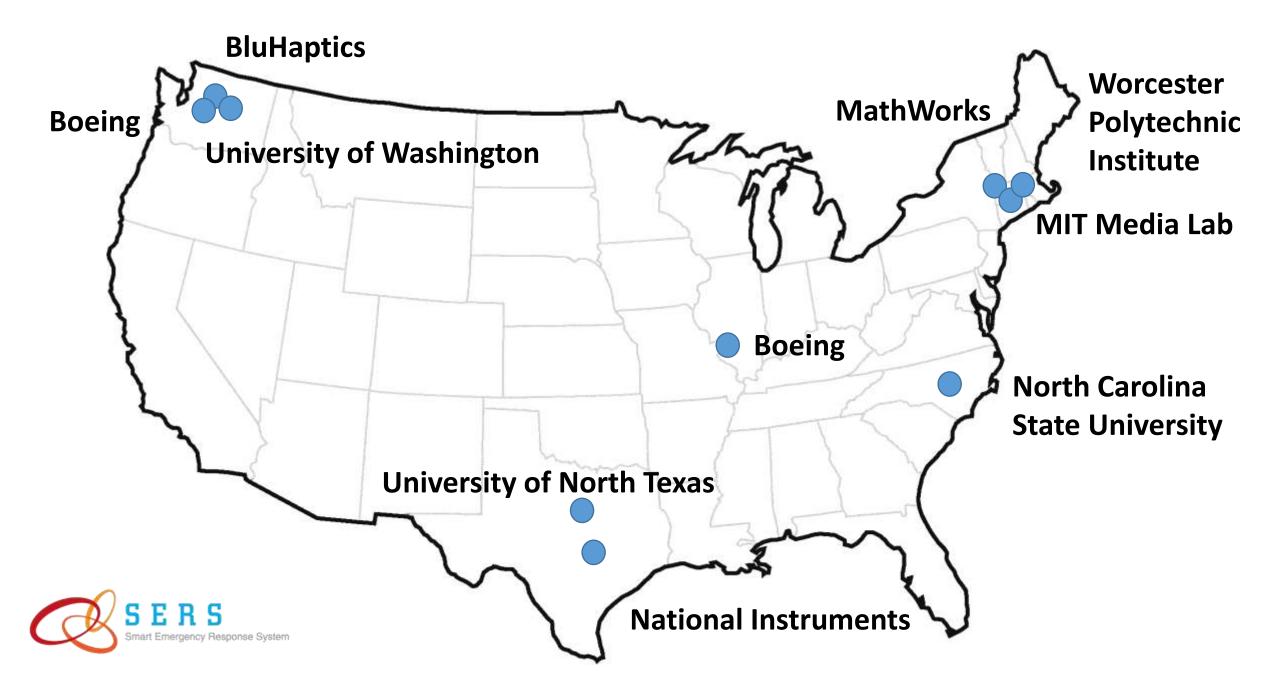


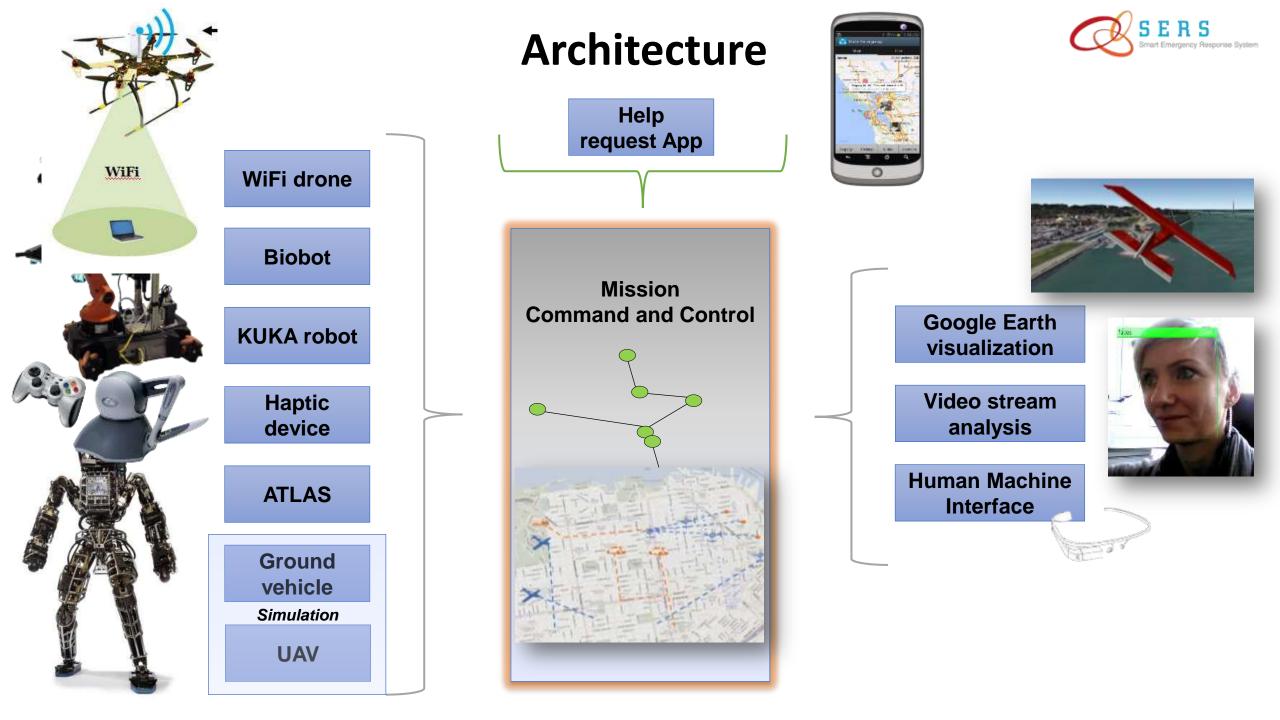
Justyna Zander, PhD SERS Team Lead



Application Areas







SERS Smart Emergency Response System

BluHaptics Boeing Massachusetts Institute of Technolog MathWorks National Instruments North Carolina State University University of North Texas University of Washington Worcester Polytechnic Institute



Rich Rovner Vice President of Marketing at MathWorks





Government

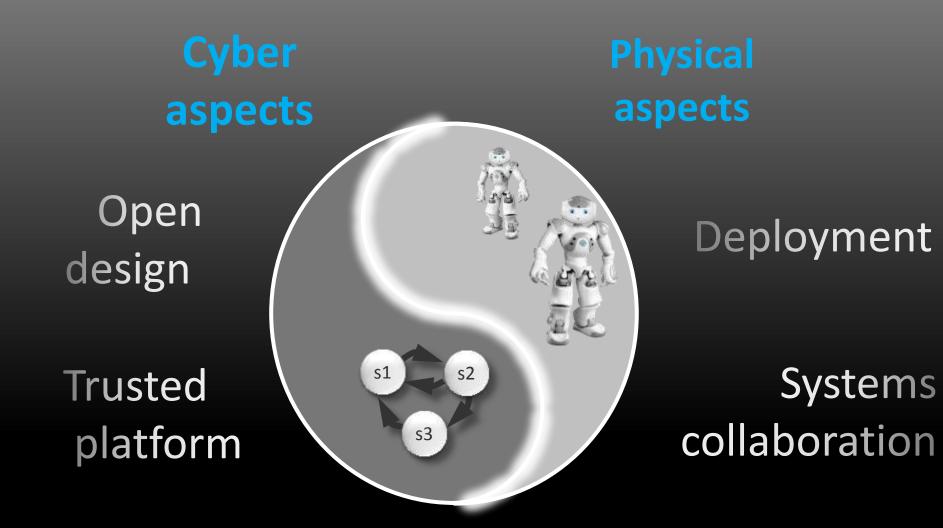
9 million STEM jobs by 2022

Industry





Source: U.S. Bureau of Labor Statistics report, Spring 2014.



Human in the Loop



Annual firefighting expenses: \$329 billion

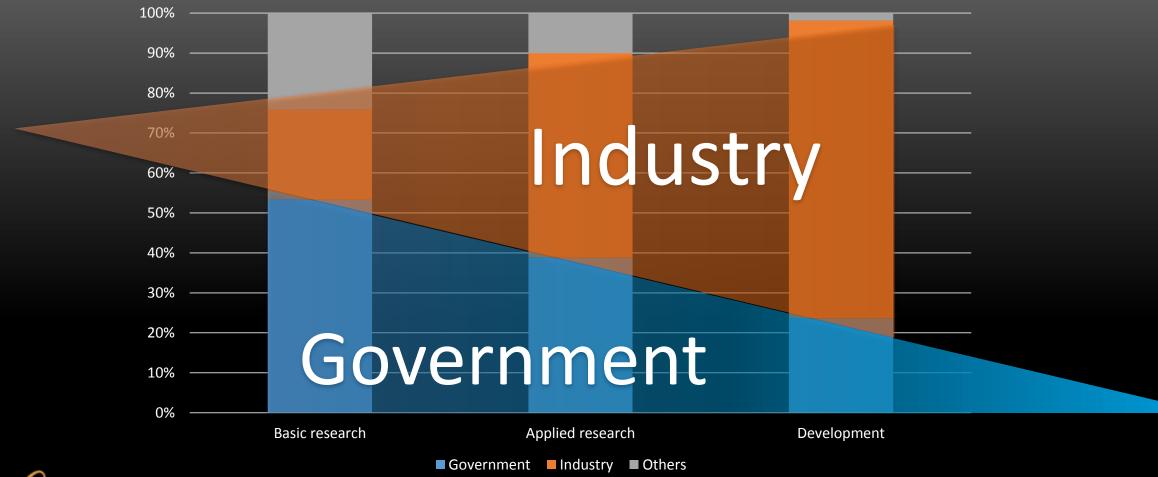
This constitutes **2.1%** of the U.S. GDP





Source: NFPA's report "The Total Cost of Fire in the United States", March 2014.

Research and Development Funding in the USA in 2011 (report of Fiscal Year 2014)





Source: FAS report "Federal Research and Development Funding: FY 2014".

Together For humanitarian cause To live better and smarter

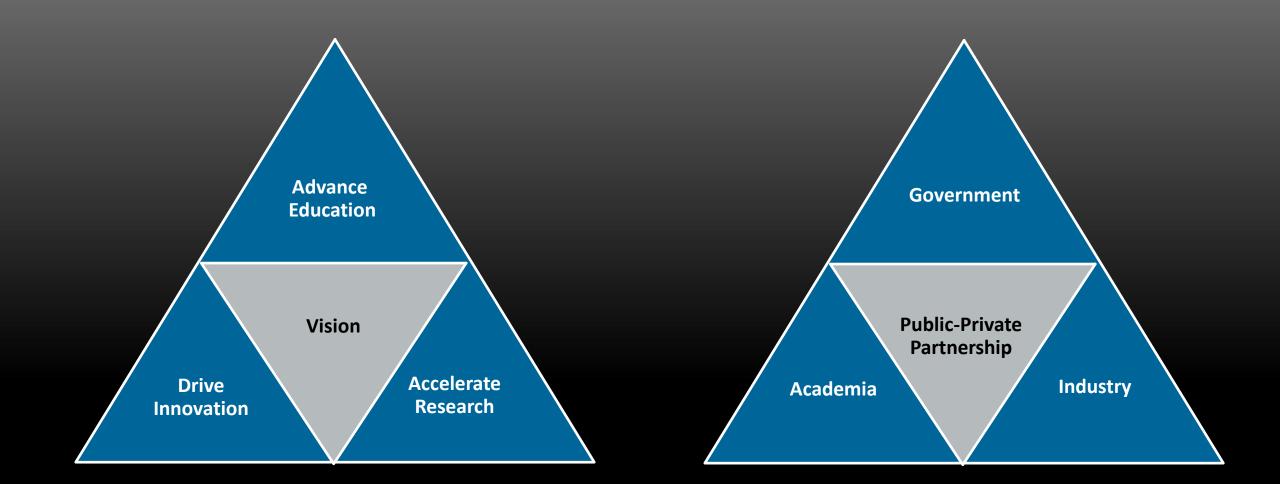




Ray Almgren Vice President of Marketing National Instruments



SERS Smart Emergency Response System







Advance health informatics



Engineer better medicines



Develop carbon sequestration methods



Engineer the tools of scientific discovery



Provide access to clean water



Advance personalized learning



Secure cyberspace



Reverse-engineer the brain



Enhance virtual reality



Make solar energy economical



Manage the nitrogen cycle



Provide energy from fusion



Restore and improve urban infrastructure



Prevent nuclear terror



