



technology transfer office
2009 Summary Report

MITRE

Moving Technology to the Commercial Marketplace

MITRE's Technology Transfer Office

MITRE's Technology Transfer Program was established in 1999 to place MITRE-developed technologies in the hands of commercial companies that can make them available to our sponsors and the public as supported, affordable products. Working on critical issues of national importance, MITRE continues to develop new and innovative technologies.

The Technology Transfer Office (TTO) is an integral part of the technology transfer process, which also includes the legal office, chief engineers, and MITRE's research community. The combined efforts of the technical, legal, and business staff increase the value of MITRE's innovations by sharing them with the public.



Highlighting technologies licensed during 2009

■ WiMAX RF Planner

This capacity planning tool for RF is tailored to defense communications with both base station mobility (on a range of platforms) and client mobility. The WiMAX RF Planner includes the expected commercial features of network coverage and capacity planning.

■ Host-based Firewall with Dynamic Encryption Capability (HFDEC)

The HFDEC system ensures the confidentiality of traffic content within the domain and mitigates insider threats. Deploying this system in conjunction with host-based firewalls will establish an additional layer to the "defense-in-depth" model that protects data both in transit and at rest.

■ Aviation SimNet simulation environment for aviation researchers to explore and validate the next generation air traffic control system.

The tool addresses the aviation community's need to quickly create distributed simulations to answer complex operational questions. The recent licensees expand the consortium across the Atlantic to include European participants. Aviation SimNet is an industry standard.

■ Bioscope

This tool facilitates visualization and analysis of large-scale disease outbreaks in temporal, social, phylogenetic, and geospatial dimensions. It includes a data dictionary, database schema, and data concept that align disjoint data sources on person (or animal), place, time and viral strain characteristics.

■ Terminal Area Route Generation Evaluation and Traffic Simulation (TARGETS)

Major airlines are using TARGETS, a design and simulation tool for air navigation routes and procedures, to develop new arrival and departure routes in real time.

■ Universal Access Transceiver (UAT) Beacon Radio (UBR)

This digital radio system significantly increases situational awareness for smaller aircraft and other aircraft operating in the lower altitudes of the national airspace.

■ Wearable One-way Transfer

This device allows formatted individual location information to flow from an unclassified tactical radio network to a classified command and control network.

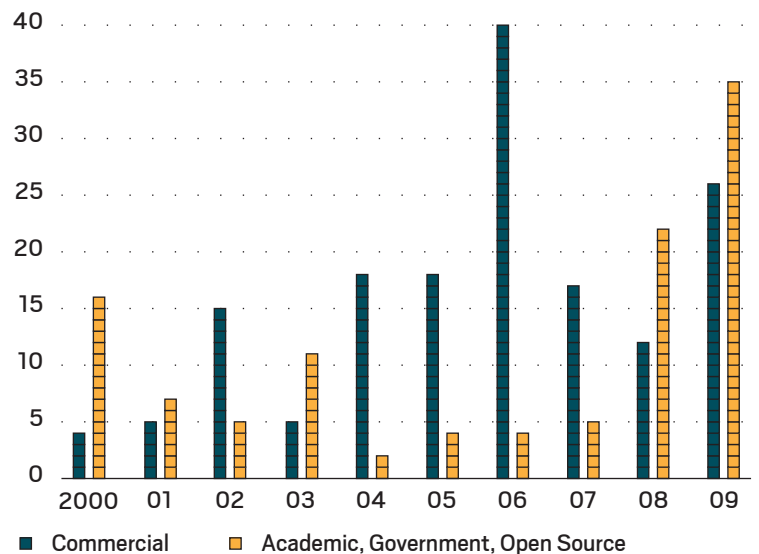
Delivering the Messages

- The TTO communicates with MITRE researchers in various forums about the benefits of protecting MITRE's intellectual property and transferring its technology for wider use. The TTO also communicates with industry through such events as the Innovation Exchanges in McLean, and Crystal City/ Arlington, Virginia, Mid-Atlantic Venture Association events for the technology community, and the Business Alliance technology events. These events also provide the TTO with the opportunity to speak with entrepreneurs, venture capitalists, service providers, and others who may be interested in licensing MITRE's technology.
- MITRE continues to build on its successful licensing agreements; its relationships with the business community in the mid-Atlantic and Northeast regions, as well as nationally; and its growing technology portfolio. MITRE will continue to make its technologies available for the benefit of its sponsors and the public—a reflection of the company's deep commitment to serve the national interest.

Technology Transfer Delivers Value in the Public Interest

- As MITRE focuses on providing solutions to critical issues of national importance, its researchers often come up with new technologies or applications that can be applied to more than one sponsor or commercial area, as well as to academia or other outside organizations, both domestically and globally. Transferring the results of MITRE's research and development to the public through licensing, open source releases, or publications ultimately serves its sponsors.

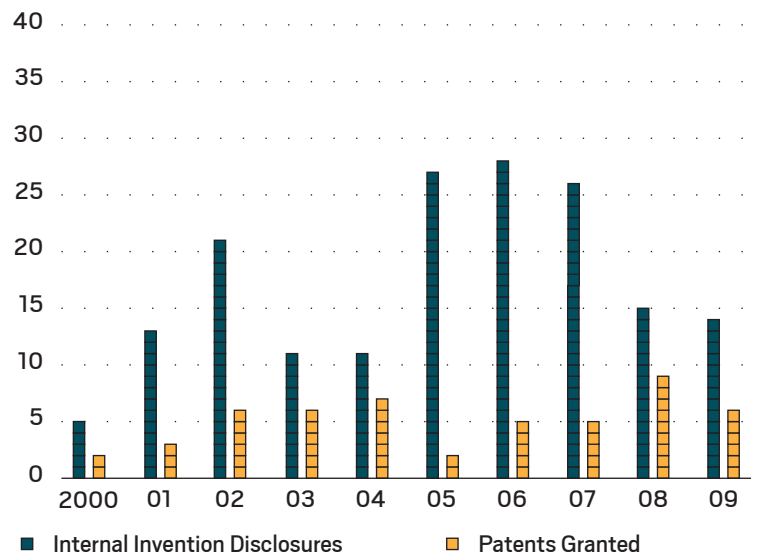
License Activity



New Invention Disclosures and Patents

- The TTO's continued outreach to MITRE researchers has effectively increased participation and awareness of the company's Technology Transfer Program. In 2009, 14 new inventions were disclosed to the TTO.
- Also, in 2009, MITRE filed nine patent applications with the US Patent and Trademark Office, and six new patents were issued for MITRE technologies. Innovation is a high priority at MITRE and the company expects a healthy pipeline of intellectual property disclosures and patent applications for the foreseeable future.

Patent Activity



About MITRE

The MITRE Corporation is a not-for-profit organization that provides systems engineering, research and development, and information technology support to the government.

It operates federally funded research and development centers for the Department of Defense, the Federal Aviation Administration, the Internal Revenue Service and Department of Veterans Affairs, and the Department of Homeland Security, with principal locations in Bedford, Mass., and McLean, Va.

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