)
- Chemical Processing
- Sensors
- Metabolic Engineering/Catalysis
- Combinatorial Methods
- Separations/Membranes
- Materials Processing
- Advanced Materials
- Nanotechnology
- Material Interfaces

### ATP Mission

**The ATP does NOT...**

- Supplant private capital
- Fund basic research
- Fund product development
ATP’s Role in Technology Development

ATP Eligibility

SINGLE COMPANIES

- For-profit company
- 3-year time limit
- $2M award cap
- Company pays indirect costs
- Large companies cost share >60% of project cost
  - Intellectual property is owned by the for-profit companies
  - ATP encourages teaming arrangements - most projects involve alliances

JOINT VENTURES

- At least 2 for-profit companies
- 5-year time limit
- No limit on award amount
- Industry share >50% total cost
  - Formal Alliances
  - With Subcontractors
  - University
  - Consortium
  - Research Lab
  - Company
  - University
A Decade of Innovation

- The Program is celebrating its 10th Year
- 468 projects co-funded with 1,067 participants and 1,027 subcontractors (157 Joint Ventures)
- $3 billion of advanced technology development funded
  - ATP Share = $1.496 billion
  - Industry Share = $1.499 billion
- Small businesses are thriving
  - > 50% of projects led by small businesses
- More than 145 Universities participate
- Nearly 20 national laboratories participate

ATP Criteria

What We Look For in a Proposal

- Scientific and Technological Merit (50%)
  - Innovations in the Technology
  - High Technical Risk & Feasibility
  - Quality of R&D Plan
- Broad-Based Economic Benefits (50%)
  - Economic Benefits
  - Need for ATP funding
  - Pathway to Economic Benefits
Project Objective: Design a rigorous process and core testing technologies for assuring the security of software components, a key enabling technology for Internet-based electronic commerce.

Economic Impact: Potential for great impact in assuring the security of software components in e-commerce systems, thus accelerating the development and deployment of Web-based technologies.

Certifying Security in Electronic Commerce Components

Reliable SW Technologies Corp. (SA) $2,358,378 01/02/98 to 01/01/01

2001 Competition

2000 Competition
$50M in first year awards
Announced November 99
Proposals Due March 2000
Awards End September 2000
Single Competition

2001 Competition
Funding not completed yet
Possibly $60M in first year awards
Announcement in Fall, 2000
Proposals Due Spring, 2001
ATP Mission

Stimulate U.S. economic growth
by developing high risk and enabling technologies
through industry-driven cost-shared partnerships