

Technology Partnerships Office

MIST Small Business Summit INFINITY Science Center

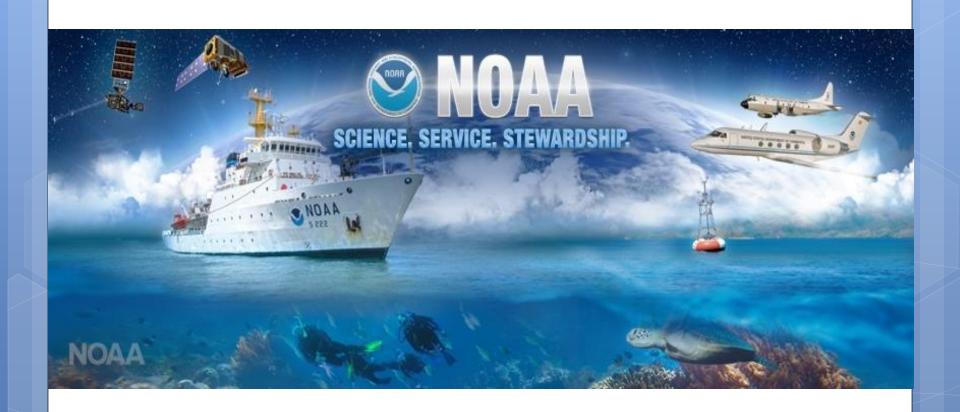
Vince Garcia Program Manager, SBIR Technology Partnerships Office

Agenda

- NOAA
- Technology Partnerships Office
- Technology Transfer
- Small Business Innovation Research



NOAA Technology Partnerships Office May 9, 2019





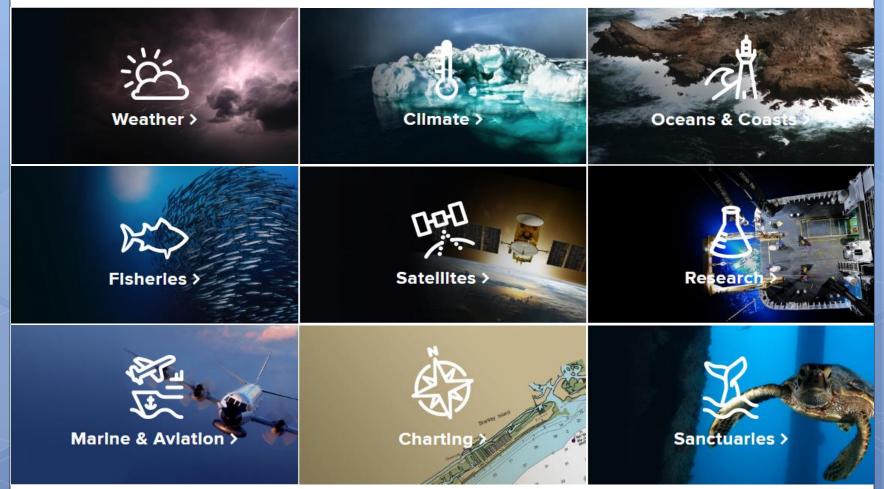




Mission: To understand and predict changes in climate, weather, oceans and coasts. To conserve and manage coastal and marine ecosystems and resources. To share that knowledge and information with others.



NOAA Technology Partnerships Office May 9, 2019





NOAA Technology Partnerships Office May 9, 2019





General Counsel

Glenn Tallia (NOAA) Henry Wixon (NIST)

Technology Partnerships Office

Kelly Wright, Director Nichole Wise, Office Manager (Contractor)

Contracts/Grants

AGO Kansas City GMD

Budget Officer

Marcey Guramatunhu

Acting Deputy Director

Barbara Edler (Detail)

Communications

Vacant

Technology Transfer Program

Derek Parks, Program Manager Gina Barerra, CRADAs

- CRADAs
- IP Management/Protection
- Patent License Negotiations
- Outreach and Events
- Annual Reporting
- Policy (NAO 201-103)
- Interagency Representative
- FLC Representative

echnology Partnership Committee & Innovation Managers

SBIR Program

Vincent Garcia, Program Manager Tiffany House, Commercialization Vacant, Support staff (Contractor)

- Solicitation / FFO
- Panel Reviews
- Grants / Contracts Oversight
- Outreach and Events
- Annual Reporting
- Policy
- Interagency Representative



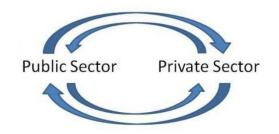




Definition

Technology Transfer is the process by which existing knowledge, facilities, or capabilities developed under federal research and development funding are used to fulfill public and private needs*

* Federal Laboratory Consortium for Technology Transfer definition





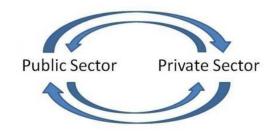
Tech Transfer Overview

Open/Passive Transfer (50%)

- Scientific Publications
- Data and Data Centers Models
- Software, Web-Based Decision Support Tools

Active/Controlled Transfers (50%)

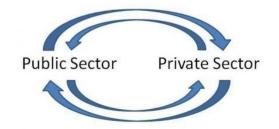
- Cooperative Research and Development Agreements (CRADA)
- Cooperative Institutes/Visiting Researchers
- Patent License Agreements
- SBIR –TT
- Facilities Use Agreement (FUSA) New in 2018





Selected T2 Successes

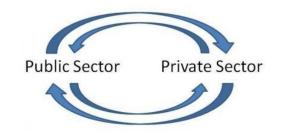
- US Weather Industry
- Science on a Sphere
- DART Buoys
- PIT Tags
- Wind Profiler Network
- Omega 3 Fish Oil





New NOAA Technology Lionfish Trap

- Explosion of the invasive Indo-Pacific lionfish in the Atlantic, Gulf of Mexico and Caribbean is a serious threat to coral reefs
- NOAA developed and released designs for new lionfish traps that could provide the first realistic means of controlling invasive populations and support the development of a new fishery.

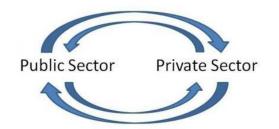




Learn More: https://sanctuaries.noaa.gov/lionfish/

The Magical CRADA

A Powerful Tool for Expanding Collaboration





Cooperative R&D Agreement

Purpose and Use

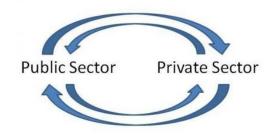
- Written agreement between a NOAA laboratory and one or more non-Federal parties
- Conduct collaborative R&D consistent with the NOAA mission
- Establishes rights and ownership of co-developed technologies
- Protects from FOIA disclosure for up to 5 Years

NOAA laboratory provides

 Personnel, services, facilities, equipment, intellectual property or other resources with or without reimbursement (but not funds)

Non-Federal parties provide

Funds, personnel, services, facilities, equipment or other resources





Facilities Use CRADA

Purpose and Use

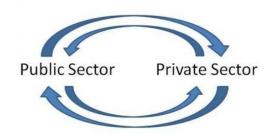
- Allows non-federal partners to access NOAA facilities and specialized equipment
- Still provides IP protection to collaborator
- First agreement executed in 2018 pilot agreement hopefully to expand more broadly.

NOAA laboratory provides

- Facility only
- Minimal personnel support
- Activities must be directly related and supportive of Lab mission

Non-Federal parties provide

Funds and personnel





CRADA Success: Big Data Project

5 CRADAs/5 Cloud Service Providers/4 Years

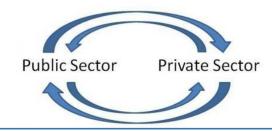
- Google, Amazon, Microsoft, IBM and Open Commons Consortium NOAA Provided
- Realtime Environmental Data... LOTS, and lots of data
- GOES-16 data feed
- NEXRAD Weather Data
- National Water Model, etc.

Cloud Collaborators Provided

- Rapid, open access to the data to their users
- Co-Located tools for data analysis

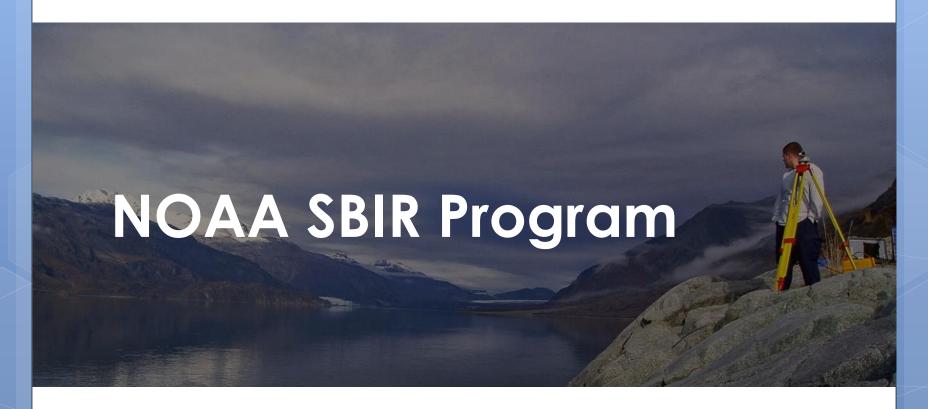
Benefits So Far...

New innovative, products, services and increased ROI on NOAA data





Learn More: http://www.noaa.gov/big-data-project













Small Business Innovation Research

- a highly competitive federal program established in 1982
- a set-aside of the agency's extramural R&D budget
- foster and encourage participation in scientific innovation and entrepreneurship
- primary goal is to increase private-sector commercialization and grow the small business industry
- policies directives and program metrics overseen by Small Business Administration (SBA)

Mission:

To support scientific excellence and technological innovation through the investment of Federal research funds in critical American priorities to build a strong national economy... one small business at a time





Previous SBIR Federal Funding Recipients:







NOAA SBIR Success Story

- Founded in 1992; First SBIR award in 1994
 - Awarded four SBIR contracts with NOAA
 - SeaTag ™ most successful SBIR project



SeaTag-LOG™ developed through SBIR

- Began commercializing the SeaTag ™ product in 2007
- Sales revenue funded development of three additional products
- Prior to 2007
 - 5 employees
 - \$250-500K in annual revenue (most revenue was realized through research and development)
- 2012-Present
 - 18 employees
 - SBIR 90% of off-the-shelf sales revenue
- \$1million+ in annual revenue





SBIR – Small Business Program Eligibility

- Must be organized as For-profit
- American-owned and independently operated
- Work must be done in the U.S.
- Principal Investigator employed by small business
- Company size limited to 500 employees



















Awards Solicitation per fiscal year

* Released

* Proposals due

* Available

Grants

One October

January

Grants.gov

Typical Phase I Awards 15 to 30 Typical Phase II Awards 10 to 15

NOAA SBIR Annual Funding ~\$10M



NOAA SBIR Topic Areas

- Aquaculture
- Recreational and Commercial Fisheries
- Weather Service Improvement and Evolution
- NOAA Big Data Partnerships
- Next-Generation NOAA Platforms
- Next-Generation Observation and Modeling Systems
- Flood



NOAA SBIR Evaluation Criteria

- 1. Technical Approach (20 pts)
- 2. Fulfillment of Subtopic Requirements (15 pts)
- 3. Level of Innovation (20 pts)
- 4. Commercial Potential (30 pts)
- 5. Qualifications of Team (15 pts)



NOAA SBIR Schedule FY2020

Subtopic Development

June – Aug 2019 SBIR Solicitation Released

Oct 2019

Proposals Due

> Jan 2020

Proposal Evaluation

Jan – Mar 2020 NOAA Award Selection

Mar – May 2020 Phase I Awards

> June 2020



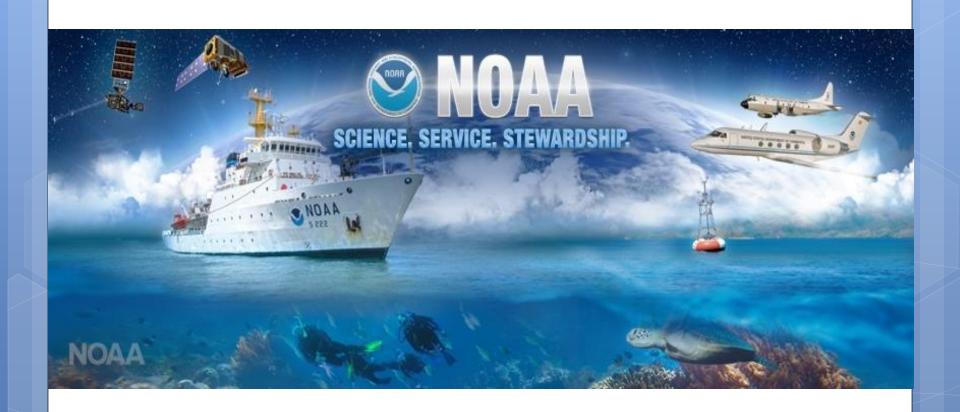
NOAA SBIR Insider Tips - EARTH

Early Submission
Apprehend the Rules
Read Funding Announcement Thoroughly
Think Commercialization, Propose Innovation
Homework

NOAA



NOAA Technology Partnerships Office May 9, 2019











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