

A photograph of two scientists in a laboratory setting. On the left, a Black man with a beard, wearing a white lab coat over a blue striped shirt and a blue patterned tie, is looking towards the right. On the right, a woman with dark hair tied back, wearing glasses and a white lab coat, is looking down at a blue clipboard she is holding. The background is a bright, out-of-focus laboratory.

FOCUSED TO **PROMOTE,**
EDUCATE, AND **FACILITATE**
TECHNOLOGY TRANSFER

2015 ANNUAL REPORT
TO THE PRESIDENT AND CONGRESS



FLC

Federal Laboratory Consortium
for Technology Transfer

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Elastomeric Armor for Combat Helmets
Naval Surface Warfare Center, Carderock Division

2015 – Advancing Federal Technologies for Economic Impact



We have introduced several positive organizational changes and implemented new tools and processes for the FLC and its members in Fiscal Year 2015 (FY15). Supporting these upgrades, we decided to completely revise our Strategic Plan and give the most user-facing facets of the organization a complete reboot by introducing a new logo, branding, and mission message. With the FLC serving as a significant resource for the technology transfer (T2) community, it was important that the FLC's image be as recognizable as the federal agencies and laboratories we work to support.

The FLC Strategic Plan, which is comprised of four key goals, is designed to deliver our commitment to our members and to forge new partnerships with industry. Each goal is closely aligned with the Lab-to-Market Cross-Agency Priority (CAP) Goal stated in the 2015 President's Management Agenda, which called for accelerating the transfer of federally funded research and innovations from the lab into the marketplace. The activities we executed in FY15 in support of these goals and this annual report have been reformatted to describe our current activities and progress toward our broad goals.

The FLC's mission is described in a more straightforward manner than ever—to promote, educate, and facilitate technology transfer. To complement that decisive message, in FY15 we implemented new strategic goals that will provide us with a strong foundation for our actions through FY19.

From kicking off the year with our first-ever Tech-to-Market Virtual Forum to advancing the redesign and revamp of our federallabs.org website, the FLC hit the ground running in 2015 to provide the best possible services and tools for our members. The momentum

built from our events, educational training, and awards program garners significant industry exposure for the innovative work that our member laboratories perform every day. The vital exposure that the FLC continues to gain will provide our laboratory technology transfer mission a national platform to connect with industry.

Through the efforts of our committees, regional officers and T2 colleagues, which you will read about in this report, in 2015 the FLC jump-started our newly focused strategic initiatives to benefit the T2 community. Without the help of those dedicated individuals, our common goal of assisting federal laboratories with advancing their technologies for economic impact would not be possible.

Looking ahead to FY16, there is a lot of promise on the horizon for organizational enhancements and network growth. The FLC is eager to continue its FY15 progress in FY16.

On behalf of the members of the FLC, I am pleased to present, in accordance with 15 U.S.C. § 3710(e)(6), the FLC 2015 Annual Report to the President and Congress.

A handwritten signature in blue ink, appearing to read 'P. Zielinski'.

Paul Zielinski
FLC Chair

FLC Fiscal Year 2015 at a Glance

In 2015, the FLC ushered in several big changes.. From delivering game-changing T2 tools to expanding our industry outreach by hosting technology innovation forums, the FLC used 2015 as the year to increase its support of federal laboratories' T2 missions.

Starting in Fiscal Year 2015 (FY15), the FLC implemented a new Strategic Plan based on a recognized need to grow its organizational presence, resources, and value to our members. By instating a Strategic Plan that complements the FLC's overall mission to promote, educate and facilitate technology transfer, the organization is able to maintain a higher-level focus that supports the Administration's lab-to-market goals. This Strategic Plan also provides a sound structure for all FLC committees, regions, and supporting staff to carry out their activities so all yearly goals are achieved.

The FLC is eager to adopt the innovations and changes our members and partners need to keep pace with developments in scientific and technological policy, trends, and over-arching Cross-Agency Priority Goals. It is the organization's aim to continue to improve upon its strengths and to assist with the T2 process at any step of commercialization through our accessible education, training, tools and services.

From FY15, and extending through FY19, the FLC has put the following goals of the Strategic Plan into action:

- Develop FLC members to be impactful leaders in technology transfer.
- Enable effective outreach to industry and other technology integrators and partners by laboratory Offices of Research and Technology Applications (ORTAs).
- Inform and guide national policy initiatives regarding federal laboratory technology transfer, leveraging the vast experience and expertise resident in laboratory ORTAs.
- Promote the economic and societal value of federal laboratory technology transfer.

Throughout the remainder of this Annual Report, each Strategic Plan goal will be expanded upon to review the activities and events of FY15 that provided substantial improvements to the FLC and its growing community.

FY15 Activity Metrics

The following statistics show the FLC's activity performance figures throughout 2015. There has been considerable growth in the organization's tools and services usage, as well as member and industry training participation.

FLC Business

343 Laboratories Listed

2,584 Facilities

9,485 Searches

Top Searches	Q
1. Sandia	
2. Biopharm	
3. Grant	

Available Technologies

17,680 Total Queries

8,405 Distinct Queries

Top Searches	Q
1. Oil	
2. Water	
3. Cancer	

National Awards



26 Laboratories Represented

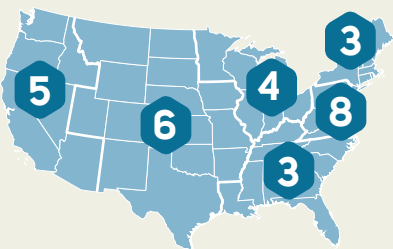
24 Winners in 6 categories

7 Agencies

93 Nominations

Winners by Region: *

Far West – 5 Midwest – 4
Mid-Atlantic – 8 Northeast – 3
Mid-Continent – 6 Southeast – 3



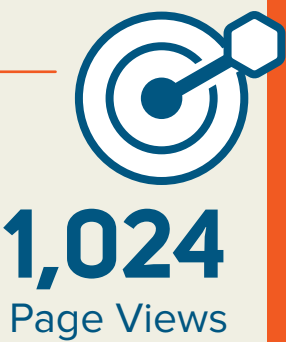
Winners by State: *

California – 3 Ohio – 2
Colorado – 3 Pennsylvania – 1
Georgia – 1 South Carolina – 1
Illinois – 1 Tennessee – 1
Maryland – 6 Washington – 2
New Mexico – 3 West Virginia – 1
New York – 2

Success Stories Database

132 Success Stories and Growing

1,605 Technology Transfer Award Winners



Social Media

843
f
LIKES

2,210
FOLLOWERS

585
in
FOLLOWERS

71
You Tube
SUBSCRIBERS

National Meeting Attendees

421
Attendees

195
Trainees

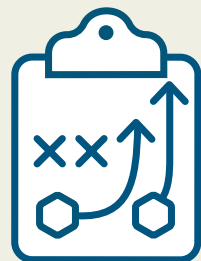
7
Exhibitors

81 Industry Day Attendees

167 First-Timers



T2 Playbook



15 Plays

464 Page Views

*In the Interagency Partnership category, multiple regions and states are represented, resulting in total figures that differ from the total nominations submitted.

Goal 1: Educate and Train

Develop FLC members to be impactful leaders in technology transfer.

Like the progression of science and technology over time, the T2 field is constantly evolving for federal agencies and laboratories. Members must support not only their own agency or lab's T2 goals, but also the Administration's Lab-to-Market Cross-Agency Priority (CAP) Goal —as well as keep up with the technologies their labs are developing daily. To assist with meeting the demands of these initiatives, the FLC offers a wealth of education and training resources so anyone in the T2 community can adapt to the scientific and technological demands of their respective field as they balance constantly changing intellectual property and T2 environment.

Each year our Education and Training (E&T) Committee produces top-notch educational experiences to increase interest and inform the eager minds of our T2 professionals community. In FY15, the E&T Committee focused on increasing the number of online learning courses held during the year. A major theme throughout the 2015 curriculum centered around sharpening technology marketing skills—a skill that many members of FY14 training classes advocated in order to stay consistent with CAP goals.

From continued basic T2 course offerings to in-depth workshops that focused on Cooperative Research and Development Agreements (CRADAs) for seasoned T2 professionals, the E&T Committee contributed valuable educational instruction from its core curriculum to support our members and the overall FLC Strategic Plan. The following subsections provide an overview of the activities that shaped the educational efforts of 2015.

2015 FLC National Meeting

Held in the heart of downtown Denver, Colorado, the 2015 FLC national meeting was an opportunity for federal laboratory personnel to grow their T2 skillset and network with industry. The meeting centered on the theme of "Reaching New Peaks With Technology Transfer"—a befitting overarching idea given the large cluster of innovative think tanks that call Denver home.

Over the course of 3 days and 33 total sessions, attendees were provided with a plethora of educational opportunities: a full day of T2 training, relevant session topics and panels, and the annual Industry Day. With 421 people

from all walks of the T2 community—scientists, engineers, T2 professionals, small businesses, and industry representatives—the FLC national meeting gathered a diverse mix of newcomers and seasoned laboratory personnel to tackle some of the biggest issues in T2.

The meeting officially kicked off with training designed and delivered by the E&T Committee, with the assistance of several seasoned T2 speakers and agency representatives. Courses ranged from T2 for beginners to licensing and negotiation workshops, which covered the ins and outs of marketing and negotiation that T2 offices need when working out the details of technology licensing or cooperative agreements for their laboratory. A record number of 193 attendees participated in training, and all training courses were available for continuing education units (CEUs).

33
SESSIONS

3
DAYS

421
ATTENDEES

"Technology transfer professionals need to work with their laboratory's research and development teams to develop value chains for their innovations."

– Dick Lee, president and founder of Value Innovations, Inc.,
2015 FLC national meeting keynote speaker



Meeting Training Courses:

- **Technology Transfer for Beginners** – essentially “T2 101” for anyone new to the technology transfer field.
- **Licensing and Negotiation Workshop** – offered for T2 professionals looking to understand more about the licensing process at federal labs and how to negotiate a licensing agreement, whether with a government-owned and government-operated (GOGO) lab or a government-owned and contractor-operated (GOCO) lab.
- **CRADA Workshop** – provided a comprehensive overview of CRADAs, strategies, issues, and successful case studies of how labs can easily utilize this vital T2 mechanism.
- **From Discovery to Commercialization** – leading lab scientists, engineers and T2 office personnel provided their best practice strategies for managing T2 projects and developing a commercialization plan for technologies. This new course later was chosen as the theme of the 2016 FLC national meeting, which was held in April in Chicago, Illinois.



“Crowdfunding isn’t all about the money; it’s about gaining awareness and early adopters for your technologies.”

– Ray Burrasca, founder and organizer of Colorado Crowdfunding, speaker during Crowdpowering T2: A New Opportunity for T2 Success

Day two of the meeting opened with a speech by FLC Chair Paul Zielinski and a keynote address from Dick Lee, president and founder of Value Innovations, Inc., who shared his thoughts on the management processes and tools that can impact a company or laboratory to successfully transfer a new technology, product or service. His insights provided a valuable perspective to the day’s sessions and panels, which featured topics such as:

- Crowdpowering T2: A New Opportunity for T2 Success
- Manufacturing and Technology Commercialization
- Lab Directors Panel – featuring George Duchak, Director (former), AFRL-Information Directorate; Dr. Sevim Erhan, Director, ARS Eastern Regional Research Center; and Sally Gutierrez, Director, EPA Environmental Technology Innovation Clusters Program
- Lab-to-Market Agency Outcomes 2015.

Rounding out the second day were the FLC awards ceremony and luncheon honoring 2015 FLC award winners.

The final day of the meeting consisted of the FLC’s annual Industry Day, at which industry representatives from large companies to first-year startups shared their R&D needs with laboratory representatives to get the T2 process rolling. A recap of the 2015 Industry Day can be found under the Goal 2: Outreach to Industry section of this report.

Overall, the 2015 FLC national meeting was viewed as a huge success by those who attended. The T2 training received on the first day is an invaluable service not found at other innovation conferences. The 2016 national meeting in Chicago, which also experienced high attendance, featured speakers from across the country who shared their T2 strategies and the marketing methods that are working to attract partners in their fields.

Strategic Training for T2 Professionals

Aside from the courses offered during the FLC national meeting, the E&T Committee also delivers several other e-courses, webinars, and workshops throughout the year to carry out the themed curriculum. From providing daylong T2 training courses at each of the six FLC regional meetings to separate, in-depth topical workshops, the E&T Committee strives to equip laboratory and T2 office personnel with the resources they need to commercialize their technologies smoothly.

E-Courses and Webinars

To round out the enrichment objectives of the E&T Committee, learning offerings included an update to “The CRADA Process” e-course to better accommodate tablet users, and partnering with the American Management Association (AMA) to deliver special negotiation courses during the year and at FLC regional meetings, which members expressed was a needed topic.



Each of the following courses were extremely interactive and featured a lot of personal attention from instructors:

“Negotiating to Win” – Taught to 29 members and offered at no charge, the course was delivered online for a few hours each week over four weeks for the convenience of members’ budget and travel.

“Negotiation Skills Workshop” - A one-day, comprehensive overview of negotiation worth 0.6 CEU. A total of 63 members attended this training during the 2015 FLC regional meetings held at various locations across the country. Many participants described the workshop as one of the most beneficial training courses they have ever taken.

This year’s live webinar, “All About You,” was a three-part series held over the course of a few months by seasoned instructor Wendy Kennedy. The series used participants’ real-life successes and failures to build lessons on marketing and commercialization. A total of 76 people participated in the live series, and 213 viewed the series on demand.

The participation and feedback received from all of the FY15 training, whether in-person or virtual, were overwhelmingly positive.



2015 Regional Meetings

The online course and webinar offerings provided by the E&T Committee are not the only training that is available to FLC members. Due in large part to the help, coordination and efforts of our six FLC regional coordinators, the annual regional meetings that take place across the country are a major draw for professional T2 training and networking. The regional meetings are a significant part of the FLC’s training mission to prepare T2 office personnel with the best strategies and skills to succeed in marketing and commercializing their technologies.

Taking place in states from New York to California, each of our regions hosted annual meetings that encompassed valuable training sessions, technology panels, awards presentations and industry networking opportunities designed to promote, educate and facilitate T2 for FLC laboratory members and their partners.



REGION	LOCATION	NOTABLE TRAINING SESSIONS
Northeast	Brookhaven National Laboratory (BNL) – Upton, NY	BNL Office of Strategic Partnerships and its engagement with regional economic development organizations Status of Princeton University’s lawsuit over nonprofit status and royalties from IP
Mid-Atlantic	Rockville, MD	Best Practices Panel: USDA’s New Material Transfer Research Agreement
Southeast	Y-12 National Security Complex – Oak Ridge, TN	Negotiating Skills Workshop TBED and Venture Capitalist presentation
Midwest	Cleveland, OH	Building a Customer Relationship The Improvisation Edge: Effective and Engaging Communication Tools
Mid-Continent	Joint meeting with Far West Region – San Diego, CA	Bridging the Gap for Commercialization Success: Inside and Outside Perspectives
Far West	Joint meeting with Mid-Continent Region – San Diego, CA	IP Portfolio Strategy, Analysis and Characterization



Looking Forward to 2016

FY16 brings a new focus to the E&T Committee, which has big plans for the second year of carrying out the organization's Strategic Plan. Along with continuing its focus on burst learning and alternative ways to deliver valuable T2 training and resources to members, the E&T Committee has decided to give each quarter of the calendar year a theme that reflects topics of need and interest for members.

Working closely with the Communications Committee, the E&T Committee helped to produce a short video, called "What Is Technology Transfer?", that explains the basics of the T2 process and tells how to work with federal laboratories and access federal resources for R&D purposes. The video is now available on the FLC's YouTube channel, youtube.com/federallabs.

Also in the works for the E&T Committee is the development of a certificate program for the completion of FLC coursework, as well as an external training programs database as part of the FLC's larger federallabs.org website redesign. The Committee is also developing an online scholarly journal based on requests from members, and is in the process of reviewing white papers to assemble the journal, which will be geared toward the federal laboratory audience.

Another E&T plan kicked off in FY16 as part of the training schedule is the establishment of a mentorship program whereby newcomers can learn valuable insights from seasoned T2 experts. The program features monthly online "office hours" held by an experienced T2 professional when individuals new to T2 can log in and ask questions about the commercialization process.

"[The] research and development being done right here... not only gives a great place for young researchers to come and ply their trade, but also ends up creating all kinds of spinoffs that create good jobs and good wages. I want the next great job-creating breakthroughs—whether it's in energy or nanotechnology or bioengineering—I want those breakthroughs to be here in the United States of America, creating American jobs and maintaining our technological lead."

– President Barack Obama, speech at Argonne National Laboratory, March 15, 2013



Goal 2: Outreach to Industry

Enable effective outreach to industry and other technology integrators and partners by laboratory Offices of Research and Technology Applications.

The scientific and technological R&D that our federal labs conduct cannot accomplish our commercialization mission without the help of industry partners who see the potential of our new technology. Significant efforts from laboratory and T2 personnel have gone into advocating and marketing the technologies they develop so investors can see the potential applications that can benefit their businesses—efforts that have been at the forefront of federal laboratory objectives that have been highlighted recently in the Lab-to-Market Cross-Agency Priority (CAP) goal.

The FLC realizes that effective communication and outreach among agencies, labs and industry is a significant part of the T2 process, and has taken several steps towards enhancing its efforts in fostering collaborative partnerships between the public and private sectors. As a leader in implementing lab-to-market strategies in the T2 community, the FLC provides a stable, long-term platform for industry to learn about the federal T2 process and shows how working with federal laboratories benefits industry, as well as improves the overall health of our nation’s economy.

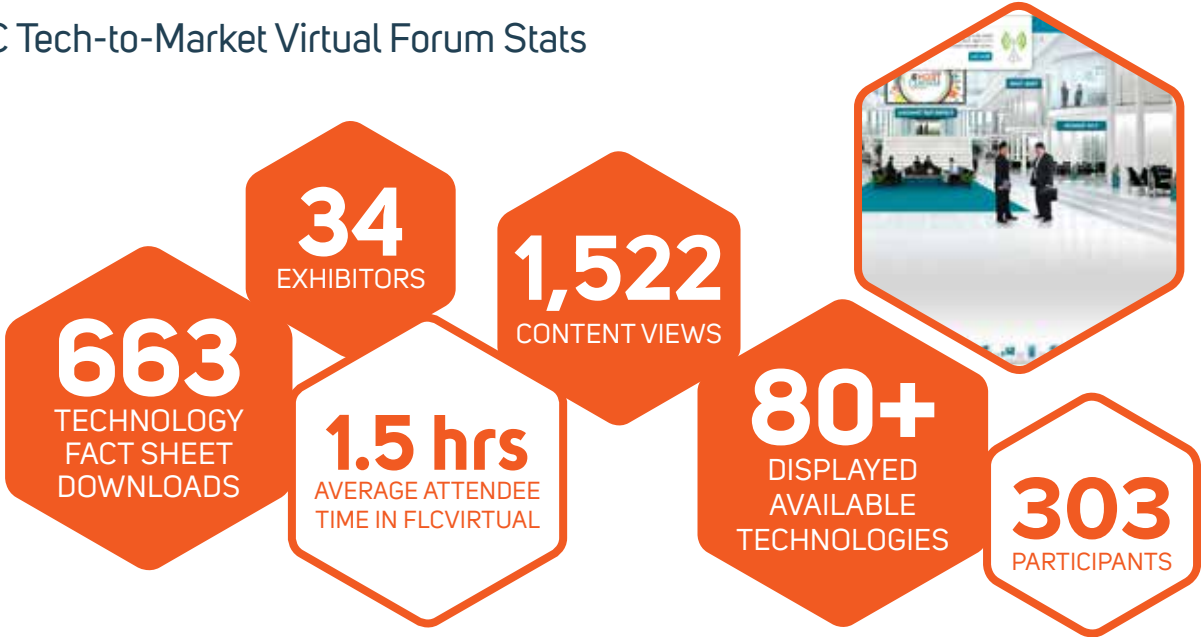
Over the course of FY15, the FLC made several strides in sticking to Goal 2 of the Strategic Plan, and increasing the connections made between the laboratories and industry. From partnering with like-minded organizations to enhancing our T2 tools and services and hosting innovative forums, in 2015 the FLC blazed a new path for federal labs and industry to pursue together.

FLC Tech-to-Market Virtual Forum

To kick off the Strategic Plan activities in 2015, the FLC held a Tech-to-Market Virtual Forum (TTMVF) that showcased more than 30 laboratories and over 80 ready-to-transfer federal technologies to industry attendees. The Virtual Forum, along with yearly regional meetings and the 2015 FLC national meeting, provided a convenient opportunity for labs to market their technologies to potential partners and jumpstart the T2 process.

Over 300 participants converged online November 5 – 6 to view educational T2 webinars, visit federal laboratory

FLC Tech-to-Market Virtual Forum Stats



booths, discover dozens of available technologies, and chat with lab professionals about licensing or accessing federal resources. Offered at no cost to attendees, the TTMVF was geared to an industry audience and featured both live and on-demand sessions covering such topics as:

- Technology Valuation: How to Negotiate a Fair Deal by Determining What Your Technology Is Really Worth
- Get Results With FLCBusiness
- Lab-to-Market the Road Ahead.

On-demand webinars of past T2 training and 2014 FLC national meeting recorded sessions were also available for attendees to view. The FLC Virtual Forum space remained open for attendees and anyone unable to attend the live sessions to explore the laboratory exhibitor booths and available technology fact sheets, and to view all of the webinars on-demand through June 30, 2015.

The FLC’s main goal for the event was to foster laboratory–industry relationships and provide a low-cost, convenient space for labs to easily display their ready-for-transfer technologies. Feedback from the event was extremely positive, with attendees responding that not only did they enjoy the forum, but that they “will advertise and encourage [other] T2 professionals and researchers to attend.”

Given the success of TTMVF, the FLC Executive Board has decided to hold another virtual forum that will be geared to an industry audience and focus on water-related technologies. The FLC Tech Focus virtual forum is set to take place in October 2016.

Industry Day at the 2015 FLC National Meeting

In addition to the day-long training courses and numerous session panels and speakers presented at the 2015 FLC national meeting, the FLC and its National Advisory Council (NAC) hosted the annual Industry Day. The event offers a great space for T2 professionals, investors, venture capitalists, businesses, and industry representatives to network and learn about technology needs, allowing for potential collaboration opportunities.

This year's Industry Day opened with keynote speaker Brad Feld, co-founder of Foundry Group and Mobius Venture Capital. As an early-stage investor of successfully commercialized technologies like the Fitbit® and video game developer Zynga, Feld shared his experiences and best approaches for how larger corporations and federal labs can work successfully with startups.

"If working for a hierarchical organization, shift your frame of reference by viewing startups as a node to help your organization."

– Brad Feld

Industry Day by the Numbers



A total of 81 industry representatives attended Industry Day, which also featured the following well-received sessions:

- **Tech Transfer Best Practices and Challenges of Local/Regional Companies** – Featured a panel of Colorado-based company representatives and other non-government entities who shared their commercialization success stories from working with federal labs in the region.
- **Industry Technology Needs Panel** – Five Fortune 500 company representatives of the Industrial Research Institute (IRI) shared their top-level technology needs, with the goal of allowing federal laboratories to identify potential collaboration opportunities (e.g., technology licensing, collaborative research, etc.) and explore specific arrangements through follow-up dialogue. Companies represented on the panel were BASF, PepsiCo, Mars, Inc., Goodyear Tire and Rubber, and Sherwin Williams.
- **Burning Questions for the Technology Transfer Professional** – Serving as a forum for T2 practitioners to share their best strategies, this session allowed open Q&A about tech transfer “hot topics” such as working with startups and software licensing.
- **Prize Competition Authority Under Stevenson-Wydler Act and America COMPETES Act** – This session reviewed the new open innovation mechanism for federal agencies to harness the innovation capacity of the American public and private sectors to solve problems, spur innovation, and rapidly commercialize new technologies.

Along with the session panels and networking activities, Industry Day also featured several laboratories that exhibited their award-winning technologies and booths for industry and nonprofit organizations such as Elsevier, Collective IP, Development Capital Networks, ktMINE, wbt-Open Innovation, Unmanned Aerial Systems Open Innovation Forum, and Volpe – The National Transportation Systems Center. The FLC also unveiled its new interactive booth exhibit, which shows how the T2 process works through visual examples of well-known, successfully transferred technologies like GPS and the HPV vaccine Gardasil®. The booth is outfitted with an interactive touchscreen monitor where attendees could search the FLCBusiness database for federal resources.

Thanks to the support of our exhibitors, speakers and participating business panelists, Industry Day was a huge success and a step toward a more commercialized future for many of the federal technologies and tech need areas that were presented.








“Federal labs are critical for providing cutting-edge facilities, expertise and equipment resources for businesses to use and advance their technologies and research.”

- Dr. Amy Prieto, Associate Professor of Chemistry, Colorado State University, Industry Day panelist

Atmospheric Chemical Kinetics System
National Oceanic and Atmospheric Administration

Fortune 500 Technology Needs

Through the FLC’s ongoing strategic relationship with IRI, Fortune 500 companies were able to present the following technology needs to federal lab representatives in hopes of reaching out for laboratory expertise and initiating the T2 process:

				
<ul style="list-style-type: none">• New food industry manufacturing processes• Minimally processed fruits and vegetables• Chemical/enzymatic modification for advantaged food products	<ul style="list-style-type: none">• Visualization technologies• Product application methods• Maintenance and durability	<ul style="list-style-type: none">• Environmentally friendly packaging• Low-energy processing methods• Additives to extend product shelf life	<ul style="list-style-type: none">• Plant science health• Construction chemicals• Water treatment methods	<ul style="list-style-type: none">• Stretchable electronics• Sensing technologies and sensors• Manufacturing modeling

FLC Outreach Activities

Aside from their day-to-day work at some of our nation’s most innovative laboratories, FLC board members and regional officers make the time to champion the significant impact technology transfer can have on our economy, as well as the wealth of opportunities industry and businesses have available to them by working with federal labs. Through attending regional events and conducting technology-based economic development (TBED) studies on behalf of the FLC, our members and officers made great use of 2015 to maximize partnerships and engage the T2 community regarding the benefits of public-private collaboration.

FLC Regional Efforts for Public-Private Partnerships

As many in the T2 community know, tech transfer is definitely a contact sport, and outreach to other like-minded organizations helps the FLC grow its network with industry. Thanks to the grassroots efforts of FLC regional coordinators and deputy regional coordinators, the FLC has made great strides building industry contacts that federal laboratories can reach out to and market their technologies.

From hosting laboratory tours during regional meetings so industry partners can view firsthand the resources available to them, to updating regional newsletters with the latest laboratory patent and technology developments in their region, FLC regional coordinators work tirelessly to disseminate laboratory information and bridge the gap between the public and private sectors.

Targeting Regional TBED Connections

Utilizing introductions from the FLC State and Local Government (S&LG) Committee, regional coordinators used FY15 to implement pilot projects with the help of the State Science & Technology Institute (SSTI), a national nonprofit organization dedicated to improving initiatives that support economic growth through science, technology, innovation and entrepreneurship.

The FLC Far West Regional Coordinator worked closely with SSTI to plan, research, promote, and administer an ongoing regional pilot project that will survey regional TBED organizations regarding how to improve communication and the marketing of federal lab facilities, resources and available technologies.

A similar study to one currently being conducted throughout several regions has already been successfully carried out in two phases in the FLC Midwest Region, where over 250 TBED entities were identified as potential laboratory partners. The first phase of the Midwest pilot involved research conducted by the Indiana Business Research Center (IBRC) of the Kelly School of Business at Indiana University. The second phase was conducted by Innography, using an online software program that provides intellectual property (IP) business intelligence by correlating patent and trademark data with financial, litigation, and other key business information.

The TBED entity recommendations and the identified innovation themes collected from both pilot phases have spurred the Midwest Region to move into a third phase that will focus on specific industries to which labs can market their technology applications. Based on findings from phases I and II, the Midwest Region is now targeting collaboration opportunities with the orthopedic industry.

The FLC Southeast Region is also instituting its own pilot program with A Startup Quest® entrepreneurship training program. This program lets laboratories obtain commercial assessments of their technologies available for licensing. Currently underway, these assessments will prove beneficial to labs and their technology transfer offices, enabling them to tailor their marketing strategies to the appropriate industry audiences.

In FY15, the Mid-Atlantic Region planned the first in a series of innovation forums that will be held in October 2015 and May 2016. FLC Mid-Atlantic officers will hold these forums throughout the region to bolster the federal resources available to businesses, as well as to survey the commercial technology needs of industries that call the Delmarva Peninsula home.

After working with regional economic development offices to determine growing industries, the Mid-Atlantic Region will use the forums to focus on mapping, satellite, and sensor technologies—all areas where federal labs can provide numerous opportunities for T2 collaboration. The forums will draw together regional academic institutions, large and small corporations, and regional federal laboratory representatives to network and discuss technology development strategies.

Regionally Attended Industry Events

In addition to building important relationships with TBED entities and technology clusters throughout the country, FLC regional coordinators and deputy regional coordinators also attended industry-centric conferences and meetings to advocate FLC resources and share the latest technology developments by laboratories in their region. These efforts by regional coordinators to bring awareness about the opportunities open to businesses build bridges between the public and private sectors. Their value in supporting the FLC’s mission, along with carrying out their own agency’s endeavors to meet CAP goals, have proven indispensable to the FLC’s progress in advancing T2.

The following list is a small snapshot of the events FLC regional officers attended on behalf of the FLC and their parent agencies. Each event was carefully considered for attendance rate and targeted attending potential laboratory and organization partners.

EVENT	LOCATION	DATE
Technology Showcase	Boulder, Colo.	10/9/14
Indiana Technology Commercialization Summit (TCS)	Indianapolis, Ind.	12/1–2/14
SPIE Photonics West Exhibition	San Francisco, Calif.	2/10–12/15
N.J. Domestic Security Planning and Preparedness – Advancing Innovation for First Responders	Trenton, N.J.	2/8/15
Innovation N.J. – SDP Industry Forum 2015	Princeton, N.J.	4/9-10/15
2015 Navy Opportunity Forum	Crystal City, Va.	6/1-3/15
SBIRx-Ignite	Washington, D.C.	6/16/15
Montgomery County Fed TechNet	Rockville, Md.	6/25/16
2015 APLU Annual Meeting	Indianapolis, Ind.	8/31/15
N.J. Technology Council Venture Conference	Iselin, N.J.	3/31/15

State and Local Government Industry Endeavors

In addition to helping to open communication between SSTI and FLC regional coordinators regarding TBED studies, the S&LG Committee has been busy seeking new avenues and economic development programs for federal innovations to flourish at state and local community levels.

The S&LG Committee Chair participated in an SSTI two-day senior leadership conference that focused on the best strategies for leveraging technology-based economic methods and tools to further the development of innovation clusters throughout regional centers. Attendees used the synergy created during this conference as a basis for stimulating economic growth and jobs based on state-of-the-art technologies. As the focal point for federal technology access, the FLC used this conference as an opportunity to support these initiatives by extending the T2 expertise, tools and services of its board members as presenters during the 2015 annual SSTI Conference in Oklahoma City, Okla.

The S&LG Committee plans to strengthen its relationship with SSTI through further collaboration with regional coordinators and FLC network colleagues nationwide to leverage new technology initiatives. Currently, the committee is investigating participation in a regional innovation zone in New Jersey centered at the county level, with the goal of determining the involvement necessary to positively impact outcomes and access to local federal labs.

Supporting Minority Business Development

Much like its relationship with SSTI, the FLC began a new effort to support the minority business community in partnership with the Minority Business Development Agency (MBDA). FLC resources and connections can be of value to minority businesses for the R&D support they need to accelerate their business through participation in federal T2 activities. The MBDA has established an Inclusive Innovation Initiative (I-3) Program with the FLC that is primarily focused on outreach, education, and establishing a framework for public-private tech transfer regional ecosystems. The FLC was proud to partner with MBDA as both organizations continue to grow our joint lab-to-market programs and collaborations.



At the Department of Commerce MBDA training conference in New Orleans, La., the FLC Chair, DC Liaison, and other board members gave presentations explaining how MBDA clients, i.e., minority businesses, can take advantage of federal resources to support its business activities through the T2 missions set forth by federal labs.

FLC presenters also showcased the valuable T2 tools and support many of these businesses need to take their innovations to the next level and succeed in the marketplace. The FLC has also supported the MBDA by offering its resource assistance to all 44 MBDA business centers during agency webinars and at regional conferences, and provided a designated space during FLC national meetings for the organization to broadcast its lab-to-market mission goals.

National Outreach Activity

The following chart represents some of the different innovation conferences and technology industry events where FLC board members participated on behalf of the FLC to showcase available technologies, the significant impact technology transfer has on



R&D for Particle Accelerators
Fermilab

“Technology transfer success isn’t always measured by getting a technology to market; it’s also about growing our laboratories’ industry network.”

– Thomas Stackhouse, NIH – National Cancer Institute, Technology Transfer Center

our economy, how the process works and the various options for working with a federal lab, as well as to review FLC-developed resources, tools and services to industry.





EVENT	LOCATION	DATE
Department of State (Office of Science and Technology Cooperation) for Indonesian S&T Delegation	Washington, D.C.	10/15/14
DOC Minority Business Development Agency training conference	New Orleans, La.	7/21-23/15
2015 Association of University Technology Managers (AUTM) Meeting	New Orleans, La.	2/23-26/15
Department of State (Office of S&T Cooperation) for Oman S&T Delegation	Washington, D.C.	2/5/15
World’s Best Technologies – Open Innovation (WBT-OI) Conference	Stillwater, Okla.	9/28-30/15
Makers Faire (sponsored by the White House and OSTP)	Washington, D.C.	6/12-13/15
U.S.-Israel Science and Technology Foundation	Washington, D.C.	2/26/15
NIH Research Festival	Bethesda, Md.	9/16/15
White House “Demo Days”	Washington, D.C.	8/4/15
National SBIR/STTR Conference	National Harbor, D.C.	6/15/15
TechConnect World Innovation Conference	Washington, D.C.	6/14-17/15

Tools and Services to Aid Industry

The FLC is always looking to boost its products and assist industry partners with the tools and services they need to open the door to federal resources and demystify certain aspects of the commercialization process. In 2015, the FLC created the Laboratory and Business Systems (LaBS) Committee to focus on pivotal ways the organization’s tools and services can be shaped to better serve our laboratory members and industry partners.

Approved in April 2015 by FLC voting members, the new LaBS Committee directly supports the FLC’s current tools: the Available Technologies Tool and FLCBusiness, as well as the Technology Locator Service. Each of these tools offer a gateway into the laboratory system, and is utilized by laboratories for cross-agency collaboration, as well as by non-government organizations and entrepreneurs who are in search of technologies, facilities and/or accessible laboratory equipment.

Tools of the T2 Trade

	<p>FLCBusiness</p> <p>FLCBusiness is a comprehensive search database designed for industry, agencies, and academics alike to search the myriad federal laboratories, facilities and equipment, programs, and funding opportunities available to aid business development and accelerate the T2 process.</p>	<p>343 Laboratories Listed</p> <p>2,584 Facilities</p> <p>9,485 Searches</p>
	<p>Available Technologies Tool</p> <p>The FLC Available Technologies Tool (ATT) provides a free, one-stop shop to locate licensing opportunities for a particular type of technology anywhere in our national system of federal labs and research centers.</p>	<p>17,680 Total Queries</p> <p>8,405 Distinct Queries</p>
	<p>Technology Locator Service</p> <p>The FLC Technology Locator is a federal laboratory matchmaker for industry and other tech seekers who need help identifying laboratory resources. The Locator can respond to any specific technology need, as well as offer referrals to other federal resources.</p>	

FY16 – Launching a Hub of T2 Communication

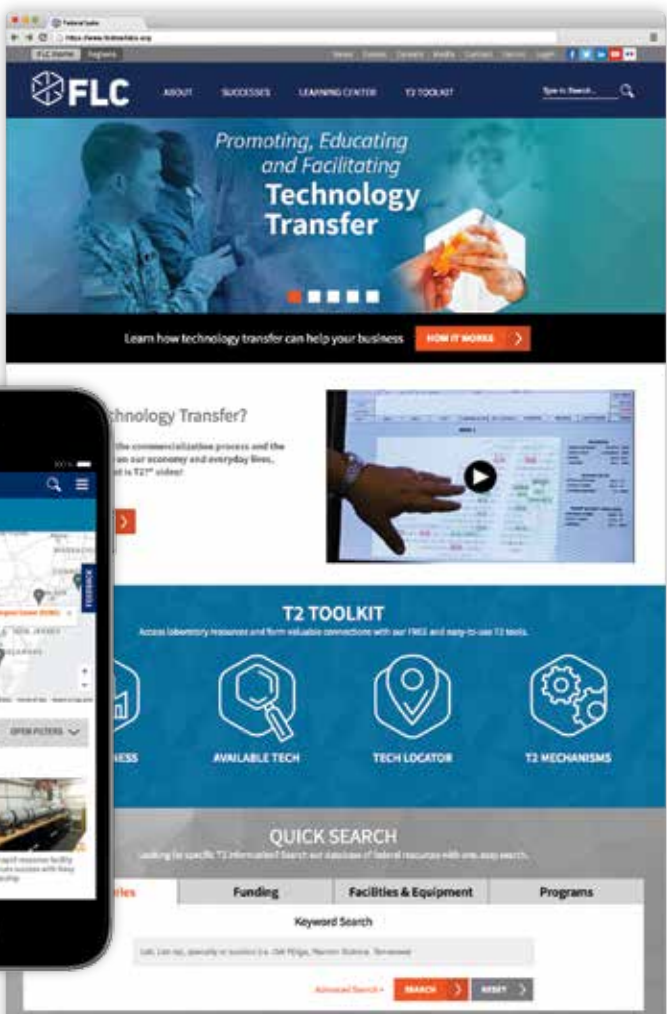
To continue its industry outreach efforts, the FLC has big plans for FY16 that are currently being carried out. The start of 2016 featured the launch of a new, interactive federallabs.org website, complete with a sleek and modern design to complement the fresh, new FLC branding that was released during the 2015 FLC national meeting.

The site houses several new and enhanced features, including:

- An updated T2 Agreements database
- Searchable success stories and awards gallery
- Forum for industry representatives to seek opportunities and chat with T2 experts
- “What Is Technology Transfer?” video to help industry understand the process, benefits and “how-to” of working with a federal lab.

The new site is also home to the T2 Toolkit—a section completely dedicated to breaking down the T2 process so it is more relatable to industry visitors. All of the tools and services that agencies and industry have come to rely on—such as the ATT, FLCBusiness and the Technology Locator Services—can be found in the T2 Toolkit.

Planning for an enhanced version of the FLC’s latest business development search tool—a project called FLCBusiness 2.0—is currently underway as well. The vast improvements being made to the current FLCBusiness database will feature an automatic feed of laboratory data to Data.gov and integrating the ATT to be an all-in-one, upgraded T2 search tool. The new tool will pull in available federal technologies from laboratory sites automatically, and will be the only search tool and database of its kind for government and industry use that is specifically designed to aid business development and accelerate the commercialization process.



Goal 3: Strategically Supporting National Policy

Inform and guide national policy initiatives regarding federal laboratory technology transfer, leveraging the vast experience and expertise resident in laboratory Offices of Research and Technology Applications.

Through the initiatives set forth by the Administration’s Lab-to-Market CAP goal, FLC endeavors during FY15 were in full swing as federal agencies and laboratories refined their science and technology focus to incorporate commercialization efforts as a top priority. The FLC continues to be the major point of implementation for many of the Lab-to-Market CAP Goal milestones.

The FLC worked diligently in FY15 to support each of the Office of Science and Technology Policy’s (OSTP) major sub-goals associated with the CAP Lab-to-Market initiatives. The diagram on the next page shows the actions executed by the FLC in support of the Administration’s major sub-goals.

Providing Imperative T2 Resources



When it came time to implement its FY15 activities, the FLC set out to furnish the T2 resources that would provide the most impact in supporting the Administration’s Lab-to-Market goals. Whether through its education services or publication resources, the FLC strives to offer easily accessible information that helps to professionally develop both laboratory members and their private-sector partners so they achieve their market objectives.

White Papers

Of the most readily available resources that the FLC has to offer, our collection of downloadable white papers presents a range of general “how-to” topics to more specific agency policy topics. In 2015, the FLC released two white papers that briefed members on the “Basic Understanding of Intellectual Property” and “Federal Laboratory Designations.”

Basic Understanding of Intellectual Property (IP) – Written by experienced patent attorney and IP specialists, this white paper provides a general overview of the various aspects of IP protection in the United States, including effects of the America Invents Act.

	
Develop Human Capital Expand the number of private-sector individuals with T2 experience by offering technology transfer fellowships within research agencies.	Education and training courses and materials, T2 Playbook reference, FLC national and regional meeting training
Empowering Effective Collaborations Increase the priority level of R&D commercialization activities and outcomes to be consistent with agency missions and commercialization strategies.	Industry Day, Technology Locator service, T2 mechanisms database, regional TBED pilot programs, FLCBusiness laboratory profile data
Opening R&D Assets Increase the use of federally funded research facilities by entrepreneurs and innovators.	Available Technologies Tool, FLCBusiness facilities and equipment data, Tech-to-Market Virtual Forum
Fueling Small Business Innovation Optimize the management, discoverability, and ease of license of the 100,000+ federally funded patents by making data on all Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) solicitations available to third parties in real time.	SBIR/STTR focused sessions at regional and national meetings, ready-for-transfer technology news and social media promotion, FLCBusiness funding and programs data
Evaluating Impact Report on metrics that capture R&D commercialization inputs and outputs (Kalil & Wong, n.d.) ¹ .	FLC awards program, collection and curation of T2 success stories database, S&LG 2015 Federal Laboratories and State and Local Governments success story publication

Federal Laboratory Designations: GOGOS, GOCOS, AND FFRDCS...OH MY! – Co-authored by T2 professionals from Los Alamos National Laboratory and the Technology Transfer Center at NIH’s National Cancer Institute, this paper describes the basic differences and similarities among federal laboratory designations, namely government-owned, government-operated (GOGO) labs; government-owned, contractor-operated (GOCO) labs; and federally funded research and development centers (FFRDCs).

FLC National Meeting Policy and Programs Sessions

The FLC also centered the following 2015 FLC national meeting sessions around relative CAP Lab-to-Market policy information and programs to keep members up-to-date on the latest initiative developments.

¹Kalil, T. and Wong, J. (n.d.). Cross-Agency Priority Goal: Lab-To-Market. Retrieved from <https://www.performance.gov/node/3395/view?view=public>.

Lab-to-Market Agency Outcomes 2015

Representatives from various agency innovation offices provided an update on agencies’ activities related to the Lab-to-Market initiative and accelerating research breakthroughs from the national labs to support U.S. economic growth.

Prize Competition Authority Under Stevenson-Wydler Act and America COMPETES Act

Speakers from OSTP, the Federal Challenge and Prize Program, and NASA’s Center for Excellence for Collaborative Innovation (CoECI) discussed a new open innovation mechanism for federal agencies to harness the collective innovation capacity of the American public and private sectors to solve problems, spur innovation, and rapidly commercialize new technologies.

T2 Plays to Drive Commercialization

Another extremely helpful resource guide created in FY15 was the T2 Playbook—an online compilation of 15 key “plays,” or best practices, currently being utilized at federal laboratories nationwide to improve the T2 process.

Some of the plays included in the T2 Playbook provide direction in the following areas:

- Encouraging entrepreneurship internally by utilizing rehired authorities
- Empowering, training, and rewarding researchers
- Marketing lab technologies and lab resources to industry
- Building partnerships through Partnership Intermediary Agreements and regional networks
- Considering licensing structures that meet the needs of small businesses
- Broadening the use of licensing authority for the research community.

The Playbook’s detailed case studies provide a solid, documented reference of how other agencies are using particular authorities and T2 mechanisms to achieve their T2 mission goals. The FLC sought existing agency resources and programs that would strategically foster effective collaborations among agencies and laboratories.

Leveraging Comprehensive Data for Business Innovation

One of the most crucial pieces of the CAP initiative is providing an open line of communication and information between the public and private sectors so federal resources can be accessed to help industry R&D thrive. Through the Administration’s Open Data Policy—which calls for government agencies to release their information resources and increase interoperability and openness to fuel entrepreneurship and promote transparency—businesses and inventors are able to obtain the government data and services they need to grow.

Since the release of the Open Data Policy and the launch of data.gov, the FLC has invested much of its time and energy to creating an all-encompassing business resource tool that parallels the Administration’s call for government data accessibility and accountability. The FLC’s creation and FY14 launch of FLCBusiness.com answered that call by establishing the first comprehensive federal search tool that makes it easier for laboratory and industry users to find the resources they need in one place.

Through an automatic feed from data.gov and the continuous crawling of agency and laboratory sites, the FLCBusiness database locates and houses the following federal resource information that any eager entrepreneur or innovator can search and use to accelerate their R&D:

- Federal laboratory profiles
- Funding opportunities
- Facilities and equipment
- Available government programs.

From the time FLCBusiness was launched, the FLC has continued to add data and groom the site’s search functionality for users, and the Facilities and Infrastructure Subcommittee of the Committee on Homeland and National Security have made further advancement of the database a strategic goal.

The Future of FLCBusiness

As stated in previous goal sections of this report, several improvements are well underway for a full agile development effort to make FLCBusiness 2.0 an even more comprehensive functioning database and search engine for members and users to utilize as they navigate the T2 process.



Major development work on FLCBusiness 2.0 in FY16 will incorporate the FLC’s Available Technologies Tool into the database and search capabilities. The newly designed system will provide all of the federal laboratories with a web-based repository for all information and technologies from their lab, and provide widgets to obtain access to this data for display. In addition, all data included in FLCBusiness 2.0 will be made available as an open data set on data.gov and updated daily. We have many great features planned that will be revealed at the launch, currently scheduled for the end of FY16. These improvements will enable FLCBusiness 2.0 to truly become a “one-stop shop” for all federal laboratory technologies and resources.

Looking Forward to FY16 Policies

During FY16, the FLC will continue to strategically structure its activities to complement CAP goals and to support labs with the tools and services needed to bring their innovations to market. One of the FLC’s plans for the year ahead involves improving the new discussion forum that was launched with the improved federallabs.org website. The FLC Forum feature provides a much-needed space for T2 personnel from all agencies to share and discuss policy and publications relevant to developments in government policy dealing with IP, licensing, trade, science and technology.

This new space also gives newcomers to T2 the opportunity to seek advice and ask questions about the T2 process to experienced experts in the field, as well as to view partnership and T2 career opportunities. To date, the Forum—along with the E&T Committee’s new Mentorship Program, which fields questions through an online meeting space once a month—has received an encouraging amount of interaction among visitors, and no doubt will continue to grow as the FLC enhances the current features of its newly launched site.



Aside from choosing pertinent national and regional meeting session topics that correlate with the latest OSTP initiatives, the FLC plans to continue dispersing legislation tracking and updates from Capitol Hill via our DC Liaison’s “DC Dispatch” and “DC on T2” bi-monthly news columns. These columns cover the latest and greatest of science and technology policy developments that keep our members as informed as possible.

To keep up with digital policies, the FLC added its organizational information to the U.S. Digital Registry for other agencies and organizations to search and contact for assistance. The Digital Registry is accessible to valid federal government employees and contractors, and serves as the main listing for agencies, citizens and developers to confirm their official government accounts, i.e., social media accounts, public-facing collaboration accounts, mobile apps, and mobile websites.

New Year, New Ways to Promote Technology Needs

FY16 will herald the start of a new FLC initiative called FLC Tech Focus—an annual spotlight on a specific technology that addresses a public need and supports both government-wide lab-to-market goals and federal laboratories’ research and T2 missions.

Decided by the Executive Board, the 2016 FLC Tech Focus theme will center on the water-related expertise, capabilities, and technologies available at federal laboratories. Given the Administration’s major focus on water-related issues during the White House Water Summit: March 22, 2016, FLC members thought it befitting to expand on the numerous environmental challenges that were discussed and to strategize ways for federal laboratories to apply their R&D to address and provide solutions.

Starting in early FY17, the FLC will hold the Water Innovation Virtual Forum to advocate the Tech Focus initiative and promote federally developed water technologies. The free, one-day online event will provide an easily accessible space for the T2 community to come together with water industry representatives to hear from water policy makers, exhibit and view available water-relevant technologies, and network to form potential partnerships and get the commercialization process flowing.

The FLC Tech Focus will also feature a designated webpage that will highlight theme-related events, news, and success stories. As the initiative objectives grow and technology needs arise, additional Tech Focus-themed deliverables have been created and will be implemented in FY17.



Goal 4: Communicating the Significance of T2

Promote the economic and societal value of federal laboratory technology transfer.

If you ask any average person on the street what technology transfer is, chances are they have little or no clue. Given that \$138 billion taxpayer dollars funded scientific and technological R&D at federal labs and universities in FY15 alone, it is a wonder so few people outside of the public sector are not familiar with the phrase “technology transfer.” Through its numerous communication efforts, the FLC is eager to change that situation and make technology transfer a widely referenced industry term.

As the first part of the FLC’s mission statement to promote, educate and facilitate T2 for its members, promoting the significant effects of T2 is vital to gaining the exposure our federal labs’ groundbreaking R&D, technologies, and successful partnerships deserve. Technologies created to support the warfighter, improve water quality, and develop medical vaccines are federal R&D efforts that have the ability to impact the economy once they are introduced to the marketplace. The societal and economic changes that are spurred on by the commercialization of federal technologies have the possibility to not only create new industries, companies and jobs, but also open new fields of scientific and technological innovation.

FY15 was a year in which the FLC collected, curated, and shared the successes of federal laboratories to grow its T2 community base and build new platforms to create a hub of T2 information that its members and industry can utilize to achieve their commercialization goals. Through yearly publications, weekly emails, daily news and social media postings, the FLC promotes the federal laboratory efforts that drive scientific frontiers and our economy forward.

A Brand New FLC

Among the numerous changes the FLC implemented in 2015, the most forward-facing was the introduction of its new branding and branding message. To celebrate its 30th year since being congressionally chartered, the FLC unveiled its new national and regional logos at the 2015 national meeting. The new branding has a more modern look and feel to echo the revolutionary achievements and innovations of its community.

To accompany the new branding, the Communications Committee also created an updated FLC informational brochure, trade show booth, FLC Style Guide, and other marketing materials to establish consistent branding across all communication channels for both internal and external uses.

The new branding has also played a role in shaping the look and feel of the new federallabs.org website that will be completed in FY16.



Publications That Promote

Since technology transfer is a contact sport, communication functions as the main vehicle by which the FLC reaches not only agency and laboratory members, but members of Congress, industry representatives, scientists, venture capitalists, and other professionals who make up the diverse T2 community. The following are publications and news outlets that the FLC created and produces to showcase the federal technologies, research, partnerships, and activities that federal labs work diligently to complete every day.

FLC Planner – The 2015 FLC Planner featured images of some of our federal laboratories’ most cutting-edge R&D. Some of these images include captures of seasonal climate change research taking place at the U.S. Army Engineer Research and Development Center’s Cold Regions Research and Engineering Laboratory on the Arctic Sea, 3D bioprinting of human tissue models for better therapies by the National Institutes of Health’s National Center for Advancing Translational Sciences, and testing of the Google Glass technology for the Air Force Research Laboratory 711th Human Performance Wing’s Battlefield Air Targeting, Man-Aided kNowledge (BATMAN) group. The Planner was delivered to more than 10,000 recipients throughout the FLC community.

Federal Laboratories and State and Local Governments: Partners for Technology Transfer Success – The FLC State and Local Government Committee used its Federal Laboratories and State and Local Governments publication to develop an awareness among state and local government organizations of the benefits of partnering with federal labs, and the T2 opportunities that can develop from these partnerships. The 2015 edition highlights stories taking place across all FLC regions in areas such as improving systems and operations, developing networks, monitoring the environment, conducting education and outreach, and improving emergency response and medicine.

Annual Report to the President and Congress – This year’s annual report features a new format that complements the FLC’s new Strategic Plan and mission goal statement. The aim of the new format is to provide an improved and straightforward publication that illustrates the breadth and growth of FLC activities as the organization moves forward in supporting lab-to-market initiatives.

Success Stories Database – The FLC’s T2 success stories database houses records of proven commercialization successes that have taken place between federal labs and their industry partners. The featured stories reflect the power of the federal laboratory and agency network, and demonstrate how technology transfer has been proven to have a positive impact on our nation and the global community. As of 2015, the database contains 132 success stories and 1,605 technology transfer awards winners that exemplify how our nation’s investment in federal R&D benefits economic growth.



The success stories database has a major spotlight on the new federallabs.org site and is featured in a gallery format. The FLC broadcasts calls for laboratories and industry partners to submit their stories of commercialization success, and new stories are frequently added to the gallery.

FLC NewsLink – This free monthly e-newsletter reports on T2 news and issues around the federal laboratory system, and includes articles, classifieds, press releases, and events of interest to laboratory, agency, and industry professionals who want the latest commercialization news.

Much like the success stories database, FLC NewsLink was also reorganized in concert with the launch of the new federallabs.org website. The news section was redesigned to complement the sleek layout and user-friendly navigation of the new federallabs.org site. News sections on the new site provide coverage for topics such as T2 policy and partnership news, member labs, FLC announcements, ready-for-transfer technologies, and laboratory spotlights.

Social Media Channels – Through daily postings and interactions on its social media channels (i.e., Twitter, Facebook, YouTube, and LinkedIn), the FLC reaches a broader industry audience when broadcasting technology breakthroughs, new T2 partnerships, available technologies, award winners, and other FLC communication campaigns. With short, quick tweets or Facebook posts that link to relevant articles about T2 news—such as how remote-sensing topographical data from NASA was developed into software to locate underground water—the FLC is spreading the word about the powerful impact T2 can have on everyday lives.

In addition to the FLC’s regularly used social channels, the organization also created a Flickr account in 2015 to share national and regional meeting and award pictures. The FLC plans to bolster its social media activities in FY16 and beyond to strengthen the organization’s brand awareness, publicize its newly enhanced tools and services, and capture a wider industry audience.



Celebrating Commercialization Successes

For over 30 years the FLC has honored the outstanding efforts of the dedicated individuals and teams who work day in and day out to produce new, inventive technologies that can strengthen our economy, society, and environment. In 2015, as in years past, the FLC award winners accomplished impressive scientific and technological R&D achievements that ranged from demonstrating how environmental issues like climate change can be tackled by the power of collaborative efforts, and how the U.S. Army-developed DNA software that has become the most non-hardware-tied DNA mixture software on the market is used to solve forensic mysteries nationwide.

The most rewarding part of honoring this year's FLC award winners is not just their technological or market achievements, but the fact that these groundbreaking technologies have the power to positively impact the lives of millions of people worldwide. It is for that reason that the FLC takes great pride in honoring the scientists, engineers, physicians and their industry partners who continue to push the R&D envelope and create pioneering innovations that benefit us all.

This year, 24 awards were bestowed in the following seven categories:

- Excellence in Technology Transfer Award
- Interagency Partnership Award
- Laboratory Director of the Year Award
- Outstanding Technology Transfer Professional Award
- Rookie of the Year Award
- FLC Service Award – Harold Metcalf Award
- State and Local Economic Development Award.



Award winners represented 7 federal agencies and nearly 20 laboratories. All winners were honored during a luncheon at the April 2015 FLC national meeting in Denver, Colorado. The FLC also promoted the winners via community-wide communications and social media.



FY15 also marked a change in Awards Committee leadership with the introduction of a new chair. In FY16 and FY17, the Awards Committee plans to improve the awards submission process by creating easy-to-use online forms. Also new in FY16, award winners will have the opportunity to participate in a video interview during the 2016 national meeting to explain their award-winning technology. These videos promote laboratory technologies and are available for labs and agencies to use for their marketing advantage.

Awards by the Numbers



Looking Forward to FY16 Promotion Efforts

As the FLC moves forward to FY16, there are several mission-focused projects the organization is eager to complete. Aside from the release of the FLC-produced “What Is Technology Transfer?” informational video, the new federallabs.org site provides a hub of T2 information and activity for members and newcomers to explore and utilize. The new site offers a fresh, modern design that reflects the new branding and branding message; easy-to-use navigation; and three main sections: the Success gallery, the FLC Learning Center, and the T2 Toolkit.



Other features on the new federallabs.org site include:

- Interactive successes and awards map
- FLC Forum for newcomers and experts to discuss relevant T2 topics and seek partnerships
- Careers listing that automatically pulls in T2 careers from USAjobs.gov
- Growing success stories gallery and awards archive
- Publications library
- Redesigned T2 Mechanisms tool with T2 sample agreements
- Easy-to-follow T2 process and success track steps
- FLC “In the News” spotlighting members’ media interviews and publication features
- Numerous other enhancements.

The new website offers something for everyone looking to access T2 resources, utilize FLC tools and services, or learn more about the T2 process. As a major initiative for the Communications Committee, the site is continually enhanced to meet the changing needs of the FLC community.

In addition to launching the new digital face of the FLC, the Communications Committee plans to increase its social media activity and create a streamlined delivery of FLC news with the introduction of a new newsletter, the FLC Digest. The Digest will pull in news, events, and careers from the new FLC website, and eventually regional news, to disseminate to the T2 community once a week. The Committee will also use 2016 to create and launch separate marketing and communications campaigns for the FLC’s Tech Focus: Water Innovation Virtual Forum and the new FLCBusiness 2.0 in conjunction with the E&T, LaBS and Awards committees.

2015 FLC National Awards Categories and Recipients

EXCELLENCE IN TECHNOLOGY
TRANSFER AWARD

- Department of Agriculture**
Apple Rootstock Breeding Laboratory
New Productive, Disease Resistant Apple Trees
- Coastal Plains, Soil, Water, and Plant Research Center
Quick Wash Process for Removing and Recovering Phosphorus from Wastes
- Environmental Microbial and Food Safety Laboratory
Online Imaging for Real-Time Wholesomeness Inspection in Poultry Processing
- Genetic Improvement of Fruits and Vegetables Laboratory
“FLAVORFEST” Strawberry Cultivar
- National Center for Cool and Cold Water Aquaculture
Development and Release of a Disease-Resistant Rainbow Trout Line
- National Wildlife Research Center
Automated Bait Cartridge and Delivery System for Controlling Brown Treesnakes

- Department of Commerce**
National Institute of Standards and Technology
Temperature-Controlled Spherical Magnetic Resonance Imaging Phantom
- Department of Defense – U.S. Army**
U.S. Army Medical Research and Materiel Command
ArmedXpert™: DNA Deconvolution Software
- Department of Defense – U.S. Navy**
Space and Naval Warfare Systems Center Pacific
Solid-State Integrated Crowbar/Circuit Breaker System
- Department of Defense**
National Security Agency
Wireless Intrusion Detection Systems (WIDS)
- Uniformed Services University of the Health Sciences
Development of a Rapid Shiga Toxin Diagnostic Array

- Department of Energy**
Argonne National Laboratory
High Performance Computing Enabling Predictive Engine Simulations for Engine Manufacturers
- Pacific Northwest National Laboratory
Algae-to-Biocrude Oil
- Pacific Northwest National Laboratory
System for Analysis at the Liquid Vacuum Interface (SALVI)
- Sandia National Laboratories
BaDx (Bacillus anthracis Diagnostics)

- Department of Health and Human Services**
Centers for Disease Control and Prevention
Detection of H1N1/Swine and Other Types of Influenza Viruses

INTERAGENCY PARTNERSHIP AWARD

- Department of Commerce**
National Oceanic and Atmospheric Administration, Earth System Research Laboratory
- Department of Energy**
Lawrence Berkeley National Laboratory
Lawrence Livermore National Laboratory
Los Alamos National Laboratory
Oak Ridge National Laboratory
National Aeronautics and Space Administration
Goddard Space Flight Center

LABORATORY DIRECTOR OF THE
YEAR AWARD

- Department of Defense – U.S. Air Force**
George Duchak
Air Force Research Laboratory, Information Directorate

- Department of Agriculture**
Dr. Sevim Erhan
USDA Agricultural Research Service, Eastern Regional Research Center
- Environmental Protection Agency**
Sally Gutierrez
EPA Environmental Technology Innovation Clusters Program

OUTSTANDING TECHNOLOGY
TRANSFER PROFESSIONAL AWARD

- Department of Defense – U.S. Air Force**
Franklin Hoke, Jr.
Air Force Research Laboratory, Information Directorate

ROOKIE OF THE YEAR AWARD

- National Aeronautics and Space Administration**
Kimberly Dalgleish-Miller
Glenn Research Center

FLC SERVICE AWARD – HAROLD
METCALF AWARD

- Department of Energy**
Belinda Snyder
Los Alamos National Laboratory

STATE AND LOCAL ECONOMIC
DEVELOPMENT AWARD

- Environmental Protection Agency**
EPA Environmental Technology
Innovations Clusters Program

2015 Financial Statement

Funding for the FLC

By statute (15 USC §3710(e)(6)), the FLC receives its funding as a stated percentage of the intramural research and development budget of each federal agency for the fiscal year. These funds are transferred to the National Institute of Standards and Technology (NIST) at the beginning of each fiscal year and then transferred by NIST to the FLC to conduct its activities.

Below is a summary schedule of FLC revenues and disbursements as reported on the NIST ledgers, as well as a summary of agency contributions in FY15.

Schedule of Revenues and Disbursements

	2014	2015
Revenues	\$2,844,232	\$3,104,979
Disbursements*		
Contract Support	\$1,142,717	\$1,478,990
NIST Administrative Charges	\$249,989	\$185,932
Committee/Operations	\$821,252	\$745,979
Total Disbursements	\$2,213,958	\$2,410,901

Agency Contributions to the FLC for Fiscal Year 2015

Agency	Amount Paid
Department of Agriculture	\$95,083
Department of Commerce	\$96,928
Department of Defense	\$1,358,752
Department of Energy	\$555,000
Department of Health and Human Services	\$539,120
Department of Homeland Security	\$24,376
Department of Interior	\$51,592
Department of Transportation	\$25,176
Department of Veterans Affairs	\$48,016
Environmental Protection Agency	\$20,312
National Aeronautics and Space Administration	\$248,304
National Science Foundation	\$42,320
Total	\$3,104,979

* Disbursements are made across fiscal years.

FLC Organization

Formed to Accelerate Lab-to-Market Activities

Formally chartered by the Federal Technology Transfer Act of 1986, the Federal Laboratory Consortium for Technology Transfer (FLC) is a nationwide network of over 300 federal laboratories, research centers, and academic institutions that fosters commercialization best practice strategies and opportunities for accelerating technologies out of the lab and into the marketplace.

The Executive Board serves as the FLC’s governing body. It is comprised of four nationally elected positions—FLC Chair, Vice-Chair, Finance Officer, and Recording Secretary—in addition to the Host Agency Representative, six Regional Coordinators, Members-at-Large, and the chairs of eight standing committees (i.e., Awards, Communications, Education & Training, Laboratory and Business Systems, Legal Issues, Planning and Policy, Program, and State & Local Government), who are appointed by the Executive Board. The FLC Executive Board determines organizational policy and direction, as well as establishes the annual budget.

The Executive Board is advised by the National Advisory Council (NAC), which includes advisors from the FLC’s user communities, i.e., industry, academia, state and local governments, and federal laboratories. The NAC Chair serves as an ad hoc member of the Executive Board, as does the DC Liaison. The DC Liaison provides the Executive Board with information regarding T2 legislation, policy, and procedures.

Other participating organization members are federal agency representatives (ARs) and laboratory representatives (LRs). ARs and LRs serve as the primary link between their parent agency or laboratory and the FLC.

To best serve its large and geographically diverse membership, the FLC is organized into six regional subdivisions: Far West, Midwest, Mid-Atlantic, Mid-Continent, Northeast, and Southeast. Each Consortium member laboratory is a member of the region in which it is located. Regional Coordinators (RCs) and Deputy Regional Coordinators (DRCs) manage the technology transfer efforts of the FLC, and carry out the affairs and activities of their region.

The highly motivated T2 professionals who fill each of these positions are powerhouses in their respective fields and the driving force behind improving federal labs’ ability to effectively partner with the private sector. Through their volunteer efforts, the FLC serves as a gateway for industry, government and academia to access federal resources and aid in strengthening our nation’s economic health.

FLC Executive Board (effective October 1, 2016)

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Prepared by the FLC Management Support Office in
conjunction with FLC Chair Paul Zielinski.

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