

Fernanda Psihas
University of Texas at Austin

*On Behalf of the Fermilab UEC,
US LHC UA, and SLAC UO*



Report: 2019 HEP Advocacy Trip

Annual Advocacy Trip

For over 35 years, members of the three major HEP users communities have come together for this visit to Congress.

This effort is possible thanks to the support from:



And participation from the HEP community



Annual Advocacy Trip

For over 35 years, members of the three major HEP users communities have come together for this visit to Congress.

The goal of the trip is to visit:

Congressional offices (meet with their staff)

Congressional appropriations and authorization committee staff

The Administration (Office of Management and Budget and Office of Science and Technology Policy)

Funding agencies (DOE and NSF)

Our message

Thank them for their support
Motivate our ASK

Let me tell you about the P5!

The HEP community making hard choices, cohesively strategizing, and all driven by the science is a BIG deal. We ask for funds for the science that is priority, not just for anything we could do.

Here is how HEP benefits you/us.

How much money is spent in their district (procurements)?

How does HEP benefit society?

... the U.S.?

...education?

...industry/the work-force?

...national security?

These are the exciting questions.

Are they interested in science? Support the ASK and priorities with a BASIC explanation of the science we are pursuing.

These are the exciting projects.

These are the exciting people.

The HEP Field is doing great!

Tell them about our progress, discoveries, plans, etc. Let them know P5 projects are on time and on budget. Do they know about HEP already? Answer their questions, chat about your passion for the science

The U.S. is a global HEP leader.

We highlight how their support allows U.S. science to thrive and lead globally. Point out the projects, discoveries, and inventions that make the U.S. a great place to do HEP.

Material we bring

The U.S. particle physics community asks for your support of the P5 Report's strategic plan by the passage of an appropriations bill for FY 2020 that includes at least:

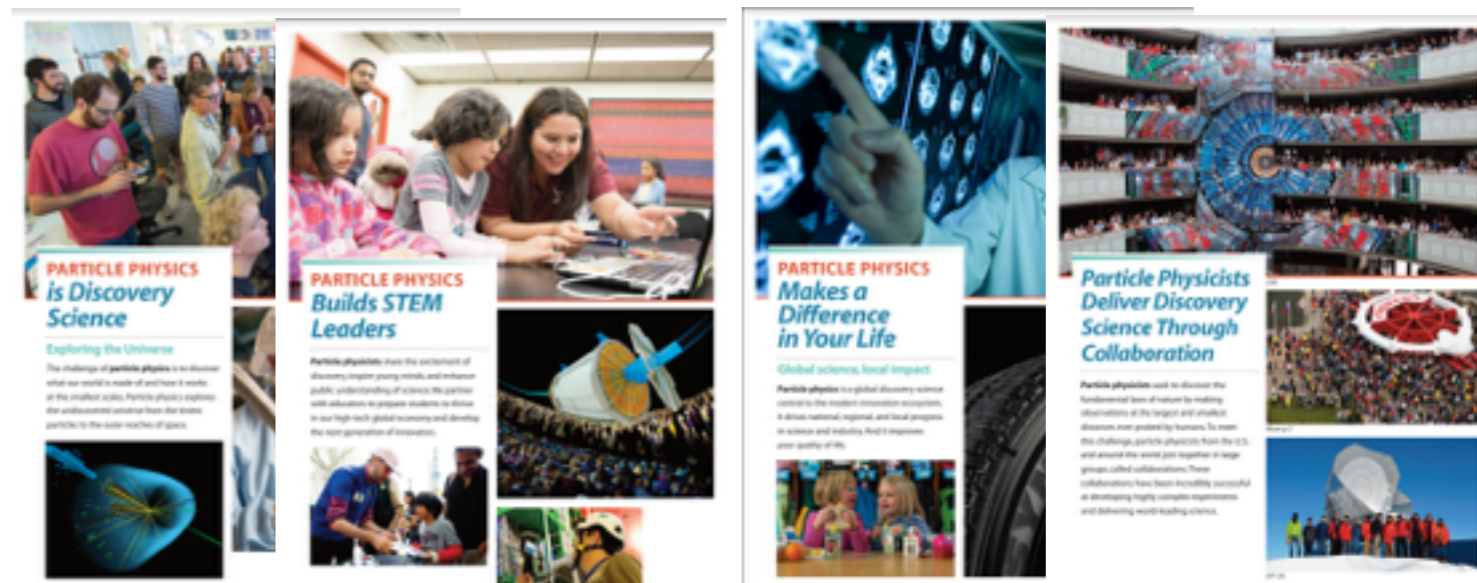
\$1045M for High Energy Physics within the Department of Energy's Office of Science

\$9B for the National Science Foundation.

This level of funding will strengthen support for scientific research at universities and national laboratories throughout the nation and advance P5 priority projects, operations of existing large facilities, and the completion of small and medium-sized projects, to explore the nature of neutrinos, the Higgs Boson, dark matter, dark energy, and yet-to-be-discovered forces that govern the origin and evolution of our universe.

THE ASK

usparticlephysics.org outreach brochures are developed in collaboration with Michael Cooke and Andrea Peterson at DOE.



All content of the packets is done by community groups throughout the year. UEC, SLUO, USLUA and DPF are all represented in this community effort.



t

Material we bring



Thanks to the support from the Fermilab communications office, we gathered and assembled materials for the trip.

Mike Wallbank
Leo Aliaga
Deepika Jena
Gavin Davies
Barbara Yaeggy
Anne Norrick
Lauren Yates

Cindy Joe
Zack Williams
Karl Warburton
Rob Fine
Xuan Chen
Samantha Sword-Fehlberg
Kirsty Duffy

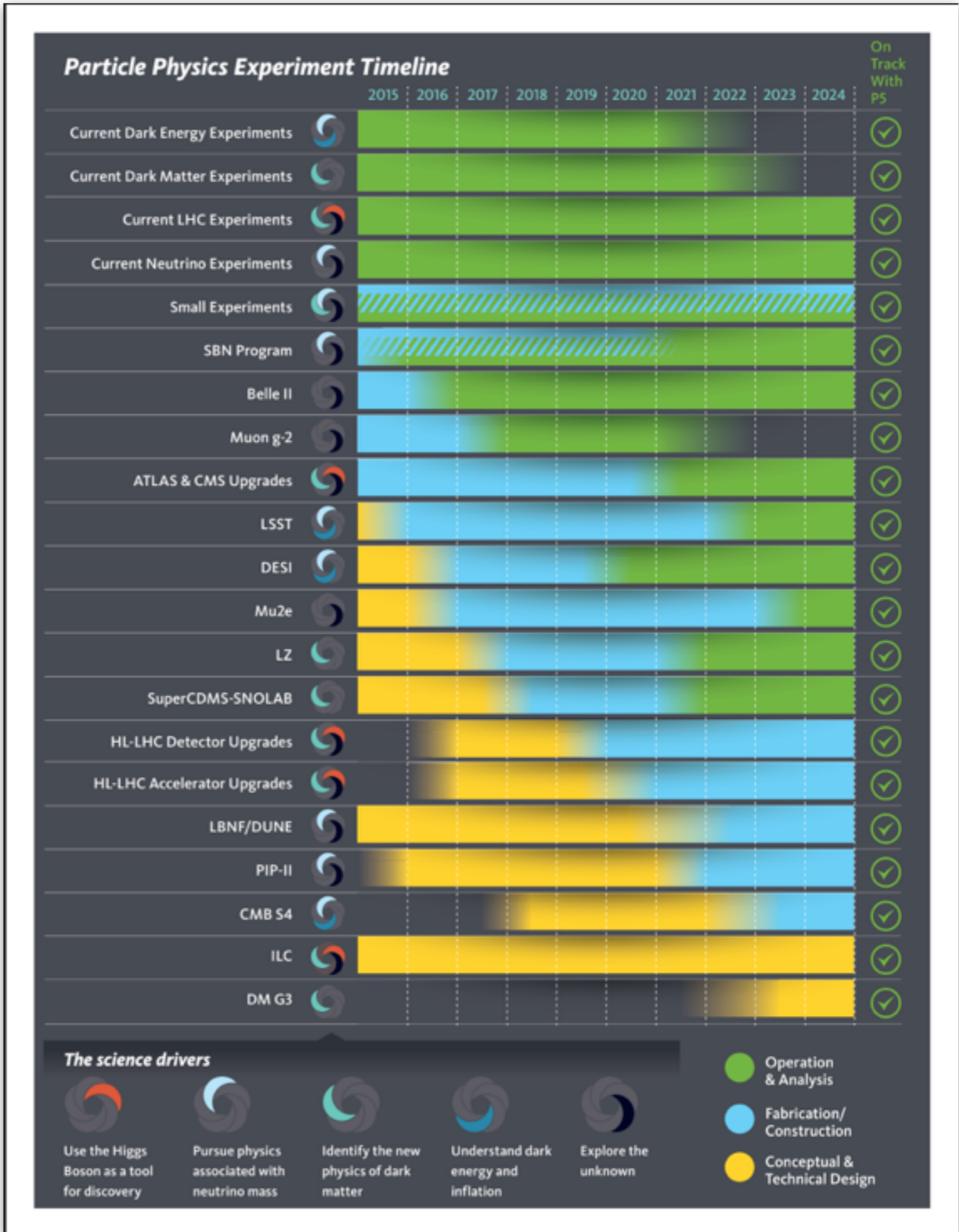
Assembling team



This trip allows us to address questions from Congress by incorporating their feedback and answer questions with new materials and information.



New this year.
Brochure addressing questions about the P5 progress



New this year.

Automated, district-specific grant and procurement information

District-specific materials provide direct links between the appropriated funds local economic benefits.



Fernanda Psihas

Fermilab Users Executive Committee
Fermi National Accelerator Laboratory
P.O. Box 500 - MS 220
Batavia, IL 60510
Phone: 218 343 0747
E-mail: fernanda.psihas@gmail.com

March 25, 2019



Fernanda Psihas

Fermilab Users Executive Committee
Fermi National Accelerator Laboratory
P.O. Box 500 - MS 220
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March 25, 2019

The Honorable Ted Cruz
United States Senate
404 Russell Senate Office Building
Washington, D.C. 20515

Dear Senator Cruz:

The DOE Office of Science and NSF Directorate for Mathematical and Physical Sciences (MPS) directly support scientists, engineers, and students in all 50 States, the District of Columbia, and Puerto Rico through research grants to academic institutions and contracts to supporting industries. In fiscal year 2018, the Department of Energy (DOE) Office of Science had a budget of \$908 million for High Energy Physics, and the National Science Foundation (NSF) had a budget of \$7.7 billion.



Texas State

- Baylor University
- Rice University
- Sam Houston State University
- Southern Methodist University
- Texas A&M University
- Texas Tech University
- University of Houston
- University of Texas at Arlington
- University of Texas at Austin
- University of Texas at Dallas
- University of Texas Rio Grande Valley

Institutions receiving DOE HEP grants during FY18

Please find below specific information about grants and contracts that were awarded by the DOE Office of Science and NSF to institutions and businesses in your State during FY18 and preceding years.

Texas State

In the past 6 years, this district has been awarded:

- DOE Office of Science HEP research grants totaling: **\$47,507,892**
Grants to researchers in your State from the DOE Office of High Energy Physics
- DOE Office of Science contracts totaling: **\$61,090**
Contracts with companies in your State, primarily related to the operation of DOE National Laboratories
- NSF MPS research grants totaling: **\$332,561,769**
Grants to researchers in your State from the NSF Directorate for Mathematical and Physical Sciences

Omar
of Representatives
e Office Building
15

Omar:

In 2018, Fermilab spent \$183.5 million in the United States to purchase goods and services in 44 States and the District of Columbia. Please find below specific information about goods and services purchased in your State or district during this time.



\$1,000 - \$100,000

Alabama, Delaware, Hawaii, Idaho, Maine, Montana, Nevada, North Dakota, Oklahoma, South Carolina, Vermont

\$100,000 - \$100,000

Arizona, Connecticut, Georgia, Missouri, Nebraska, New Hampshire, Tennessee, Utah

\$100,000 - \$1 million

Iowa, Kansas, Kentucky, Maryland, North Carolina

\$1 million - \$3 million

Florida, Indiana, Michigan, New Mexico, Oregon, Rhode Island

\$3 million - \$5 million

Colorado, District of Columbia, Massachusetts, Minnesota, New Jersey, Ohio, Pennsylvania, Texas, Washington, Wisconsin

More than \$5 million

California, Illinois, New York, South Dakota, Virginia

Minnesota's 5th Congressional District

Vendor	ZIP Code	Amount (\$)
Minnesota, University Of	55455	2,366,234
Minnesota, University Of	55455	74,000
Itasca Consulting Group Inc	55401	20,000
Minco Products Inc	55432	9,302
Best Buy Inc	55423	6,008
Twin City Plating Inc	55413	1,950



From Michael Baumer's: https://mbaumer.github.io/us_hep_funding/

Developers:
Rob Fine
Michael Baumer
Justin Vasel
Fernanda Psihas

Goals for March 2019

100% coverage of offices visits/packets delivered.

Strengthen the following points in our message:

- P5 progress.
- Different areas of research/sources of funding
- Progress of specific projects
- Importance of research groups in the scientific process



2019 Trip Organizers

Harvey Newman

Fernanda Psihas

Michael Baumer





2019 Trip Attendees

Xuan Chen
 Harvey Newman
 Mariel Pettee
 Savannah Thais
 Breese Quinn
 Thomas Warburton
 Salvatore Rappoccio
 Justin Vasel
 Rob Fine
 Saptaparna Bhattacharya
 Andrea Albert
 Leonidas Aliaga Soplin
 Adi Ashkenazi
 Brian Nord

Gavin Davies
 Fernanda Psihas
 Aaron Dominguez
 Joseph Zennamo
 Louise Suter
 Cindy Joe
 Joseph Haley
 Sergei Gleyzer
 Mathew Muether
 Kirsty Duffy
 Anne Norrick
 Sarah Demers
 Julia Gonski
 Georgia Karagiorgi

Andrew Furmanski
 Barbara Yaeggy
 Mike Wallbank
 Deepika Jena
 Michael Baumer
 Corrinne Mills
 Eva Halkiadakis
 Duncan Wood
 Eli Rykoff
 Maris Arthurs
 Kirk Barrow
 Justin May
 Randy White
 Emma Castiglia

Corrinne Mills
 Titas Roy
 Blake Forland
 Constantin Weisser
 Matthew Feickert
 Rachel Bartek
 Bryan Ramson
 Erika Catano Mur
 Lauren Yates
 Meenakshi Narain
 Samantha Sword-Fehlberg
 Mandy Rominsky
 Adam Anderson
 Jane Nachtman

Mike Baumer
 Jacob Pasner
 Zachary Williams
 Brendan Kiburg
 Andre De Gouvea
 Adam Moren
 Micah Groh
 Will Flanagan
 Alexx Perloff
 Amber Johnson
 Herman White
 Dylan Frizzell
 Gordan Krnjaic
 Scarlet Norberg

March 2019 Attendees



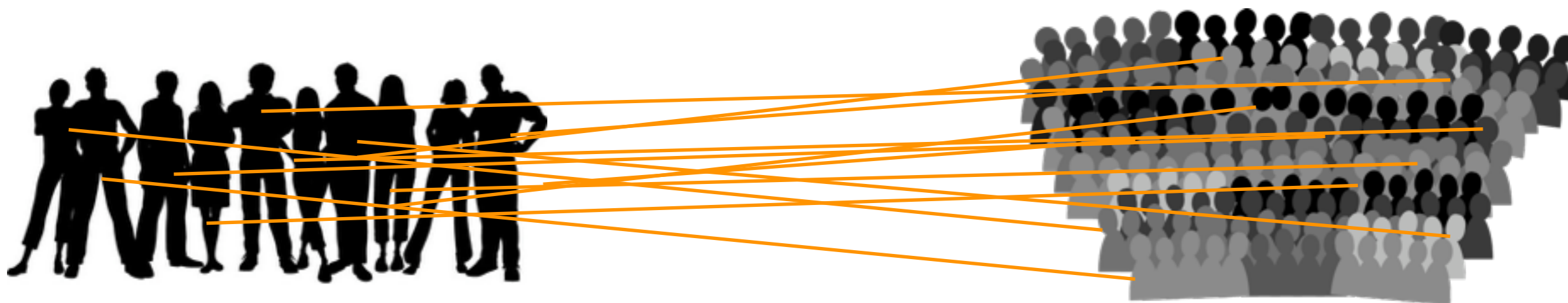
68 trip attendees, (40 UEC, 20 USLUA, 8 SLUO)

- 28 women (41%)
- 4 under-represented minorities*
(10% of attending U.S. Citizens / 6% of All attendees)
- 33 early-career (grad students & postdocs, 48%)

*URMs are American citizens who are Blacks, Hispanics, and American Indians or Alaska Natives ([APS Reference](#))

Our Challenge

3 days 68 attendees 538 congressional offices
1,191 connections to congressional offices



WHIPS Washington-HEP Integrated Planning System

In 2018-2019 we incorporated a new web-based organizational platform

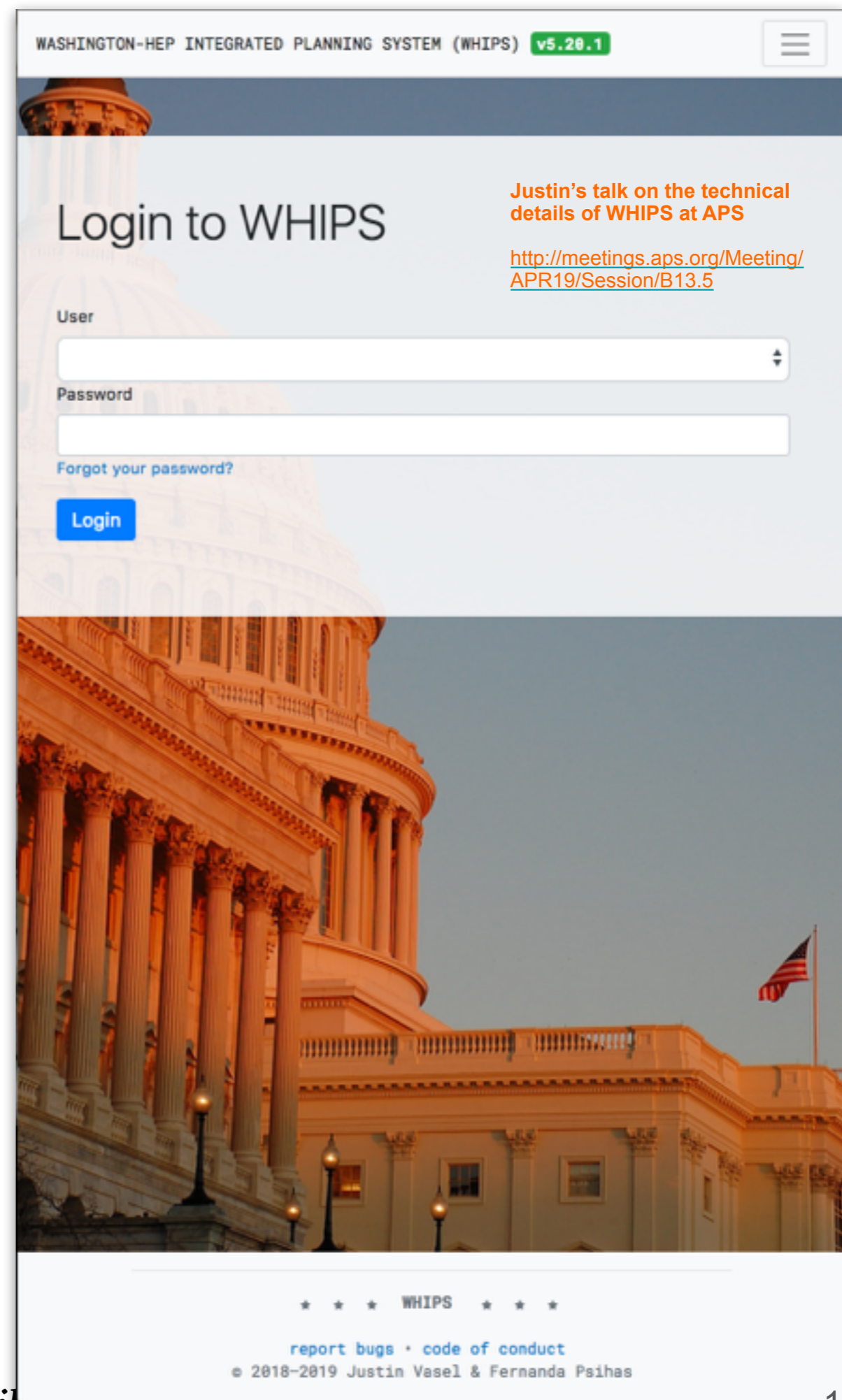
Goals:

Automate trip logistics to increase our effectiveness.

Maintain a database of connections to districts and potential trip attendees.

Most efficiently utilize resources on the trip.

Create performance metrics to provide feedback from the trip.



WHIPS

Washington-HEP Integrated Planning System

Keeps attendee's schedules and connections.

Allows for live scheduling on the ground.

Provides a guide through scheduling progress and office information.

Your Full Schedule
Yellow = you are the primary.

Type	Meeting	Time	Location	Primary	Secondary
Legislator	Donnelly, Joe D-OR 5	2018-03-07 09:00:00	HOB 720	Justin Vasel	Fernanda Psihas
Legislator	Johnson, Ron R-NE 1	2018-03-07 10:30:00	HOB 328	Justin Vasel	
Legislator	Nolan, Rick D-NE 3	2018-03-07 12:00:00	RHB 2366		Justin Vasel
Legislator	Abraham, Ralph D-CA 6	2018-03-08 09:15:00	CHB 417		Justin Vasel
Legislator	Guthrie, Brett D-MY 2	2018-03-08 10:00:00	RHB 2434		Justin Vasel
Legislator	McClintock, Tom R-CA 4	2018-03-08 10:30:00	RHB 2312		Justin Vasel
Legislator	Burgess, Michael R-TX 26	2018-03-08 11:00:00	RHB 2336		Justin Vasel
Legislator	Beyer, Donald D-VA 8	2018-03-08 13:00:00	LHB 1119		Justin Vasel
Legislator	Gallagher, Mike R-NE 2	2018-03-08 14:00:00	LHB 1007		Justin Vasel
Executive	National Science Foundation	2018-03-08 16:30:00	NSF E-2030		[Multiple]
Legislator	Costa, Jim D-CA 10	2018-03-09 09:00:00	RHB 2081		Justin Vasel
Legislator	Hollingsworth, Trey R-OK 9	2018-03-09 10:00:00	LHB 1641	Justin Vasel	

Justin Vasel
justin.vasel@gmail.com
uc
Neutrino Oscillation Experiment

MEETING #766 2019-MARCH
Rep. Bill Foster **D-IL 11** ✓ Packet Delivered!
Congressional Office Meeting - House

ASSIGNED CONTACT SCHEDULE FILE REPORT

Attendees

Primary
J [redacted] (UEC)

Secondary
None assigned

Coordinates

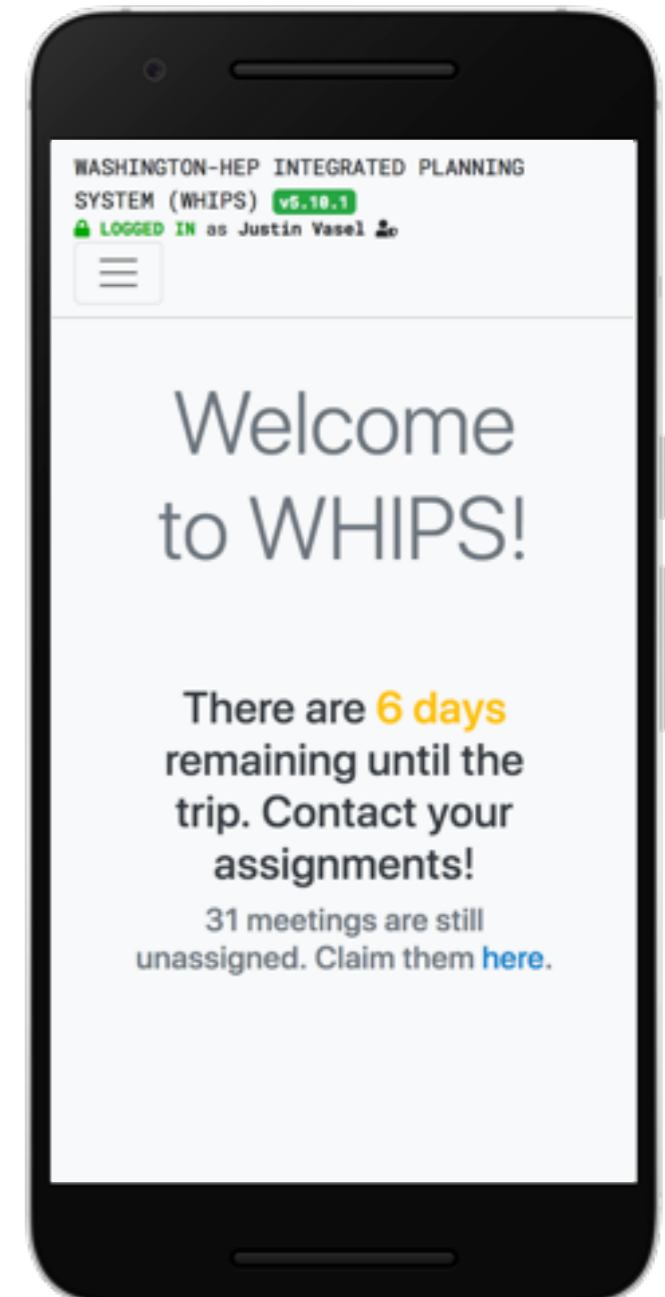
Time
2019-03-19 14:00:00

Location
Rayburn House Office building 2366

Meeting with

Name & email
<[redacted]@mail.house.gov>

Position
Fellow

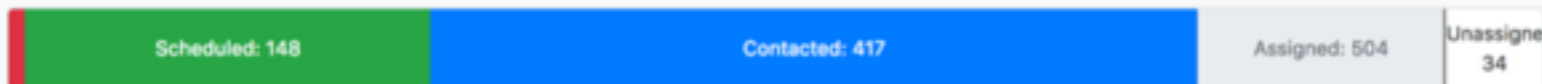


2019 Trip Statistics

There are **6 days** remaining until the trip. Contact your assignments!

34 meetings are still unassigned. Claim them [here](#).

CURRENT PROGRESS



Rejected: 6 Scheduled: 148 Contacted: 417 Assigned: 504 Unassigned: 34

★ ★ ★ WHIPS ★ ★ ★

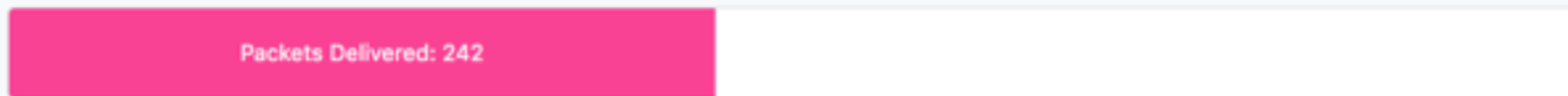
[report bugs](#) · [code of conduct](#)

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Live information of scheduled meetings and offices visited on the ground.

WHIPS maintains records of meetings and meeting reports over all years.

PACKET DELIVERY PROGRESS



Packets Delivered: 242 / 538

Meeting reports and statistics regarding contact, schedule, and meeting itself.

J [redacted] Wednesday, March 20th 2019, 02:04 -0500

Wow, really excellent meeting! Louise knocked it out of the park Staffer was so excited, took notes, was really engaged, talked about how funding happened and said they'd sign a Senate dear colleague letter

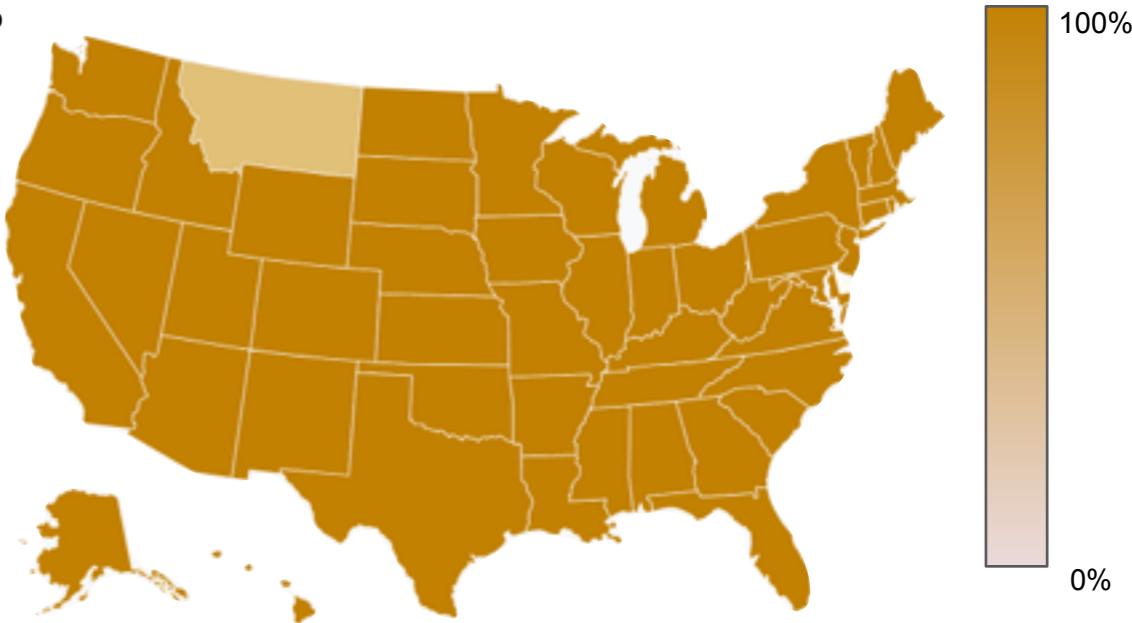
F [redacted] Wednesday, March 20th 2019, 11:26 -0500

She was polite and attentive. Mainly concerned about how this affects their district. She asked for a contact to a constituent. Definitely bring a constituent if we can next year!

March 2019: Connection Coverage

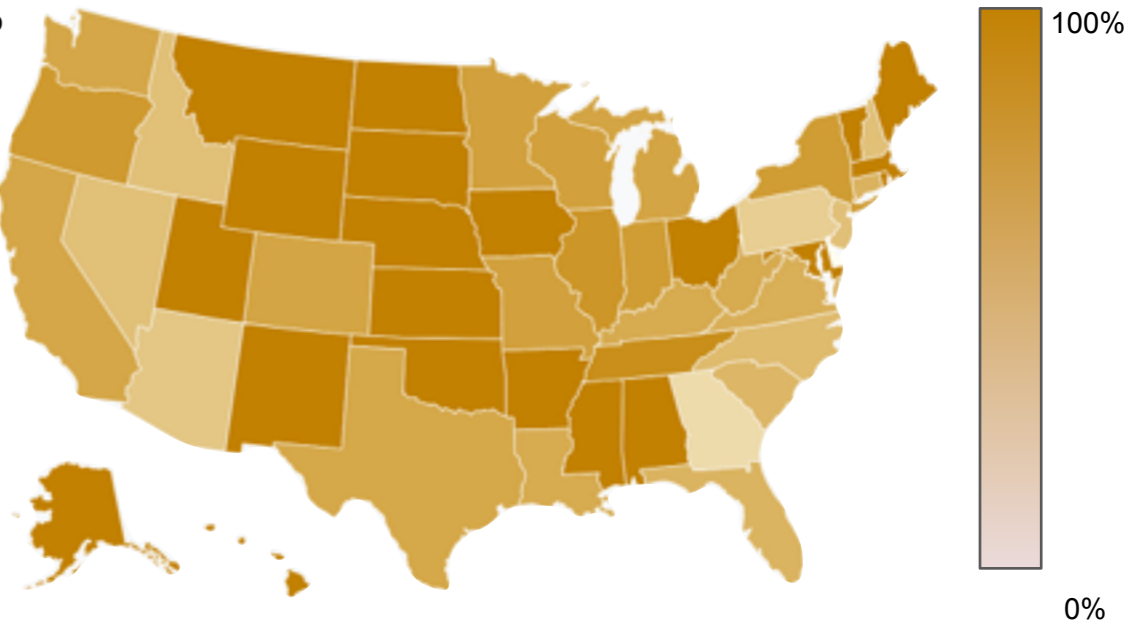
- We track the connections that people have to congressional districts to maximize the number of meetings we can schedule.
- This year, we had 97% connection coverage in the Senate and 71% in the House.
- **Our goal was to achieve 100% office visits.** Connections help us get meetings scheduled, though not necessary in all offices.

Connections to Senate = 97%



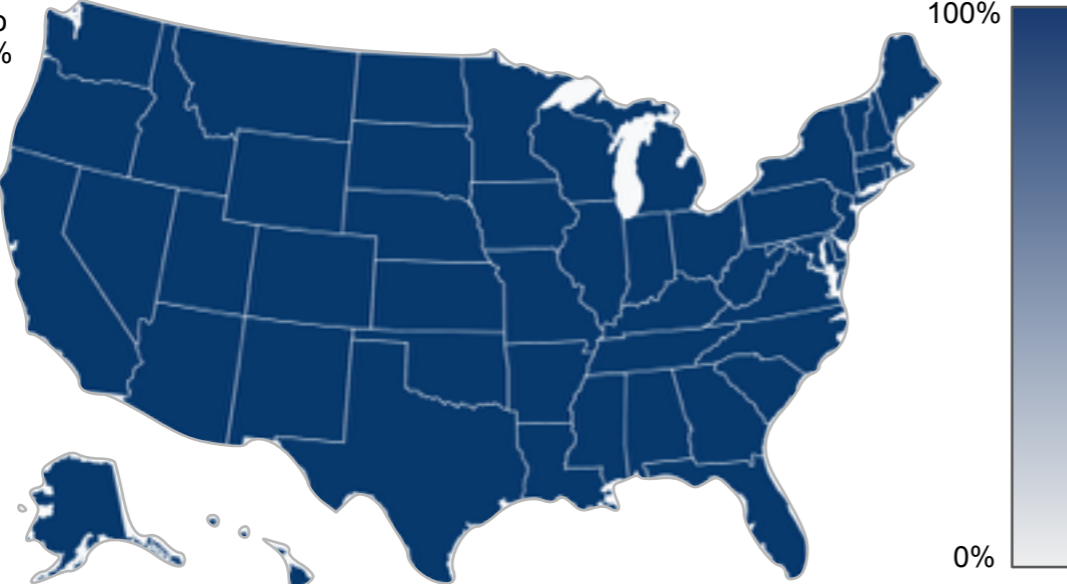
Maps depict the *connections* of our attendees to states and districts:

Connections to House = 71%

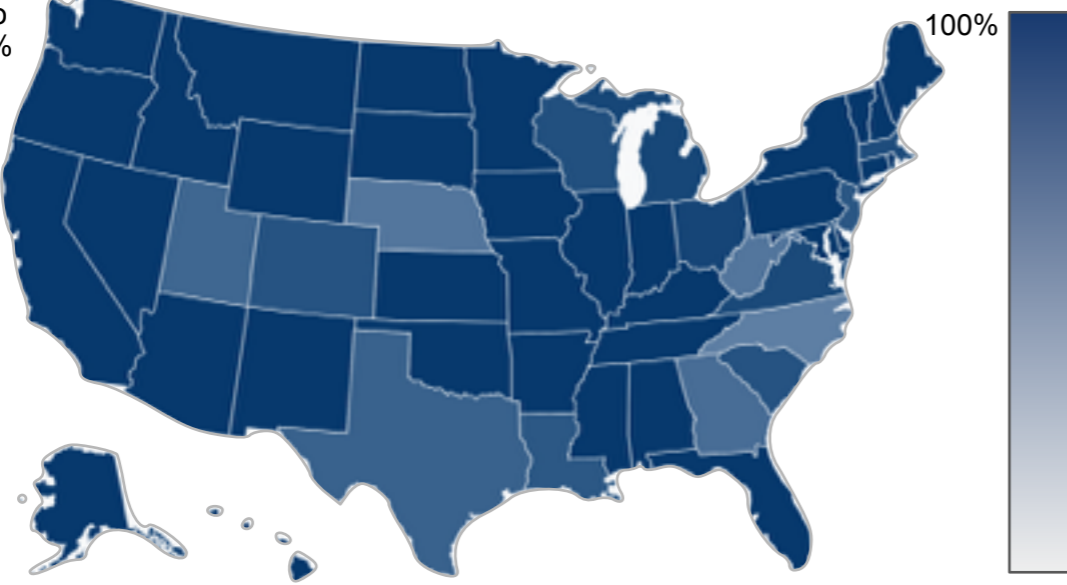


March 2018

Connections to Senate = 100%

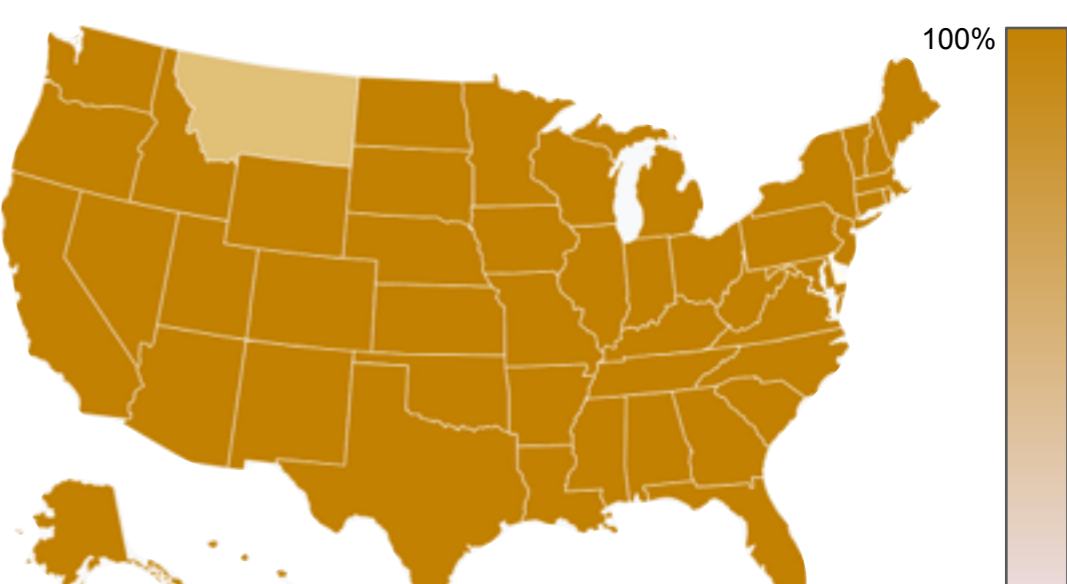


Connections to House = 92.4%

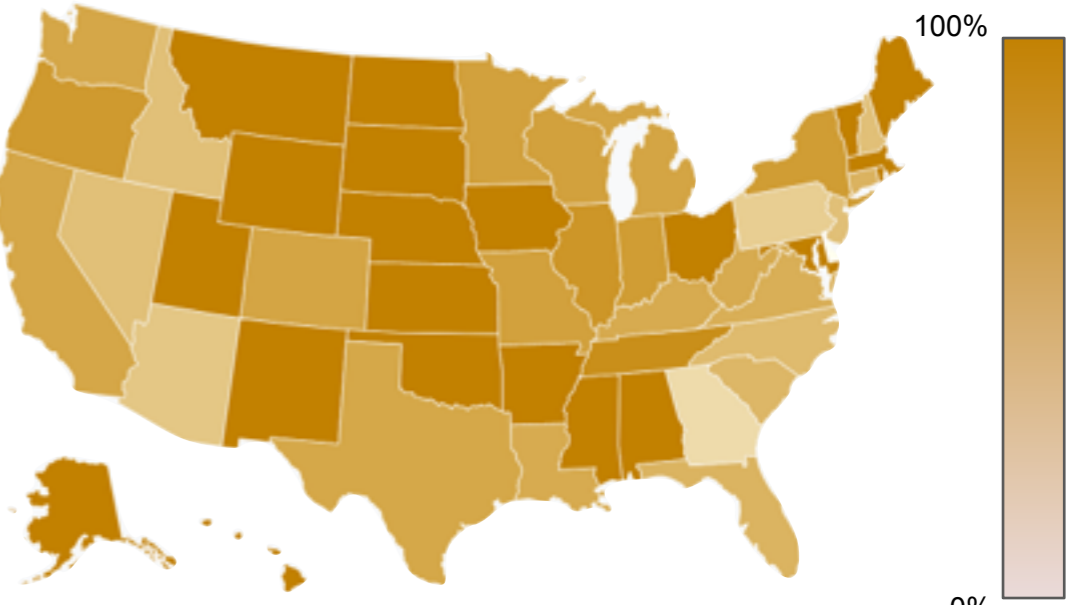


March 2019

Connections to Senate = 97%



Connections to House = 71%



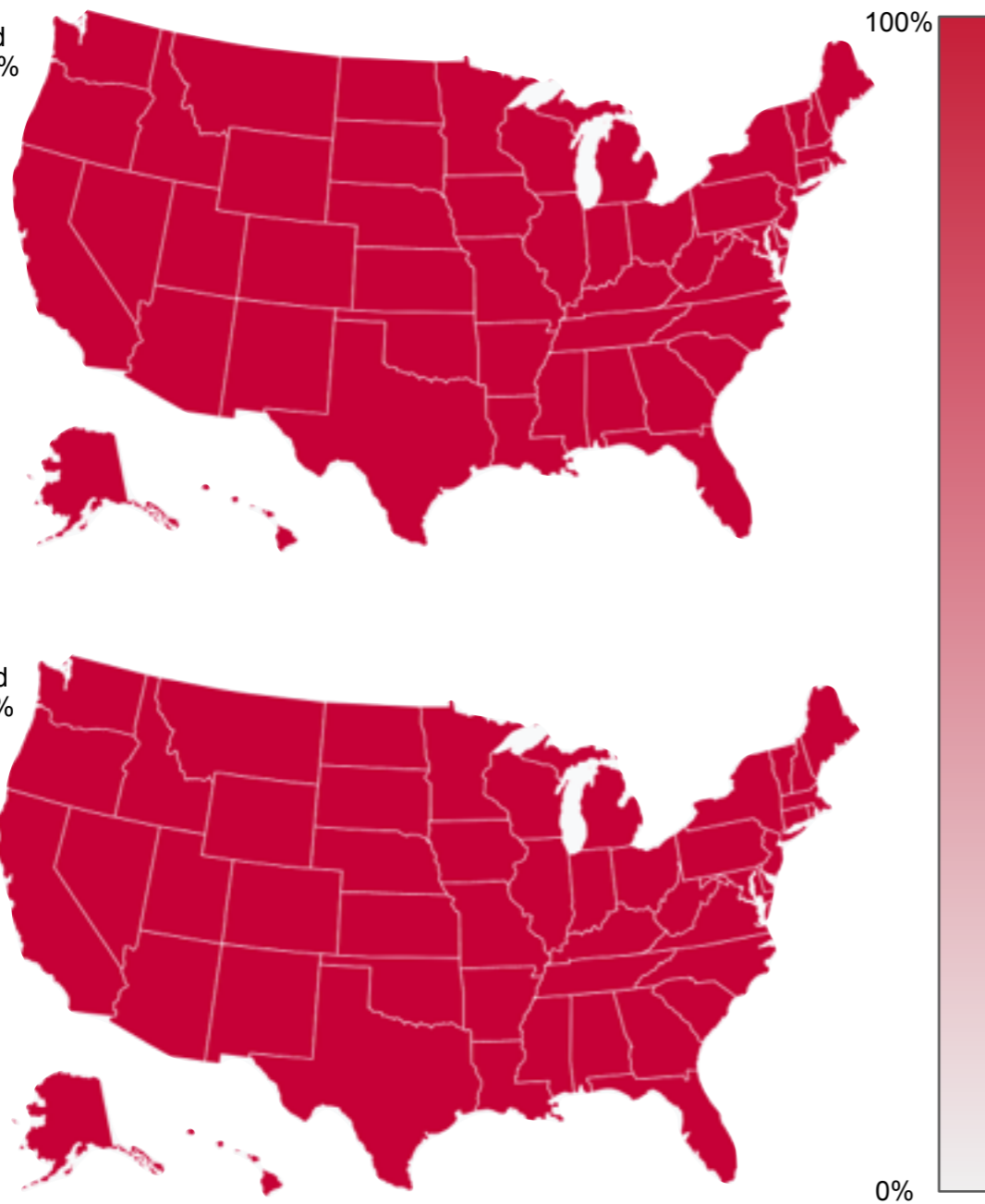
This year, our attendees had connections to fewer congressional offices than in 2018

March 2019

NEW RECORD!

Materials Delivered in 2019
538 packets delivered

Offices Visited
 Senate = 100%



Offices Visited
 House = 100%



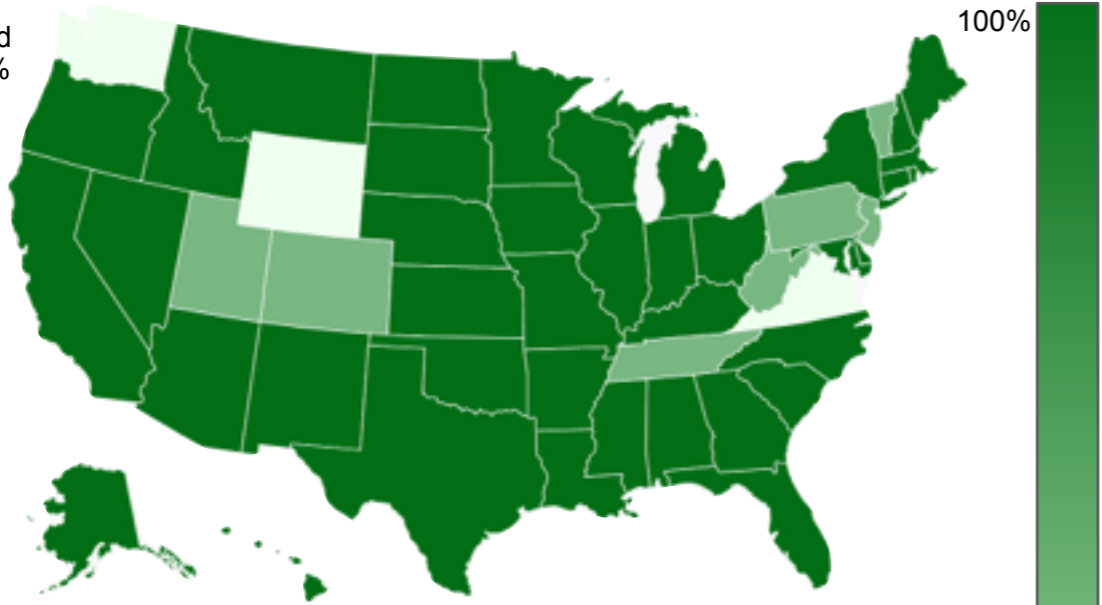
	2018	2019	% change
Trip attendees	54	68	20%
Senate offices	84	100	↑ 16%
House offices	305	438	↑ 30%

We delivered our message to 100% of the 538 congressional offices.

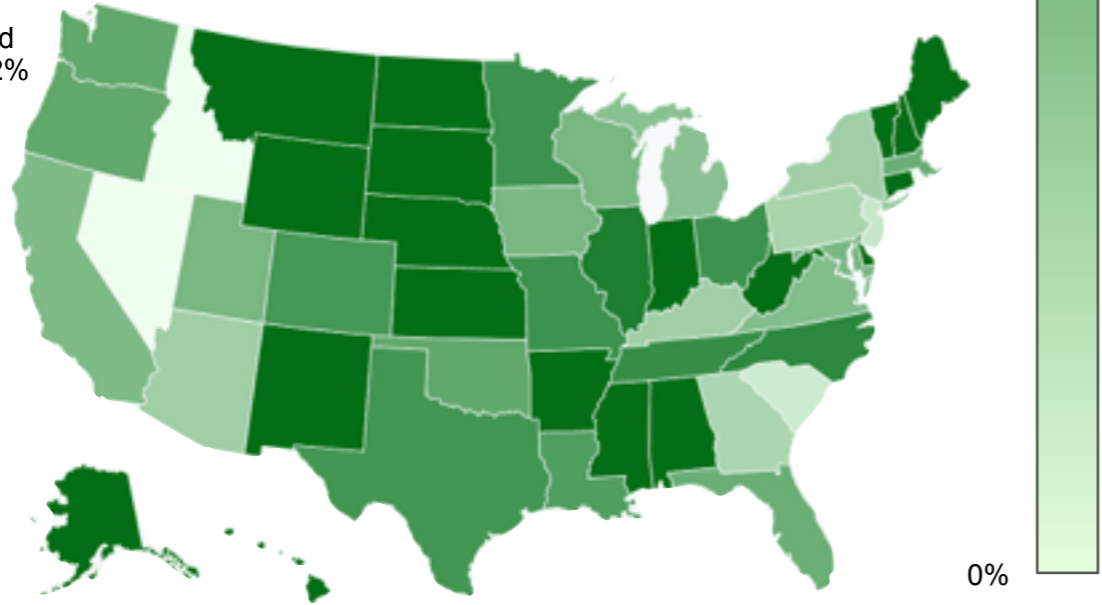
March 2019

NEW RECORD!

Offices Visited
Senate = 87%



Offices Visited
House = 79.2%



Georgia Karagiorgi

	2017	2018	2019	% change
Trip attendees	54	54	68	20%
Senate offices	72	84	87	↑ 4%
House offices	276	305	346	↑ 13%

We increased the number of in-person meetings: 87% (79%) of all Senate (House) offices. Combined total = 80.1%

Who we meet with...

Staff Title	Meetings
Legislative Assistant	218
Legislative Director	38
Legislative Correspondent	37
Other	34
Legislative Aide	12
Senior Policy Advisor	10
Policy Advisor	8
Legislative Counsel	7
Fellow	5
Chief of Staff	4
Deputy Chief of Staff	4
Congressional Aide	3
Scheduler	3
Communications Director	1
Press Secretary	1
<Unspecified>	49



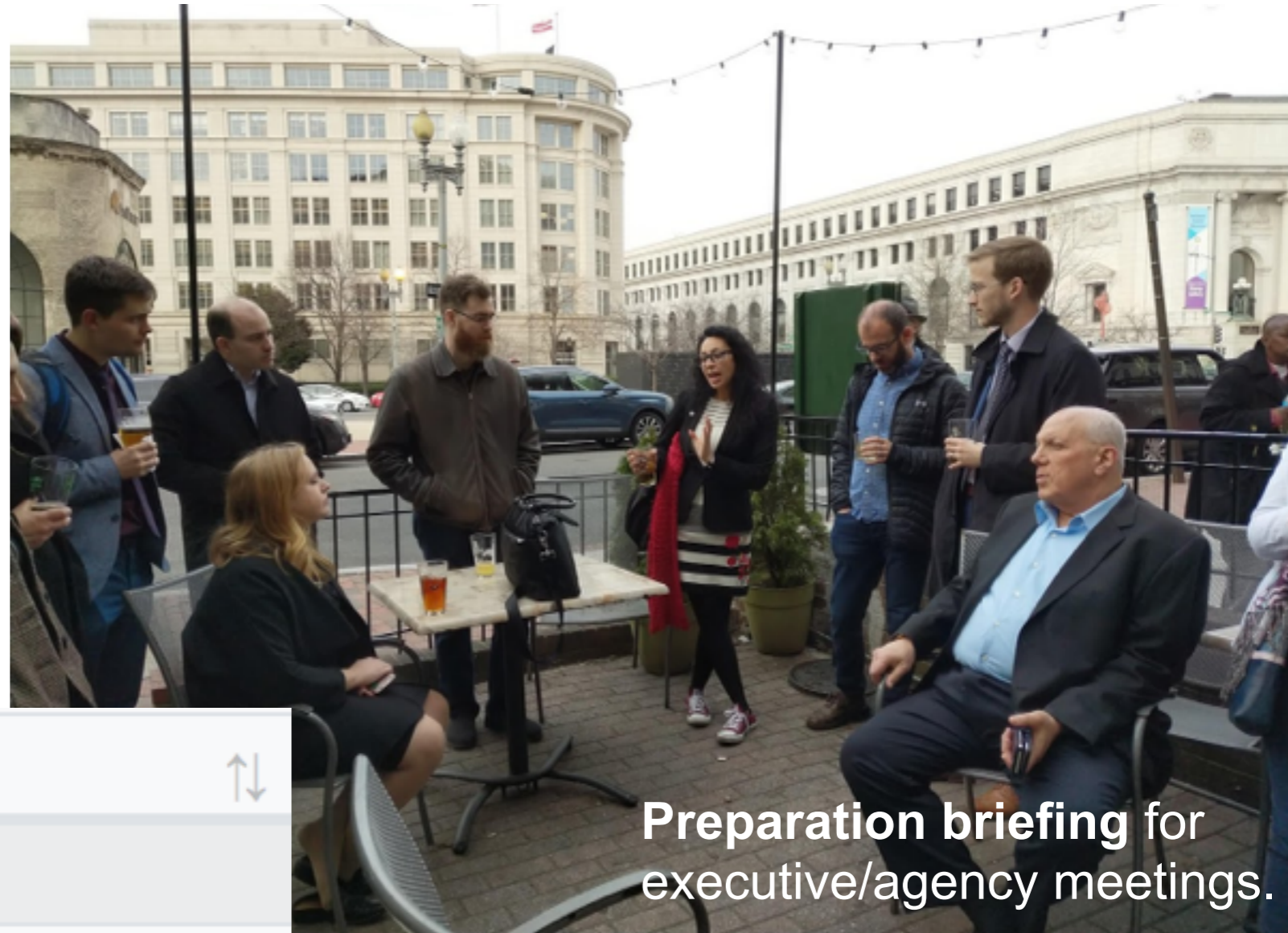
Georgia Karagiorgi

	2018	2019	% change
High-value meetings	84%	87%	↑ 3%

Out of the 538 offices, 156 have non-zero relevance scores due to their participation in appropriations and authorization committees and leadership.

Executive and Agency meetings.

These high-value meetings allow us to summarize and communicate feedback to our funding agencies, as well as present them with our message.



Office

[DOE Office of Science HQ](#)

[Office of Management and Budget \(OMB\)](#)

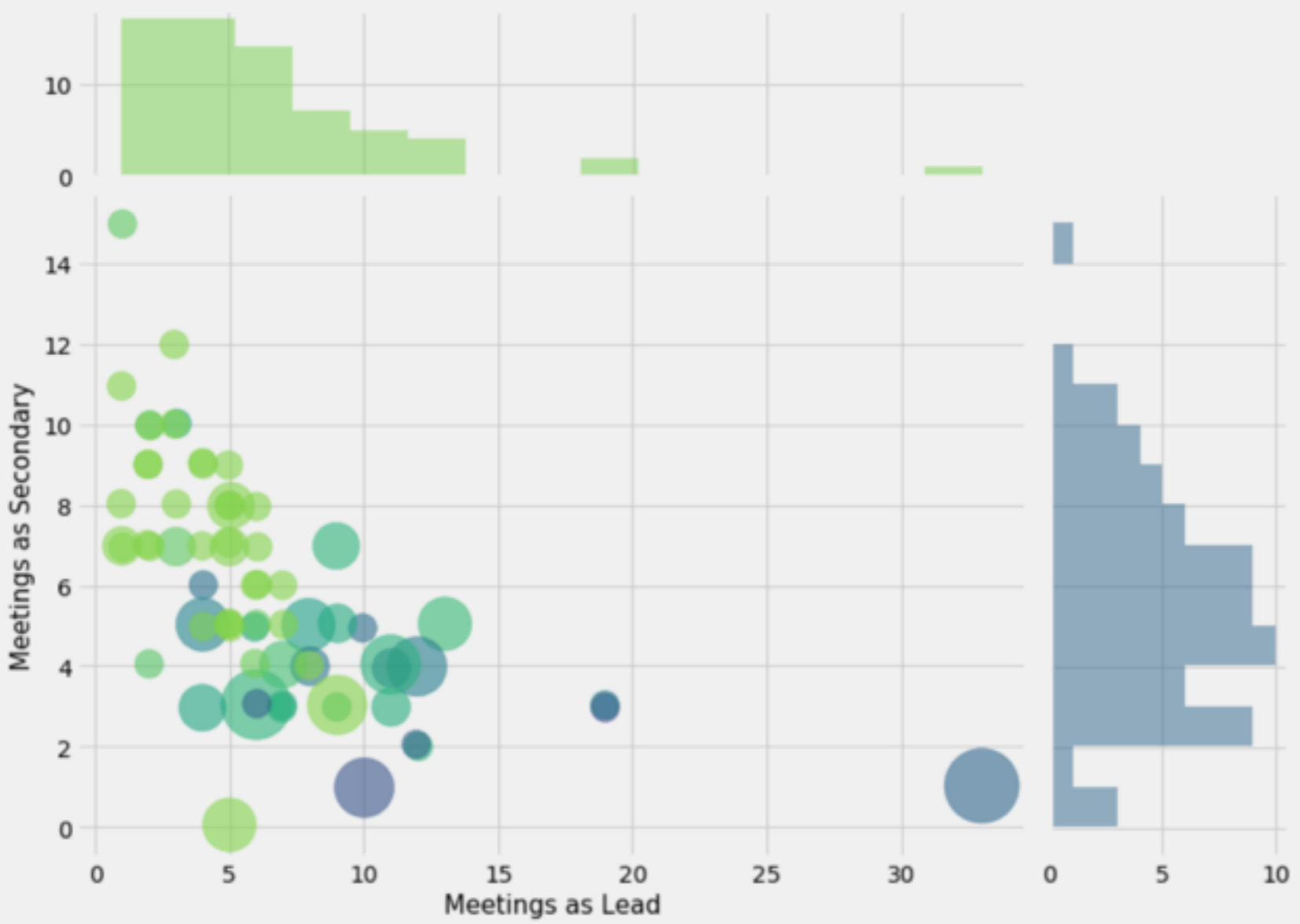
[National Science Foundation](#)

[DOE Germantown](#)

Preparation briefing for executive/agency meetings.

Executive and agency meetings are scheduled by Professor Harvey Newman each year.

March 2019: Performance



Out of the 538 offices, 156 have non-zero relevance scores.

We scheduled 436 meetings.

Each meeting is attended by a contact person (Lead) and a secondary person.

— - — Previous trip experience — + —
● Executive meetings

Newer trip attendees focus on support roles (secondary) in most meetings.

Congressional committee meetings



Committee



House Energy and Water Development, and Related Agencies

Senate Energy and Water Development

Senate Science, Oceans, Fisheries, and Weather

Senate Energy

House Energy

House Research and Technology

House Commerce, Justice, Science, and Related Agencies

These high-impact meetings provide us with valuable feedback for our message and give us an insight into the appropriations process for the coming fiscal year.

These meetings happen every year, organized and led by Professor Breese Quinn.

Professor Quinn's Notes from the past several years:



The most frequent and strongest communicated messages from subcommittee staff and members *with our comments and recommendations*

1. A budget agreement precedes appropriations decisions. We are encouraged to advocate for budget agreements.
2. Committees would like to understand the biggest threats to our funding/program (e.g. sequestration, President's requested cuts, etc.)
3. Many in these committees would like to better understand the breakdown of our funding programs. *(between U.S. and international funding as well as the role and funding level of university groups and overall)*
4. Given the current priorities of the House of Representatives, HEP "should be prepared for the budget increases of the past years to decline". *(from the head of the Democratic staffers)*

Professor Quinn's Notes from the past several years:



The most frequent and strongest communicated messages from subcommittee staff and members *with our comments and recommendations*

5. Repeatedly, we have been asked how we evaluate P5. Specifically, how we review the ongoing P5 program and how the science we learn continues to improve and inform the ongoing priorities (*from the Democratic majority, E&W appropriations and SST authorization subcommittees*)

Breese's Conclusions:

We have worked hard to successfully earn the reputation of being the "gold standard" of program planning, not just in science, but more broadly. We have profited from that reputation immensely.

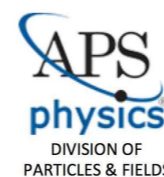
Members commenting on point 5 above feel that this request has not been answered for a couple of years now.

If we don't respond to this request in a credible manner by next March latest, we will go a long way to laying down that mantle along with the goodwill and funding benefits that have come with it.

Following-up

Maintaining relationships with the congressional offices is a year-round task, and is crucial to keeping the HEP message relevant throughout the appropriations process.

In addition to following up with congressional offices on current developments, the community addresses appropriations subcommittee chairs directly with our requests.



April 5, 2019

Chairwoman Marcy Kaptur
Subcommittee on Energy and
Water Development
Committee on Appropriations
2186 Rayburn House Office Building
Washington, D.C. 20515

Ranking Member Mike Simpson
Subcommittee on Energy and
Water Development
Committee on Appropriations
2084 Rayburn House Office Building
Washington, D.C. 20515

Dear Chairwoman Kaptur and Ranking Member Simpson:

We are writing on behalf of the U.S. community of approximately 6,000 scientists, engineers and students from 180 universities, laboratories and institutes that conduct research in high energy physics. We greatly appreciate your support for the High Energy Physics (HEP) program in the

[...]

Robust funding, at the \$1.045 billion level, is necessary to build on recent progress and the sustained, unified, groundbreaking efforts of our nation's high energy physics community. We are grateful for your continued leadership in funding this important field of discovery science that contributes to the pre-eminence of our nation and our quality of life.

Professor Priscilla Cushman
Chair, Division of Particles and Fields
of the American Physical Society
Professor of Physics
School of Physics and Astronomy
University of Minnesota
Minneapolis, MN 55455

Dr. Gavin Davies
Chair, Fermilab Users Executive Committee
Department of Physics
Swain Hall West
Indiana University
727 E. Third St.
Bloomington, IN 47405-7105

Professor Harvey B. Newman
Marvin L. Goldberger Professor of Physics
Chair US LHC Users Executive Committee
Charles C. Lauritsen Laboratory
of High Energy Physics
Division of Physics, Mathematics and Astronomy
California Institute of Technology
1200 East California Boulevard
Pasadena, CA 91125

Dr. Nicola Omodei
Chair SLAC Users Organization Executive
Committee
Hansen Experimental Physics Laboratory and
Kavli Institute for Particle Astrophysics
and Cosmology
Stanford University
Stanford, CA 94035

Dear Colleague...

During our visit, we ask all offices to consider signing on to dear-colleague letters sponsored by HEP supporters in Congress.

The number of signatories is also a source of feedback regarding the support of Congress to HEP through the Office of Science at DOE as well as NSF.

DOE Office of Science
FY20 House Letter **Congress of the United States**
 Washington, DC 20515

160 signatories
102 signatories for FY19

April 1, 2019

<p>The Honorable Marcy Kaptur Chairwoman Energy and Water Development House Appropriations Committee H-305, U.S. Capitol Washington, DC 20515</p>	<p>The Honorable Mike Simpson Ranking Member Energy and Water Development House Appropriations Committee 1016 Longworth House Office Building Washington, DC 20515</p>
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Dear Chairwoman Kaptur and Ranking Member Simpson:

As you begin work on the Fiscal Year 2020 Energy and Water Appropriations bill, we write to express our strong support for robust and sustained funding for the Department of Energy (DOE) Office of Science.

NSF **Congress of the United States**
FY20 House Letter Washington, DC 20515

173 signatories
168 signatories for FY19

March 28, 2019

<p>The Honorable Jose Serrano Chairman Subcommittee on Commerce, Justice, Science, and Related Agencies H-307, The Capitol Washington, D.C. 20515</p>	<p>The Honorable Robert Aderholt Ranking Member Subcommittee on Commerce, Justice, Science, and Related Agencies 1016 Longworth House Office Building Washington, D.C. 20515</p>
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Dear Chairman Serrano and Ranking Member Aderholt:

We write to respectfully request that the National Science Foundation (NSF) receive an appropriation of **\$9 billion** in the Fiscal Year (FY) 2020 Commerce, Justice, Science, and Related Agencies Appropriations bill.

DOE Office of Science **United States Senate**
FY20 Senate Letter WASHINGTON, DC 20510

30 signatories

April 5, 2019

<p>Senator Lamar Alexander Chairman Subcommittee on Energy and Water Development Senate Committee on Appropriations 142 Dirksen Senate Office Building Washington, DC 20510</p>	<p>Senator Dianne Feinstein Ranking Member Subcommittee on Energy and Water Development Senate Committee on Appropriations 188 Dirksen Senate Office Building Washington DC 20510</p>
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Dear Chairman Alexander and Ranking Member Feinstein:

As you begin work on the Fiscal Year (FY) 2020 Energy and Water Appropriations bill, we write in strong support of the Department of Energy (DOE) Office of Science and request at least \$7.0 billion be provided in funding.

NSF **United States Senate**
FY20 Senate Letter WASHINGTON, DC 20510

37 signatories
29 signatories for FY19

April 8, 2019

<p>The Honorable Jerry Moran Chairman Subcommittee on Commerce, Justice, Science, and Related Agencies U.S. Senate Committee on Appropriations Washington, DC 20510</p>	<p>The Honorable Jeanne Shaheen Ranking Member Subcommittee on Commerce, Justice, Science, and Related Agencies U.S. Senate Committee on Appropriations Washington, DC 20510</p>
--	---

Dear Chairman Moran and Ranking Member Shaheen:

As the Subcommittee begins deliberations on the Fiscal Year (FY) 2020 Commerce, Justice, Science, and Related Agencies Appropriations Legislation, we write to respectfully request that the National Science Foundation (NSF) receive at least \$9 billion in FY 2020 funding.

Questions to address and improvements for 2020

The HEP prioritization strategy continues to be well received in Congress.

Increasingly, congressional committees, OMB, and OSTP ask about how we are reviewing the ongoing execution of P5 as well as what the process and timing of the next P5 is. The start of the next Snowmass planning & the DPF town hall meeting was a well-received concept in executive meetings. Much feedback can still be provided on these questions.

This year's additions to our materials addressed specific questions brought up by appropriations subcommittees successfully.

Continued support to develop our materials is key. Our broad informational packet allows trip attendees to cover a broad range of topics of interest to different offices: the science, projects, National labs, P5 progress, impact to industry, economic impact, impact on education.

We have significantly improved our logistics and training for this effort.

In coming years, emphasis will continue on **selecting and training trip attendees to best represent the community and most effectively deliver our message.**

Comments from trip attendees

"I heard back from the staffer immediately 'This is one of my favorite meetings all year! Looking forward to your visit.'"

"Attending the trip exposed me to a new side of the field, and I felt like I was making a direct contribution to the long term success of particle physics in the U.S."

"This trip made me feel closer to my own government and the HEP community."

"It is a true privilege to be able to represent our field in this effort, I was surprised to see how much my representatives care about the experiences of young scientist."



Fermilab Student & Postdoc Assoc.



Kick-off breakfast at URA



Wrap-up team after delivering the last 10 packets

Thank you for the support that makes this effort possible.