

# LEADERSHIP IN EMBEDDED SECURITY

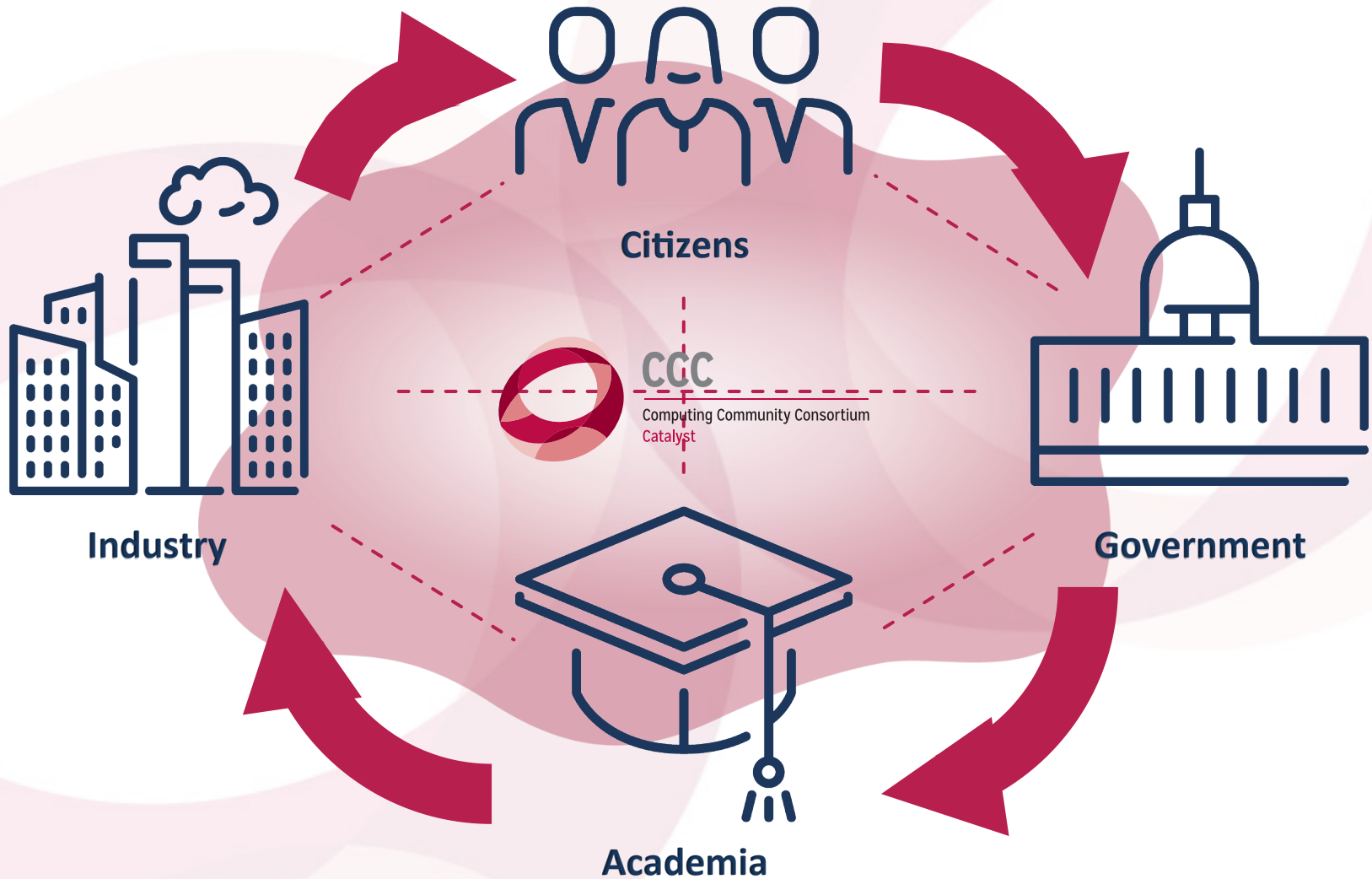
*August 13<sup>th</sup>, 2018*  
*Baltimore, Maryland*



**CCC**

Computing Community Consortium  
Catalyst

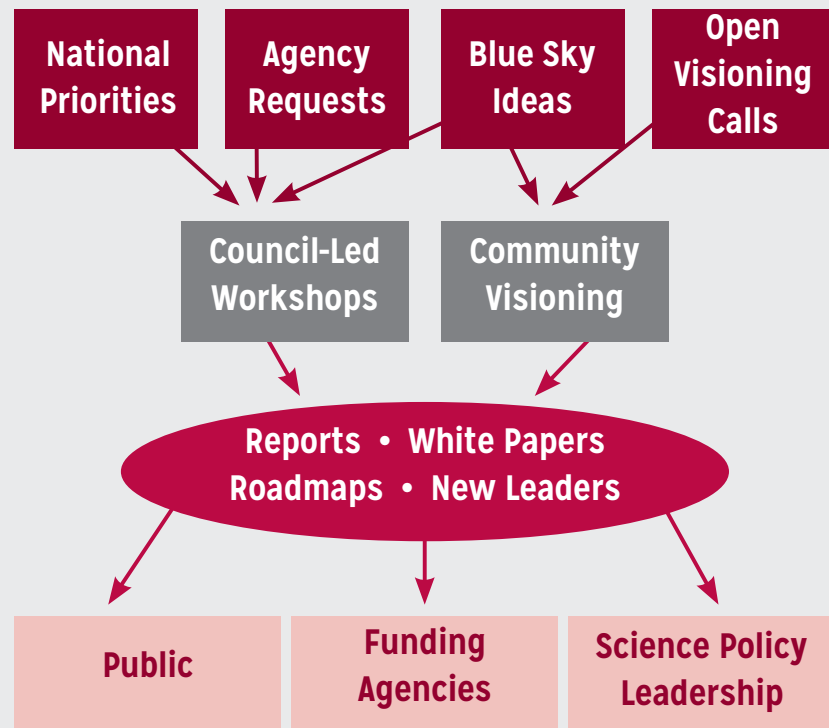
# CCC: CATALYZING I.T.'S VIRTUOUS CYCLE



# COMPUTING COMMUNITY CONSORTIUM

The **mission** of Computing Research Association's Computing Community Consortium (CCC) is to **catalyze** the computing research community and **enable** the pursuit of innovative, high-impact research.

## Computing Research Community



## Promote Audacious Thinking:

- Community Initiated Visioning Workshops
- Blue Sky Ideas tracks at conferences

## Communicate to the Community:

- CCC Blog - <http://cccblog.org/>
- Great Innovative Ideas
- White Papers and Workshop Reports
- Social Media (@compcomcon)
- Council member presentations

## Facilitate Investment:

- Outputs of visioning activities
- Task Forces – AI, Cybersecurity, Post Moore’s, etc.
- Engage with federal agencies and industry

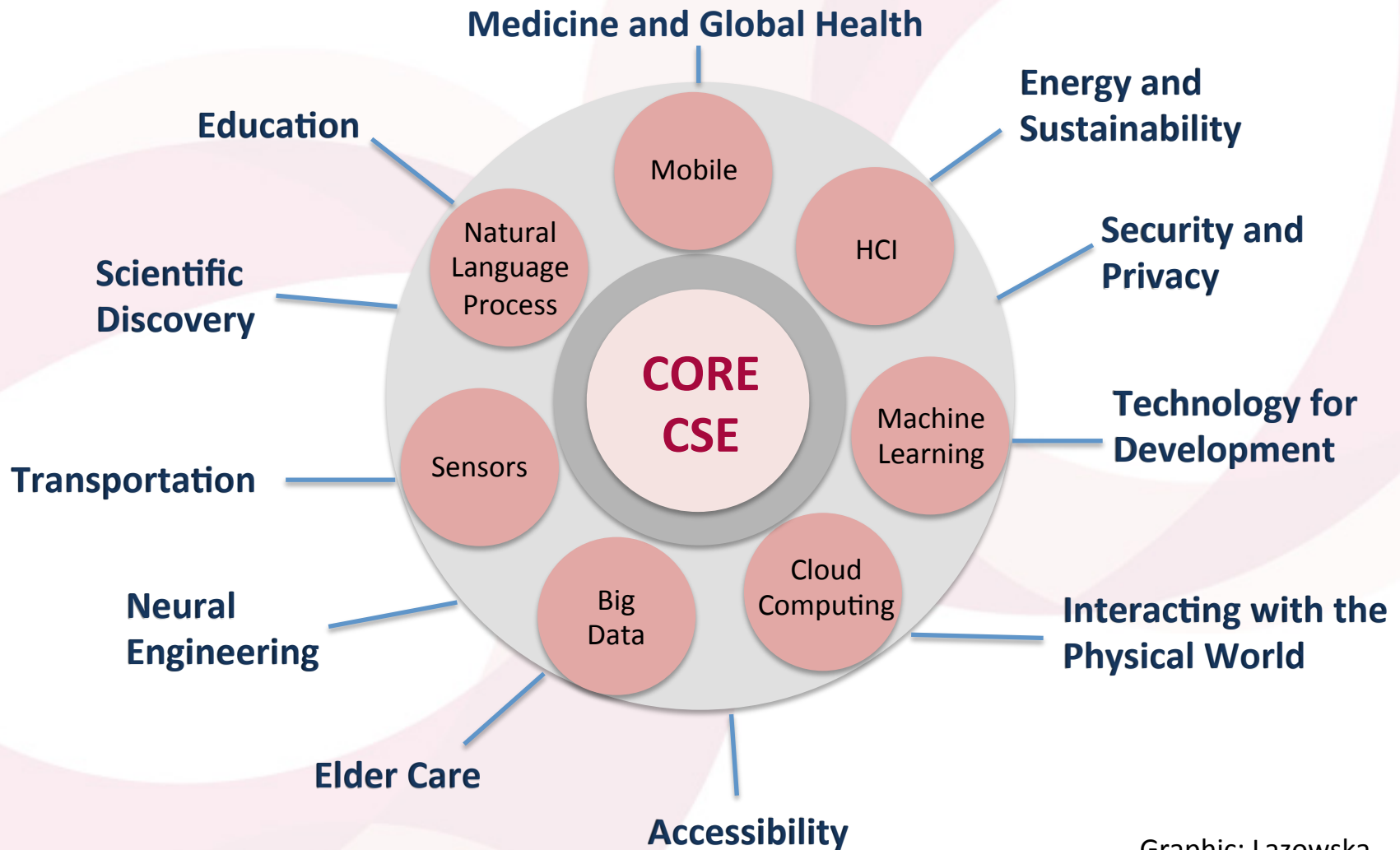
## Inculcate Leadership and Service:

- Engage with CCC Alumni and Sister Organizations
- Biennial Symposia series

## Influence Early Career Researchers:

- Industry – Academic Collaborations
- Leadership in Science Policy Institute
- Postdoc Best Practices

# THE RAPIDLY EXPANDING WORLD OF COMPUTING



Graphic: Lazowska

# WORKSHOP ORGANIZERS AND STAFF

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**CCC**

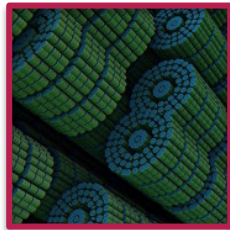
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# VISIONING PROCESSES

- Periodic RFP for Community Initiated Activities
- ~6 workshops per year in the last 3 years
- Top-down (agency initiated)
- Bottom-up (open call)
- Sideways (council initiated, joint with other agencies,....)



Cyber Social  
Learning  
Systems



Nanotechnology-  
inspired  
Information  
Processing Systems



Smart  
Health



Sociotechnical  
Cybersecurity



Cybersecurity  
for  
Manufacturers

# VISIONING ACTIVITIES

- Over 45 visioning activities in 11-year history
- Average of 6 activities per year in the last 4 years
- Research areas include:
  - Smart and Pervasive Health
  - Nanotechnology-inspired Information Processing Systems
  - Cyber Social Learning Systems
  - Privacy by Design
  - BRAIN Initiative
  - Inclusive Access
  - Personalized Education
- 13 workshop reports released in past 4 years
- 20 white papers released in past 4 years

Workshop	Date
Quantum Computing	May 22-23, 2018
Digital Computing Beyond Moore's Law	May 3-4, 2018
Robotic Materials	April 23-24, 2018
Sociotechnical Interventions for Health Disparity Reductions	April 9-10, 2018
Fair Representation and Fair Interactive Learning	March 18-19, 2018
Sociotechnical Cybersecurity Workshop 2	August 8-9, 2017
AAAI Symposium on AI for Social Good	March 27-29, 2017
Cyber Security for Manufacturers	March 14-15, 2017
Cyber-Social Learning Systems Workshop 3	January 24-25, 2017
Sociotechnical Cybersecurity Workshop 1	December 12-13, 2016
Discovery and innovation in Smart and Pervasive Health	December 5-6, 2016