

FLC TOOLS AND RESOURCES **WEBINAR**

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Introduction to the FLC and Technology Transfer

Tools and services created to
facilitate federal technology transfer.

JOHN DEMENT
FLC Chair



federallabs.org



300+

FEDERAL
LABS

25

FEDERAL
AGENCIES

WHAT IS THE FLC?

A consortium of 300+ federal laboratories formally chartered by the Federal Technology Transfer Act of 1986 (15 USC §3710(e)).



What is the FLC?



WHAT IS TECHNOLOGY TRANSFER?

Simply stated, federal technology transfer (T2) is the process by which existing knowledge, facilities, or capabilities developed under federal R&D funding are utilized to fulfill public and private needs.



THE FLC'S MISSION

PROMOTE T2 activities and successes through the FLC awards program, as well as print, online, and social media communications. Raise awareness and increase dialogue with state and local governments, industry, academia, and other external participants about the significance of T2.

EDUCATE the FLC community on T2 best practice strategies and offer various in-person and online training opportunities to improve their understanding and navigation of the federal commercialization process.

FACILITATE federal laboratories, industry partners, entrepreneurs, and academic institutions with their T2 goals and missions through FLC-created tools and services in order to provide introductions, information, and an accessible path for members to get their technologies from lab to market.



PROMOTE



EDUCATE



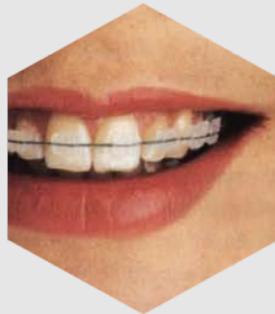
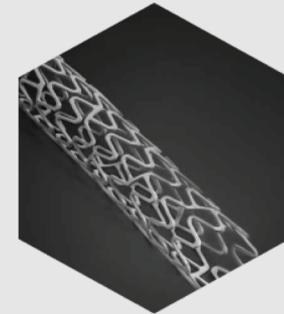
FACILITATE



What is the FLC?

TECHNOLOGY TRANSFER IN YOUR LIFE

CASE STUDY: PtCr ALLOY CORONARY STENTS



CASE STUDY: INVISIBLE BRACES



CASE STUDY: SIRI



QUICK MACRO

2014 - Present

THE STORY IS:

CRADAs

~50% increase in the past 12 years
averaging 3,500 new agreements per year

Patents Issued

~20-30% increase since 2011 averaging
2,000 per year

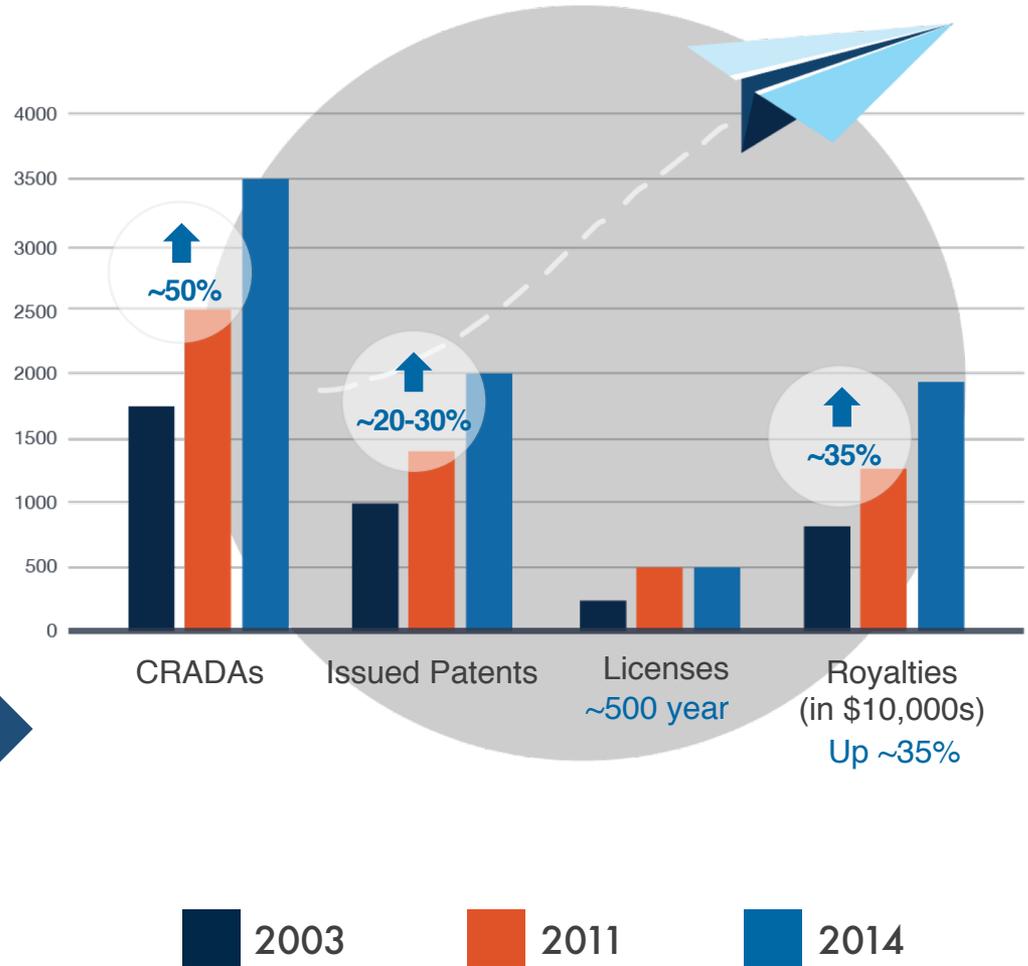
Licenses (inventions)

~500 per year; Anomaly that it has
flattened out?

Royalties - \$194M

Up 35% since 2011; Mostly
pharma/medical

BUT royalties is NOT the goal!





What is the FLC?

FY 2016 R&D BUDGET

(Dollars in millions)



FLC AGENCY CONTRIBUTIONS - FY17

Agency	Amount Paid
Department of Agriculture	\$124,336
Department of Commerce	\$97,784
Department of Defense	\$1,274,408
Department of Energy	\$581,000*
Department of Health and Human Services	\$599,104
Department of Homeland Security	\$37,848
Department of Interior	\$57,584
Department of Transportation	\$29,112
Department of Veterans Affairs	\$53,872
Environmental Protection Agency	\$20,856
National Aeronautics and Space Administration	\$247,400
National Science Foundation	\$24,696
Total	\$3,148,000

* Amount was collected after the date of the financial statements.

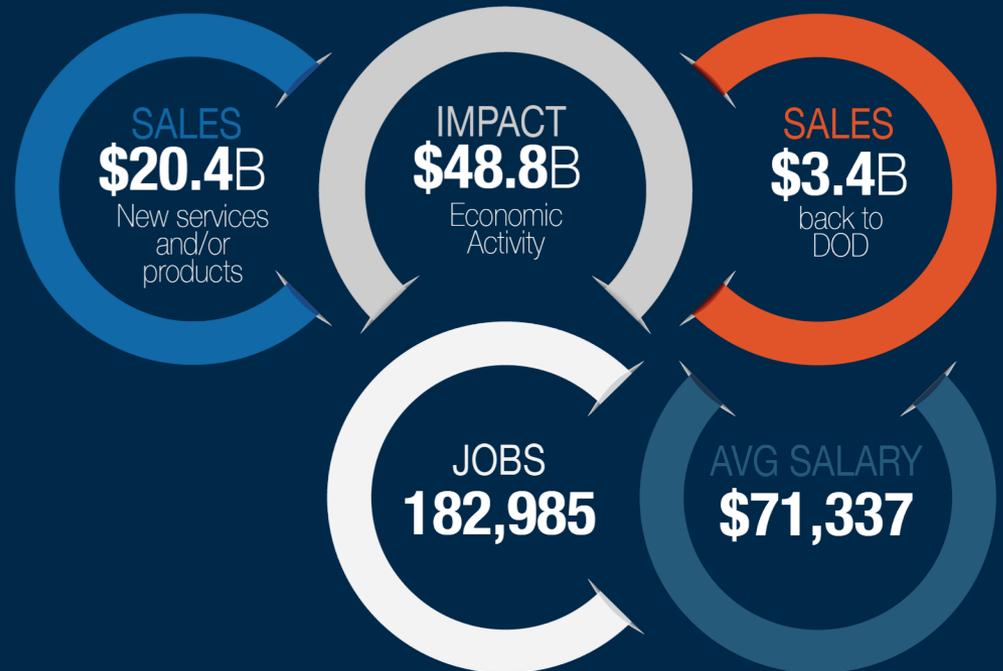
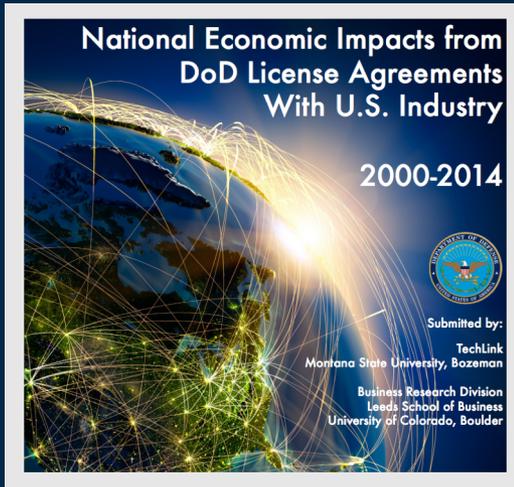
SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2016-17.



What is the FLC?

OUR EVOLVING STORY

Economic Impact of Converting Federal Innovation into Jobs and Businesses



TechLink Study: 663 DoD Licenses Results

<https://techlinkcenter.org/2016-report-economic-impact-dod-licensing-2000-2014/>



Why is technology transfer so important?



WHY IS TECHNOLOGY TRANSFER SO IMPORTANT?

Technology transfer is impacting our:

- Economy
- Society
- Everyday Life





Clean Water to Puerto Rico Hurricane Victims Through EPA – WaterStep Collaboration

WaterStep worked with EPA researchers at the EPA Test and Evaluation Facility to develop an emergency water treatment system that has helped thousands of people with limited access to safe water.

This lifesaving technology has been used to create safe drinking water for dozens of communities across Puerto Rico since Hurricane Maria struck in September 2017.





COMMON T2 MEANS AND MECHANISMS

- Cooperative Agreements
- Licensing Opportunities
- Facilities Usage
- Partnerships
- Technical Assistance
- Consulting Services

View sample T2 agreements in the FLC's T2 Toolkit:
<https://www.federallabs.org/t2-toolkit/t2-mechanisms>



WHO CARRIES OUT THE FLC'S MISSION?

The FLC Executive Board

The EB is made up of volunteer technology transfer and industry professionals representing federal laboratories, agencies, and research institutions and organizations from across the country.





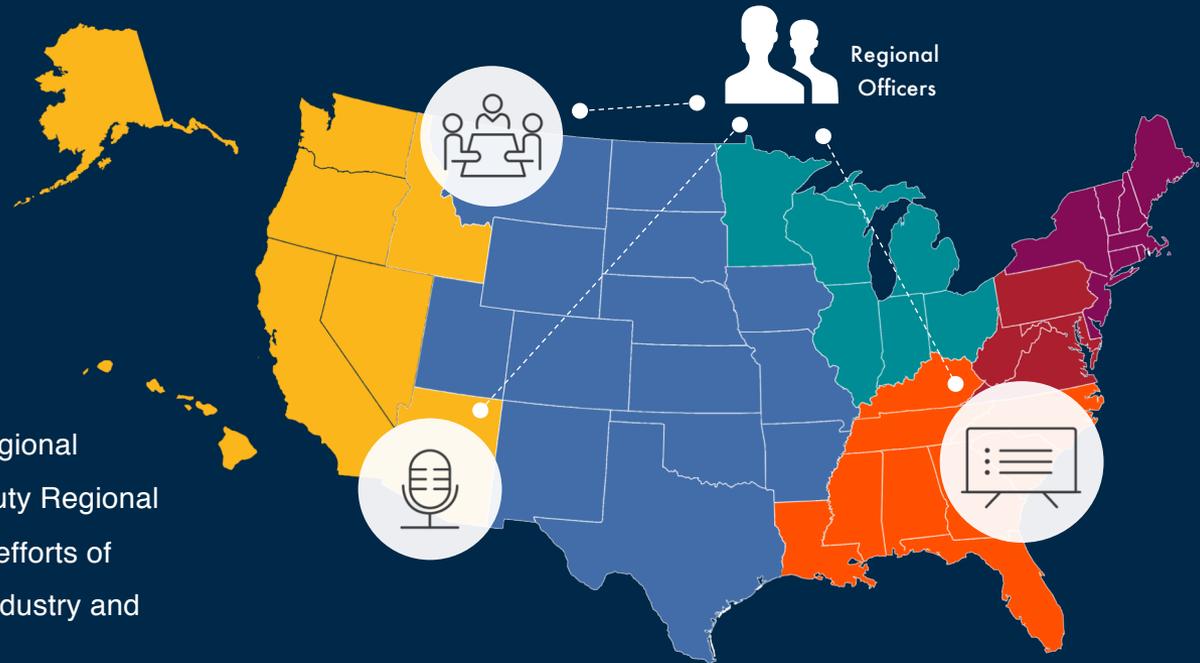
WHO CARRIES OUT THE FLC'S MISSION?

Regional Officers

6 Regions Across the Country have Regional Officers (Regional Coordinators & Deputy Regional Coordinator) that carry out grass roots efforts of advocating FLC resources at various industry and lab events in their respective regions.

Lab and Agency Representatives

Participating organization members who serve as the primary link between their parent agency or lab and the FLC.





How do we carry out our mission?

HOW DO WE CARRY OUT OUR MISSION?

- **We Promote, Educate and Facilitate Tech Transfer** through our hub of resources.
- **Federallabs.org** is the main platform to find all our resources.
- **Awards and Successes, FLC Learning Center, LabTech in Your Life, T2 Toolkit and FLC Business**





Promotion, Education, Tools & Services



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PROMOTE: COMMUNICATION AND RECOGNITION

Success Stories gallery

FLC Awards Program
and Gallery

FLC News

Social Media

FLC Media Center



EDITORIAL CALENDAR
FLC STYLE GUIDE PUBLICATION LIBRARY
VIDEO LIBRARY IN THE NEWS
PRESS RELEASES

The screenshot shows the FLC website interface. At the top, there are navigation links for 'FLC Home' and 'Regions'. The main header features the FLC logo and a search bar. Below the header, a 'News' section is highlighted. The featured article is titled '2019 | A Spotlight on the R&D of Federal Laboratories'. The article image shows a person's leg with a prosthetic foot. At the bottom of the article, there is a logo for the VA (U.S. Department of Veterans Affairs) and the FLC logo (Federal Laboratory Consortium for Technology Transfer). The article text reads: 'Natural Sensation for Lower Extremity Amputees with Multi-contact Peripheral Nerve Electrodes. See inside cover for details.'





Promotion, Education, Tools & Services



EDUCATE: EDUCATION AND TRAINING

FLC Learning Center

E-Learning Courses

Live Streamed Webinars

White Papers



FLC National Meeting
and Trainings



The Green Book/Desk Reference



Awards and Successes; FLC Learning Center; T2 Toolkit (or FLC Business)

FACILITATE: BUSINESS/INNOVATION RESOURCES

T2 Toolkit

T2 Mechanisms Database

Technology Locator

T2 Playbook

FLC Business

T2 Process Success Track

The screenshot shows the FLC Business website interface. At the top, there is a navigation menu with links for ABOUT, SUCCESSES, LEARNING CENTER, FLCBUSINESS, T2 TOOLKIT, and a search bar. Below the navigation is a hero section with the text "FLC Business" and "Your One Stop Shop For U.S. Laboratory Information". A secondary navigation bar includes links for About, Directory, Contact, and Rep Login. The main content area features a 7-step process diagram for T2 success, with each step represented by an icon and a description. The steps are: STEP 1: Identify your needs; STEP 2: Search laboratory resources and technologies; STEP 3: Find a suitable T2 process; STEP 4: Assess the next steps for commercialization; STEP 5: Contact a laboratory rep; STEP 6: Negotiate an agreement path; and STEP 7: Commercialize. The website also includes a search bar with "SEARCHING IN All Categories" and "OPEN FILTERS", and a list of search results including "Brigham Young University (BYU)" and "Bureau of Reclamation (BR)".

https://www.federallabs.org

FLC BUSINESS

ABOUT SUCCESSES LEARNING CENTER FLCBUSINESS T2 TOOLKIT Search

FLC Business

About Directory Contact Rep Login

FLC Business

Your One Stop Shop For U.S. Laboratory Information
Laboratories, Available Technologies, Funding, Programs, Facilities and more

SEARCHING IN All Categories OPEN FILTERS

PUBLICATIONS FUNDING PROGRAMS

Q R S T U V W X Y Z

- Brigham Young University (BYU)
- Bureau of Reclamation (BR)

STEP 1: Identify your needs

STEP 2: Search laboratory resources and technologies

STEP 3: Find a suitable T2 process

STEP 4: Assess the next steps for commercialization

STEP 5: Contact a laboratory rep

STEP 6: Negotiate an agreement path

STEP 7: Commercialize