Technology Transfer: Accessing U.S. Federal Lab Technologies

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Metropolitan Washington
Council of Governments

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Presentation

1. Role of the Federal Lab Consortium for Tech Transfer (FLC)

2. How to work with the FLC: Identifying/Accessing Lab Technologies/Capabilities

3. Discussion: How to Accelerate our Connections for the Washington Region

What is the FLC

The FLC:

- Formally created by Congress under the Federal Technology Transfer Act (Public Law 99-502)
- Composed of tech transfer professionals from the federal laboratories, their respective agencies, and affiliated organizations

Membership reflects:

- 18 federal departments and agencies
- Hundreds of federal government R&D laboratories and centers
- $ billions annual budget
- > 100,000 scientists & engineers

Primary Activities:

- Education and Training
- Sharing Best Practices/Networking
- Professional Recognition
- Communications and Coordination

FLC Key Contacts

- *National* -- FLC Chair: Paul Zielinski (NIST, Gaithersburg)
- *Regional* -- Mid-Atlantic Regional Coordinator: Robert Griesbach (USDA, Beltsville)
- *Laboratory* – Each Lab has a Point of Contact

FLC Mid-Atlantic Region

- Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.
- Over 70 federal laboratories and agencies.
- Who we are: the technology transfer, licensing and commercialization professionals who work in federal labs.

FLC Mid-Atlantic Region

Selected Lab Examples

- DARPA, Arlington
- DTIC, Fort Belvoir
- EPA National Center for Environmental Research, DC
- FDA's Center for Biologics Evaluation and Research, Rockville
- FDCA Center for Drug Evaluation and Research, Silver Spring
- FHWA's Turner-Fairbank Highway Research Center, McLean

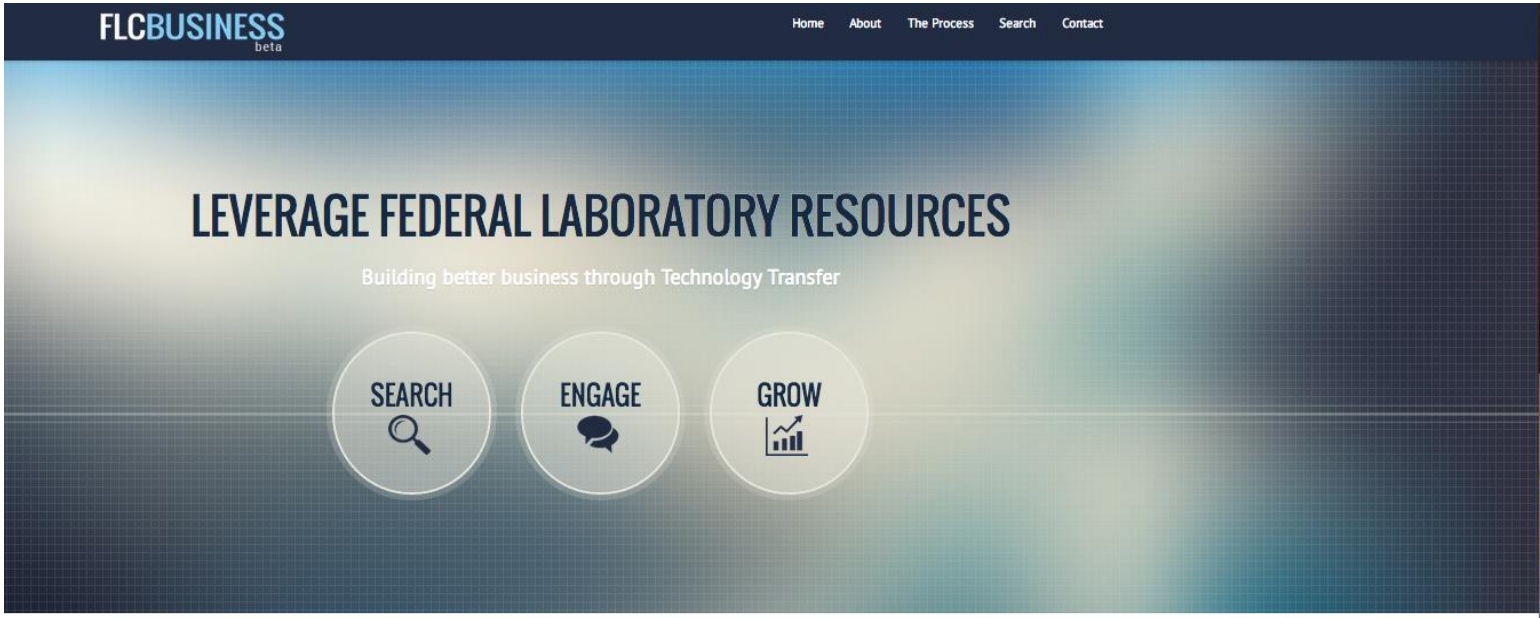
FLC Mid-Atlantic Region

Selected Lab Examples (continued)

- HHS Center for Food Safety and Applied Nutrition, DC
- National Biodefense Analysis and Countermeasures Center, Frederick
- National Institute of Standards and Technology, Gaithersburg
- National Institutes of Health, Rockville
- NOAA-Air Resources Laboratory, College Park
- USACE's Institute for Water Resources, Alexandria

Accessing Federal Labs
(Entry Points)

- **FLC** (e.g., Technology Locator Service
  Available Technologies Search Tool
  FLC Business Resource Tool
- **Agency** (T^2 Office; Partnership Intermediaries)
- **Laboratory/Institute** (Lab T^2 Office -- ORTA)
- **Individual** (Scientists & Engineers)



Available SEARCHES

Laboratories | Funding | Facilties & Equipment | Programs

Laboratories: Search for a federal laboratory that is working in a research field that may be of interest to your business. Our databases have vast data on the most up-to-date technologies that our labs are working on to fulfill all of your business needs.

THE PROCESS

01 **SEARCH.** This resource provides the ability to search for laboratories, funding, facilities and equipment or programs to help develop your business. Whether you're in need of funding or a new technology, the first step is finding what you are looking for. Our databases are the hub of information for federal laboratory information and our Technology

Tech Transfer Environment
(Results of Legislative History)

- Small businesses, universities and not-for-profits keep title to inventions made with federal funds
- Federal agencies receive greater, more flexible, patent and licensing authority
- Lab scientists can participate in royalty income
- Mechanisms and incentives to implement technology transfer, including CRADAs, etc.

Common Tech Transfer Mechanisms

- Patent License Agreement
- Cooperative Research and Development Agreement (CRADA)
- Work for Others – Work for Private Parties
- Collegial exchange
- Educational Partnership Agreement
- Use of Facilities Agreement
- Cooperative Agreement
- Commercial Test Agreement
- Material Transfer Agreement
- Partnership Intermediary Agreement
- Commercial Service Agreement
- Personnel Exchange

Benefits of Federal T2
(Example: National Institutes of Health Stats; 2012)

- Intramural research program ~ 10% of overall NIH budget
- ~ 600 products (from drugs to research tools) developed to date from intramural NIH licensees
- ~ $6B in product sales each year by intramural NIH licensees (equivalent to a mid-level Fortune 500 company)
- > $1B in royalties to date
- Using the study data from the New England Journal of Medicine, 153 drugs were brought to the market in the last 40 years under licenses from US Public Sector Research Institutions (PSRI) including the NIH

Benefits of Federal T2

(Example: Department of Defense, Licensing, 2013)

National Economic Impacts from DOD License Agreements with US Industry: 2000-2011

Economic impact of 602 agreements between DOD labs and US industry; 2000-2011

Select Findings:

- 163,067 jobs created or retained (27,128 direct)
- $ 65,000 per year average wage for jobs created or retained
- $ 13.4 billion in sales generated
- $ 2.3 billion in federal tax revenues
- $ 1.3 billion in state/local tax revenues

Discussion

Working more closely together in the Metropolitan Washington Region

Thank You!!

Paul Zielinski

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