

First Webinar on EU-US collaboration on Big Data funding opportunities in Horizon 2020

Friday, May 11th, 2018
The event is free of charge
Registration is required

ICT Policy, Research and Innovation for a Smart Society



Agenda

- PICASSO activities and services
 Ms. Margot Bezzi APRE (PICASSO partner) 5 Minutes
- PICASSO activities related to the Big Data Expert Group Vasilios Papanikolaou, ATC Innovation Lab, Greece - 10 Minutes
- Big Data PPP structure & topics for collaboration
 Andreas Metzger, Head of Adaptive Systems and Big Data Applications, paluno, University of Duisburg-Essen, Deputy secretary general of the Big Data Value Association (BDVA) 25 Minutes
- Florence Hudson, Special Advisor Next Generation Internet, Northeast Big Data Innovation Hub

 Lea Shanley, Co-Executive Director, South Big Data Innovation Hub

 Meredith Lee, Executive Director, West Big Data Innovation Hub

 Renata Rawlings-Goss, Co-Executive Director of the South Big Data Regional

Q&A - 25 Minutes

Innovation Hub





PICASSO Project

Margot Bezzi
APRE

ICT Policy, Research and Innovation for a Smart Society



Project in brief

- > Coordination and Support Action, funded by the European Commission/DG CONNECT
- > Duration: 30 months From January 1, 2016 until June 30, 2018
- > Target countries: European Union, United States of America
- > Target groups: ICT RDI Stakeholders and networks | ICT companies / industry | Policy Makers
- > Mission: Enhance EU-US ICT research and innovation collaboration responsive to the societal challenges and industry needs, supported by harmonious policies, to enable economic growth in both the EU and US



Expert Groups

3 Technology Groups

On Strategic ICT
Technology areas in
relation to Societal
Challenges

1 Horizontal
Group
On ICT Policy

5G Networks

Big Data

IoT/CPS

Synergies between policy

and technology groups

Policy issues:

Privacy and data protection | Cybersecurity | Standards | Spectrum | Smart Communities

+25 Experts in total across all expert groups



What's in it for you? PICASSO Benefits and Opportunities

Landscape analyses and Reports

- > Analysis of ICT landscape and industrial drivers, societal needs, policy gaps in EU and US
- Opportunity report "Towards Enhanced EU-US ICT Pre-competitive Collaboration"
- **Recommendations** on policy dialogue needs, priorities and strategic activities
- **Recommendations** for future topics to funding agencies for EU-US collaboration
- > 5 policy briefs and 1 White paper summarizing recommendations to policy makers.

Tools and Services

- > CROSSROADS ICT Toolkit, a mobile app providing a smart quick access to ICT activities in EU and US
- > Helpdesk service, to support access to EU-US ICT-related programmes
- **4+ webinars** on funding opportunities, and **5 webinars** on the identified policy gaps

Public Relations and events

- 2 international conferences on ICT research, innovation and policy
 - Next: in Washington, US: June 18th-19th 2018 SAVE THE DATE!



Webinar series

Visit www.picasso-project.eu/projectevents/webinars for info and registration



Subscribe to the PROJECT MAILING LIST and receive news and updates from the PICASSO Project!

PICASSO Webinars

Upcoming Webinars

- 7th May 2018: PICASSO Webinar "EU-US Collaboration on 5G Funding Opportunities in Horizon 2020"
- 9th May 2018: Policy webinar "EU-US Collaboration for Digital Communities"
- 🛨 11th May 2018: PICASSO Webinar "EU-US Collaboration on Big Data Funding Opportunities in Horizon 2020"
- ★ 16th May 2018: PICASSO Webinar "EU-US Challenges & Opportunities in Autonomous Cyber-physical Systems"



Consortium



Coordinator inno TSD, France



Honeywell International INC (HON), **United States**



Technische Universitat Dortmind (TUDO), Germany



GNKS Consult BV, (GNKS), The Netherlands



THHINK Wireless Technologies Limited (THHINK), United Kingdom



TECHNISCHE Technische Universitaet Dresden UNIVERSITÄT (TUD), Germany



Athens Technology Center (ATC), Greece



Florida International University, (FIU), United States



Agency for the Promotion of the European Research (APRE), Italy



Regents of Univeresity of Minnesota, (TLI), **United States**

Project Coordinator: Svetlana Klessova, inno TSD, France



s.klessova@inno-group.com



www.picasso-project.eu



@picasso ICT



PICASSO – EU/US ICT research, innovation and policy collaboration



Vasileios Papanikolaou's bio



Dr. Vasileios Papanikolaou ATC Innovation Lab, Greece

➤ Vasileios Papanikolaou, is currently working as an Innovation Manager for ATC - Innovation Lab. He has completed his undergraduate studies on the field of Business Information Systems in the University of Central Lancashire (UK) while he received his MSc Degree in Science and Technology Policy & Management, at the University of Manchester / PREST unit (UK). His main expertise lies on management of R&D activities, New Product Development, Knowledge & Technology Transfer, Innovation Management, Innovation Policy and Commercial exploitation of Research Results. Moreover, Vasilis hold significant expertise into project management in International and National R&D projects.





Expert Group on Big Data

Chair: Nikos Sarris

ATC Innovation Lab, Greece

Deputy Chair: Vasilis Papanikolaou

ATC Innovation Lab, Greece

ICT Policy, Research and Innovation for a Smart Society



Scope Scope

Finding the barriers and opportunities stemming from relevant EU and US policy issues

Charting a high level status of the Big Data sector in Europe and the Outlining a list of the most competitive achievements, challenges and opportunities

Charting the greatest opportunities for collaboration between EU and US utilizing the most competitive strengths of each side

Propose future initiatives for enhancing collaboration between EU and US on Big Data

Implement a joint set of activities between EU an US actors

Establish strong links for R&D&I collaboration among Big Data Structures in the EU and US



Expert Group on Big Data

Expert Group Members

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Organization Position

Nikos Sarris (Chair)



ATC SA, Greece - EU

Head of the ATC Innovation Lab, member in the Steering Committee of the NESSI European Technology Platform and a representative of ATC in the General Assembly of the Big Data Value Association

Vasilis Papanikolaou (Deputy Chair)



ATC SA, Greece - EU

Senior Innovation Manager at ATC Innovation Lab, member of the European Innovation Council (EIC)

Andreas Metzger



paluno, University of Duisburg-Essen, Germany - EU

Head of Adaptive Systems and Big Data Applications

Deputy general secretary of the Big Data Value Association (BDVA) and Steering Committee vice chair of the European Technology Platform NESSI

Sören Auer



Leibniz Universität Hannover, Germany - EU

Professor of Data Science and Digital Libraries at Gottfried Wilhelm Leibniz Universität Hannover, Director of the Technische Informationsbibliothek (TIB) – German National Library of Science and Technology, Coordinator of the Big Data Europe Initiative

Ray Walshe



Dublin City University, Ireland - EU

Assistant Professor. Head of Ireland Delegation for Big Data at NSAI, Member of Cloud Select Industry Group at European Commission, Steering Board member for NetWorld2020, Chair of Standardisation Group at Big Data Value Association, Digital Leader at World Economic Forum

Pantelis Angelidis



VIDAVO, Greece - EU

Professor of eHealth at University of Western Macedonia



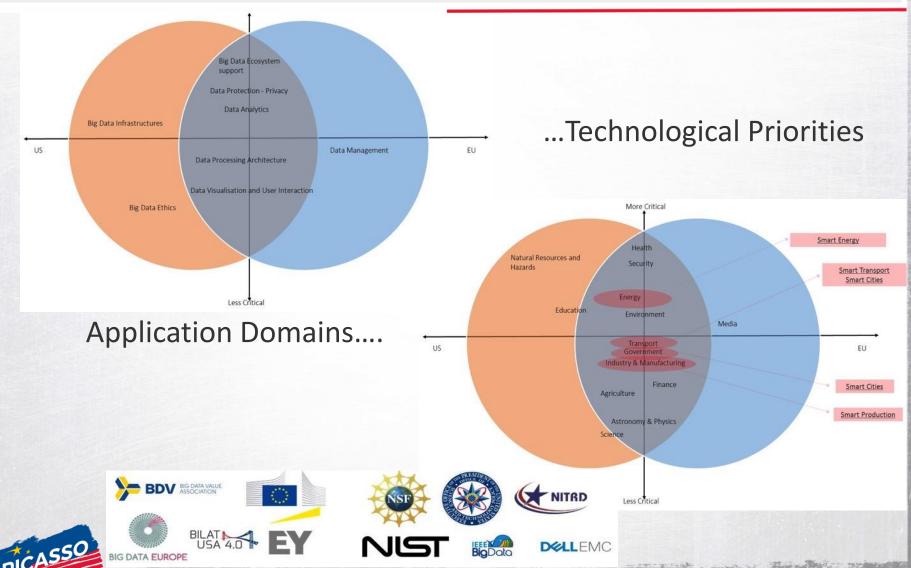
Expert Group on Big Data

Expert Group Members

Name		Organization Position		
David Belanger		Stevens Institute of Technology - USA Senior Research Fellow, Co-Leader IEEE Big Data Initiative and member of the Board of Advisors — IEEE Transactions on Big Data, IEEE Transactions on Internet of Things		
Wo Chang		NIST - USA Digital Data Advisor for the NIST Information Technology Laboratory (ITL), Convener of the ISO/IEC JTC 1/WG9 Working Group on Big Data, Co-chair of the NIST Big Data Public Working Group		
Michail Bletsas		Massachusetts Institute of Technology - USA Director of Computing at the MIT Media Lab		



Expert Group on Big Data Initial Definition of Priorities and Application Domains



Expert Group on Big Data

EU-US Big Data Open Community of Experts

EU Members

International

US Members











DCU





















































































Expert Group on Big Data Events & Meetings

- 3 Physical and several virtual EG meetings
- > 1st Annual Trans-Atlantic Symposium on ICT Technology and Policy, June 19-20, 2017, Minneapolis, MN, USA
 - Big Data Session on EU-US opportunities for collaboration on Big Data,
 with active participation of US Big Data Hubs
- > Trans-Atlantic Workshop on Public Private Partnerships for Big Data, November 20, 2017, Versailles, France
 - Initiated by NSF Big Data Innovation Hubs and supported by PICASSO Big Data Expert Group, BDVA and INRIA

Next Event

- > 2nd Annual Trans-Atlantic Symposium on ICT Technology and Policy, June 18-19, 2018, Washington, DC
- Big Data Session on EU-US opportunities for collaboration on Big Data, with active participation of US Big Data Hubs

 PICASSO

 With active participation of US Big Data Hubs

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 With active participation of US Big Data Hubs

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 With active participation of US Big Data Hubs

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 With active participation of US Big Data Hubs

Strategic Initiative Proposals for Policy Makers

- Strategic Initiative Proposal 1: BIG DATA EU-US Task Force for Enhancing Collaboration
 - Subgroup A: EU-US standardisation board
 - Subgroup B: Regulation Board
 - Subgroup C: Smart Cities
 - Subgroup D: Environment-Food-Energy-Water Nexus
 - Subgroup E: Better Health
 - Subgroup F: Big Data Workforce
- Strategic Initiative Proposal 2: Joint R&D projects under the H2020 or FP9 umbrella
 - Interoperability and Standardization
 - Adding a semantic layer to Big Data technology
 - Integrating Linked Data and Big Data technology
 - Enable discovery of deeper, fresher insights from all enterprise data resources
 - Improve efficiency, effectiveness, and decision-making
 - Facilitate more timely, agile response to business opportunities, threats, and challenges
 - Provide a single view of diverse data resources throughout the business chain
- Support tighter security, protection, and governance of data throughout its lifecycle Improve the scale, efficiency, performance, and cost-effectiveness of data/analytics platforms

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Andreas Metzger's bio



Dr. Andreas Metzger

Head of Adaptive Systems and Big Data Applications,
paluno, University of Duisburg-Essen

Andreas Metzger received his Diploma and his Ph.D. in computer science from the Technical University of Kaiserslautern in 1998 and 2004, respectively. He is currently senior academic councilor and head of adaptive systems and big data applications at paluno, the Ruhr Institute for Software Technology of the University of Duisburg-Essen (Germany). He is deputy secretary general of the Big Data Value Association (BDVA) and steering committee vice chair of the European Technology Platform NESSI (The Networked European Software and Services Initiative). He also is technical coordinator of the EU Big Data Value Public Private Partnership lighthouse project "Transforming Transport".





Big Data PPP Structure & Topics for Collaboration

Andreas Metzger (BDVA & paluno @ U Duisburg-Essen)

PICASSO Webinar 2018



Agenda

■ Big Data PPP Structure and the EU Big Data Ecosystem

■ **Topics for Collaboration** and Engagement Opportunities



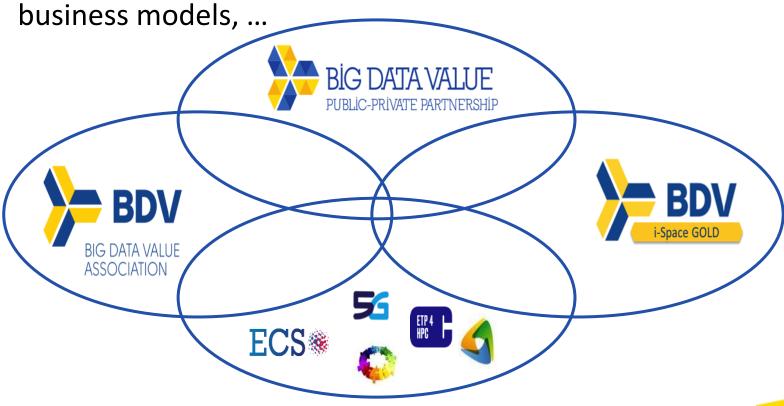


EU Big Data Value Ecosystem

Big Data Value means...

Achieving socio-economic impact with Big Data

Increased efficiency, higher customer satisfaction, new business models





Big Data Value Association

Industry-led; 55% industry

http://www.bdva .eu/

> 180 members from all European countr

Yearly release of Strategic Research and Innovation Agenda (SRIA)

Open Membership

- Members shall have <u>legal presence</u> in at least one of the "European" countries:
 - EU member state,
 - o associated country (such as Norway and Israel)
 - candidate country





Big Data Value PPP

- European Commission (public side) + BDVA (private side)
- Implemented through calls for actions / projects under Horizon 2020

http://www.big-data-value.eu/

Types of projects:

Lighthouse Projects /
Large-scale Pilots
and Test-beds (IA)

Data Incubators /
Data Platforms
(IA)

Technical Projects (RIA)

Collaboration & Support Actions (CSA)





Big Data Value i-Spaces

- Trusted data incubators
- Accelerate take up of data driven innovation in commercial sectors

BDVA i-Space Label

- Assures i-Space meets certain technical and organizational requirements
- Labels (re-)issued once a year



























Big Data Value Collaborations/Linked Initiatives



High Performance Computing -



ETP4HPC



Cyber Security - ECSO



Internet-of-Things - AIOTI



Connectivity and Data Access -



Agenda

■ Big Data PPP Structure and the EU Big Data Ecosystem

Topics for Collaboration and Engagement Opportunities





Topics for Collaboration (BDVA SRIA)

Technical Aspects

- Priority "Data Management"
- Priority "Data Processing Architectures"
- Priority "Data Analytics"
- Priority "Data Visualisation and User Interaction"
- Priority " Data Protection"
- Engineering & DevOps for Big Data (* new in SRIA 4.0 *)
- Big Data Standardisation

Non-technical Aspects

- Skills development
- Ecosystems and Business Models
- Policy and Regulation
- Social perceptions and societal implication





Topics for Collaboration (BDVA SRIA)

Technical Priorities and Challenges

	Number of contributions/technologies			
Technical priorities and challenges	TOTAL	Delivered in 2017	Ongoing (yet not delivered)	Planned (for 2018+)
Priority "Data Management"	162	44	37	81
Priority: "Data Processing Architectures"	119	9	18	92
Priority: "Data Analytics"	120	11	35	74
Priority: "Data Protection"	67	15	13	39
Priority: "Data Visualisation and User Interaction"	81	5	35	41

Source: BDV PPP Monitoring Report 2017 (Draft)





Topics for Collaboration (BDVA SRIA)

Technical Priorities and Challenges

Technical priorities and challenges	TOTAL
Priority "Data Management"	162
Semantic Annotation of unstructured and semi- structured data	28
Semantic interoperability	28
Data quality	34
Data Management lifecycle and data governance	32
Integration of data and business processes Data-as-a service	17
Data-as-a service	19
Distributed trust infrastructures for data management	4
Other (specify)	0
Priority: "Data Processing Architectures"	119
Heterogeneity	36
Scalability	33
Processing of data-in-motion and data-at-rest	23
Decentralizatrion	10
Performance	15
Other (specify)	2
Priority: "Data Analytics"	120
Semantic and knowledge-based analysis	20
Content validation	8
Analytics frameworks & processing	42
Advanced business analytics and intelligence	14
Predictive and prescriptive analytics	33
Other (specify)	3

Priority: "Data Protection"	67
Generic and easy to use data protection approaches	6
Robust Data anonymity	12
Risk based approaches	2
Other (specify)	47
Priority: "Data Visualisation and User Interaction"	81
Visual data discovery	22
Interactive visual analytics of multiple scale data	15
Collaborative, intuitive and interactive visual interfaces	39
Interactive visual data exploration and querying in a multi-device context	5
Other (specify)	0



Source: BDV PPP Monitoring Report 2017 (Draft)

Engagement Opportunities

- Current ICT work programme (2018-2020)
 - https://ec.europa.eu/programmes/horizon2020/en/h2020-section/informationand-communication-technologies

Involvement of US partners in projects

- "US researchers, enterprises and institutions can team up with European partners to develop together knowledge, research data and leading scientific teams and networks."
- "...European Union will ... not automatically fund the partners from industrialized countries such as USA. In principle US partners bring their own funding to the table. This may be own funds of the participating institutions or funds from US funding agencies."
- "No jointly agreed mechanism is currently in place for co-funding Horizon 2020 research and innovation projects."
- Further information:
 http://ec.europa.eu/research/participants/data/ref/h2020/other/hi/h2020 localsupp usa en.pdf



Engagement Opportunities

- Big Data Calls in current ICT work programme (2018-2020)
 - o https://ec.europa.eu/programmes/horizon2020/en/h2020-section/information-and-communication-technologies

Projects Large scale pilots / test-beds (IA)

Topic: ICT-11/14@WP2018-2020 Data
Incubators,
Data
Platforms (IA)
Topic:

Topic: ICT-13@WP2018-2020 Technical Projects (RIA)

Topic: ICT-12@WP2018-2020

Collab. & Support Actions (CSA)

Topic: ICT-13@WP2018-2020

Note: Grants of several topics may be subject to Article 30.3 of the grant agreement (Commission right to object to transfers or licensing)



Join us at BDV PPP / BDVA Events



http://big-data-value.eu/big-data-value-meet-up-sofia/



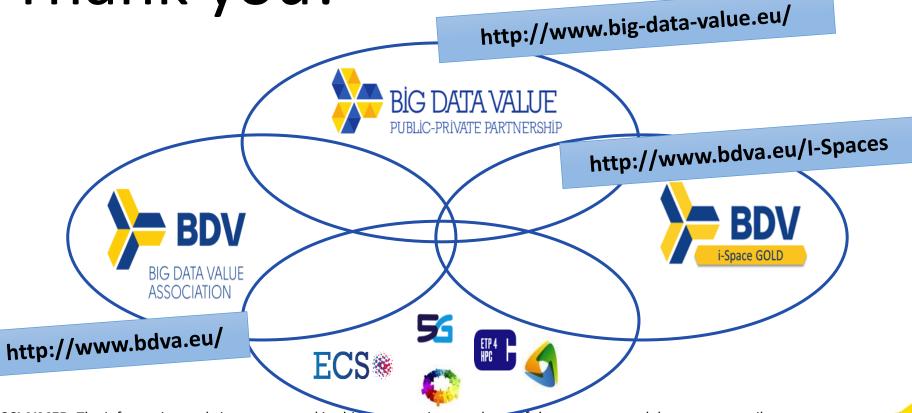
http://www.european-big-data-value-forum.eu/







Thank you!



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Florence Hudson's bio



Dr. Florence Hudson Special Advisor Next Generation Internet for the Northeast Big Data Innovation Hub

Florence Hudson is Special Advisor Next Generation Internet for the Northeast Big Data Innovation Hub based at Columbia University. She is also on the Editorial Board for the open scientific journal "Blockchain in Healthcare Today", and working with IEEE on Blockchain for Healthcare. A former IBM Vice President and Chief Technology Officer, and Internet2 Senior Vice President and Chief Innovation Officer, she began her career as a Mechanical and Aerospace Engineer. She is a global thought leader and speaker on distributed big data and analytics, cybersecurity, smart cities/buildings/grid/water, internet of things, cognitive computing, hybrid cloud, blockchain, connected healthcare, diversity and inclusion, and future missions around Jupiter.

Lea Shanley's bio



Dr. Lea Shanley Co-Executive Director of the South Big Data Innovation Hub

Lea Shanley is Co-Executive Director of the South Big Data Innovation Hub. Trained as a geospatial data scientist and policy expert, she focuses on big data, civic technology, open innovation, and public-private partnerships to advance R&D and address societal challenges. She previously served as a White House Presidential Innovation Fellow at NASA HQ, co-founder of the Federal Community of Practice on Crowdsourcing and Citizen Science, founder and director of the Commons Lab of The Wilson Center, a study director for the National Academy of Sciences Mapping Science Committee (2010), and a AAAS Congressional Science Fellow.

Meredith Lee's bio



Dr. Meredith Lee Executive Director of the West Big Data Innovation Hub

Meredith Lee is Executive Director of the West Big Data Innovation Hub. Dr. Lee is also active in the new UC Berkeley Division of Data Sciences and the Real-time Intelligent Secure Explainable (RISE) Lab. She previously served as a AAAS Science & Technology Policy Fellow at the Homeland Security Advanced Research Projects Agency (HSARPA). Under the Obama administration she led the White House Innovation for Disaster Response & Recovery Initiative and contributed to several science, technology, and open data / open government initiatives. She began her career as an Electrical Engineer, developing real-time 'lab-on-a-chip' diagnostics and wearable biomedical sensors

Renata Rawlings-Goss's bio



Dr. Renata Rawlings-Goss Co-Executive Director of the South Big Data Regional Innovation Hub

Renata Rawlings-Goss worked with the White House Office of Science and Technology Policy as a AAAS science policy fellow at the National Science Foundation (NSF). She worked on Big Data policies and priority goals with the NITRD inter-agency Big Data Senior Steering group and participated in writing the National Big Data Strategic Plan with partners from (NSF, NIH, DARPA, DOE, NSA, NIST, NOOA, NASA, USGS, NRO, DHS, DOD, EPA, HHS, AHRQ, NARA etc). Additionally, Renata participated in the implementation of NSF priority goals for increased activity and workforce in data science.

EU-US BIG DATA COLLABORATION OPPORTUNITIES

PICASSO Project Webinar May 11, 2018

Speakers:

- Florence Hudson, Special Advisor Next Generation Internet, NE Big Data Innovation Hub, New York
- Renata Rawlings-Goss, Co-Executive Director, South Big Data Innovation Hub, Georgia Tech
- Lea Shanley, Co-Executive Director, South Big Data Innovation Hub, University
 of North Carolina-CH

OVERVIEW: EU-US BIG DATA COLLABORATION OPPORTUNITIES

- US NSF Big Data Innovation Hubs
 - US Big Data Innovation Hubs & Spokes
 - Cross BD Hubs Cyberinfrastructure Working Group
 - Transatlantic Symposium on Public-Private Partnerships for Big Data R&D
- Education and Workforce Development
 - Cross BD Hubs Data Science Education Initiatives
- Smart and Connected Cities
 - Internet-of-Things for Smart & Connected Cities & Campuses
 - Global Smart Cities Challenge
 - Transportation Data Challenge

OVERVIEW: EU-US BIG DATA COLLABORATION OPPORTUNITIES

Cybersecurity

- South Hub Social Cybersecurity Working Group
- US NSF Cybersecurity Summit 21-23 August, Alexandria, Virginia

Next Generation Internet

- EU-US H2020 Next Generation Internet Collaboration ICT-31-2018
- US-EU Internet Core & Edge Technologies (ICE-T) NSF 18-535
- EU-US Next Generation Internet for Healthcare" panel, 24 October, New York City

Ongoing Collaborations

- Research Data Alliance (RDA)
- Research Data Science Summer School
- European Open Science Cloud (EOSC)

US BIG DATA INNOVATION HUBS AND SPOKES

Four hubs, one mission.



Hub PI institution

build and strengthen partnerships

across industry, academia, nonprofits, government

to address societal + scientific challenges,

spur economic development, and accelerate innovation in the big data ecosystem

TRANS-ATLANTIC SYMPOSIUM ON PUBLIC-PRIVATE PARTNERSHIPS FOR BIG DATA R&D AND WORKFORCE



 Co-hosted by the US Big Data Innovation Hubs, Big Data Value Association, PICASSO Project, and INRIA in Versailles, France, November 2017. Sponsored by the NSF.

http://bit.ly/BDVAWorkshopNov2017

- Collaboration Opportunities
 - Smart & Connected Health
 - Smart & Connected Cities
 - Environment & Hazards
 - Education & Workforce
 Development
- Next Steps
 - Connect US Big Data/Hub Spoke PIs with BDVA Lighthouse and EU Data Science Researchers
 - Focused US-EU workshops

DATA SCIENCE EDUCATION & WORKFORCE DEVELOPMENT

Goal: Collect and provide practical resources and models of engagement for broadening and deepening the available pool of data literate talent. Focus areas:

- Institutional Outreach Discover data science programs (Data Science Education Network - DSEN); Collect and share use cases; Foster data science across all schools(Keeping Data Science Broad - KDSB)
- 2. Faculty and Student Development Faculty Industry-Government Fellowships; Faculty Data Science Bootcamp; Faculty Curriculum Cohorts; Student Start-up Fellowships
- 3. Resource Development Amplify/expand/connect existing efforts including teaching platforms; Gather and disseminate best practices in data science education in industry, academia and government
- **4. Workforce Landscape** Outline current workforce efforts within industry and government; Connect complementary programs; Discuss standards; Work with industry and government workforce boards
- International participation: Big Data Value Association in Europe, US-Japan Collaboration, Singapore

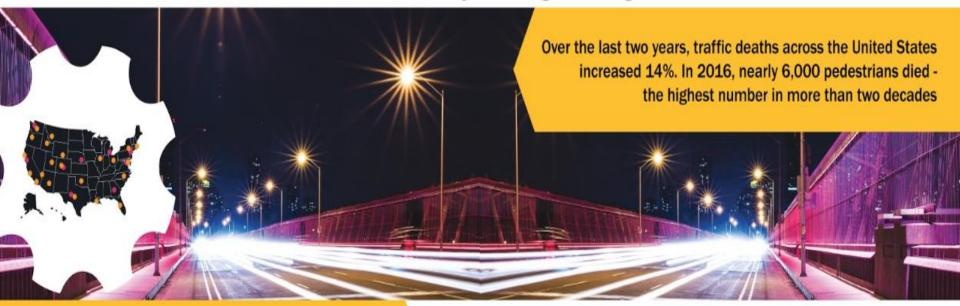
INTERNET-OF-THINGS FOR SMART & CONNECTED CITIES & CAMPUSES

- He Bouch Big Data Innovation Hall Parameters Parameters
- Workshop April 26-27, 2017: Challenges in Data Analytics and Decision-making from Distributed Sensors
 - https://southbdhub.files.wordpress.com/2017/04/final-the-internet-of-things-for-smart-andconnected-cities-and-campuses.pdf
- Participants included
 - SMART CITIES New York (Chief Analytics Officer); Atlanta (General Manager), Pittsburgh (Former CTO)
 - INDUSTRY Sagemcom from France; Amazon Web Services; Corning Inc.
 - SMART GOVERNMENT Department of Homeland Security HSARPA;
 National Science Foundation
 - SMART CAMPUSES Cytilife startup; Internet 2; Georgia Tech, Georgia State, Clemson Universities, ...
- Resultant Georgia Tech Smart Campus Case study with Cytilife published by Internet2
 - https://spaces.internet2.edu/download/attachments/116458128/Smart%20Campus%20Case%2 OStudy%20-%20Georgia%20Tech%20-%202017.09.11.pdf?version=1&modificationDate=1505421632234&api=v2

NATIONAL TRANSPORTATION DATA CHALLENGE

HOW MIGHT WE REDUCE TRAFFIC FATALITIES?

Hosted by the Regional Big Data Innovation Hubs #BDHubs



JOIN US to share your ideas + contributions through a series of community problem-solving sessions, roundtables, hackathons + demos (in person + online)!















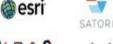
























splunk

Resources + more info: https://bigdatahubs.io

GLOBAL CITY TEAM CHALLENGE

Long Term Goal: "To establish and demonstrate replicable, scalable, and sustainable models for incubation and deployment of interoperable, secure, standard-based solutions using advanced technologies such as the Internet of Things (IoT) and Cyber-Physical Systems (CPS) and demonstrate their measurable benefits in cities and communities."

In 2018, NIST and DHS S&T are hosting the Smart and

Secure Cities and Communities Challenge program and will encourage participating teams to have additional focus on cybersecurity and privacy, as well as existing GCTC goals. https://pages.nist.gov/GCTC/



CYBERSECURITY

- South Big Data Hub Working Group on Security, Network Analysis, and Social Media
 - Develop research agenda on Social Cybersecurity
 - Grow a cross disciplinary community of interest
 - Build a collaborative platform to share information, data, software, tools, APIs, etc
 - Organize workshops and monthly presentations
- NE Big Data Hub Privacy and Security Working Group
 - Focus on safe collection and sharing of cybersecurity data
 - NSF BD Spoke Award: Cross-organization Big Data Cyber Attack Awareness
 - NSF BD Spoke Award: Planning for Privacy and Security in Big Data

EU-US BIG DATA OPPORTUNITIES

CONTACT: FLORENCE HUDSON - FLO1980@ALUMNI.PRINCETON.EDU

- US NSF Cybersecurity Summit 21-23 August 2018, in Alexandria, Virginia, USA
 - https://trustedci.org/2018-nsf-cybersecurity-summit/
 - Opportunity to present and collaborate, proposals to present due June 13th
- EU US H2020 Next Generation Internet proposals submitted 28
 March 2018
 - http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/t opics/ict-31-2018-2019.html
 - Letters of support provided by 10 US academic, industry, not-for-profit entities for THINK-NEXUS
- US EU Internet Core & Edge Technologies (ICE-T), NSF 18-535, proposals due 7 May 2018
 - https://nsf.gov/pubs/2018/nsf18535/nsf18535.htm
- EU-US Next Generation Internet for Healthcare panel at Telehealth in Medicine and Blockchain in Healthcare Today conference at Columbia University, NYC, USA, 24 October
 - https://convergetoaccelerate2018.sched.com/

2018 US NSF CYBERSECURITY SUMMIT FOR LARGE FACILITIES AND CYBERINFRASTRUCTURE

- Information security training and workshop tailored to increase the NSF community's understanding of cybersecurity strategies that strengthen trustworthy science: what data, processes, and systems are crucial to the scientific mission, what risks they face, and how to protect them.
- Opportunity to present and collaborate. Presentation proposals due June 13th in the following focus areas for plenary, panels, training sessions, table topics.
 - Science challenges, solutions: security frameworks, regulation, integrity, availability
 - Accountability, Risk Acceptance, and the Role of Project Leadership
 - Software assurance
 - Cloud Computing strategies and experiences
- Summit date and location: 21-23 August 2018 in Alexandria, Virginia, USA
- Call For Participation: https://trustedci.org/2018-nsf-cybersecurity-summit

EU-US H2020 NEXT GENERATION INTERNET COLLABORATION ICT-31-2018 – PROPOSALS DUE 28 MARCH 2018

Provided THINK-NEXUS consortium with 7 letters of support from 10 entities in the US including letters from the following types of entities:

- Big Data Innovation Hubs (Northeast, West, South, Midwest)
- Regional networks and Network Operations Centers
- Non-Governmental Organizations (NGOs), Centers of Excellence
- Universities
- Industry

Note: US letters of support coordinated by Florence Hudson, Special Advisor - Next Generation Internet, Northeast Big Data Innovation Hub: FLO1980@alumni.princeton.edu

Proposal submitted 28 March 2018

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ic t-31-2018-2019.html

US-EU Internet Core & Edge Technologies (ICE-T), NSF 18-535

PROPOSALS DUE 7 MAY 2018

Goal is to enable US and European Union (EU) researchers to collaborate to address compelling research challenges in Next Generation Internet (NGI) and Advanced Wireless Networking (AWN), aligned with the EC's Horizon 2020 work programme.

Three funding opportunities are available:

- 1) Research Collaboration
- 2) Research Collaboration Initiation
- 3) Research Fellowships with counterpart EU investigators

Proposals submitted 7 May 2018

https://nsf.gov/pubs/2018/nsf18535/nsf18535.htm

EU-US NEXT GENERATION INTERNET FOR HEALTHCARE PANEL AT TELEHEALTH AND MEDICINE TODAY AND BLOCKCHAIN IN HEALTHCARE TODAY CONVERGE2XCELERATE CONFERENCE

Partners in Digital Health presents a full day of concurrent meetings featuring a worldview from the foremost innovative experts in blockchain and telehealth sectors in healthcare. Expect up to 800 senior executives and industry experts to attend to address the most compelling issues, growth opportunities, and financial implications for healthcare.

- Panel being planned on EU-US NGI for Healthcare. If interested in participating, contact panel moderator, Florence Hudson, Editorial Board, Blockchain in Healthcare Today
- Conference name: Converge2Xcelerate
- Conference date and location: 24 October 2018, Columbia University, New York City
- Conference website: https://convergetoaccelerate2018.sched.com/

RDA, EOSC, GO FAIR, DATA SCIENCE SUMMER SCHOOL

- Research Data Alliance (RDA) https://www.rd-alliance.org/
 - Leverage existing cross-Atlantic, researcher-to-researcher connections via RDA
 - Where groups exist around specific data innovation topics, leverage these connections
- European Open Science Cloud (EOSC) https://eudat.eu/european-open-science-cloud
 - BDHubs interested in collaboration as new calls are put out
 - EOSC Hub might be interested in what BDHubs are proposing through the future internet initiatives
- GO FAIR Findable, Accessible, Interoperable, and Reusable https://www.go-fair.org/
 - International office based in EU, we're just establishing the first GO FAIR US office, NIH has FAIR focus
 - Explore joint training, awareness projects around meeting Horizon 2020's FAIR data requirements
- Research Data Science Summer School http://www.codata.org/working-groups/research-data-science-summer-schools
 - Partner to bring CODATA RDA Data Science Summer School program to more EU countries & US states
 - Planned schools at the International Centre for Theoretical Physics, Trieste, Italy:
 - #DataTrieste 2018, CODATA-RDA School of Research Data Science, ICTP, Trieste, 6-17 August 2018
 - CODATA-RDA Research Data Science Applied Workshops, ICTP, Trieste, 20-24 August 2018

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#BDHubs



Questions

ICT Policy, Research and Innovation for a Smart Society

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