MOVING TO LARGE SCALE
Moving toward LARGE SCALE

1. “Large Scale” Funding
2. Panel Discussion: Case study
3. MeetSparX and FundSparX: an introduction into a tool
4. Your feedback
Large Scale Funding Solicitations

How do you define “Large scale funding opportunities”? How about “Collaboration”?
Definition:

1. at a minimum, multi-disciplinary
2. can also refer to a certain award amount
3. integrates different techniques, expertise, perspectives etc.
4. solutions beyond scope of a single project and discipline
Different Levels of Collaboration

1. MULTIDISCIPLINARY:
   Independent projects

2. INTERDISCIPLINARY:
   Joint, interactive

3. TRANSDISCIPLINARY:
   no independent projects
Trend

• Research funding for individual project-based proposals is declining (e.g. NIH R01)

• Many federal agencies have large scale funding opportunities:
  • National Institute of Health
  • National Science Foundation
  • Department of Education
  • Department of Transportation
  • Department of Energy
  • National Endowment for the Humanities
Characteristics of Large Scale Funding Opportunities

- **COMPLEX**, long proposals
- **LARGE TEAMS**, with sub-awards, partners
- often **MULTIPLE STAGES** (e.g. LOI, pre-proposal, full proposal)
Steps in Large Grant Development

1. Team development:
   a. “bottom up” approach
   b. identifying team members
   c. identifying lead
   d. identifying e.g. industry partners
2. Theme development:
   a. determine “Theme”
   b. establish focus
   c. balancing project activities
   d. determine entire scope
   e. determine gaps in expertise informing team composition
3. Development of Application Components:
   a. assigning tasks/writing
   b. keeping to deadlines
   c. tracking progress over all different components
   d. arbitrating competing interests
   e. budget development
   f. keeping entire team informed on regular basis
Top Down Approach Often Does Not Work

- Existing research groups more successful
- Publication record may be required
- Researchers do not feel ownership
- Leadership “egos”
- Getting everyone in the same room on a regular basis (or even to answer emails)
WHAT ARE THE CHALLENGES WHEN PUTTING TOGETHER THESE TYPE OF GRANT APPLICATIONS?
Problem
Some Solutions

Gantt Charts

Time Management

Communication

Workflow
TeamSparX: A Tool

#NORDP2019  Providence, RI  April 29 – May 1, 2019
Creating a team

How to get researchers to work together on a project and connect with students!
TeamSparX: Exploring Tags

Select your interests

Select one or more categories that you're interested in to be notified when a new project, funding opportunity and/or faculty member or student is added in that category.

3D mapping with unmanned aerial vehicles

The recent advancement in drone technology has encouraged the engineering and scientific community to experiment UAVs (Unmanned Aerial Vehicles) for 3D mapping applications.

- **Camera**: There are a variety of off-the-shelf UAVs equipped with cameras (visible, multispectral, hyperspectral) available in the market for an affordable price.
- **Software**: There are also various software options available in the market to process and produce results that are acceptable for the projects where accuracy requirements are low.

However, for mapping of vegetated areas and low contrast beaches, cameras are not sufficient. Due to challenges in performing image matching, 3D models derived for such terrains are prone and unreliable. LiDAR sensors hence the option of using LiDAR sensors in UAV platforms will be inevitable in the future.
TeamSparX: Projects
TeamSparX: Project Description
TeamSparX: User Profile
TeamSparX: Funding Opportunities
Moving your team toward grant funding

How to get that multi-research grant application assembled!
Proposal A
In progress
The Atlantic Coast is threatened by disastrous storms every year. The dangers of high winds are widely publicized, but flooding has been...

Proposal B
In progress
This project, developing a river and water-resource consisting of a sensor network that forms an intelligent sensor fabric on a river basin, aims to provide real-time...

Proposal C
In progress
The significance of the project is that it will enhance the logical reasoning ability of students, and thus improve the quality of the software they develop...

Proposal D
Completed
The primary research objective of this grant is to advance the fundamental understanding of the different physical and mechanical properties of cells as th...
Proposal A

In Progress

Sponsor: NIH Grant Type: P50
May 29, 2019

The Atlantic Coast is threatened by disastrous storms every year. The dangers of high winds are widely publicized, but flooding has been responsible for more than half of all associated deaths. Unfortunately, existing forecasting capabilities are limited. Failure to predict significant flooding is of obvious concern, but the risks associated with perpetually inflated forecasts could be equally damaging. A citizen who evacuated Hurricane Irma's path based on storm surge warnings, only to return home to limited flooding, might consider ignoring future surge forecasts. Depending on the storm, that decision could be an enormous mistake. This project addresses surge forecasting limitations.

Document sections

- Specific Aims
  - Daniel Flynn
  - 40% 400 of 1000 words
  - Last edited 2 days ago

- Research Strategy
  - Daniel Flynn
  - 13% 100 of 800 words
  - Last edited 1 day ago

- Significance
  - Karin Scarpinato
  - 7% 70 of 1000 words
  - Last edited 1 day ago

Manager

Karin Scarpinato
Last edited 1 day ago

Contributors

Daniel Flynn
Last edited 20 mins ago

Luis Perez
Last edited week ago

Miriam Campo
Last edited week ago

Gina Niemi
Last edited week ago
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  - Last edited 1 day ago

- **Significance**
  - 7% complete
  - 200 of 3000 symbols
  - Karin Scarpinato
  - Last edited 20 minutes ago

- **Innovation**
  - 10% complete
  - 1 of 10 pages
  - Karin Scarpinato
  - Last edited 1 day ago

- **Biosketches**
  - 90% complete
  - 900 of 1000 words
  - Karin Scarpinato
  - Last edited 20 minutes ago

- **Resource Sharing Plan**
  - Partially complete
  - Karin Scarpinato
  - Last edited 20 minutes ago
Good evening!

Karin Scarpinato (kscarpinato@fau.edu) has invited you to become a contributor for the Proposal A (Sponsor: NIH Grant, Type: P50).

ACCEPT

With ❤️
TeamSparX team

You have received this email cause you are subscribed to TeamSparX. You can manage your subscription via your profile page.
Search for “Research Hub” on your device.

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We Would Like to Hear From You

What particular difficulties do you have with putting teams together?
What particular difficulties do you have developing large grant proposals?
What should be improved?
What other modules would you like to see?

Find us at the Poster Session!

#NORDP2019     Providence, RI     April 29 – May 1, 2019