



NSF WEBINAR

PARTNERSHIPS FOR INNOVATION

Accelerating Innovation Research
(Solicitation: *NSF 12-571*)

Karlene A. Hoo, Ph.D.

Program Director

Industrial Innovation and Partnerships Division

Engineering Directorate

National Science Foundation

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The presentation will be available following the WEBINAR

<http://www.nsf.gov/div/index.jsp?div=iip>



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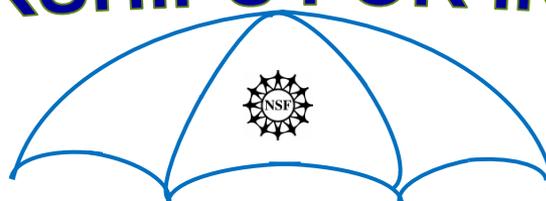
If you are unable to call in, please send your questions via email to: khoo@nsf.gov

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PFI: AIR NSF 12-571

PARTNERSHIPS FOR INNOVATION



BIC

AIR

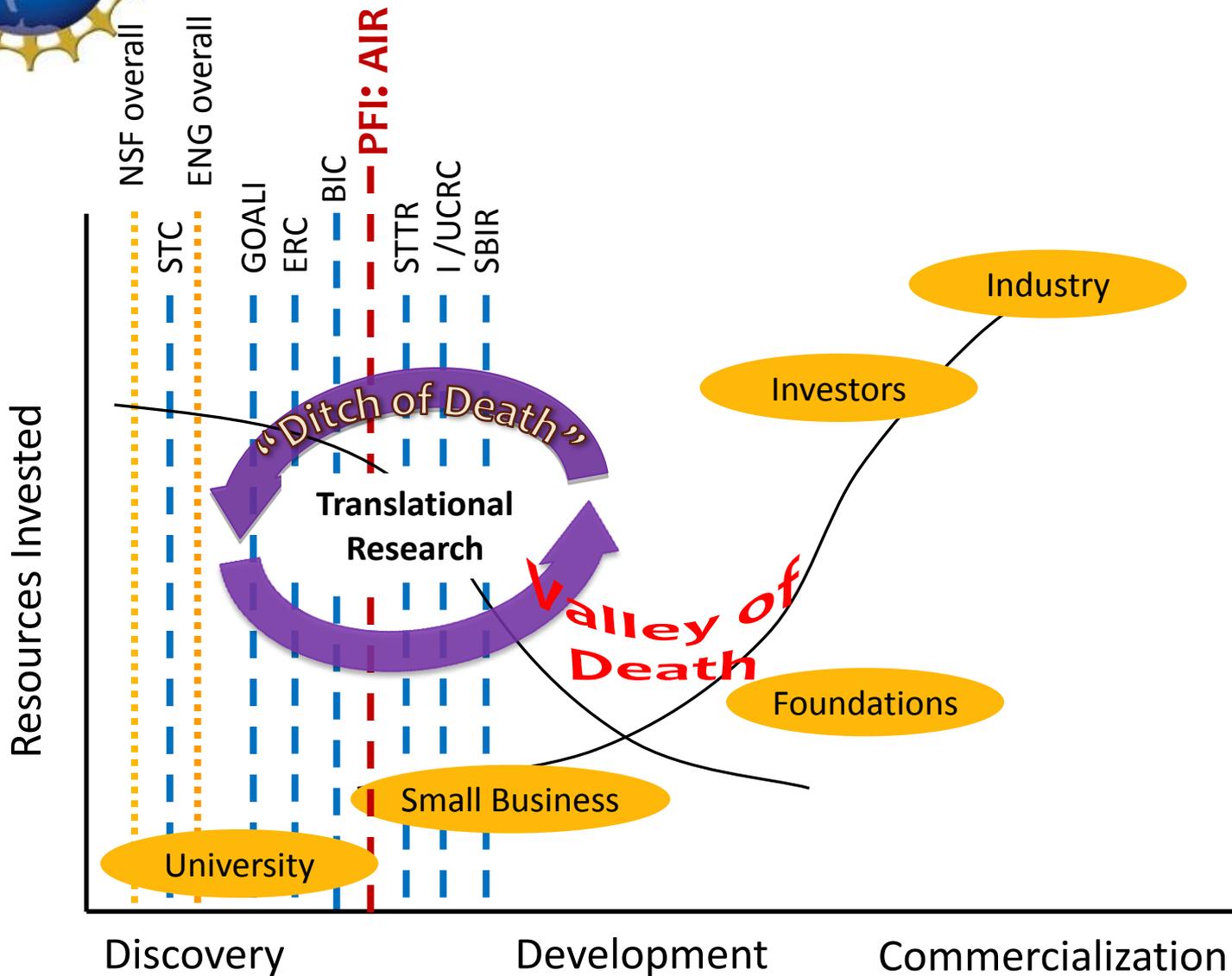
Technology
Translation

Research
Alliance

- Technology Translation
 - Single investigator or small groups of faculty
- Research Alliance
 - NSF- funded research alliance (e.g., research centers)



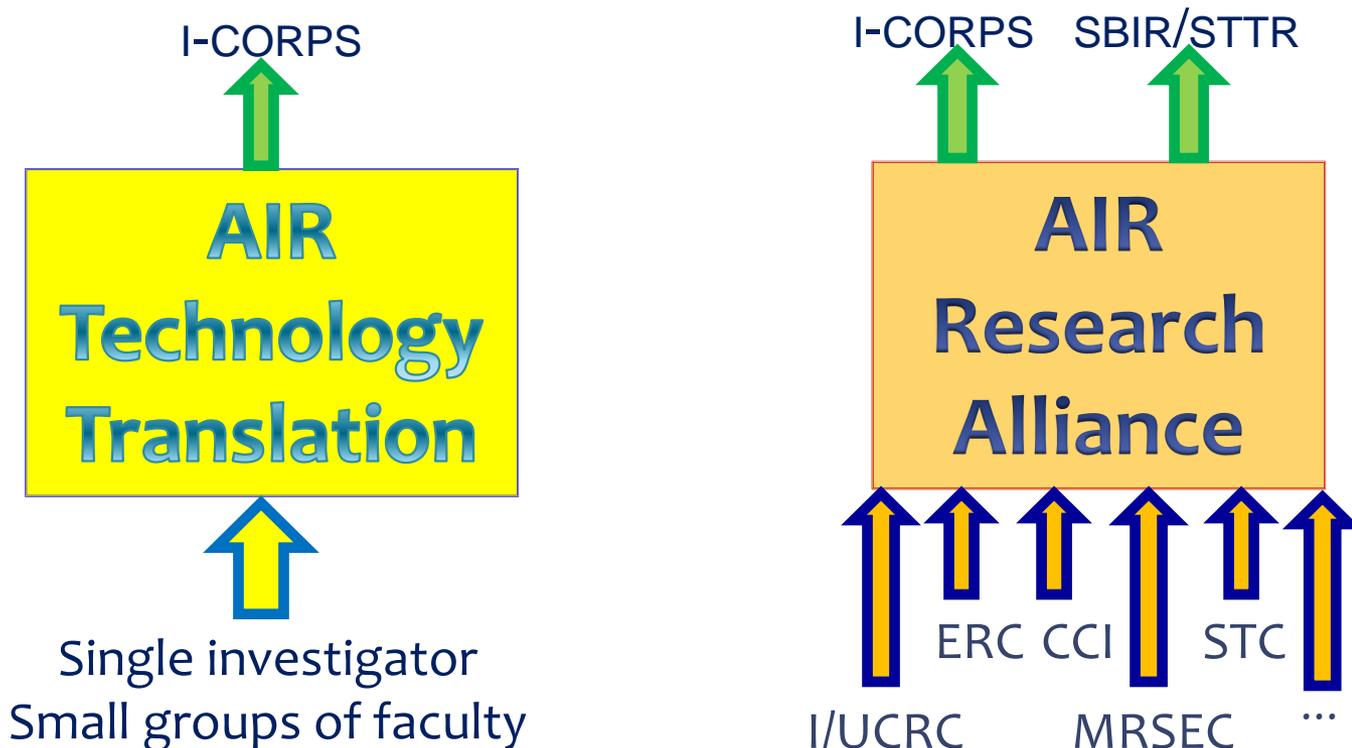
Innovation Spectrum





PFI: AIR Choices

Shared goal: movement along the innovation spectrum





Investments in *Innovation* Spectrum

- Choices have the *shared goal* of INNOVATION
 - Promote **translation/transformation/transition/transfer** of new ideas into
 - Market-valued innovations
 - Commercial realities
 - Creation of quality jobs
 - New competitive markets
 - Productive entrepreneurship
 - Integrate multiple disciplines
 - Partnerships with industries, practitioners, and others



Key Facts: **NSF 12-571**

- 2x/year

LOI required	Full proposal
Sept 12, 2012	Nov 13, 2012
Mar 13, 2013	May 15, 2013

- Technology Translation: up to \$150K/18-months
 - Estimate 30 to 35 awards
- Research Alliance: up to \$800K/24-months
 - Estimate 10 to 12 awards
- Anticipated funding: \$14,250,000
- PI can submit to only one choice



PFI: AIR Technology Translation

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- Core

- Single investigator or small groups of faculty
- Current or 4-years prior to solicitation due date NSF **research** award recipient
- Only one co-PI

- Goals

- To complete the necessary research such as proof-of-concept, prototyping and/or scale-up that addresses real-world constraints
- To move more existing research discoveries on the path to becoming new technologies
- To create entrepreneurial small groups of faculty



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- *Narrative*

- Overview of the lineage of the technology including its current state
- Clear identification of technology gaps for which the technology will fill
- Preliminary data re: market(s), patent, intellectual property, licensing, ...
- Justification that a fully functioning prototype will be a deliverable within the timeframe of the award

- *Supplementary Documentation*

- A milestone chart with deliverables
- A preliminary finance and revenue model

- *Expected accomplishments*

- Technical: prototype
- Manufacturing: conceptual design & financing



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- *Budget*

- It is allowable to expend up to 50% of the total budget as a subaward to a small business (as defined by the Small Business Administration)
- Clear justification must be provided
- SBAs: intent is to be U.S. based

- *Not allowable*

- PFI: AIR tech Translation does not fund industrial research and development
- PFI: AIR Tech Translation choice will not fund a proposal in which proof-of-concept is complete and/or prototype already exists
- PFI: AIR Tech Translation choice is not funding BASIC research



PFI: AIR Research Alliance

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•Core

- NSF-funded research alliance
 - ERC, I/UCRC, CCI, MRSEC, NanoCenter, EFRI, STC, and so forth
- Others: another research entity, small business consortia, local/regional innovation entity
- Third-party investors : **1:1 of which 75% must be a cash match**

•Goals

- Creates an innovation ecosystem
- *Translates and transfers* existing research discoveries to commercial reality, new quality jobs, and potential spin-offs
- Builds new partnerships
- Develops entrepreneurial culture



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- *PI*: Does not have to be the PI of the NSF-funded research alliance
- *Third Party Investor*: U.S. based entities
- *Narrative*
 - Overview of the lineage of the technologies including their current state
 - How the proposed partnerships will enable innovation that neither entity could do as well or rapidly alone
 - Strategic plan and milestone chart : tasks & deliverables
 - Assessment plan: measure success of the alliance & ecosystem sustainability
 - Intellectual property, patents, licensing, and so forth
- *Supplementary Documentation*
 - Third party investment table; Allocation of funds table
 - Letter from the PI of the NSF-funded research alliance *if* the PI is not that person



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- *Additional review criteria*

- Quality of the strategic plan, milestones, and deliverables
- Effectiveness of the plan to translate research and/or technology
- Commitment of partners, third party investors, and stakeholders
- Effectiveness of the partnerships in catalyzing an innovation ecosystem
- Quality of the management plan
- Effectiveness of the assessment plan
- Net added value to the students

- *Reverse site visit (at the NSF): end-of-the first year review*

- Internal review by NSF program directors
- Required Attendees: PI, research partner, & third-party investor (**No Phone-ins**)
- Measureable evidence of a developing and sustainable innovation ecosystem
- Review of Milestone chart and Strategic plan (post year 1 and pre year 2)



PFI: AIR Research Alliance awards





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Annotated list (e.g., see the key words you plan to provide in your project summary) of suggested reviewers with full contact information.

- If submitted prior to proposal submission, reference LOI number and send by email to the cognizant program director



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Questions

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