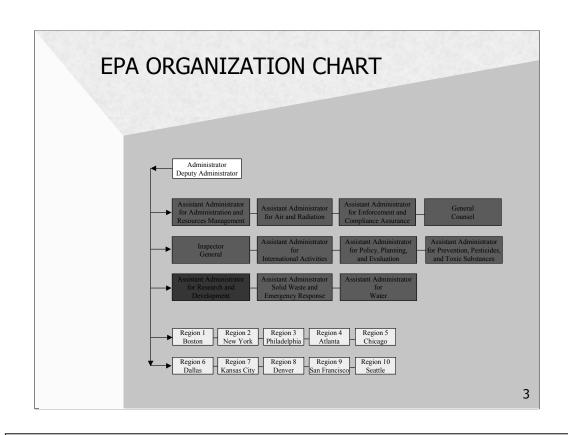
EPA'S SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM

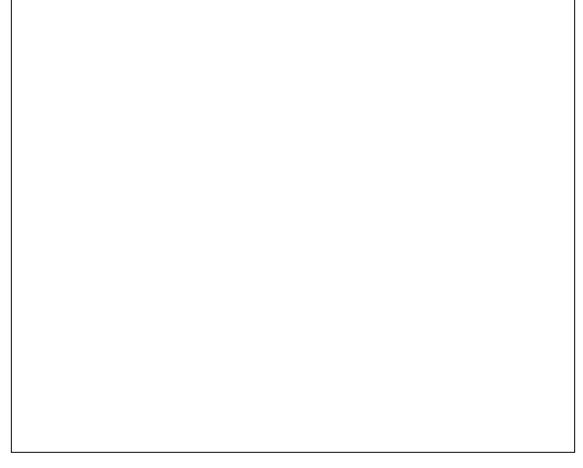




PHASE I CONTRACTOR WORKSHOP LIVE ON THE INTERNET 12:30 - 2:00 EDT April 10, 2003

EPA SBIR PROGRAM Next Phase I Solicitation OPEN – March 27, 2003 CLOSE – May 23, 2003





EPA'S SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM

- Congress Passed Initial SBIR Law in 1982
- Ten Federal Agencies with Extramural R&D Budget over \$100 Million
- SBIR Budget in 2000 over \$1.2 Billion
- SBIR is 2.5% Extramural R&D Budget (EPA \$8 Million)

FEDERAL AGENCIES

- Department of Agriculture (DOAg)
- Department of Commerce (DOC)
- National Institute of Standards & Technology (NIST)

- National Oceanic & Atmospheric Admin. (NOAA)
- Department of Education (DOEd)
- Department of Energy (DOE)
- Department of Transportation (DOT)
- National Aeronautics & Space Admin. (NASA)
- National Institutes of Health (NIH)
- National Science Foundation (NSF)

FEDERAL AGENCIES

- Department of Defense (DoD)
- Air force
- Army
- Navy
- Ballistic Missile Defense Organization (BMDO)
- Defense Advanced Research Proj. Agency (DARPA)
- Special Operations Command (SOCOM)

SBIR PROGRAM OBJECTIVES

- Foster Development of New Cutting-Edge Environmental Technologies
- EPA Programs Use SBIR Technologies to Reduce Pollution
 - Reduced Capital and O&M Costs
 - Controls More Efficient and Effective
- Protecting Human Health
- Safeguard the Environment
- Improving American Economy

7

3All this helps the Agency to achieve its overall mission

*New jobs, New Companies, New Products

SBIR PHASE I

- Prove Scientific and Technical Feasibility
- Awards up to \$70,000
- Commercialization Assistance \$4,000
- Six Months Duration
- Approx. 1 in 10 Funded

- 8

SBIR PHASE II

- Prototype Developed/Commercialized
- Only Phase I Winners Fligible
- Awards \$225,000 up to \$320,000
- Phase II Options (Commercialization/ETV)
- 15 Month Duration
- Approx. 40 Percent Funded

.

SBIR PHASE I SOLICITATIONS

REGULAR PHASE I SOLICITATION 10

Volatile Organic Compounds (VOC) Monitors Special Air Emission Source Monitors 11

SPECIAL: Monitoring of Air Pollution

	Coal Bed Methane	
	Animal Environmental Management Chronic Wasting Disease	
	Mining Waste and Acid Mine Drainage	
	Emission Controls for Off-Road Engines	
		12
_		

SPECIAL: Western USA Environmental Problems

Improved Detection Technologies Biological and Chemical agents Portable Detectors **Building Decontamination Systems** 13

SPECIAL: Safe Buildings and Water Security

FY 2003 Regular Solicitation Topics

- A. Nanomaterials and Clean Technology
- B. Treatment and Monitoring of Drinking Water
- C. Municipal and Industrial Wastewater Treatment
- D. Hazardous Waste Management and Site Remediation
- E. Recycling of Municipal and Industrial Solid Waste

- •Nanomaterials and Clean Technology
 - Nanotechnology
 - Pollution Prevention
 - Green Chemistry
 - Priority Industries

- •Treatment and Monitoring of Drinking Water
 - Drinking Water Treatment
 - Small, Inexpensive Systems
 - Cryptosporidium, Arsenic, Chemicals
 - Monitoring of Drinking Water Quality

- •Wastewater Treatment
 - Municipal Wastewater
 - Industrial Wastewater
 - Stormwater and CSOs

•Hazardous Waste Management and Site Remediation

- Hazardous Wastes
- Site Cleanup
- Soil, Sediments and Ground Water

•Recycling of Municipal and Industrial Solid Waste

- Municipal Solid Waste
- Industrial Solid Waste
- Electronics Recycling

Proposal Preparation Requirements

- 25 Page Limit for Phase I Proposals
- Original +9 Copies to EPA / RTP by Deadline
- Abstracts: Complete and Provide Good Project Summary
- Technical Content of Proposal

Phase I Proposals (25 Pages)

- Proposal Cover Sheet
- Abstract
- Technical Content
- Cost Breakdown and Proposal Budget
- Quality Assurance Narrative

Technical Content Of Proposal

- Significance of Problem and Environmental Benefits
- Phase I Technical Objectives
- Phase I Work Plan

Phase I Work Plan

- Should be Major Part of Proposal, Maybe 10+ Pages
- What Will be Done, Where and How
- Details to Allow Thorough Scientific and Technical Review
- Include Work Schedule and Timeline

Technical Content Of Proposal (Continued)

- Phase I Work Plan
- Related R&D (Show Awareness of Recent Research)
- Key Personnel, Consultants and Facilities
- Future Research (Phase II Expectations)
- Commercialization Plan

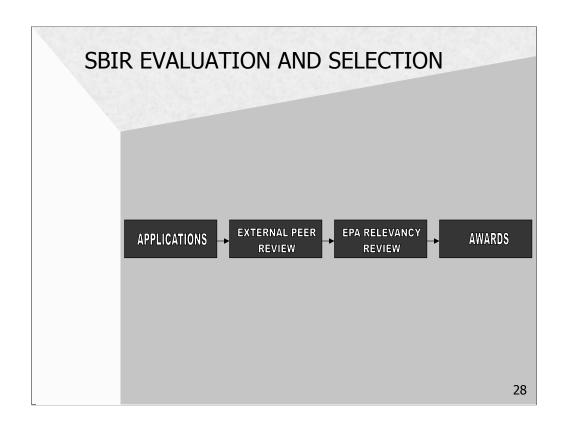
Commercialization Plan

- Abbreviated 2-3 Page Roadmap for Commercialization
- We Provide Help During Phase I
- Commercial Applications
- Competitive Advantages
- Markets and Business Approach

Technical Content of Proposal (Continued) • Commercialization Plan • Similar Awards

Duplicate Awards Prior SBIR Awards

Other Considerations • Cost Sharing • Fee or Profit • Joint Ventures / Limited Partnerships 27



Evaluation and Selection Process

External Peer Review

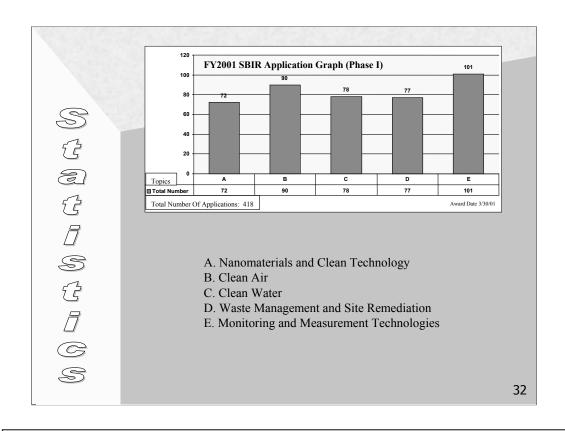
- •Excellent, Very Good, Good, Fair or Poor Five Criteria (Equal Weight)
 - Scientific / Technical Quality and Soundness
 - Uniqueness and Originality
 - Cost and Environmental Benefit
 - Qualifications of Team
 - Commercialization Potential

Relevancy Review

- •EPA Internal Program Review Only Review Excellent and Very Good Rated Proposals Three Criteria (Equal Weight)
 - Meets EPA Needs and Program Priorities
 - Significant Environmental Benefits
 - Broad Application and Impact

EPA SBIR Performance

- FY 1983 2000 Awards
 - 6000 Total Phase I Proposals
 - \$65 Million Awarded
 - Typical Awards Per Year
 - ·30 Phase I Awards
 - ·14 Phase II Awards



How To Win An SBIR Award

- Read the Solicitation
- Review Topic Descriptions
- Search EPA Website for Previous Awards
- Understand the Problem and Build a Team
- Brainstorm, Plan and Select Approach

How To Win An SBIR Award

- Develop a Quality Proposal
 - Plan an Outline
 - Realistic Work plan
 - Broaden your Capability
 - Emphasize your Strengths
 - Show the Potential of your Idea
 - Show Clear Path to Commercialization
 - Use Key Figures and Tables
 - Don't Quit Learn from Losing

How To Win An SBIR Award Third Party Independent Evaluation Letters of Support Excellent Executive Summary

Formula For SBIR Success

- Address Agency Priority Needs
- Environmental Benefits
- Strong Competition / Innovative Proposals
- Technical Abstract
- Work Plan
- Technical Evaluation Criteria
- Relationship to Future Research
- Cost Breakdown

EPA WEBSITE

- www.epa.gov/ncer/sbir
- Listing and Abstracts of Phase I and Phase II Awards
- Technology Results
- Other SBIR Agency Environmental Technologies
- EPA SBIR Reports and Publications
- 1-800-490-9194 Telephone Helpline

