National Science Foundation
Small Business Technology Transfer (STTR) Program

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Division of Industrial Innovation and Partnerships
National Science Foundation

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NSF Mission and Vision

Mission

- "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes."

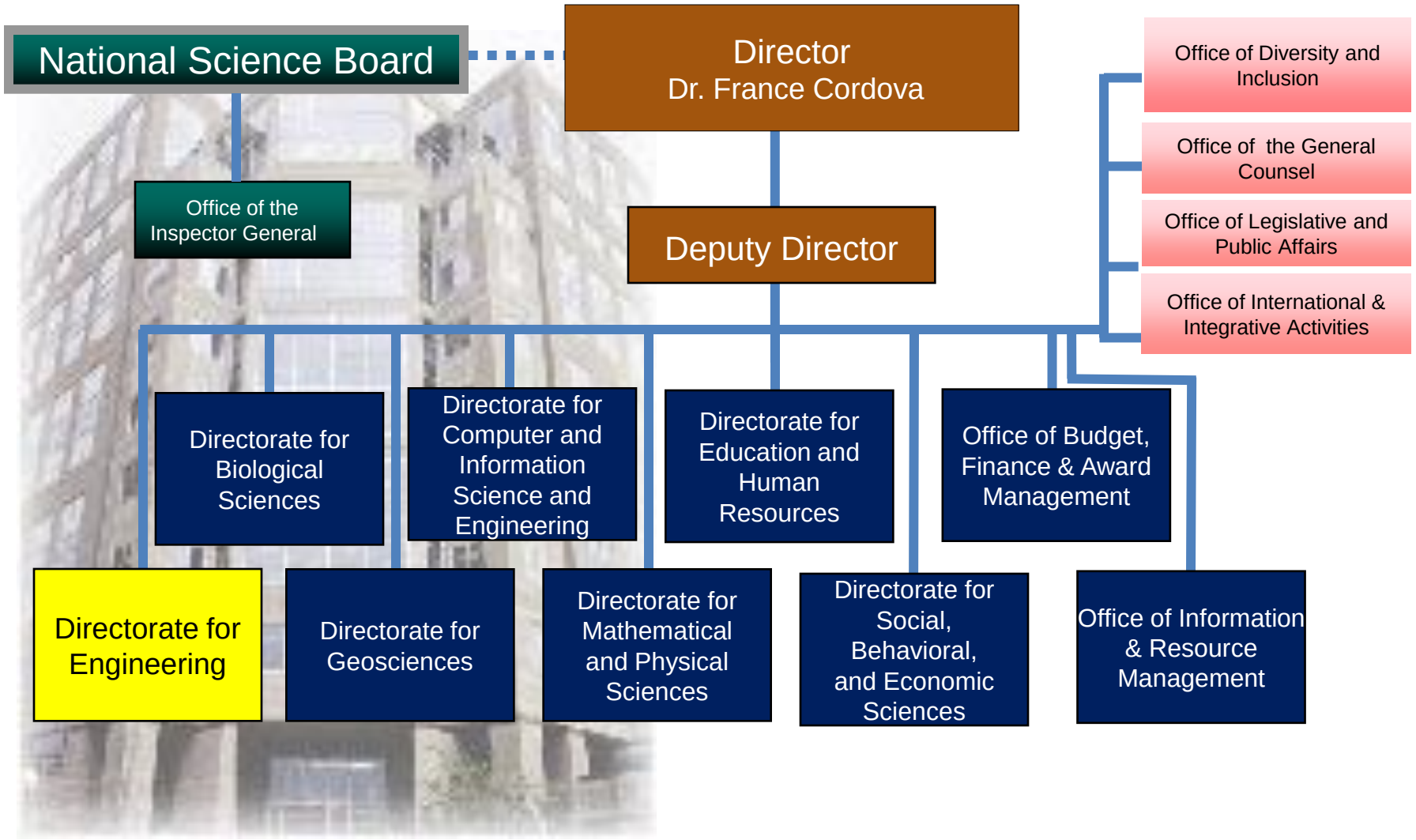
Vision

- "A Nation that creates and exploits new concepts in science and engineering and provides global leadership in research and education."

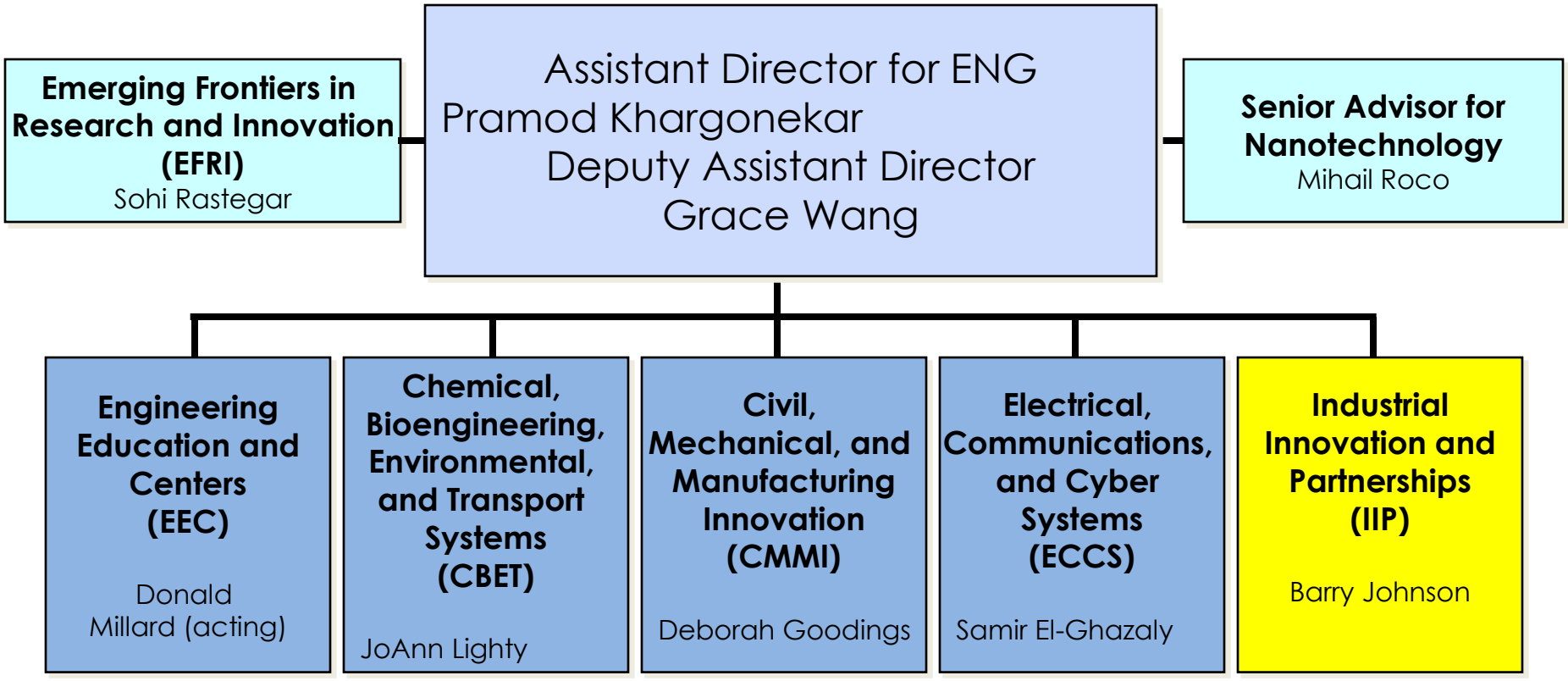
NSF Strategic Goals

- Strategic Goal 1: Transform the frontiers of science and engineering.
- Strategic Goal 2: Stimulate innovation and address societal needs through research and education.
- Strategic Goal 3: Excel as a federal science agency.

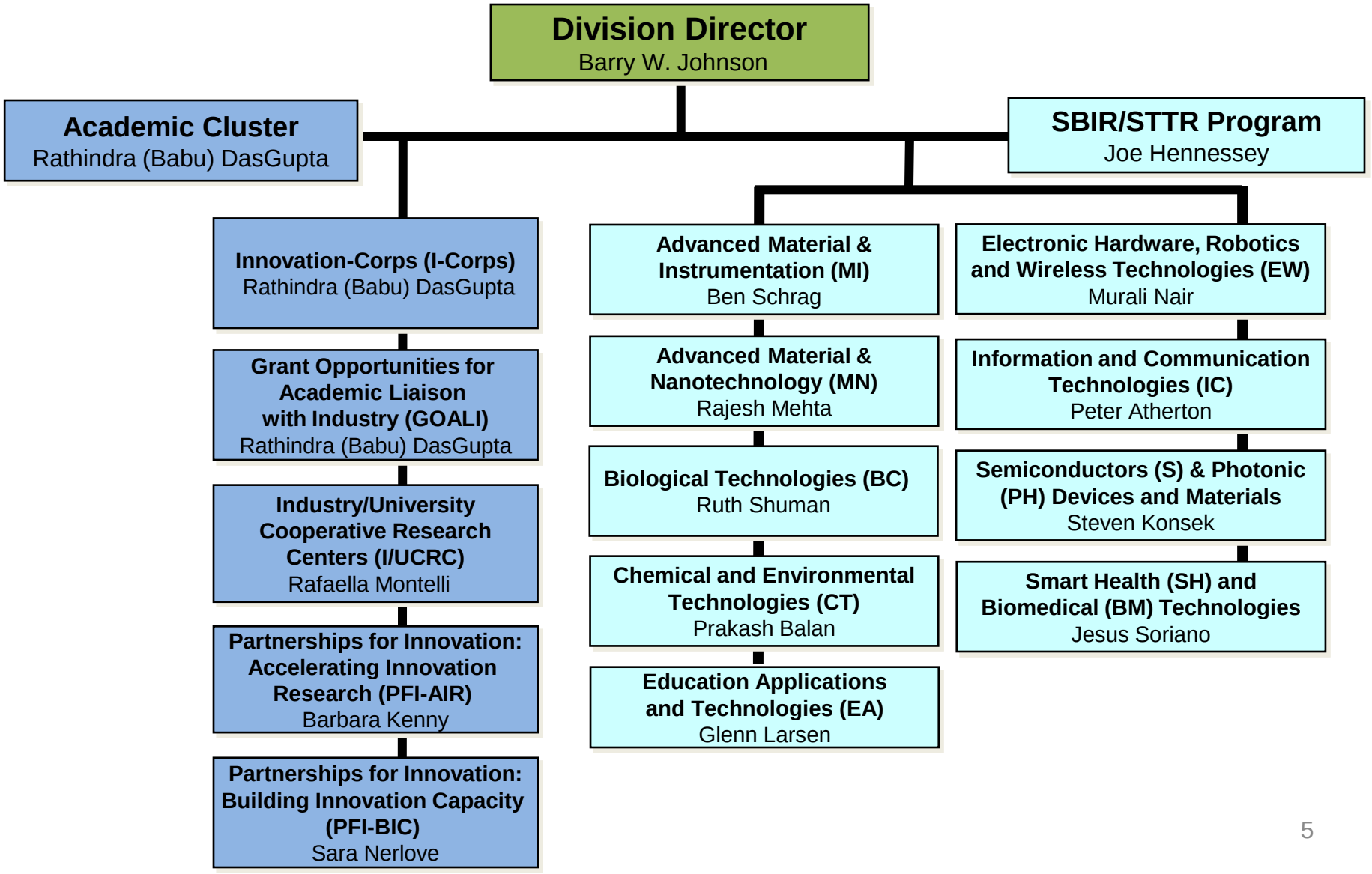
National Science Foundation



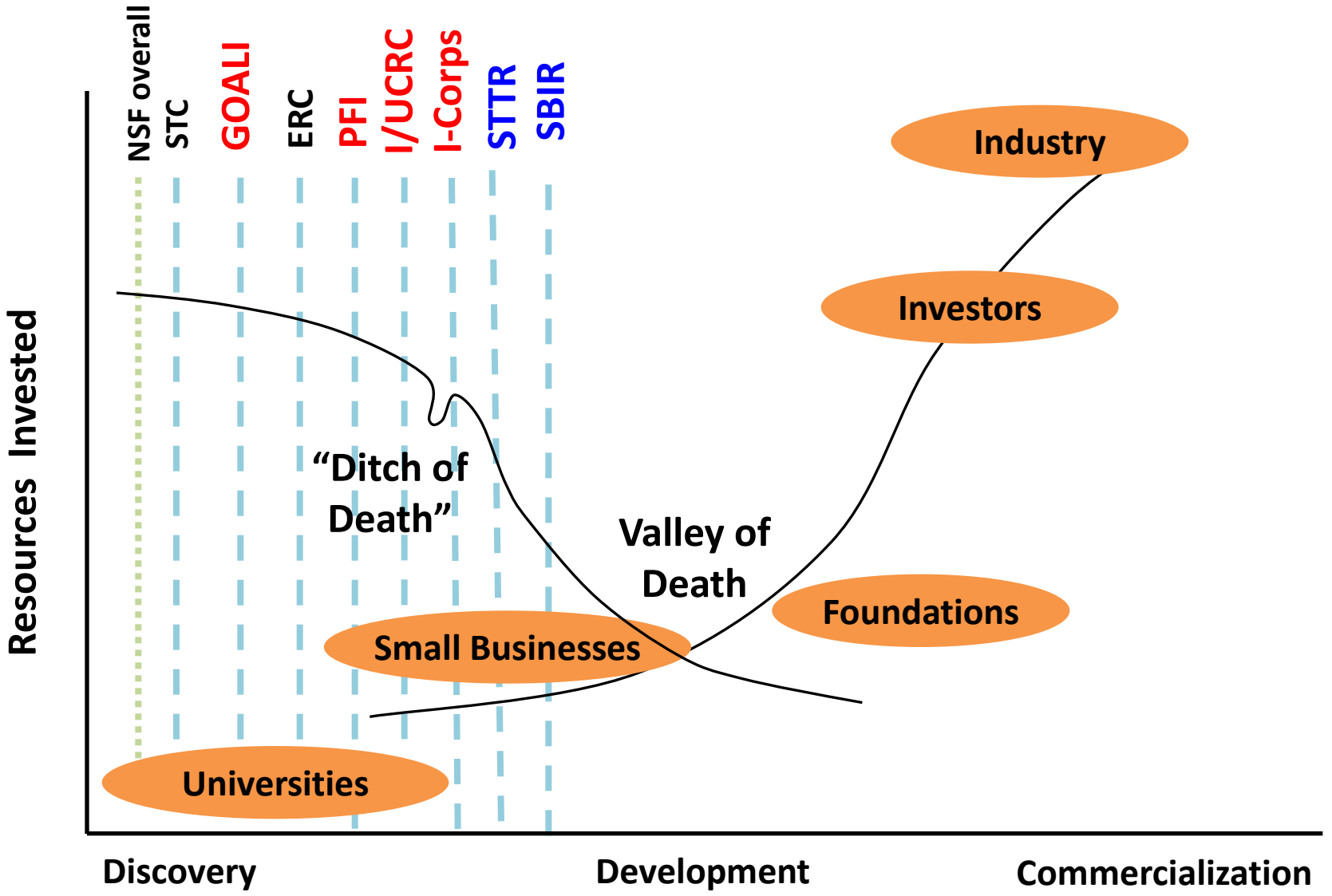
Directorate of Engineering



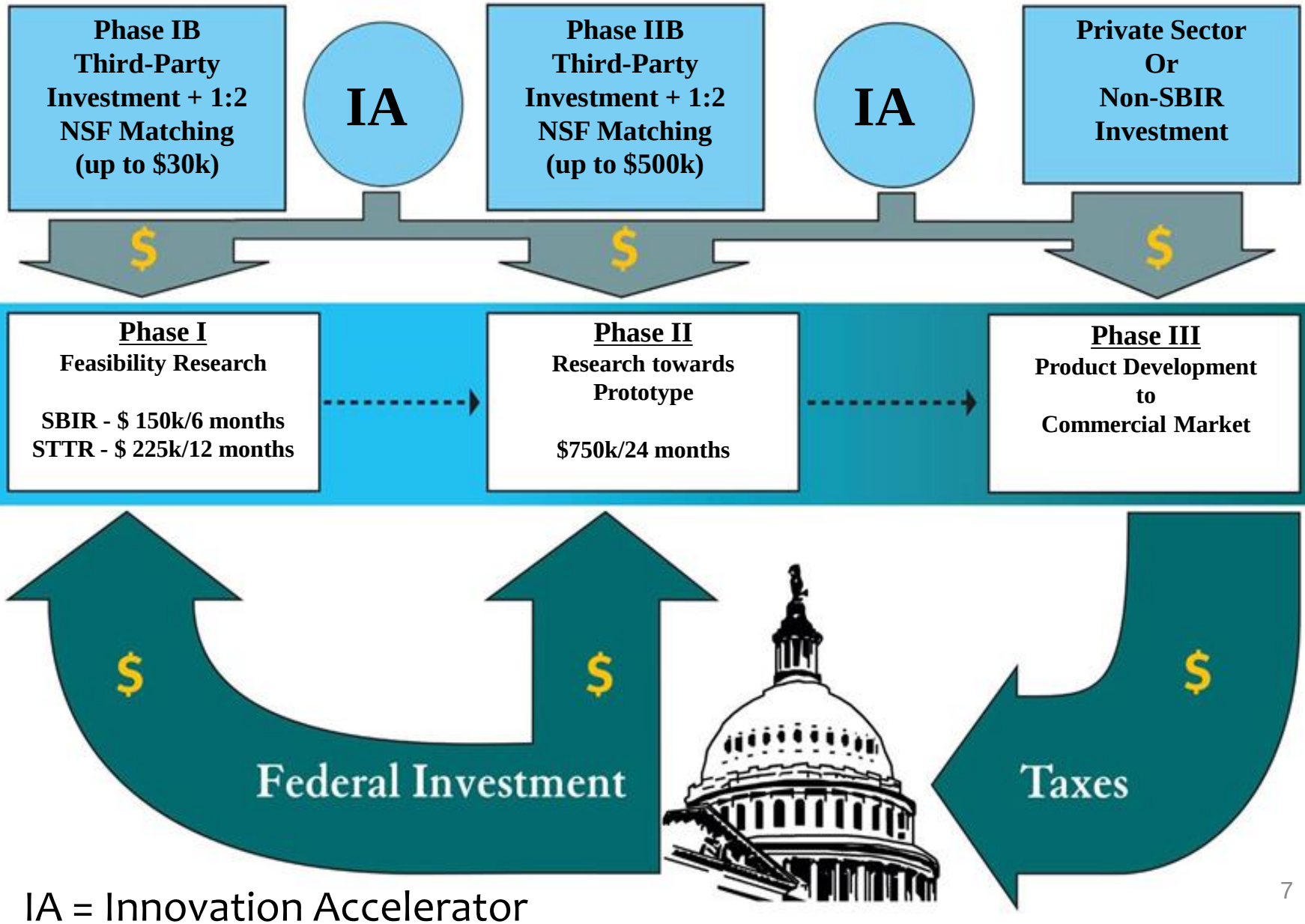
Division of Industrial Innovation and Partnerships (IIP)



NSF Program Spectrum



NSF SBIR/STTR Innovation Model

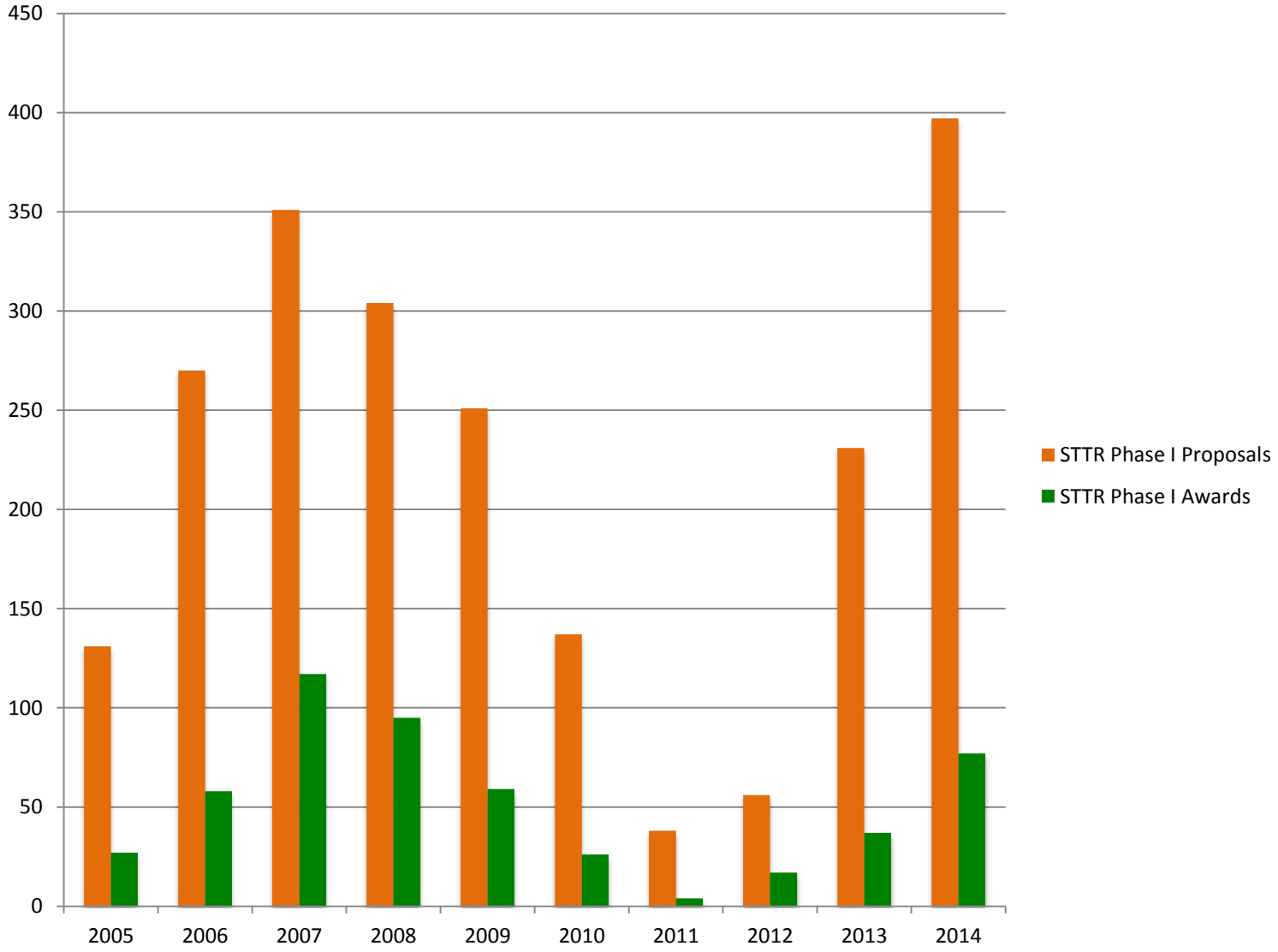


IA = Innovation Accelerator

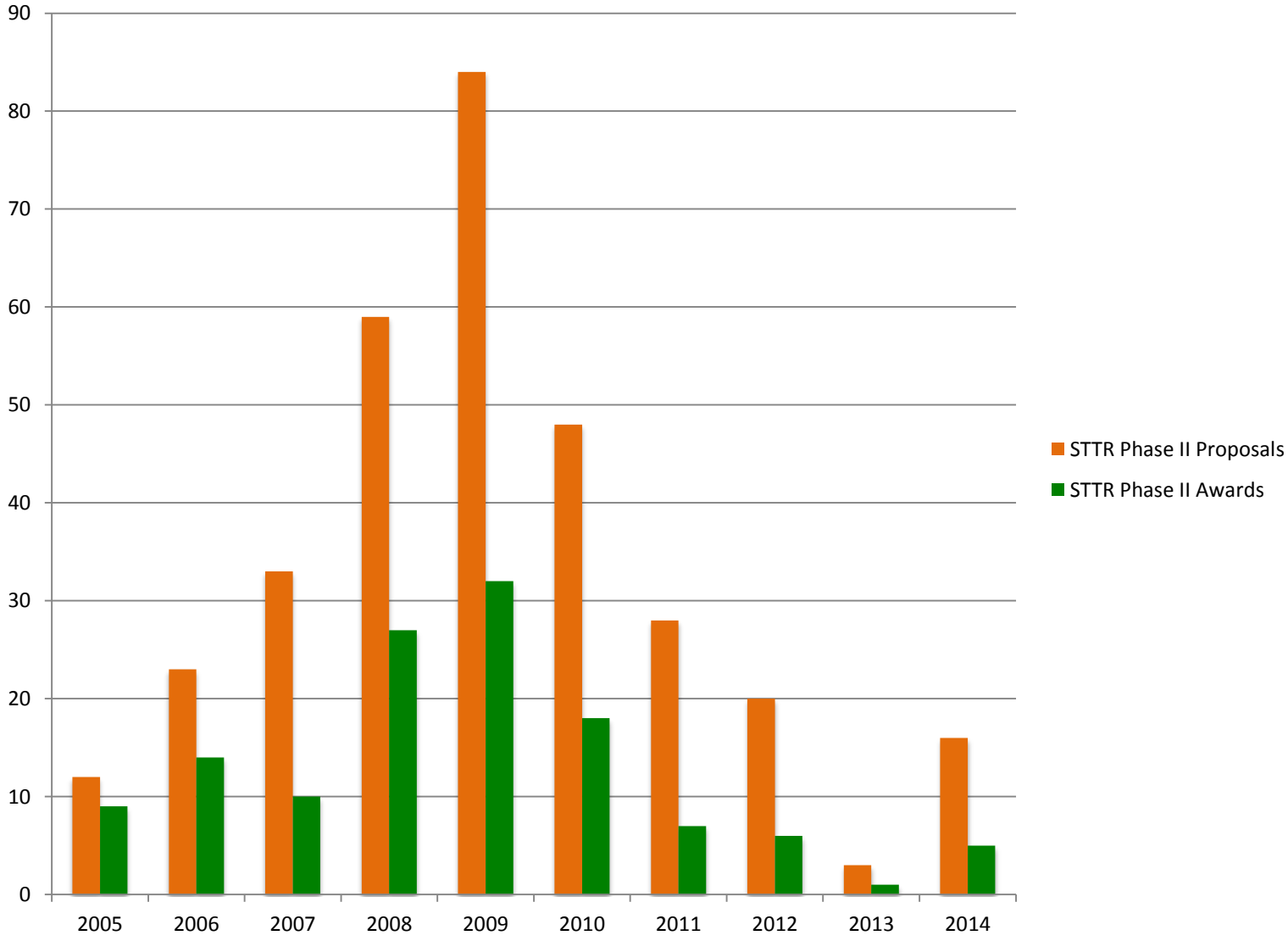
Merit Review Criteria

- Intellectual Merit - Quality of the Research
  - A sound approach for establishing technical and commercial feasibility
  - Qualified technical team
  - Sufficient access to resources
  - Significantly advances “state-of-the-art”
- Broader Impact – Potential impact on society
  - Commercial and societal benefits
  - Marketable product
  - Commercialization track record
  - Business expertise
  - Intellectual Property/Other Competitive advantages

STTR Phase I Proposals and Awards



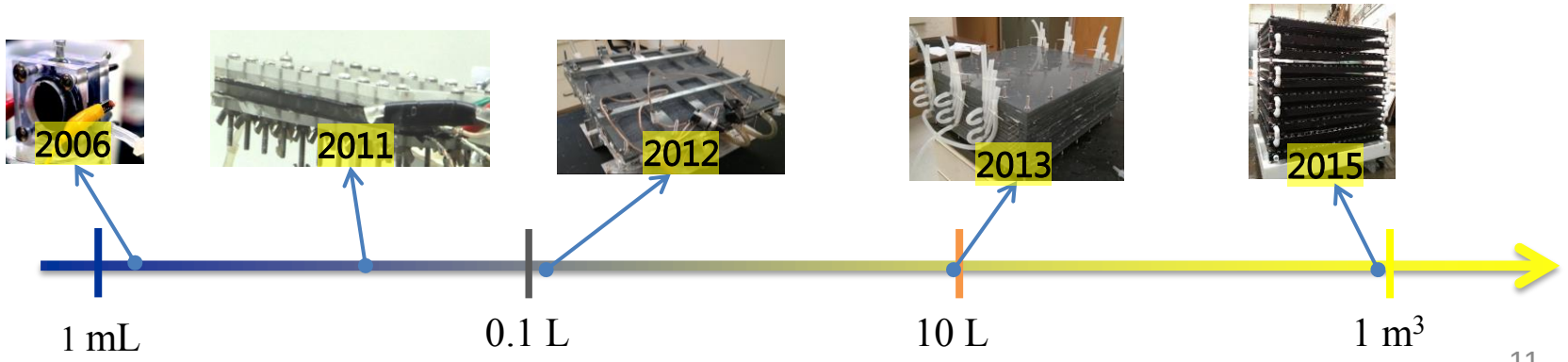
STTR Phase II Proposals and Awards



Example of Successful Evolution

Oregon State University OSU

2008-10	CBET: 0828544 **High Efficiency Bio-electrolytic Hydrogen Production from Biomass Using Nanostructure-Decorated Electrodes**
2010-15	CBET: 0955124 **CAREER: Electromicrobiological Studies Using Microbial Electrochemical Systems Capable of Sustainable Energy Production and Waste Treatment**
2012-13	IIP: 1265144 **I-Corps: Microbial Fuel Cells for Decentralized Wastewater Treatment and Energy Generation**
2013-15	IIP: 1312301 **AIR Option 1: Technology Translation Sustainable Wastewater Treatment System for Food and Beverage Industry**
2015	IIP: 1448986 **STTR Phase I: Next-Generation Microbial Fuel Cell for Highly Efficient Wastewater Treatment**



Reactor volume increase

Questions

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