



Partnerships for Innovation
**Building Innovation Capacity
(PFI-BIC)**

Solicitation: NSF 13-587

--“Smart” Service Systems--

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Why Is Engineering Research Critical to Future “Smart” Service Systems?

- Engineering research enables platform technologies at different levels and provides fundamental understanding of service systems
 - Technology development
 - Human factors engineering
 - Systems engineering and design
- Inter-disciplinary research needed to enable smart(er) service systems into the market
- Integrated, customer-oriented platform technologies for traditional and non-traditional service systems promise to improve quality of life
 - Smart cities, smart healthcare, smart infrastructure, customized service technologies, disaster mitigation, etc.



What is PFI: BIC?

- An early stage partnership based on research discovery findings
- Potential to result in solutions with impact on more than one market
- Primary goals of the partnership are as follows:
 - To build the innovation capacity of the individual participants (both academe and business)
 - To increase the viability of the innovation and the business
 - To develop the next-generation of innovators

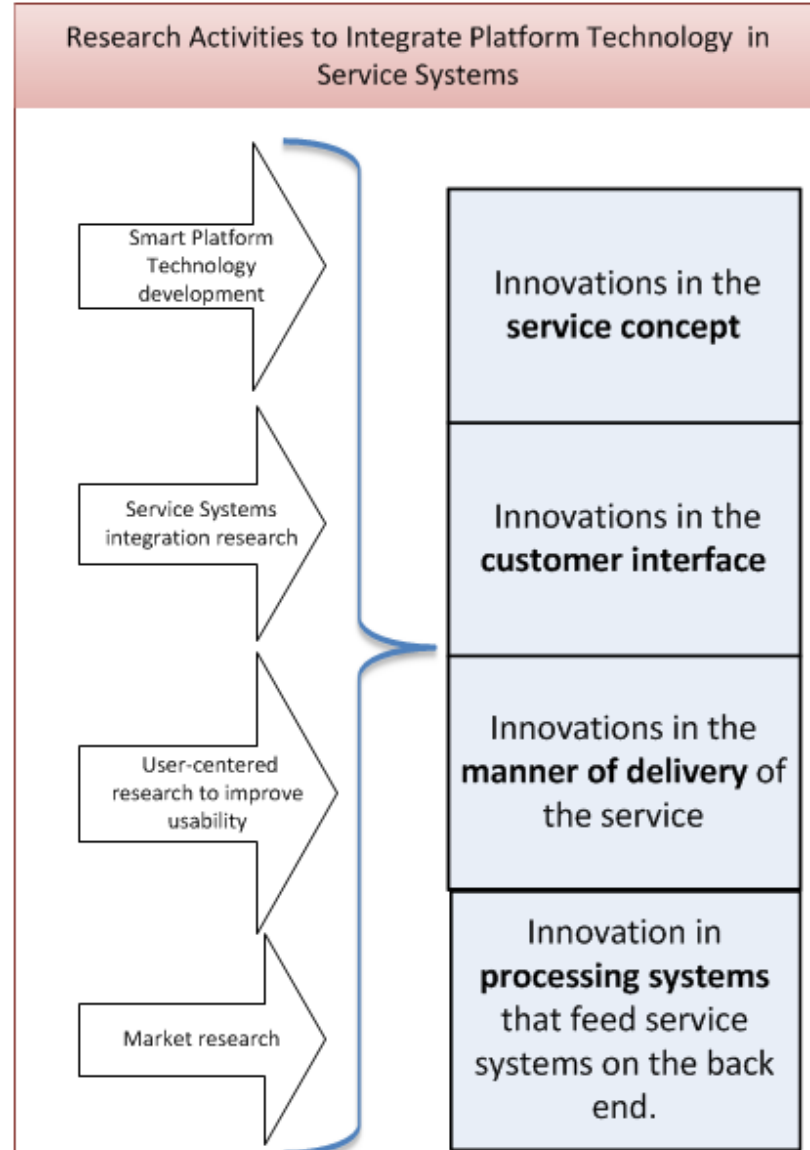
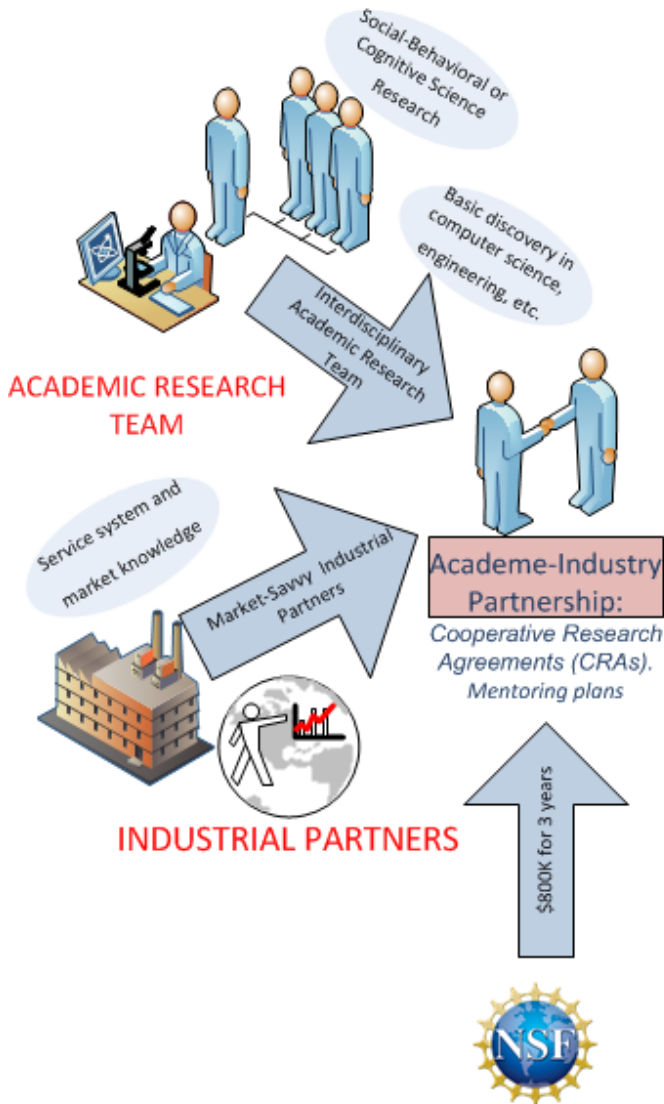


PFI: Building Innovation Capacity FY14 Competition

- Focus on **platform technologies** to enable "smart" service systems that are customer-centered and market-driven.
- Novel applications motivated by research discoveries
 - Potential to achieve transformational change in existing service systems or to spur entirely new service systems.
- Academe-Industry partnerships require expertise from across disciplines.
 - Research to understand the potential interaction of the technology with customers/users and the broader public affected by the technology.
 - Industry contribution of customer feedback and market knowledge to ensure relevance



Partnerships for Innovation: Building Innovation Capacity



ENABLING SMART SERVICE SYSTEMS



Smart cities, smart healthcare, smart infrastructure, self-service and customized service solutions to improve government services, social and humanitarian services, etc.



Eligibility...

- Academic institution leads effort
 - Includes at least one industrial partner that has commercial revenues of any size
 - Academic institution receives award; some **small** businesses may receive subawards
- Must contain at least: an engineering/computer science, and a social, behavioral and/or cognitive science component
- Project Framework required with submission
 - Problem(s) the research intends to address.
 - Path(s) to future impact on service systems
 - Partners and why this partnership is appropriate; specific contributions (facilities, resources, know-how, etc.)
 - Vision for the future if project is successful: future of partnership and how takeaways will be implemented



Solicitation NSF PFI: BIC 13-587 by the Numbers...

- Only 2 proposals accepted per academic institution (as lead)
- Up to \$800K for up to 3 years
 - ~10 awards per year
- One submission window per year
- Letter of Intent required: **November 18, 2013**
- Full Proposal Deadline Date: **January 27, 2014**



Contacts & Additional INFO

- **IIP BIC Program Officer:** Dr. Sara B. Nerlove snerlove@nsf.gov

- **Cognizant Program Officers**

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[BIC Web Page: http://www.nsf.gov/eng/iip/pfi/bic.jsp](http://www.nsf.gov/eng/iip/pfi/bic.jsp)

NSF [SMART](#) SERVICE SYSTEMS LINKEDIN GROUP

VIRTUAL FORUM WITH ACADEME AND INDUSTRY EXPERTS: [SEPT 25](#)

WEBINAR BY NSF TO DISCUSS THE SOLICITATION: [OCT 10](#)