



Item: AS: I-2

COMMITTEE ON ACADEMIC AND STUDENT AFFAIRS

Tuesday, June 7, 2022

SUBJECT: REPORT ON RESEARCH

PROPOSED COMMITTEE ACTION

No action is necessary. This item is only informational.

BACKGROUND INFORMATION

Dr. Daniel Flynn, Vice President for Research, will give a general update on the Division of Research, with a focus on opportunities for expanded federal engagement.

IMPLEMENTATION PLAN/DATE

N/A

FISCAL IMPLICATIONS

N/A

Supporting Documentation: PowerPoint Presentation

Presented by: Dr. Daniel Flynn, VP for Research

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Florida Atlantic University
Division of Research

**Advancing FAU's Research Mission
Beyond the current strategic plan**

June 7, 2022

Guiding Principles



Philosophy – When building a research program, let your regional assets guide your growth, then build on strength.



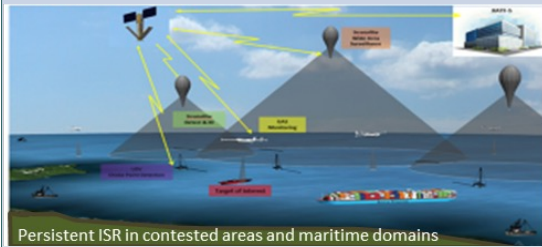
- **Regional assets –**
 - **An aging patient population**
 - **sensitive environment/coastline**
- **Current Strengths –**
 - **Neuroscience,**
 - **Ocean Engineering,**
 - **Sensor Systems and Computer Science**





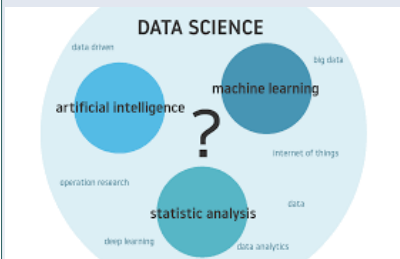
○ Institutional Assets

- Hospital research partner, Adjacent Research Park – access to patient populations
- HBOI - secure research facility, facility site clearance with a port, existing classified research projects with Navy and defense contractors – access to defense grants and contracts.



○ Areas of Opportunity –

- Data Science
- Oncology/Cancer research
- Colleges of Medicine and Engineering



- Opportunities to Lead, Excel & generate revenue to grow the mission –
 - Patient-based research as it relates to diseases of the brain and oncology (Hospital partnerships)
 - National Defense/classified research related to monitoring and protecting the American coastline (Navy, Defense contracting partnerships)



○ Long term goal

- **FAU Health** – A robust academic healthcare program with active hospital partner providing cutting edge care to patient populations and re-investments in health research mission
- **FAU Ocean Sciences Research Center** – a secure facility that conducts classified and non-classified research with the Navy and Defense contractors focused on monitoring and protecting America's coastline; evolve into a University Affiliated Research Center (UARC)

Achievement of Long-Term goals will position FAU to move towards \$200M of annual expenditures and provide a model for sustainable growth

Strategy to build research

○ Immediate Goals (FY23)

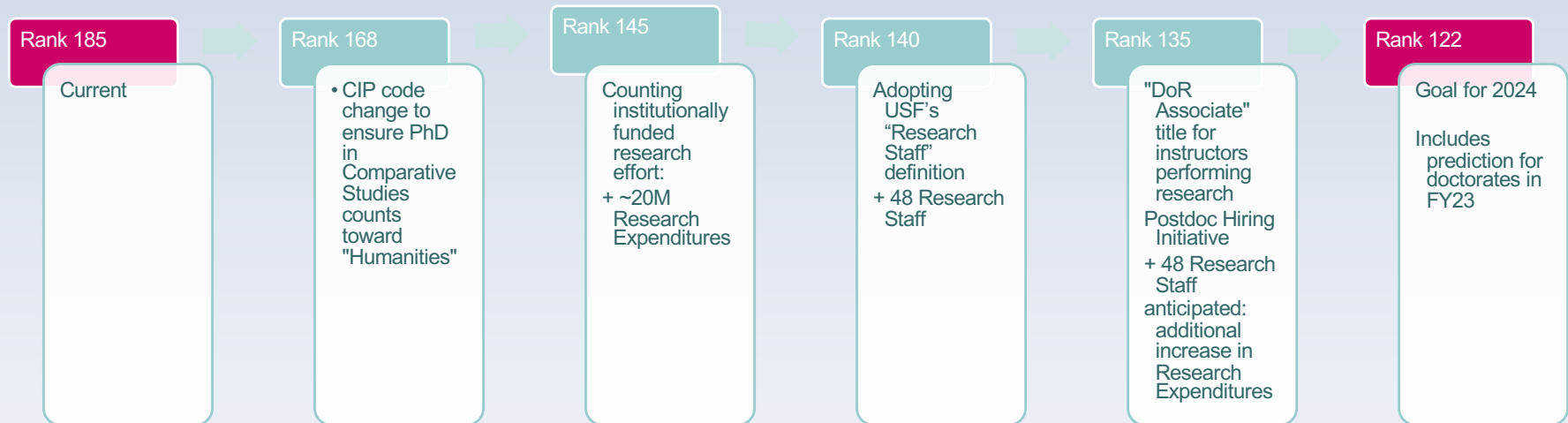
- Goal #1 – Maximizing Productivity of current assets
 - Internal accounting of Research Effort
 - Coordinated hiring between Colleges & Pillars
 - Maximizing ROI on research space assignments
- Goal #2 – Effective Academic and P3 partnerships
 - Biomedical – Hospital, Research Park, UF/Scripps, Tech Runway
 - DOD – L3Harris, AUTECH/Amentum
 - International – Israel, South America

Outcome

- Internal Adjustments - \$22M included in expenditures, increased external expenditures
- Initiate a model for Academic Medicine and Funds Flow to COM
- Leverage Research Park and P3 partnerships
- UF/Scripps – High risk/High reward research, some economies of scale
- DOD – Increased revenue, classified research mission, DOD contracting/subcontracting

Reaching Carnegie R1 status by 2024

- Required a minimum rank of “137” (based on 2021 data)
- Uncertainties: Other institutions will improve



Required Investments for Carnegie R1 – (Puts Research Expenditures ~ \$130M-\$140M) - \$12M one-time; \$5.5M recurring

- Faculty hiring
 - 2 co-hires/pillar/yr for 3 yrs – 24 hires
 - Budget - \$2.1M recurring, \$12M non recurring
- Increase Doctoral stipends to national average
 - \$1M/yr recurring
- Post Doc hiring
 - \$540k/yr recurring
- Seed Grant program
 - \$800k/yr recurring
- Add stipend lines in key PhD programs - \$500k/yr
- Add Research administrators - \$522k/yr

- Investment – to get to \$200M/yr expenditures
 - HBOI – Reinvest F&A, hire non-tenure track faculty
 - Medicine – Robust academic medicine model
 - Faculty Hires - minimum 10 new hires and 10 replacement hires/year in strategic areas, over 10 years
 - Facilities – Double assignable research space
- Cost
 - People - \$34M over 10 years, front loaded
 - Facilities – 4x\$50M raised, with State/P3 match
 - Execution of plans for HSC and Engineering buildings at 100,000 ft² each - \$50M raise for each with State Match
 - Need 2 more buildings at 100,000 ft² each for Medicine and HBOI - \$50M raise for each with P3 match

○ Footnote

● Consider a different budget model

- Less centralized, more distributed model with incentives that drive growth shifts control/creativity, and accountability for ROI, to individual units

● Result –

- growth of faculty supported by soft money,
- Greater attention at college/department level to ROI