MAKING A FEDERAL CASE FOR COMPUTING

Peter Harsha
Director of Government Affairs
CRA

Snowbird Conference 2014



CRA GOVERNMENT AFFAIRS



Me



Brian Mosley Policy Analyst



Please tell me how you would rate the honesty and ethical standards of people in these different fields — very high, high, average, low, or very low? First, ... Next, ... [RANDOM ORDER]

Nev. 30-Dec. 2, 2007

	Very high/ High	Average	Low/ Very low	No opinion
	76	%	%	%
Nunes	83	15	1	
Grade-school teachers	74	20	4	1
Druggists/Pharmacists	71	96	3.	1.
Military officers	65	26	5	2
Medical doctors	64	29	7	*
Clergy	53	33	10	3
Policemen	33	38	9	
Judges	46	41	12	1.
Day-care providens	44	43	7	5
Bankers	35	49	15	
Auto medianics	25	96	17	2
TV reporters	23	49	26	1
Nevopaper reporters	22	52	26	1
Nursing home operators	21	50	25	4
Local officeholders	20	36	23	1
Lawyers	15	49	35	1
Business executives	14	54	30	2.
State officeholders	10	55	33	1
Congressmen	9	45	45	
Advertising practitioners	- 6	46	42	5
Car salesanen	5	39	53	2
Lobbyists	5	33	38	4

² Less than 0.5%





Please tell me how you would rate the honesty and ethical standards of people in these different fields — very high, high, average, low, or very low? First, ... Next, ... [RANDOM ORDER]

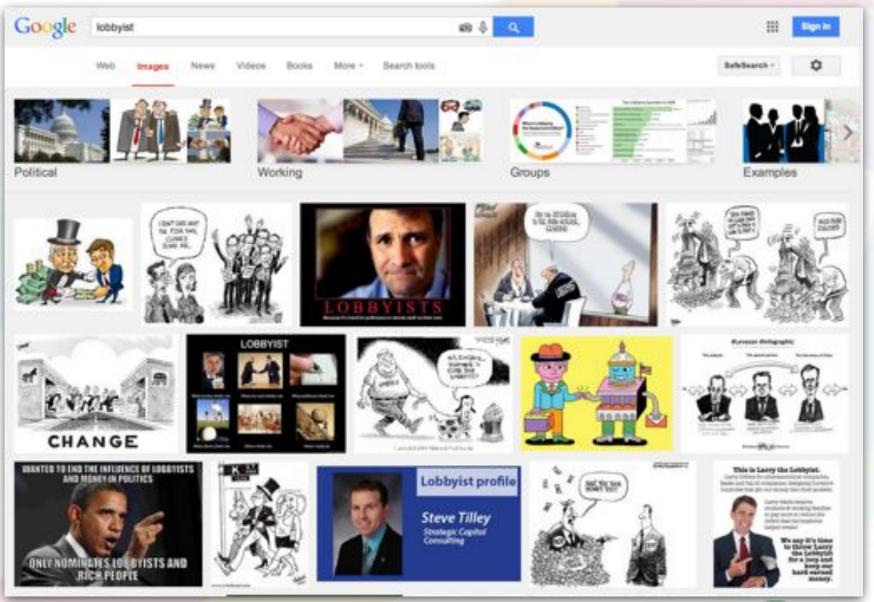
Nev. 30-Dec. 2, 2007

	Very high/ High	Average	Low/ Very low	No opinion
	%	%	%	%
Nunes	83	15	1	
Grade-school teachers	74	20	4	1
Druggists/Pharmacists	71	96	3.	1.
Military officers	65	26	5	2
Medical doctors	64	29	7	*
Clergy	53	33	10	3
Policemen	33	38	9	
Judges	46	41	12	1.
Day-care providens	44	43	7	5
Bankers	35	49	15	
Auto medunics	25	96	17	2
TV reporters	23	49	26	1
Nevopaper reporters	22	52	26	1
Nursing home operators	21	50	25	4
Local officeholders	20	36	23	1
Lawyers	15	49	35	1
Business executives	14	54	30	2.
State officeholders	10	55	33	1
Congressmen	9	45	45	
Advertising practitioners	- 6	46	42	5
Car salesanen	5	39	53	2
Lobbyists	5	33	38	4

[&]quot; Less than 0.5%









CRA COMMITTEE ON GOVERNMENT AFFAIRS

Fred Schneider, Cornell – Chair Ed Lazowska, Washington and Jeff Vitter, Kansas – Co-Chairs

Sarita Adve, Illinois
Annie Antón, GeorgiaTech
David Bader, GeorgiaTech
Wayne Bennett, ECEDHA
George Cybenko, Dartmouth
Mary Fernández, MentorNet
James Foley, GeorgiaTech
Jeff Hollingsworth, Maryland
Mary Jane Irwin, Penn State
Bob Kahn, CNRI

Sid Karin, UC San Diego
John King, Michigan
Dan Reed, Iowa
Bobby Schnabel, Indiana
Marc Snir, UIUC and Argonne
Eugene H. Spafford, Purdue
Valerie Taylor, Texas A&M
David Tennenhouse, VMWare
Jeannette M. Wing, Microsoft





1. WHY DOES CRA DO POLICY?

1. WHY DOES CRA DO POLICY?

2. THE CHALLENGES WE FACE

1. WHY DOES CRA DO POLICY? 2. THE CHALLENGES WE FACE 3. THE CASE WE MAKE

- 1. WHY DOES CRA DO POLICY?
- 2. THE CHALLENGES WE FACE
 - 3. THE CASE WE MAKE
 - 4. SOME OTHER STUFF

- 1. WHY DOES CRA DO POLICY?
- 2. THE CHALLENGES WE FACE
 - 3. THE CASE WE MAKE
 - 4. SOME OTHER STUFF

WHY DO WE "DO" POLICY?

CRA MISSION

CRA's mission is to enhance innovation by joining with industry, government and academia to strengthen research and advanced education in computing.

CRA executes this mission by leading the computing research community, informing policymakers and the public, and facilitating the development of strong, diverse talent in the field.



COMPUTING RESEARCH ASSOCIATION

We're part of an active computing policy community

- ACM Ed Policy/USACM EDUCAUSE
- code.org, Computing in the Core
- IEEE-CS/IEEE-USA
- SIAM
- CASC

- AAAI
- NCWIT
- **Industry Groups**
- EFF, EPIC, CDT...



"ENSURING THE HEALTH OF THE R&D ECOSYSTEM"

- Access to Talent
- Impediments to Research
- Research Funding and Priorities

<mark>...M</mark>oney



Andre Agassi Charitable Foundation Appalachia Service Project Appalachia Service Project Appalachia Service Project ECMC Group Military Child Education Coalition Aquarium of the Pacific Arison Family Trust Arison Family Trust Aspinalt Green Asponalt Green Federation of State Humanities Council Aspinalt Green Federation of State Humanities Council Aspinalt Green Fermi Research Alliance Monterey Bay Aquarium Mote Marrine Laboratory Asson for Homeowners Across America Field Museum Asson of Fundraising Professionals Figge Art Museum Muscular Dystrophy Asson Museum of Flight Museum of Science & Industry August Wilson Cntrl /African Amer Culture Folger Shakespeare Library August Milson Cntrl /African Amer Culture Folger Shakespeare Library Museum of the City of New York Austin Hill Country Conservancy Fort Wayne Allen County Economic Bigartistan Policy Center Fort Mayne Allen County Economic Mystic Marine Life Aquarium Bigartistan Policy Center Friends of the Griffith Observatory Bipartisan Policy Center Friends of the Griffith Observatory Bipartisan Policy Center Friends of the Griffith Observatory Bipartisan Policy Center Friends of the World Food Program Poly Socience Future of Music Coalition Roston Museum of Fine for State Courts Boston Museum of Fine for State Courts Boston Museum of Fine for State Courts Socience Music Coalition Roston Museum of Fine for State Courts Autional Conduction for History Boys & Girls Clubs of America Goodwill Industries International Roston Museum of Science Boys & Girls Town of Missouri Girl Scouts of the USA Roston Museum of Fine for Sciences Goodwill Industries International Roston Museum of Fine For Lord Roston Roston Museum Roston Museum of Fine For Lord Roston Roston Museum Roston	Amistad America	Discovery Science Center	Miami Project to Cure Paralysis
Appalachia Service Project Aquarium of the Pacific Envision Arison Family Trust Arison Family Trust Arison Family Trust Arison Science Center Arison Family Trust Fermi Research Alliance Asshalt Green Assn of Critical Care Transport Assn of Fundraising Professionals Fight Crime: Invest In Kids Auseum of Latin American Art Attic Correctional Services First Candle August Wilson Cntr/African Amer Culture August Wilson Cntr/African Amer Culture August Hill Country Conservancy For Wayne Allen County Economic Bigartisan Advocacy Center Bigartisan Advocacy Center Bigartisan Policy Ctenter Boston Museum of Sience Friends of the Griffith Observatory Boston Museum of Sience Friends of the World Food Program Boston Museum of Sience Friends of the World Food Program Boston Museum of Sience From the Top Boys & Girls Clubs of America Boys & Girls Town of Missouri Gori Boys & Girls Town of Missouri Gori Boys & Girls Town of Missouri Gori Scoutes of America God's Lowe We Deliver National Center for Victims of Crim Roy Souts of America God's Lowe We Deliver National Community Action Foundation Career Goral California Academy of Sciences Codowill Industries International California Academy of Sciences Codowill Industries International Career Gear God's Lowe We Deliver National Geographic Society National Geographic Society National Museum of Industrial Histor National Geographic Society National Green for All National Geographic Society National Museum of Momen in the Care Coalliton Career Gear Green Gor's Lowe We Deliver National Museum of Momen in the Career Gear Green G	An Achievable Dream Inc	Duane Morris Government Affairs	Michigan Research Institute
Aquarium of the Pacific Envision Missouri Botanical Garden Arison Family Trust Families of Flight 93 Missouri Public Transit Assn Arizona Science Center Federation of State Humanities Council Monterey Bay Aquarium Asphalt Green Fermi Research Alliance Mote Marine Laboratory Assn for Homeowners Across America Fleid Museum Muscular Dystrophy Assn Assn of Fortical Care Transport Fligd Art Museum Muscular Dystrophy Assn Assn of Fortical Care Transport Fligd Art Museum Muscular Dystrophy Assn Assn of Critical Care Transport Fligd Art Museum Museum of Flight Crime: Invest In Kids Museum of Etain American Art Attic Correctional Services First Candle Museum of Science & Industry August Wilson Cntr/African Amer Culture Folger Shakespeare Library Museum of Science & Industry August Wilson Cntr/African Amer Culture Fort Wayne Allen County Economic My Turn Inc Museum of the City of New York Austin Hill Country Conservancy Fort Wayne Allen County Economic My Turn Inc Mystic Seaport Museum of the City of New York Austin Hill Country Conservancy Fort Wayne Allen County Economic Mystic Marine Life Aquarium Fraternal Order of Eagles Mystic Seaport Museum Bipartisan Advocacy Center Friends of Charities Assn National Aquarium in Baltimore Bipartisan Policy Certer Friends of the Griffith Observatory National Aquarium in Baltimore Bipartisan Policy Certer Friends of the World Food Program National Building Museum Boston Museum of Fine Arts From the Top National Center for State Courts Music California National Center for Victims of Crim Boy Scouts of America Gody Museum of Science Future of Music Coalition National Center for Victims of Crim Boys & Girls Sclubs of America Gody Museum Green Fort National Coalition for History National Coalition for History National Foundation Center of National Down Syndrome Society Brooklyn Botanical Garden God's Love We Deliver National Museum of Industrial History Museum Green Fort All Care Coalition Green for All National Maceum of Industrial History Museum Green for All Care Coalition Green for	Andre Agassi Charitable Foundation	Duluth Children's Museum	Midpeninsula Regional Open Space Dist
Arizona Science Center Federation of State Humanities Council Monterey Bay Aquarium Arizona Science Center Federation of State Humanities Council Monterey Bay Aquarium Asphalt Green Fermi Research Alliance Mote Marine Laboratory Assn for Homeowners Across America Field Museum Museum of Flight Assn of Critical Care Transport Figge Art Museum Museum of Flight Assn of Fundraising Professionals Fight Crime: Invest In Kids Museum of Flight Assn of Fundraising Professionals Fight Crime: Invest In Kids Museum of Latin American Art Attic Correctional Services First Candle Museum of Latin American Art Attic Correctional Services First Candle Museum of Science & Industry August Wilson Cntr/African Amer Culture Folger Shakespeare Library Museum of the City of New York Austin Hill Country Conservancy Fort Wayne Allen Country Economic My Turn Inc Benetech Initiative Foundation for a Better Oregon Mystic Marine Life Aquarium Big Brothers/Big Sisters of America Fratemal Order of Eagles Mystic Seaport Museum Big Brothers/Big Sisters of America Fratemal Order of Eagles Mystic Seaport Museum Bigartisan Policy Center Friends of the Criffith Observatory National Aviary Bipartisan Policy Center Friends of the Griffith Observatory National Aviary Bipartisan Policy Center Friends of the World Food Program National Building Museum Soston Museum of Fine Arts From the Top National Genter for State Courts Boston Museum of Fine Arts From the Top National Confirmation National Center for Victims of Crim Boys Couts of America Gavi Fund National Confirmative Action Founda Boys & Girls Clubs of America Good Mill Industries International National Community Action Founda Boys & Girls Clubs of America Good Will Industries International National Geographic Society National Fire Protection Assn California Academy of Sciences Goodwill Industries International National Museum of Momen's History Museum Carne For Land Recycling Goodwill Industries International National Museum of Industrial Histor American Academy of Pittsburgh Habitat for Humanity In	Appalachia Service Project	ECMC Group	Military Child Education Coalition
Arizona Science Center Asphalt Green Asphalt Green Asphalt Green Asphalt Green Assn for Homeowners Across America Assn of Critical Care Transport Assn of Critical Care Transport Assn of Critical Care Transport Figge Art Museum Assn of Fundraising Professionals Fight Crime: Invest In Kids Museum of Elatin American Art Attic Correctional Services First Candle August Wilson Cntr/African Amer Culture Folger Shakespeare Library August Wilson Cntr/African Amer Culture Fort Wayne Allen County Economic Big Brothers/Big Sisters of America Big Brothers/Big Sisters of America Big Brothers/Big Sisters of America Bipartisan Advocacy Center Friends of Charities Assn Bipartisan Policy Center Friends of the Criffith Observatory Bipartisan Policy Center Friends of the World Food Program Bipartisan Policy Center Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program Bipartisan Policy Ctr Advocacy Network From the Top Soys & Girls Clubs of America GAVI Fund Soys & Girls Clubs of America Gays & Girls Clubs of America Goys & Girls Clubs of America Goys & Girls Clubs of America Goys & Girls Town of Missouri Girl Scouts of the USA Boys & Girls Town of Missouri Girl Scouts of the USA National Community Action Founda Boys & Girls Town of Missouri Girl Scouts of the USA National Community Renaissance Goodwill Industries International California Academy of Sciences Goodwill Industries International California Center for Land Recycling Goodwill Industries International California Science Center Foundation Gream Fiver Economic Development Fdtn Artical Assn Exchange of Industrial Risc Career Gear Greenway Foundation Artical Assn Exchange of Industrial Risc Career Gear Greenway Foundation Artical Assn Exchange of Industria Resc Center for Civic Education Habitat for Humanity International Center for Civic Education Habitat For Heart and Family Service Heart and Family Service Heart Industries Heart And Family Service Nati Commodity Supplemental Foot Pr	Aquarium of the Pacific	Envision	Missouri Botanical Garden
Arizona Science Center Asphalt Green Asphalt Green Asphalt Green Asphalt Green Assn for Homeowners Across America Assn of Critical Care Transport Assn of Critical Care Transport Assn of Critical Care Transport Flige Art Museum Assn of Fundraising Professionals Flight Crime: Invest In Kids Museum of Elight Museum of Latin American Art Attic Correctional Services First Candle August Wilson Cntr/African Amer Culture Folger Shakespeare Library August Wilson Cntr/African Amer Culture Benetech Initiative Fort Wayne Allen County Economic Big Brothers/Big Sisters of America Big Brothers/Big Sisters of America Bigartisan Advocacy Center Friends of Charities Assn Bipartisan Policy Center Friends of the Criffith Observatory Bipartisan Policy Center Friends of the Criffith Observatory Ripartisan Policy Center Bipartisan Policy Center Friends of the World Food Program Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program Bipartisan Policy Ctr Advocacy Network Bipartisan Policy Center Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program Bipartisan Policy Center Bipartisan Policy Center Friends of the World Food Program Bipartisan Policy Center Bipartisan Policy Center Boston Museum of Fine Arts From the Top National Center for State Courts Boston Museum of Science Fruture of Music Coallition From the Top National Center for Victims of Crim Boys & Girls Clubs of America GAVI Fund National Community Action Founda Boys & Girls Clubs of America God's Love We Deliver National Community Action Founda Boys & Girls Town of Missouri Girl Scouts of the USA National Community Action Founda Boys Wille God Fore Broke National Education Center National Down Syndrome Society National Middle School Assn California Academy of Sciences Godwill Industries International California Center for Land Recycling Godwill Industries International Carle Center Foundation Gream Five Economic Development Fdtn Career Gear Greenway Foundation Academy of Sciences Carlet for Lond Recycling Carlet for Civic Education Habi	Arison Family Trust	Families of Flight 93	Missouri Public Transit Assn
Asphalt CreenFermi Research AllianceMote Marine LaboratoryAssn for Homeowners Across AmericaField MuseumMuscular Dystrophy AssnAssn of Critical Care TransportFigge Art MuseumMuseum of FlightAssn of Fundraising ProfessionalsFight Crime: Invest In KidsMuseum of Editin American ArtAttic Correctional ServicesFirst CandleMuseum of Science & IndustryAugust Wilson Cntr/African Amer CultureFolger Shakespeare LibraryMuseum of the City of New YorkAustin Hill Country ConservancyFort Wayne Allen County EconomicMy Turn IncBenetech InitiativeFoundation for a Better OregonMystic Marine Life AquariumBig Brothers/Big Sisters of AmericaFraternal Order of EaglesMystic Seaport MuseumBigartisan Advocacy CenterFriends of Charities AssnNational Aquarium in BaltimoreBipartisan Policy CenterFriends of the Griffith ObservatoryNational Aquarium in BaltimoreBipartisan Policy Ctr Advocacy NetworkFriends of the World Food ProgramNational Aquarium in BaltimoreBoston Museum of ScienceFuture of Music CoalitionNational Center for State CourtsBoy Scouts of AmericaGolf Industrice CoalitionNational Coalition for HistoryBoys & Girls Clubs of AmericaGeorgian Bay ForeverNational Coalition for HistoryBoys & Girls Town of MissouriGirl Scouts of the USANational Coalition for HistoryBoys & Girls Town of MissouriGolf Scove We DeliverNational Down Syndrome SocietyBrooklyn Botanical CardenGold's Love We DeliverNational Down	•	Federation of State Humanities Council	Monterey Bay Aguarium
Assn of Critical Care Transport Assn of Critical Care Transport Assn of Fundraising Professionals Fight Crime: Invest In Kids Museum of Elight Assn of Fundraising Professionals Fight Crime: Invest In Kids Museum of Science & Industry August Wilson Cntr/African Amer Culture Folger Shakespeare Library August Wilson Cntr/African Amer Culture Fort Wayne Allen County Economic My Turn Inc Benetech Initiative Foundation for a Better Oregon Big Brothers/Big Sisters of America Big Brothers/Big Sisters of America Fraternal Order of Eagles Mystic Seaport Museum Bipartisan Advocacy Center Friends of Charities Assn Bipartisan Policy Center Bipartisan Policy Center Friends of the Griffith Observatory Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program Boston Museum of Fine Arts Boston Museum of Fine Arts Boston Museum of Fine Arts From the Top National Center for Victims of Crim Boy Scouts of America GAVI Fund Boys & Girls Clubs of America Gayl Fund Boys & Girls Clubs of America Gays Wille Go for Broke National Education Center Boysville Go for Broke National Education Center Boysville Go for Broke National Education Center Boysollyn Botanical Garden Cod's Love We Deliver Cod's Love We Deliver National Community Renaissance Boysville Go for Broke National Education Center Rooklyn Botanical Garden Cod's Love We Deliver Codifiornia Academy of Sciences Coodwill Industries International National Goographic Society National Museum of Industrial Histor CARE Action Now Great River Economic Development Fdtn National Museum of Industrial Histor Career Gear Gear Greenway Foundation Carnegie Institute Guardian Angel Holdings National Young Farmers Education At Assn of Foster Grandparents Center for Lindvidual Freedom Healey Family Foundation National Agent Profess Resource Profenter For Induvidual Freedom Healey Family Foundation National Safery Council National Safery Council National Safery Council National Safery Council	Asphalt Green	Fermi Research Alliance	
Assn of Critical Care Transport Assn of Fundraising Professionals Fight Crime: Invest In Kids Museum of Latin American Art Attic Correctional Services First Candle August Wilson Cntr/African Amer Culture August Wilson Cntr/African Amer Culture Folger Shakespeare Library August Wilson Cntr/African Amer Culture Benetech Initiative Ford Wayne Allen County Economic Big Brothers/Big Sisters of America Bigartisan Advocacy Center Friends of Charlitise Assn Bipartisan Policy Center Friends of Charlitise Assn Bigartisan Policy Center Friends of the Griffith Observatory Bigartisan Policy Center Bipartisan Policy Center Friends of the World Food Program Boston Museum of Fine Arts Boston Museum of Fine Arts From the Top Boy Scouts of America Boys Couts of America Boys & Girls Clubs of America Boys Wilson Of Missouri Gof Broke National Education Center Brooklyn Botanical Garden Gof Broke National Education Center Brooklyn Botanical Garden God's Love We Deliver California Academy of Sciences Goodwill Industries/Imetro Chicago California Academy of Science Goodwill Industries International Autional Goagraphic Society California Center for Land Recycling Godwill Industries/Imetro Chicago California Center for Land Recycling Goodwill Industries/Imetro Chicago California Center for Land Recycling Goodwill Industries/Imetro Chicago California Science Center Foundation Green for All Career Gear Green Green Greenway Foundation Green For Humanity International National Museum of Momen in the Caree Coalition Career Gear Green Green Greenway Foundation Autional Waseum of Momen in the Career Gear Green For Civic Education Harbor Heritage Society Natl Assn of Foster Grandparents Center for Civic Education Harbor Heritage Society Natl Assn of Foster Grandparents National Women's History Museum Center for Individual Freedom Healey Family Foundation Harbor Herita	•	Field Museum	· · · · · · · · · · · · · · · · · · ·
Assn of Fundraising Professionals Attic Correctional Services First Candle August Wilson Cntr / African Amer Culture Folger Shakespeare Library August Wilson Cntr / African Amer Culture Folger Shakespeare Library August Wilson Cntr / African Amer Culture Folger Shakespeare Library August Wilson Cntr / African Amer Culture Folger Shakespeare Library Big Brothers/Big Sisters of America Fraternal Order of Eagles Mystic Marine Life Aquarium Big Brothers/Big Sisters of America Fraternal Order of Eagles Mystic Seaport Museum Bipartisan Advocacy Center Friends of Charities Assn National Aquarium in Baltimore Bipartisan Policy Ctredr Friends of the World Food Program Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program Boston Museum of Fine Arts From the Top National Center for State Courts Boys Couts of America GAVI Fund Soston Museum of Science Future of Music Coalition National Center for Victims of Crim Boys & Girls Town of Missouri Girl Scouts of the USA Soirls Clubs of America Boyswille Go for Broke National Education Center National Down Syndrome Society National Goographic Society National Geographic Society National Fire Protection Assn California Academy of Sciences Goodwill Industries International National Geographic Society National Middle School Assn California Center for Land Recycling Goodwill Industries / International National Museum of Industrial Histo CARE Action Now Great River Economic Development Fdtn Arional Museum of Momen in the Care Coalition Graemy Foundation Arional Museum of Momen in the Care Gear Greenway Foundation National Museum of Momen in the Carenegie Institute Guardian Angel Holdings National Young Farmers Education Center for Civic Education Harbor Heritage Society Natl Assn of Foster Grandparents Center for Inquiry Harbor Heritage Society Natl Assn of Local Housing Finance Center for Inquiry Harbor Heritage Society		Figge Art Museum	
Attic Correctional Services August Wilson Cntri/African Amer Culture August Wilson Cntri/African Amer Culture Folger Shakespeare Library Benetech Initiative Big Brothers/Big Sisters of America Bigartisan Advocacy Center Bipartisan Policy Center Friends of the City Advocacy Network Friends of the City Firends of Eagles Mystic Seaport Museum National Aquarium in Baltimore National Aquarium in Baltimore National Advary National Advary National Advary National Loaliding Museum National Center for State Courts National Center for Victims of Crim Nov Scouts of America Govil Firends of the World Food Program National Center for Victims of Crim National Center for Victims of Crim National Condition or History National Coalition for History National Coalition for History National Coalition Founda National Community Renaissance National Goographic Society National Museum of Industrial History Museum National Museum of Industrial History Museum Natio	•		
August Wilson Cntr/African Amer Culture Austin Hill Country Conservancy Benetech Initiative Foundation for a Better Oregon Mystic Marine Life Aquarium Big Brothers/Big Sisters of America Bipartisan Advocacy Center Bipartisan Policy Center Friends of Charities Assn Bipartisan Policy Ctr Advocacy Network Biston Museum of Science Friends of the Griffith Observatory Bipartisan Policy Ctr Advocacy Network Biston Museum of Frine Arts Boston Museum of Science Friends of the World Food Program Boston Museum of Science Friends of the World Food Program Boston Museum of Science Future of Music Coalition Boys Scouts of America Boys & Girls Clubs of America Boys & Gords Coalition Boys & Girls Clubs of America Boys & Girls Clubs			
Austin Hill Country Conservancy Benetech Initiative Benetech Initiative Benetech Initiative Benetech Initiative Big Brothers/Big Sisters of America Big Brothers/Big Sisters of America Big Brothers/Big Sisters of America Bigartisan Advocacy Center Friends of Charities Assn Bipartisan Policy Center Bipartisan Policy Center Bipartisan Policy Center Boston Museum of Fine Arts Boston Museum of Fine Arts Boston Museum of Fine Arts Boston Museum of Science Boy Scouts of America Boy Scou			· · · · · · · · · · · · · · · · · · ·
Benetech InitiativeFoundation for a Better OregonMystic Marine Life AquariumBig Brothers/Big Sisters of AmericaFraternal Order of EaglesMystic Saaport MuseumBipartisan Advocacy CenterFriends of Charities AssnNational Aquarium in BaltimoreBipartisan Policy CenterFriends of the Griffith ObservatoryNational AdvairyBipartisan Policy Ctr Advocacy NetworkFriends of the World Food ProgramNational Suilding MuseumBoston Museum of Fine ArtsFrom the TopNational Building MuseumBoston Museum of ScienceFuture of Music CoalitionNational Center for State CourtsBoy Scouts of AmericaGAVI FundNational Coalition for HistoryBoys & Girls Clubs of AmericaGeorgian Bay ForeverNational Community Action FoundaBoys & Girls Town of MissouriGirl Scouts of the USANational Community Action FoundaBoys & Girls Town of MissouriGirl Scouts of the USANational Down Syndrome SocietyBrooklyn Botanical GardenGod's Love We DeliverNational Down Syndrome SocietyCalifornia Academy of SciencesGoodwill Industries InternationalNational Down Syndrome SocietyCalifornia Science Center for Land RecyclingGoodwill Industries InternationalNational Middle School AssnCalifornia Science Center FoundationGrammy FoundationNational Museum of Industrial HistorCARE Action NowGreat River Economic Development FdtnNational Museum of Momen in theCaree GearGreen for AllNational Woung Farmers EducationCarnegie InstituteGuardian Angel HoldingsNat	_		
Big Brothers/Big Sisters of America Bipartisan Advocacy Center Bipartisan Policy Center Bipartisan Policy Cert Advocacy Network Boston Museum of Fine Arts Boston Museum of Science Boston Museum of Science Boston Museum of Science Fruther of Music Coalition Boy Scouts of America Boys & Girls Clubs of Ameri			
Bipartisan Advocacy Center Bipartisan Policy Center Boston Museum of Fine Arts From the Top National Building Museum National Center for State Courts Boston Museum of Science Future of Music Coalition Boys Science Boy Scouts of America Boys & Girls Clubs of America Governian Bay Forever Boys & Girls Town of Missouri Boys & Girls Town of Missouri Boys & Girls Town of Missouri Gor Broke National Education Center Brooklyn Botanical Garden Gor Broke National Education Center Brooklyn Botanical Garden Gor Broke National Education Center Brooklyn Botanical Garden Gord's Love We Deliver National Down Syndrome Society California Academy of Sciences Goodwill Industries International California Science Center For Land Recycling Goodwill Industries/metro Chicago California Science Center Foundation Grammy Foundation Career Goalition Great River Economic Development Fdtn Care Coalition Green for All Career Gear Greenway Foundation Green Mational Safety Council Carnegie Library of Pittsburgh Habitat for Humanity International National Women's History Museum Center for Individual Freedom Harbor Heritage Society Natl Assn Exchange of Industri Resource Center for Individual Freedom Harbor Heritage Society Natl Assn of Foster Grandparents Henry Ford Museum & Greenfield Village Natl Commodity Supplemental Food Centrified Financial Planner Brd of Stds Homeownership Preservation Foundation Frogram			
Bipartisan Policy Cénter Bipartisan Policy Ctr Advocacy Network Friends of the Griffith Observatory Bipartisan Policy Ctr Advocacy Network Friends of the World Food Program National Building Museum Soston Museum of Fine Arts From the Top National Center for State Courts National Center for State Courts Boston Museum of Science Future of Music Coalition National Center for Victims of Crim Boy Scouts of America GAVI Fund National Coalition for History Boys & Girls Clubs of America Georgian Bay Forever Boys & Girls Town of Missouri Girl Scouts of the USA National Community Action Founda Boysville Go for Broke National Education Center National Down Syndrome Society Brooklyn Botanical Garden God's Love We Deliver Rational Fire Protection Assn California Academy of Sciences Goodwill Industries International California Center for Land Recycling Goodwill Industries/metro Chicago National Middle School Assn California Science Center Foundation Grammy Foundation CARE Action Now Great River Economic Development Fdtn Carec Coalition Carec Gear Greenway Foundation National Safety Council Carenegie Institute Guardian Angel Holdings National Young Farmers Education Carnegie Library of Pittsburgh Habitat for Humanity International Center for Civic Education Harbor Heritage Society Natl Assn of Foster Grandparents Center for Inquiry Hearland Family Service Natl Assn of Foster Grandparents Nati Osmen's Heart Assn Of Local Housing Finance Center for Rural Affairs Henry Ford Museum & Greenfield Village Natl Commodity Supplemental Food Centre for Science in Public Interest Hillside Family Preservation Foundation Frogram	-	9	
Bipartisan Policy Ctr Advocacy Network Boston Museum of Fine Arts Boston Museum of Fine Arts Boston Museum of Fine Arts Boston Museum of Science Boston Museum of Science Boy Scouts of America Boy Scouts of America Boys & Girls Clubs of Mational Community Action Founda Boys & Girls Clubs of America Boys & Girls Clubs of Mational Community Action Founda Boys & Girls Clubs of Mational Community Action Founda Boys & Girls Clubs of Mational Community Action Founda Boysville Boysville Brooklyn Botanical Garden God's Love We Deliver Brooklyn Botanical Garden California Academy of Sciences Goodwill Industries International California Academy of Sciences Goodwill Industries International California Science Center Foundation Grammy Foundation CARE Action Now Great River Economic Development Fdtn Care Coalition Green for All National Safety Council Career Gear Green way Foundation Carnegie Institute Guardian Angel Holdings National Women's History Museum Carnegie Library of Pittsburgh Habitat for Humanity International National Women's History Museum Center for Civic Education Harbor Heritage Society Natl Assn of Foster Grandparents Center for Individual Freedom Healey Family Foundation Natl Assn of Local Housing Finance Center for Rural Affairs Henry Ford Museum & Greenfield Village Center for Science in Public Interest Hillside Family of Agencies Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds			•
Boston Museum of Fine Arts Boston Museum of Science Boston Museum of Science Boston Museum of Science Boy Scouts of America Boy Scouts of America Boy Se Girls Clubs of America Boy Se Girls Clubs of America Boy Se Girls Clubs of America Boy Se Girls Town of Missouri Brooklyn Botanical Garden Boy Sville Brooklyn Botanical Garden God's Love We Deliver California Academy of Sciences Goodwill Industries International California Academy of Sciences California Center for Land Recycling Godwill Industries International California Science Center Foundation Care Coalition Care Coalition Care Coalition Care Coalition Care Coalition Carea River Economic Development Fdtn Careagie Library of Pittsburgh Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Healey Family Foundation Natl Assn of Foster Grandparents Center for Inquiry Center for Inquiry Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Heilside Family of Agencies Certified Financial Planner Brd of Stds National Center for State Courts National Museum of Houstrial History National Museum of Industrial History National Museum of Momen in the Mathory National Museum of Industrial History National Museum of Momen in the Mathory National Museum of Momen in th		•	
Boston Museum of Science Boy Scouts of America Boys & Girls Clubs of America Boys & Girls Clubs of America Boys & Girls Clubs of Missouri Boys & Girls Town of Missouri Boys & Girls Town of Missouri Boys & Girls Town of Missouri Boysville Brooklyn Botanical Garden Go for Broke National Education Center Brooklyn Botanical Garden God's Love We Deliver Brooklyn Botanical Garden California Academy of Sciences Goodwill Industries International California Academy of Sciences California Science Center For Land Recycling California Science Center Foundation California Science Center Foundation Care For Land Recycling Goodwill Industries/metro Chicago National Middle School Assn California Science Center Foundation Care Goalition Care Goalition Care Goalition Care Goalition Careen for All Careen Gear Green for All Careen Gear Greenway Foundation Carnegie Institute Carnegie Institute Carnegie Library of Pittsburgh Habitat for Humanity International National Young Farmers Education Carner for Civic Education Harbor Heritage Society Natl Assn Exchange of Industri Resc Center for Inquiry Heartland Family Foundation Natl Assn of Local Housing Finance Center for Inquiry Heartland Family Service Natl Assn/Univ Forest Resource Pro Center for Rural Affairs Henry Ford Museum & Greenfield Village Natl Cltn for Women with Heart Disc Center for Rural Affairs Homeownership Preservation Foundation Program			
Boy Scouts of America Boys & Girls Clubs of America Boys & Girls Town of Missouri Girl Scouts of the USA Boysville Brooklyn Botanical Garden Boys & Gorls Broke National Education Center Brooklyn Botanical Garden Boys & Godwill Industries International Boys & Great For Land Recycling California Academy of Sciences California Center for Land Recycling California Science Center Foundation CARE Action Now Great River Economic Development Fdtn Care Coalition Career Gear Green way Foundation Careen Gear Greenway Foundation Carnegie Institute Carnegie Institute Carnegie Library of Pittsburgh Carnegie Library of Pittsburgh Habitat for Humanity International Center for Civic Education Harbor Heritage Society Center for Inquiry Healey Family Foundation Center for Inquiry Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Hillside Family of Agencies Certified Financial Planner Brd of Stds National Community Action Pational National Community Action Pational Palaner Brd of Stds National Community Action Pational Community Action Pational National Down Syndrome Society National Goodwill Industries International National Geographic Society National Museum of Industrial History National Museum of Industrial History National Museum of Industrial Planner Brd of Stds National Museum On Heater Discontinuation National Museum of Heater Discontinuation Program			
Boys & Girls Clubs of America Boys & Girls Town of Missouri Boys & Girls Town of Missouri Girl Scouts of the USA Boysville Go for Broke National Education Center Brooklyn Botanical Garden California Academy of Sciences California Academy of Sciences Goodwill Industries International California Science Center Foundation California Science Center Foundation CARE Action Now Carea River Economic Development Fdtn Carea Gar Carea Gear Carea Gear Carea Guardian Angel Holdings Carnegie Library of Pittsburgh Carnegie Library of Pittsburgh Canter for Civic Education Center for Inquiry Center for Inquiry Center for Rural Affairs Center for Science in Public Interest Cettified Financial Planner Brd of Stds National Pommunity Action Foundadissance National Community Action Foundadissance National Community Action Foundadissance National Community Renaissance National Down Syndrome Society National Freetction Assn National Foretction Assn National Freetction Assn National Geographic Society National Middle School Assn National Middle School Assn Carmy Foundation National Museum of Industrial History National Museum of Momen in the Academy Foundation National Safety Council National Safety Council National Women's History Museum National Women's History Museum Carnegie Library of Pittsburgh Habitat for Humanity International Natl Assn Exchange of Industri Resc Center for Inquiry Heartland Family Foundation Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Assn/Univ Forest Resource Pro- Natl Commodity Supplemental Food Center for Science in Public Interest Hillside Family of Agencies Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds			
Boys & Girls Town of Missouri Boysville Boysvi	•		•
Boysville Go for Broke National Education Center National Down Syndrome Society Brooklyn Botanical Garden God's Love We Deliver National Fire Protection Assn California Academy of Sciences Goodwill Industries International National Geographic Society California Center for Land Recycling Goodwill Industries/metro Chicago National Middle School Assn California Science Center Foundation Grammy Foundation National Museum of Industrial History CARE Action Now Great River Economic Development Fdtn National Museum of Women in the Acare Coalition Green for All National Museum of Women in the Acare Goalition Green for All National Women's History Museum Carnegie Institute Guardian Angel Holdings National Young Farmers Education Acaregie Library of Pittsburgh Habitat for Humanity International Natl Assn Exchange of Industri Resconder for Civic Education Harbor Heritage Society Natl Assn of Foster Grandparents Center for Individual Freedom Healey Family Foundation Natl Assn of Local Housing Finance Center for Rural Affairs Heart Disconder for Rural Affairs Henry Ford Museum & Greenfield Village Natl Cltn for Women with Heart Disconder for Science in Public Interest Hillside Family of Agencies Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds	•		
Brooklyn Botanical Garden California Academy of Sciences California Academy of Sciences California Center for Land Recycling California Science Center Foundation CARE Action Now Care Coalition Care Coalition Career Gear Career Gear Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Center for Individual Freedom Center for Individual Freedom Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Cod's Love We Deliver Cooduliver Coodulitor Coodwill Industries International National Geographic Society National Middle School Assn National Museum of Industrial History National Museum of Women in the Anational Museum Anational National Women's History Museum Anational Museum An	•		
California Academy of Sciences California Center for Land Recycling California Center for Land Recycling California Science Center Foundation CARE Action Now Care Coalition Care Coalition Career Gear Career Gear Carengie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Center for Individual Freedom Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds National Moseum of National Museum of Women in the National Safety Council National Safety Council National Safety Council National Women's History Museum National Women's History Museum National Young Farmers Education Natl Assn Exchange of Industri Rescuence From Natl Assn of Foster Grandparents Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Assn of Local Housing Finance Natl Commodity Supplemental Food Natl Commodity Supplemental Food Natl Commodity Supplemental Food Program	•		
California Center for Land Recycling California Science Center Foundation CARE Action Now Care Coalition Career Gear Career Gear Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Inquiry Center for Inquiry Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds California Science Center Foundation Crammy Foundation Crammy Foundation Crammy Foundation Crammy Foundation Crammy Foundation Creater River Economic Development Fdtn National Museum of Women in the Actional Museum of Women in the Actional Safety Council National Safety Council National Safety Council National Women's History Museum National Women's History Museum National Voung Farmers Education Natl Assn Exchange of Industri Resource Natl Assn of Foster Grandparents Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Cltn for Women with Heart Discounter for Science in Public Interest Hillside Family of Agencies Natl Commodity Supplemental Food Program			
California Science Center Foundation CARE Action Now Great River Economic Development Fdtn Care Coalition Green for All Career Gear Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Inquiry Center for Inquiry Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Antional Museum of Industrial Histor Carney Industrial Histor Carney Great River Economic Development Fdtn National Museum of Industrial Histor National Museum of Homen in the Antional National Museum of Women in the Antional Handson in History Museum National Museum of Women in the Antional Handson Industrial Histor National Museum of Women in the Antional Handson Industrial Histor National Museum of Women in the Antional Handson Industrial Histor National Museum of Women in the Antional Handson Industrial Histor National Museum of Women in the Antional Handson Industrial Histor National Museum of Women in the Antional Handson Industrial H			
CARE Action Now Care Coalition Career Gear Career Gear Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Inquiry Center for Rural Affairs Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Great River Economic Development Fdtn National Museum of Women in the Actional Safety Council National Safety Council National Women's History Museum National Young Farmers Education Natl Assn Exchange of Industri Resorber for Library of Pittsburgh Natl Assn Exchange of Industri Resorber for Industriant Natl Assn of Foster Grandparents Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Commodity Supplemental Footeners Natl Commodity Supplemental Footeners Program			
Care Coalition Career Gear Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Center for Inquiry Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Green for All National Safety Council National Women's History Museum National Young Farmers Education National Young Farmers Education Natl Assn Exchange of Industri Resord Natl Assn of Foster Grandparents Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Assn/Univ Forest Resource Pro- Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds Natl Commodity Supplemental Food Program			· ·
Career Gear Carnegie Institute Carnegie Library of Pittsburgh Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Center for Inquiry Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Greenway Foundation Guardian Angel Holdings National Women's History Museum National Young Farmers Education Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Assn/Univ Forest Resource Production Natl Assn/Univ Forest Resource Production Natl Cltn for Women with Heart Discount of Agencies Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds Homeownership Preservation Foundation Program			
Carnegie Institute Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Center for Inquiry Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Cardian Angel Holdings Habitat for Humanity International Habitat for Humanity International Habitat for Humanity International Habitat for Humanity International Natl Assn Exchange of Industri Resordance Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Assn/Univ Forest Resource Production Natl Assn/Univ Forest Resource Production Natl Cltn for Women with Heart Discondition Natl Commodity Supplemental Food Natl Commodity Supplemental Food Program			
Carnegie Library of Pittsburgh Center for Civic Education Center for Individual Freedom Center for Inquiry Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Habitat for Humanity International Habitat for Humanity International Natl Assn Exchange of Industri Resonance Natl Assn of Foster Grandparents Natl Assn of Local Housing Finance Natl Assn/Univ Forest Resource Production Natl Assn/Univ Forest Resource Production Natl Cltn for Women with Heart Disconance Natl Commodity Supplemental Food Natl Commodity Supplemental Food Program			
Center for Civic Education Center for Individual Freedom Center for Inquiry Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Harbor Heritage Society Hearbor Heritage Society Healey Family Foundation Natl Assn of Foster Grandparents			
Center for Individual Freedom Center for Inquiry Heartland Family Service Heartland Family Service Natl Assn of Local Housing Finance Natl Assn of Local Housing Finance Natl Assn of Local Housing Finance Natl Assn/Univ Forest Resource Pro- Natl Assn/Univ Forest Resource Pro- Natl Cltn for Women with Heart Disc Center for Science in Public Interest Hillside Family of Agencies Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds Homeownership Preservation Foundation Program			
Center for Inquiry Center for Rural Affairs Henry Ford Museum & Greenfield Village Center for Science in Public Interest Certified Financial Planner Brd of Stds Heartland Family Service Henry Ford Museum & Greenfield Village Henry Ford Museum & Greenfield Village Natl Cltn for Women with Heart Disconnection Natl Commodity Supplemental Food Program			
Center for Rural Affairs Center for Science in Public Interest Certified Financial Planner Brd of Stds Henry Ford Museum & Greenfield Village Hillside Family of Agencies Homeownership Preservation Foundation Natl Cltn for Women with Heart Disconnership Preservation Foundation			
Center for Science in Public Interest Hillside Family of Agencies Natl Commodity Supplemental Food Certified Financial Planner Brd of Stds Homeownership Preservation Foundation Program			
Certified Financial Planner Brd of Stds Homeownership Preservation Foundation Program			
I Chabat Coasa R Caisasa Cautan IIONODafaura IIONODafaura		·	
· ·			Natl Conf of Cmsrs on Uniform State Lav
			Natl Immigration Forum Action Fund
			Natl Museum of American Jewish History
			Natl Underground Railroad Freedom Ce
Children's Discovery Museum of San Jose Independent Sector Naval Aviation Museum Foundation			Naval Aviation Museum Foundation

Affilstad Afflerica	Discovery Science Center	Miami Project to Cure Paralysis
		Natl Museum of American Jewish History
		Natl Underground Railroad Fr £1 dom Ce
Children La Museum of Heuston	Impeleuse for Cerudone Aplicusonome	Nahamiah Cama at Amazina

Arison Family Trust	Families of Elight 93	Missouzi Public Transit Assn
Arizona Science Center	Federal Control of Control	Moy ar v Bay Aguarium
Asphalt Green	First Back A. Acc	Moto Marine Laboratory
Assn for Homeowners Across America	Lobbyists (F	Marul r Dystrophy Assn
	Figge Art Museum	Museum of Flight
		Natl Underground Railroad Fr 44 dom Ce

Arison Family Trust	Families of Flight 93	Missouzi Public Transit Assn
Arizona Science Center	Lobbyists (F	Marzar v Ray Aquarium
Achalt Croon	I ANNVICTO IL	Mos Wrine Laboratory
Aspirant Green	TODOA1919 IL	Mote Willie Laboratory
Assir for nomeowners across america	Fings Aut Museum	Museum of Flight
	Figge Art Museum	
	First Candle	
	Fc-Br spear and	
	For Wayng Allen Courty I momi	
	Foundation for a Bette Orego	
	Frail rip the least to the second	
	Friends of Charties Assn	
		Natl Museum of American Jewish History
		Natl Underground Railroad Fr $rac{1}{2}$ dom Ce

Bipartisan Policy Ctr Advocacy Network

Boston Museum of Fine Ats Obby Ing MacLox Denditues for State Courts

Boston Museum of Science Obby Ing MacLox Denditues for Victims of Cri

Boy Scouts of America

Boys & Girls Clubs of America

Friends of the World Food Program

National Building Museum

National Natl Underground Railroad Fr 14dom Ce Arison Family Trust
Arizona Science Center
Asphalt Green
Assn for Homeowners Across America

Families of Flight 93

For Do Do Do State (FY Modern's Bay Aquarium Homeowners Across America FY Modern's Bay Aquariu California Science Center Foundation

Bipartisan Policy Ctr Advocacy Network

Boston Museum of Fine Ats Obby Index Tole Courts

Boston Museum of Science Obby Index Tole Courts

Boy Scouts of America

Boys & Girls Clubs of America

Control Four Program

National Building Museum

Roys & Girls Clubs of America

National Building Museum

Nation National Down Syndrome Society

Social Control Education Center

Control National Down Syndrome Society

National Fire Protection Assn

National Geographic Society

National Middle School Assn

National Museum of Industrial History

Natl Underground Railroad Fr 14dom Ce

Arison Family Trust
Arizona Science Center
Asphalt Green
Assn for Homeowners Across America

Families of Flight 93

For Do Do Do State (FY Modern's Bay Aquarium Homeowners Across America FY Modern's Bay Aquariu Bipartisan Policy Ctr Advocacy Network

Boston Museum of Fine Ats Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby Ing Museum Obby Ing Museum of Crown of America

Boy Scouts of America

Boy Scouts of America

Control Pay Forever

Control Pay Forever

National Building Museum

National Buil California Science Center Foundation

Working "S&T"

National Down Syndrome Society

Conductive Delia

Natl Underground Railroad Fr 14dom Ce

Arison Family Trust
Arizona Science Center
Asphalt Green
Assn for Homeowners Across America

Families of Flight 93

For Do Do Do State (FY Modern's Bay Aquarium Homeowners Across America FY Modern's Bay Aquariu Bipartisan Policy Ctr Advocacy Network

Boston Museum of Fine Ats Obby Ing Tolexpedical Policy Ctr Advocacy Network

Boston Museum of Science Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby Ing Museum

Boston Museum of Science Obby Ing Museum Obby California Science Center Foundation

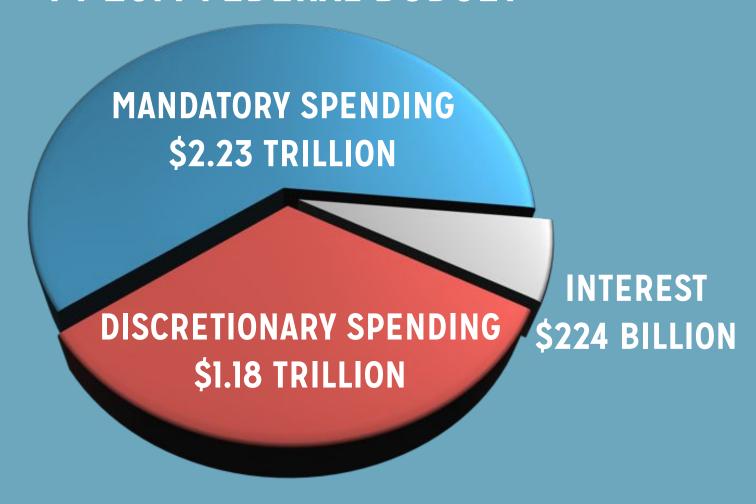
Working "S&T" nfield Village

National Down Syndrome Society

Conductive Delia

Natl Underground Railroad Fr 14dom Ce







DISCRETIONARY SPENDING \$1.18 TRILLION

DISCRETIONARY SPENDING \$1.18 TRILLION

DISCRETIONARY SPENDING \$1.18 TRILLION

Agriculture CJS

Defense

Energy and Water

Financial Services

Homeland Security

Interior and Environment

Labor/HHS/Education

Legislative Branch

Military/Veterans

State/Foreign Ops

Transportation/HUD

APPROPRIATIONS IS A ZERO-SUM GAME

Commerce, Justice, Science Bill

- National Science Foundation
- NIST
- NOAA
- NASA
- FBI / Dept. of Justice
- Census



NSF, COPS OR SPACESHIPS?

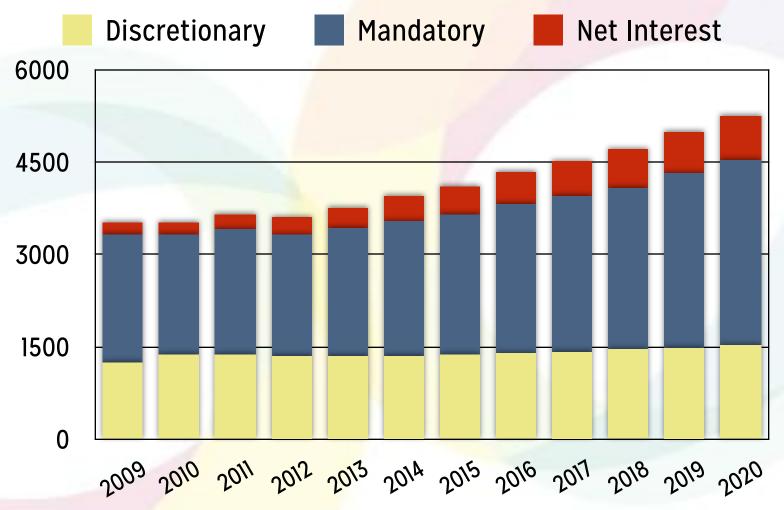


THE CHALLENGES WE FACE

FISCAL REALITIES...



Growth in Mandatory Spending vs. Discretionary





Running the government on 8¢

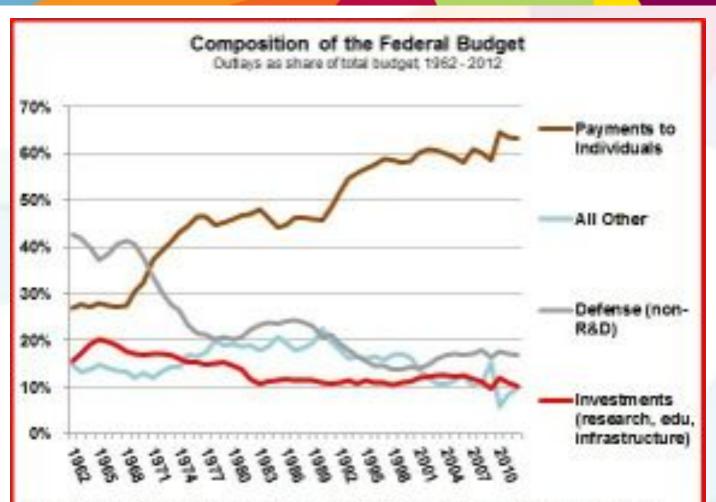
BY 2020, FOUR BIG ITEMS COULD SUCK UP 92% OF TAX DOLLARS



EVERYTHING ELSE Children's nutrition, thirder security, fixed safety and respective, Dreader relief, Forest service, Drug Entoncement Administration, Fublic housing, RSE Ahmed & plant health inspection, Federal courts, Sureau of Indian Affairs, NASA, Army fractional Endowment for the Arts, Air Force, Federal student learns, Mareau, thirde development, U.S. Coast Coard, Food etamps, National part service, Income assistance, Ferrells services, Research and Servicephent, U.S. Geological Sorrier, Environmental Protection Agency, Centers for Diseases Control FEMA, Introgration and coastants, Secret Service, FAA, Housing for the elderly, Federal Railroad Administration, Nasy, Sureau of Land Management, Federal prison system, Peace Corps, FCC, State Department, National Sciences Foundation, Congress, Feb and Widdle Service, White House, SEC, Smithodays Institute, Small Sureau Administration, Fit, Federal Highway Administration.

PROFO JOHN A. DOODS ACCUMENTARY TOUGH SEVERISHED ACCOUNTABLITY OFFICE





Source: Budget of the United States Government, FY 2014. "Investments" include outlays for R&D, education and training, direct nondefense infrastructure, and grants for transportation and other physical capital. "Payments to Individuals" are primarily entitionment programs like Medicare, Medicaid, and Social Security, but also include many other public assistance programs. See OMB Historical Table 11.3 for details. © 2014 AAAS



ATTITUDES HAVE CHANGED



THIS MAY SEEM LIKE A DIGRESSION...BUT I HAVE A POINT





- Managed the IT R&D Portfolio
- Also, the National Earthquake Hazards Reduction Program and the U.S. Fire Administration







OK, THAT WAS A DIGRESSION









Rep. Nick Smith (R-MI) served 1993 - 2005



THE NEW YORK TIMES BESTSELLER

SPEECH*LESS

TALES OF A WHITE HOUSE SURVIVOR

"This year's most entertaining "Deft, surprising, darmed book about what goes on -or doesn't-in Washington entertaining." -CHRISTOPHER BUCKLEY Don't miss this." -AMERICAN SPECTATOR Former Speechwriter to the President

- Smith was somewhat atypical for a Science subcommittee Chair
- Self-styled "Budget Hawk"
- Bit of a maverick not afraid to buck party leaders, but didn't do it much



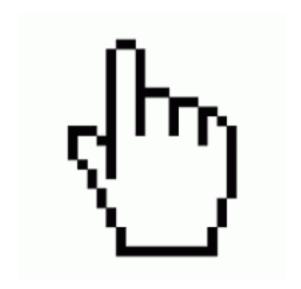
- Trepidation in the Science Advocacy Community over his chairmanship
- Rightfully so he wasn't well-versed in science and a staunch advocate for cutting Federal spending
- He started his term, at best, agnostic
- He ended his tenure as a champion of science



"Sum of All Knowledge"









- Smith and Sensenbrenner, despite
 disagreements with the Administration and
 NSF, didn't use the committee to score
 political points
- Long-standing tradition on the committee to not advance bills that couldn't be passed unanimously
- Staff of committee had subject-matter expertise

SCIENCE COMMITTEE PAST



- Comity and bipartisanship on the committee probably peaked in about 2007-8 with Gathering Storm and the America COMPETES Act
- Breakdown started in earnest in 2010, during reauthorization of COMPETES
- GOP tried to kill bill to deny Dems a win in an election year



- In 2012, Sen. Tom Coburn attacked NSF as wasteful for "silly-sounding" research
- In 2013, Coburn/McCain and Cantor/L. Smith attacked NSF over political science and social science funding
- L. Smith attacks Dept. of Energy over Climate Change and Sustainability research
- L. Smith amends CJS to target SBE



FIRST ACT DEBACLE

- Reauthorization of COMPETES Act
- NSF "Accountability"
- Reduced funding overall
- Specific cuts to SBE
- Energy R&D Act similarly partisan



- Committee essentially at a standstill
- Exodus of experienced GOP staffers
- Things could get worse
 - Cantor, who was a big proponent of the FIRST Act, lost his primary to another Tea Party candidate who claimed he wasn't conservative enough....



CONGRESS IS MORE POLARIZED THAN EVER

- Not a single Democratic Senator was more conservative than any GOPer. Not a single GOP Senator is more liberal than any Dem.
- The House is equally polarized, with only five GOPers ranking more liberal than the most conservative Dem, and only four Dems more conservative than the most liberal Republican.

From a 2011 National Journal Study of the 2010 election cycle.



CONGRESS IS MORE POLARIZED THAN EVER

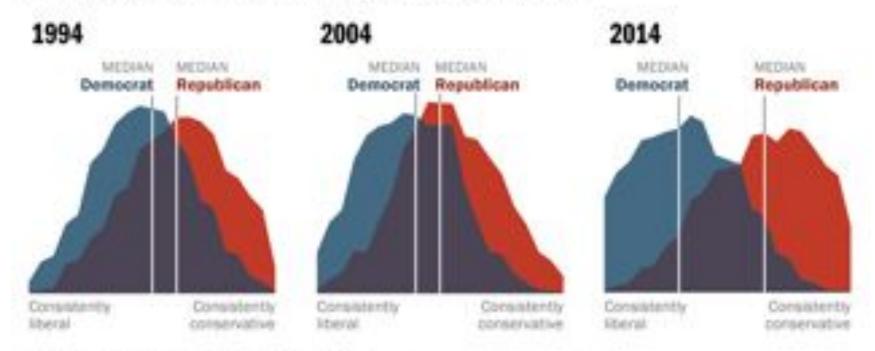
 Of the 98 Democrats who had the most middle-of-the-road voting records in the last Congress, 55 of their seats are now in GOP hands.

From a 2011 National Journal Study of the 2010 election cycle.



Democrats and Republicans More Ideologically Divided than in the Past

Distribution of Democrats and Republicans on a 10-item scale of political values



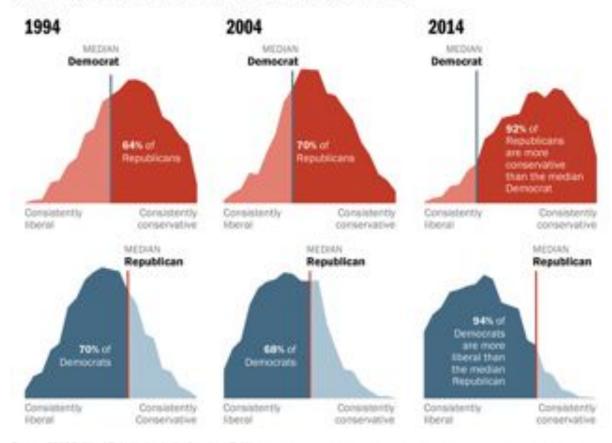
Source: 2014 Political Potentation in the American Public

Notes: Ideological considency based on a scale of 1D political values questions (see Appendix A). The blue area in this chart represents the Ideological distribution of Democrats, the red area of Republicans. The overlap of these two distributions is shaded purple. Republicans, Include Republicani leaving independents: Democrats include Democratic-leaving independents (see Appendix III).

PEW RESEARCH CENTER.

Republicans Shift to the Right, Democrats to the Left

Distribution of Republicans and Democrats on a 10-item scale of political values



Source: 2014 Political Polaritation in the American Public.

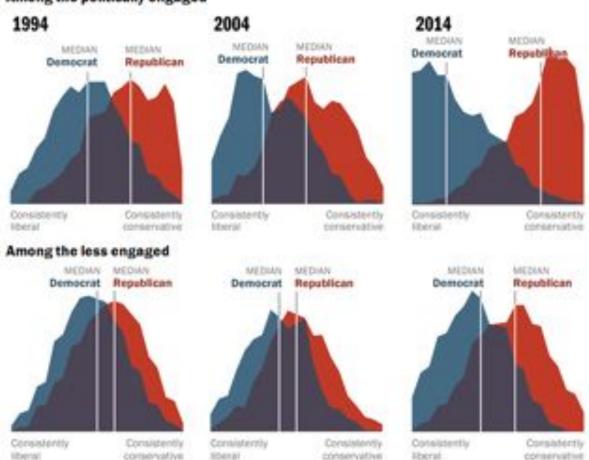
Notes, Ideological consistency based on a scale of 10 political values questions (see Appendix A). Republicans include Republican learning independents. Denocrats include Democratic-learning independents (see Appendix II).

PEW RESEARCH CENTER.

Polarization Surges Among the Politically Engaged

Distribution of Democrats and Republicans on a 10-item scale of political values, by level of political engagement

Among the politically engaged



Source: 2014 Political Polarization in the American Public

Notes: Idealogical consistency based on a scale of 20 political values questions (see Appendix A). Republicans include Republican Hearing Independents, Democratic Include Democratic learning independents (see Appendix 8). Politically engaged are defined as those who are registered to vote. Follow government and public affairs most of the time and say they vote always or nearly always.

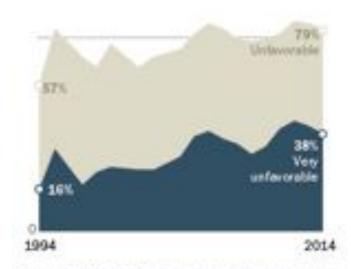
PEW RESEARCH CENTER

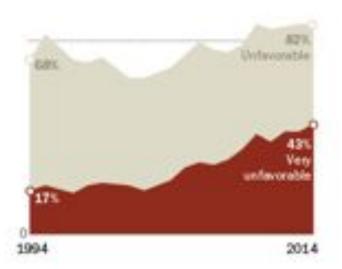
A Rising Tide of Mutual Antipathy

Democratic attitudes about the Republican Party

100%-----

Republican attitudes about the Democratic Party 100%.





Source: 2014 Political Polarization in the American Public
Notes: Republicans Include Republican-leaning Independents; Democrats Include Democratic-leaning Independents.

PEW RESEARCH CENTER

SO THE CHALLENGES ARE DAUNTING



AND WE HAVE A MUCH MORE LIMITED TOOL BOX...



FORTUNATELY, WE'VE GOT A PRETTY GOOD STORY

TALKING POINTS



INFORMATION TECHNOLOGY R&D AND U.S. INNOVATION

- Advances in information technology are transforming all aspects of our lives: commerce, education, employment, health care, manufacturing, government, national security, communications, entertainment, science, and engineering.
- Advances in information technology also drive our economy both directly (the growth of the IT sector itself) and in productivity gains across the economy. Advances in computing are enabling innovation in all fields.
- The history of innovation in computing is impressive, but the future opportunities are even more compelling: the future of networking, revolutionizing transportation, personalized education, powering the smart grid, empowering the developing world, improving health care, enabling advanced manufacturing, driving advances in all fields of science and engineering.

It's impossible to imagine a field with greater opportunity to change the world.

• The IT R&D ecosystem is crucial to continued innovation in IT, and federal support is at the heart of that ecosystem. Essentially every aspect of IT upon which we rely today bears the stamp of federal support.

"In order to sustain and improve our quality of life, it is crucial that the United States continue to innovate more rapidly and more creatively than other countries in important areas of IT. Only by continuing to invest in core IT science and technology will we continue to reap such enormous societal benefits in the decades to come."

 President's Council of Advisors for Science and Technology (in *Designing a Digital Future*, December 2010)



Advances in IT are transforming all aspects of our lives





Conduct commerce...





...how we learn...







...our employment...



...our health care...



...how we manufacture...







...how government functions...

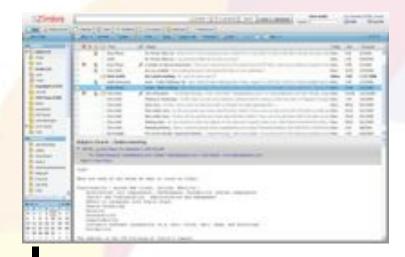


...how we preserve our national security...













...how we communicate...



...and how we're entertained.











Advances in IT also drive our economy



- Computing drives our economy, not just through the growth of the IT industry, but also through productivity gains across the entire economy
- Remarkable economic growth between '95 and '02 was spurred by productivity growth enabled almost completely by factors related to IT¹
- IT enables productivity growth, enables the economy to run at full capacity, enables goods to be allocated more efficiently and the production of higher quality goods and services²

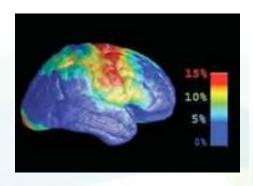
^{1.} Jorgenson, Dale W., Mus S. Ho, and Kevin J. Stiroh. Productivity, Volume 3: Information Technology and the American Growth Resurgence. MIT Press. 2005.

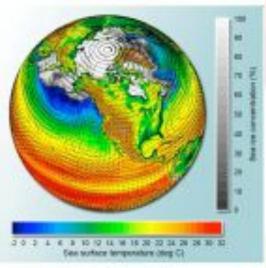
^{2.} Atkinson, Robert D., Andrew S. McKay. Digital Prosperity: Understanding the Economic Benefits of the Information Technology Revolution. Information Technology and Innovation Foundation. 2007.

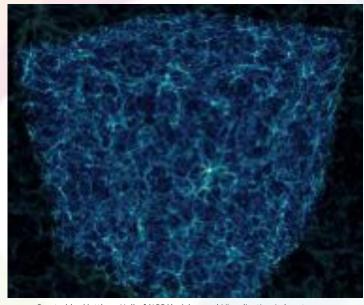
Advances in computing are enabling innovation in all other fields...



In Science and Engineering...







Created by Matthew Hall of NCSA's Advanced Visualization Laboratory

Computer modeling, visualization and data analysis have joined observation, theory, and experiment as the drivers of scientific discovery.

The history is impressive, but the future is even more compelling



- The future of networking
- Revolutionizing transportation
- Delivering personalized education
- Enabling the smart grid
- Empowering the developing world
- Improving health care
- Driving advances in *all* fields of S&E



It's impossible to imagine a field with greater opportunity to change the world



The IT R&D ecosystem is crucial to innovation in IT, and federal support is at the heart of that ecosystem

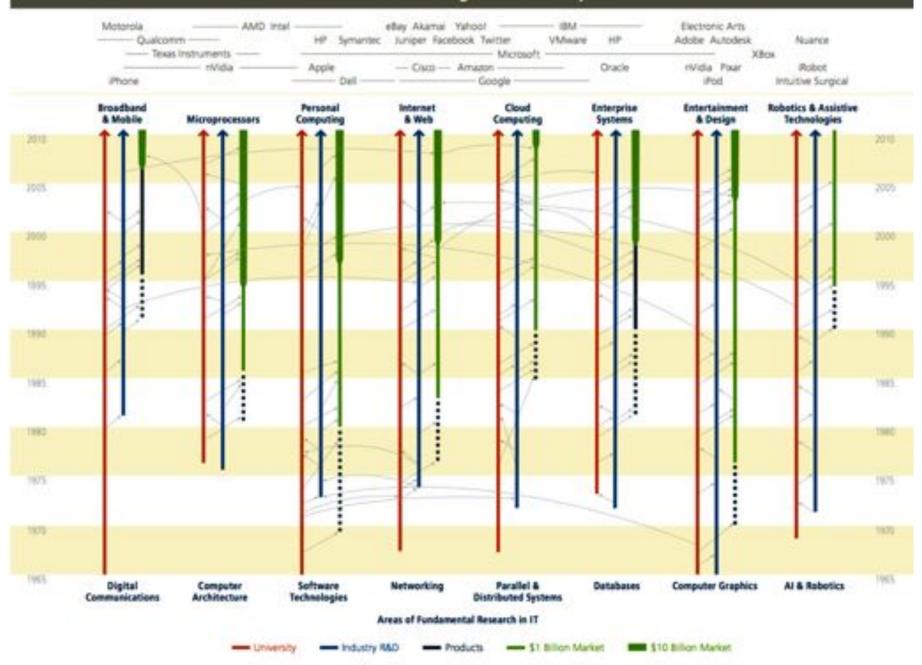


"[An] extraordinarily productive interplay of federally funded university research, federally and privately funded industrial research, and entrepreneurial companies founded and staffed by people who moved back and forth between universities and industry."

-NRC on the federal IT R&D Program



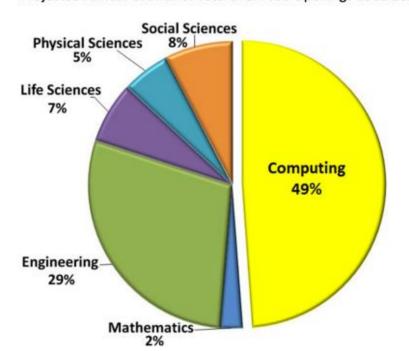
IT Sectors With Large Economic Impact





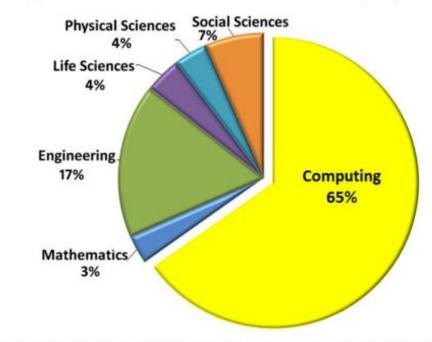
Where the STEM Jobs Will Be

Projected Annual Growth of Total STEM Job Openings 2012-202



Where the STEM Jobs Will Be

Projected Annual Growth of NEWLY CREATED STEM Job Openings 2012-2022

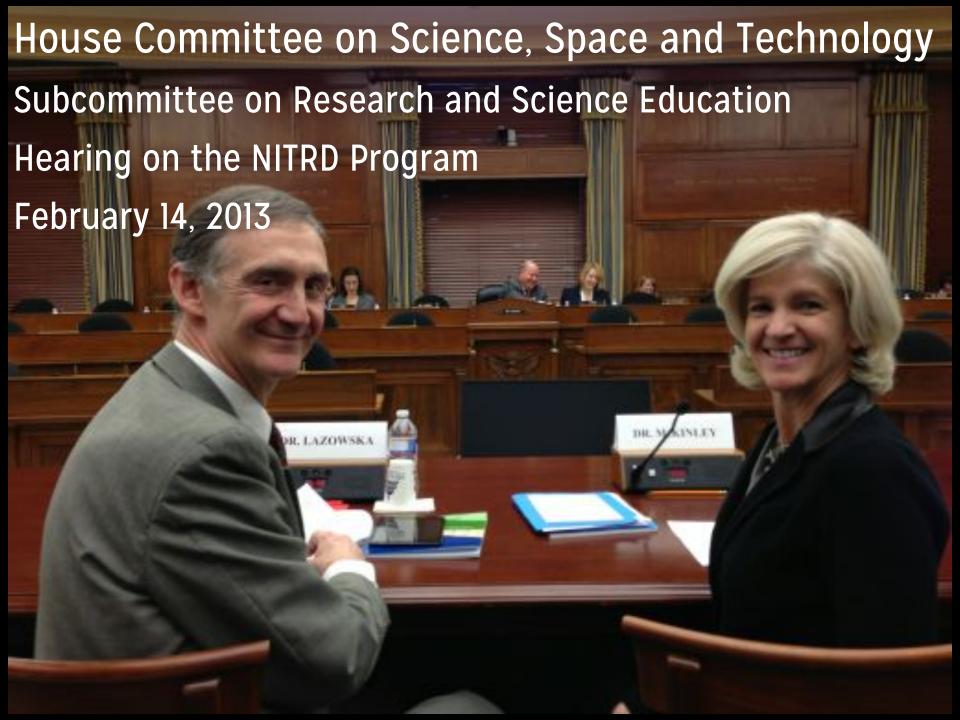


Source: Jobs data are calculated from the Bureau of Labor Statistics (BLS), Employment Projections 2012-2022, available at http://www.bls.gov/emp/
Courtesy of Association for Computing Machinery (acm.org).

WE'RE OPPORTUNISTIC...

Congressional testimony





WE'RE OPPORTUNISTIC...

- Congressional testimony
- We host our own events and partner with others





CRA's Congressional Fall Fly-In

September 2013





Deconstructing The iPad

How Federally Supported Research Leads to Game-Changing Innovation













DECONSTRUCTING...

amazon

Fall 2014?



WE'RE OPPORTUNISTIC...

- Congressional testimony
- We host our own events and partner with others
- We've developed a good "brand"
- We strive to engage the community in policymaking LiSPI



WE'RE OPPORTUNISTIC...

- Part of a broader science advocacy community that's looking for good stories to tell
- Join coalitions around our interests
 - CNSF, CNSR, TFAI, ESC, CinC
- We leverage our interactions with the press



We leverage social media (or try to...)



http://cra.org/blog

On Facebook

@CRATweets



AND WE'VE HAD SOME SUCCESS...

"This is our generation's Sputnik moment. Two years ago, I said that we needed to reach a level of research and development we haven't seen since the height of the Space Race. In a few weeks, I will be sending a budget to Congress that helps us meet that goal. We'll invest in biomedical research, information technology, and especially clean energy technology - an investment that will strengthen our security, protect our planet, and create countless new jobs for our people."





If we want America to stay on the cutting edge, we need young Americans to master the tools and technology that will change the way we do just about everything.

- President Obama in a video on behalf of the Hour of Code





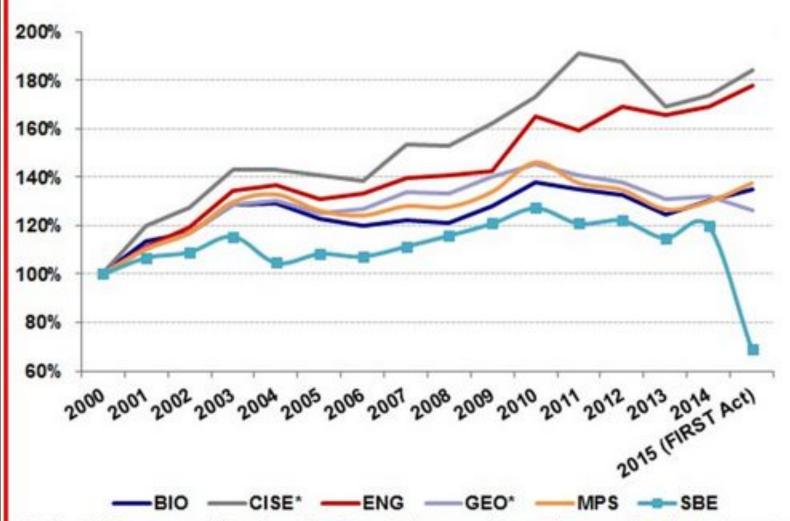
NSF's entire increase is provided to core research and education activities, which are critical to innovation and U.S. economic competitiveness, including funding for an advanced manufacturing science initiative and for research in cyber-security and cyberinfrastructure.





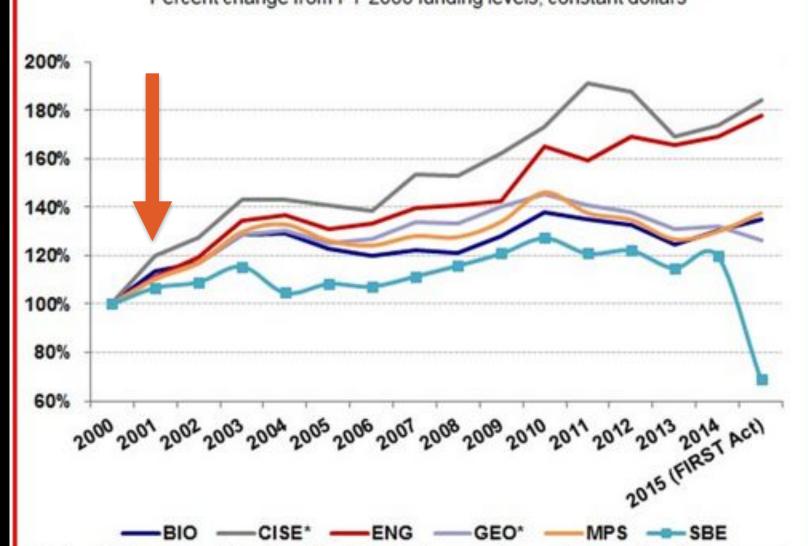
NSF Directorate Budgets and the FIRST Act

Percent change from FY 2000 funding levels, constant dollars



^{*}Adjusted for comparability. Based on historical agency data and proposed authorizations in the FIRST Act. © 2014 AAAS





^{*}Adjusted for comparability. Based on historical agency data and proposed authorizations in the FIRST Act. © 2014 AAAS

MORE RECENT "SUCCESSES"

- FY15 House CJS bill includes 3.3 percent bump for NSF in a bill that's otherwise flat
- FY15 Energy and Water approps includes a 13 percent bump for ASCR, despite holding Office of Science flat
- FIRST Act chicanery
- STEM Ed Act, Senate COMPETES



"TARGET" STATUS?



OTHER "STUFF"

HOW CAN WE DO MORE?



- We want to do a better job of making the case to other agencies
 - CCC is incredibly useful here
- We want to get the community more engaged in making policy
 - Congressional dysfunction means agency processes are even more important!



LiSPI 2015

CRA/CCC Leadership in Science Policy Institute



April 27-28, 2015 Washington, DC

Nominations
December 2014!





CRA's Congressional Fall Fly-In

September 16-17, 2014

cra.org/govaffairs/advocacy/cvds



MAKE THE CASE FOR COMPUTING IN YOUR OWN SPHERES OF INFLUENCE!



WITHOUT A STRONG CASE AND SUPPORT FROM A BROAD COMMUNITY – INDUSTRY, HIGHER EDUCATION, SCIENTIFIC SOCIETIES – THE NEED FOR RESEARCH FUNDING WILL FACE A CHILLY RECEPTION AMONG POLICYMAKERS

Thanks!

Peter Harsha
Director of Government Affairs

harsha@cra.org
@peterharsha and
@CRATweets

p: 202.556.4335

