TECHNOLOGY TRANSFER

Best Possible Use of National Assets

Making the best possible use of national scientific and technical capabilities

The U.S. Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT) Office of Research and Technology Applications (ORTA) manages the command's Domestic Technology Transfer Program per Army Regulation 70-57 and 15 U.S. Code 3710. The ORTA acts as a focal point and liaison to government, industry and academia, and oversees the creation and maintenance of the command's intellectual property. It also acts as an "honest broker" within a command process team composed of technical, legal, contractual, small business, and resource management representatives to determine the best solutions for non-traditional partnerships. The ORTA is not only a part of the Department of Defense technology transfer chain of command, it is also a member of the Federal Laboratory Consortium network made up of all federal labs.

- **Key Command Assets Available for Use:** Reagan Test Site, Kwajalein Atoll, Marshall Islands; Advanced Measurements Optical Range, Alabama; Simulation Center, Alabama; MD Futures Lab, Alabama.

- **Key Command Technical Capabilities:** acoustic, space, missile defense, directed energy, sensors, experimentation, testing, data analysis and exploitation, information superiority, lasers, exercise support, operational analyses and support, interoperability, survivability, systems analyses, space support operations, training.

Technology Transfer

Changing Paradigm for Technology Transfer

Traditionally, technology transfer from the Department of Defense to the non-DoD community was not considered a high priority; it was a way of "giving back" technologies developed in DoD labs to the U.S. taxpayers for commercialization purposes. Now, technology transfer is an integral part of each DoD lab's mission. While DoD-developed technology was once considered superior to foreign and industrial technology, civilian technology has surpassed it in most critical areas. Commercial-off-the-shelf use is also encouraged as a part of a new acquisition strategy. Originally, technology transfer focused on spin-off transfers to the non-DoD community. Greater attention is now given to spin-on (technology transfers into DoD), dual-use (technology developed for more than one DoD purpose), and side-spin (technology transfer between DoD agencies).

Some Mechanisms for Technology Transfer/Exploitation

- Cooperative Research and Development Agreements
- Patent License Agreements
- Invention License Agreements
- Education Partnership Agreements
- Test Service Agreements
- Conferences, Symposia, Exhibits
- Technical Assistance and/or Assessments
- Personnel Exchange
- Technical Data Exchange
- Partnerships with Non-Profit Agencies
- Presentation of Technical Papers or Information
- Federal Laboratory Consortium activities
- Partnership Intermediaries

Cooperative Research and Development Agreements

CRADAs provide a means for mutually beneficial partnerships between the government and other entities. Each party brings assets (expertise, hardware, software, facilities, data, etc.), and in the case of the contractors, potential funding, to the agreement to research something that neither could create on its own, usually in a more timely manner than any other traditional approach. CRADAS enhance government/partner trust, as well as provide access to government/military facilities not commercially available, and often result in new, improved, or more cost effective products or processes.

Patent/Invention License Agreements

Command intellectual property (patent and inventions) may be licensed to outside agencies as appropriate through PLAs and ILAs. They can be exclusive (licensed only to that partner and no one else), partially exclusive (licensed only to that partner but the government retains the right to license it to someone else if deemed vital to national security), or non-exclusive (where multiple partners may exist). A list of available command patents may be found at www.army.mil/smdc.

Education Partnership Agreements

EPAs encourage: (1) beneficial contact between representatives of academia and USASMDC/ARSTRAT; (2) loaning defense laboratory equipment to the institution; (3) transferring to the institution defense laboratory equipment determined by the commander to be surplus; (4) making laboratory personnel available to teach science courses or to assist in the development of science courses and materials for the institution; (5) involving faculty and students of the institution in defense laboratory projects; (6) cooperating with the institution in developing a program under which students may be given academic credit for work on defense laboratory research projects; and (7) providing academic and career advice and assistance to students of the institution. Command personnel may participate on a voluntary basis as agreed to by their supervisors.

State and Local Government Assistance

The ORTA responsibilities include interaction and assistance with state and local government when possible, which includes academia, K-12 as well as universities and colleges. It may provide and dissemination information on federally-owned products, processes, and services having potential application to state and local government, as well as private industry. Technical assistance may be provided to state and local government entities, such as advice on ways to improve manufacturing, new technological advances, etc. The ORTA also participates in regional, state, and local programs to facilitate or stimulate the transfer of technology to state and local government, and the private sector.

Benefits of Technology Transfer

- Assists in meeting command goals
- Creates successful, mutually beneficial and lasting alliances
- Sets up framework for business operations
- Explores new business opportunities
- Employs better ways of doing business
- Allows the government to benefit from unique work jointly performed with non-traditional government suppliers/partners, stimulating competition
- Gain from assertion of intellectual property rights
- Utilizes facilities and assets more fully
- Advertises appropriate command capability to the nation
- Develops and enhances workforce knowledge and skills, and "hands-on" experience

For information or for potential partnership activity, contact:
Office of Research and Technology Applications (ORTA)
U.S. Army Space and Missile Defense Command/Army Forces Strategic Command
SMDC-RDO
P.O. Box 1500
Huntsville, AL 35807-3801
(256) 955-1501

For more information, please contact:
USASMDC/ARSTRAT Public Affairs Office
P.O. Box 1500
Huntsville, AL 35807
Phone: 256-955-3887
Fax: 256-955-1214
www.army.mil/smdc
www.facebook.com/armysmdc
www.twitter.com/armysmdc
www.flickr.com/armysmdc
www.youtube.com/armysmdc

Distribution A 0614-01