

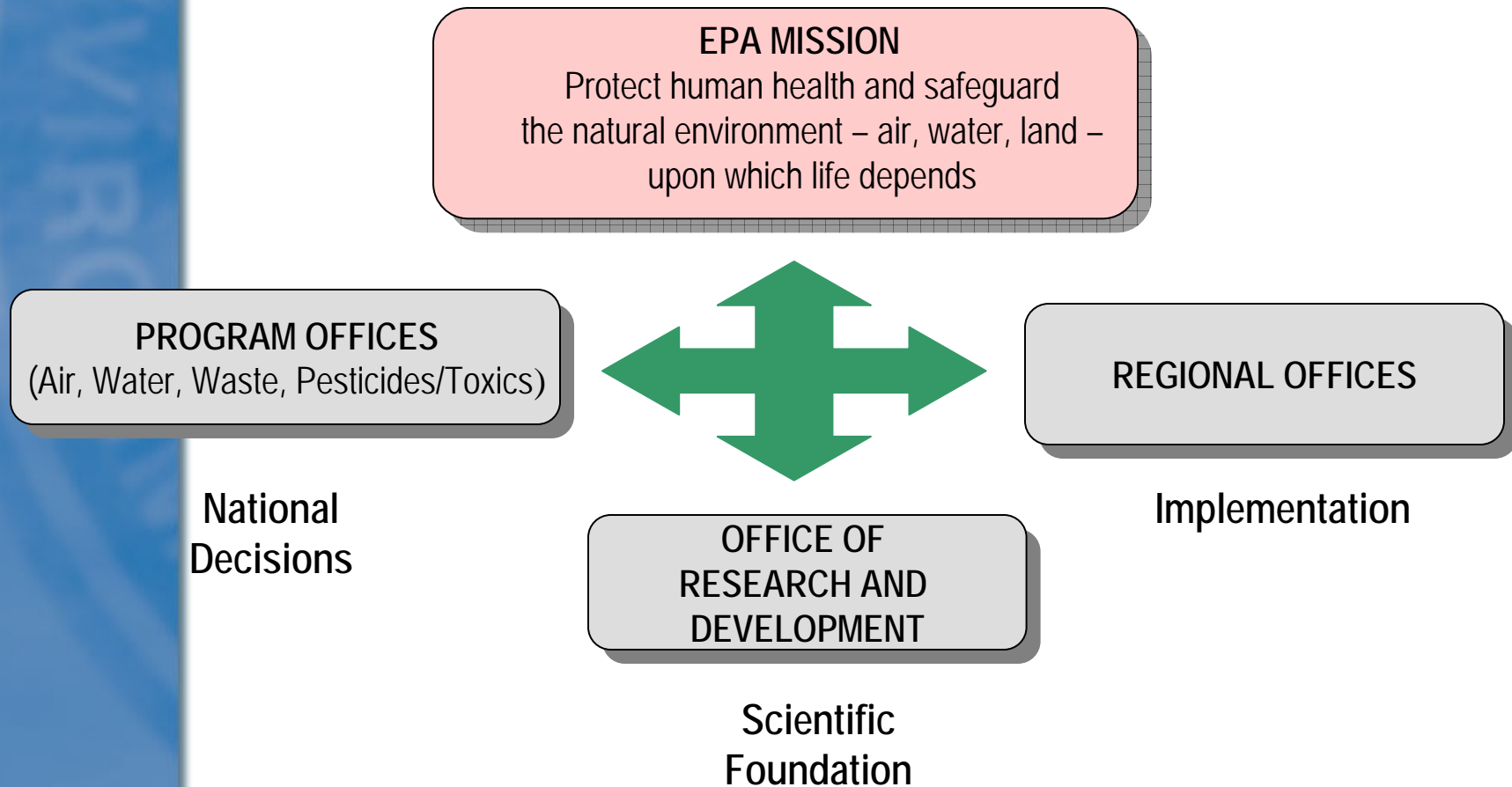


*Environmental Protection Agency
Federal Technology Transfer Program*

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EPA's FTTA Program

- Focus of "technology transfer" is to get technologies developed by the Federal government into the marketplace
- Managed by the Office of Research and Development for EPA



OSP's Role in FTTA

- Coordinate FTTA activities for the Agency
- Develop CRADA and license documents
- Coordinate review of Agreements with OGC and GAD
- Coordinate patent applications with OGC
- Market partnership opportunities
- Negotiate licenses with companies (along with inventor's management)
- Respond to FOIAs, compile statistics for annual report to OMB and Commerce, prepare other responses as necessary
- Manage cooperative agreement with WVHTF*
 - *Small follow-up extension

EPA Research Topics

- Air Toxics
- Contaminated Sites and Hazardous Waste
- Drinking Water
- Endocrine Disruptors
- Global Change
- Mercury
- Particulate Matter
- Safe Pesticides/Safe Products
- Water Quality
- Ecological Research
- Economics & Decision Sciences
- Human Health
- Pollution Prevention
- Vehicle and Fuel Emissions
- Homeland Security
- Air and Radiation
- Genomics/CompTox

Example Partnerships & Research Areas

Example Partners and Licensees

American Chemistry Council ✕ BP Amoco ✕ Chevron ✕ Dow Corning ✕ DuPont
Eastman Chemical ✕ Exxon ✕ Fisher-Scientific ✕ Ford Motor
Electric Power Research Institute ✕ General Electric ✕ General Motors
Georgia Pacific ✕ Proctor and Gamble ✕ Hewlett-Packard ✕ International Paper
Partnership for a New Generation of Vehicles ✕ Duke University
University of Maryland ✕ Georgia Institute of Technology
New Jersey Institute of Technology ✕ University of North Carolina

72% industry partners; 24% non-industry partners; 4% other

Examples of Research Areas for CRADAs and Licenses

Black Mold Arsenic Removal Hybrid Vehicles Water Security
Children's Health Clean Diesel Combustion Phytoremediation
Cryptosporidium Aerosol Samplers Soil Treatment

CRADA Examples

- Arsenic Partnerships: 37 CRADAs signed to cooperate with small drinking water systems to install arsenic treatment equipment and collect data for new arsenic standards. Partners include towns, tribes, housing communities, and public utilities. Round 3 in development.
- Full Series Hydraulic Hybrid technologies - EPA scientists invented a highly efficient full-series hydraulic hybrid powertrain. EPA holds the patent on this technology. A CRADA was developed to install the technology into an urban delivery vehicle.

EPA's FTTA Program Status

- FY07
 - 38 active licenses; 5 new in FY 07
 - 84 active CRADAs; 18 new in FY 07
 - 10 patents issued in FY07
 - 15 new patent applications filed
- FY06
 - 35 active licenses; 2 new in FY 06
 - 94 active CRADAs; 16 new in FY 06
 - 10 new patents issued in FY06
 - 13 new patent applications filed
 - 12 new employee reports of invention disclosed
- FY05
 - 107 Active CRADAs; 33 new in FY 05
 - 39 Active Licenses; 4 new in FY 05
 - 9 New Patents issued in FY 05
 - 13 new patent applications filed
 - 12 new employee reports of invention disclosed

Interagency Context

- EPA has 1.3% the of CRADAs tracked by the interagency workgroup;* similar to DOI, DOE, more than VA
- DOD has 54.5% of the CRADAs
- EPA actively participates on the interagency workgroup and the Federal Laboratory Consortium

*Based upon data collected by Dept. of Commerce for the following agencies: USDA, Commerce, DoD, DOE, EPA, HHS, DOI, NASA, DOT, VA

Current Initiatives

- Increase CRADAs and licenses
- Increase Visibility/Awareness to Partners
 - Literature and visual information – marketing materials, FLC articles
 - External events
- Participation in EPA and Intergovernmental activities
 - Environmental Technology Council
 - Federal Laboratory Consortium
 - Interagency Workgroup for Technology Transfer
- Increase Visibility/Awareness within EPA
 - On-site training
 - On-line training
 - Recognition for patents at previous 2006 Science Forum
 - 2008 Science Forum Training

Current Initiatives (con't)

- Collaboration with other Federal Agencies
 - EPA' National Vehicle and Fuel Emissions Laboratory and DOT's Federal Transit Authority have initiated a discussion of a potential CRADA with CALSTART/WESTART to evaluate the potential for hydraulic hybrid buses.
 - CRADA with multiple parties, one of which is USGS for the further development of the National Environmental Methods Index (NEMI).
 - Agreement with the Air Force addressing new soil remediation technologies at an AF site (mid-1990s).
 - Agreement with the Forest Service addressing use of a fungus to treat contaminated soil (early 1990s).

Current Challenges

- Loss of WVHTF Cooperative Agreement
 - Liaison between outside entities and EPA
 - Market analyses for inventions and ideas
 - Facilitates CRADAs between EPA and external partners
 - Helps market EPA capabilities and patents
 - Hosted Summits (Air 9/06, Water 9/07)
- Budget-FTE Reductions/Increased Activity
- Program Evaluation

Summary and More Information

- Expertise in Environmental Technologies
- Research laboratories across the country
- Opportunities for CRADAs, Licensing
- EPA Tech Transfer Internet: www.epa.gov/osp/ftta.htm
- EPA's patents: www.epatechmatch.com
- Federal Staff:
 - Sarah Bauer, Program Coordinator
202-564-3267 / bauer.sarah@epa.gov
 - Valerie Blank, Program Specialist
202-564-1720 / blank.valerie@epa.gov
 - Rochelle Perry, Records and Documents
202-564-6484 / perry.rochelle@epa.gov