Item: AS: I-4

COMMITTEE ON ACADEMIC AND STUDENT AFFAIRS
Monday, June 15, 2015

SUBJECT: UPDATE ON RESEARCH

PROPOSED BOARD ACTION
No Action required. Information item.

BACKGROUND INFORMATION
Dr. Daniel Flynn, Vice President for Research, will provide the Committee with an update on the plans and programs of the Division of Research, as well as a report of recent highlights.

IMPLEMENTATION PLAN/DATE

N/A

FISCAL IMPLICATIONS

N/A

Presented by: Dr. Daniel Flynn, 561-297-0268

Board of Trustees Committee on
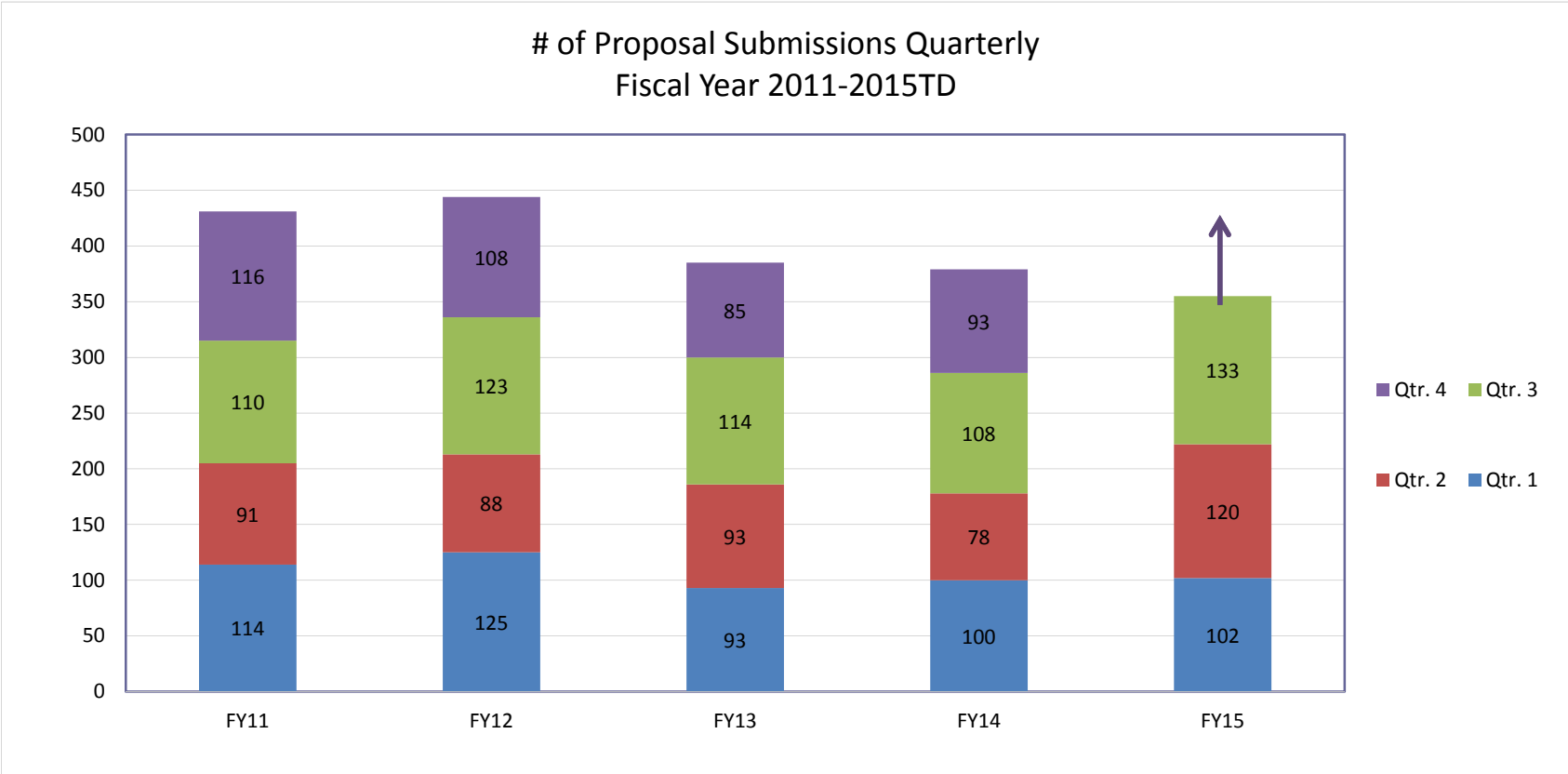Academic and Student Affairs
June 15, 2015

Research Snapshot at FAU

- Extramural research funding has dropped from $43M/yr to $33M/yr (FY11-FY14)
  - For FAU, $60M - $80M/yr should be expected
  - Limited number of faculty engaging in research
    - Too few applications submitted
    - Need to strategically recruit researcher-intensive faculty
  - Average grant is 2 years in duration
    - Indicates reliance on short term, smaller project grants
    - Need to move to larger, longer-term Federal grants
  - Lack of organized infrastructure to promote research
    - Team Science Programs, Core Facilities/Technology
  - Need to increase capacity for clinical research
    - Patient based studies
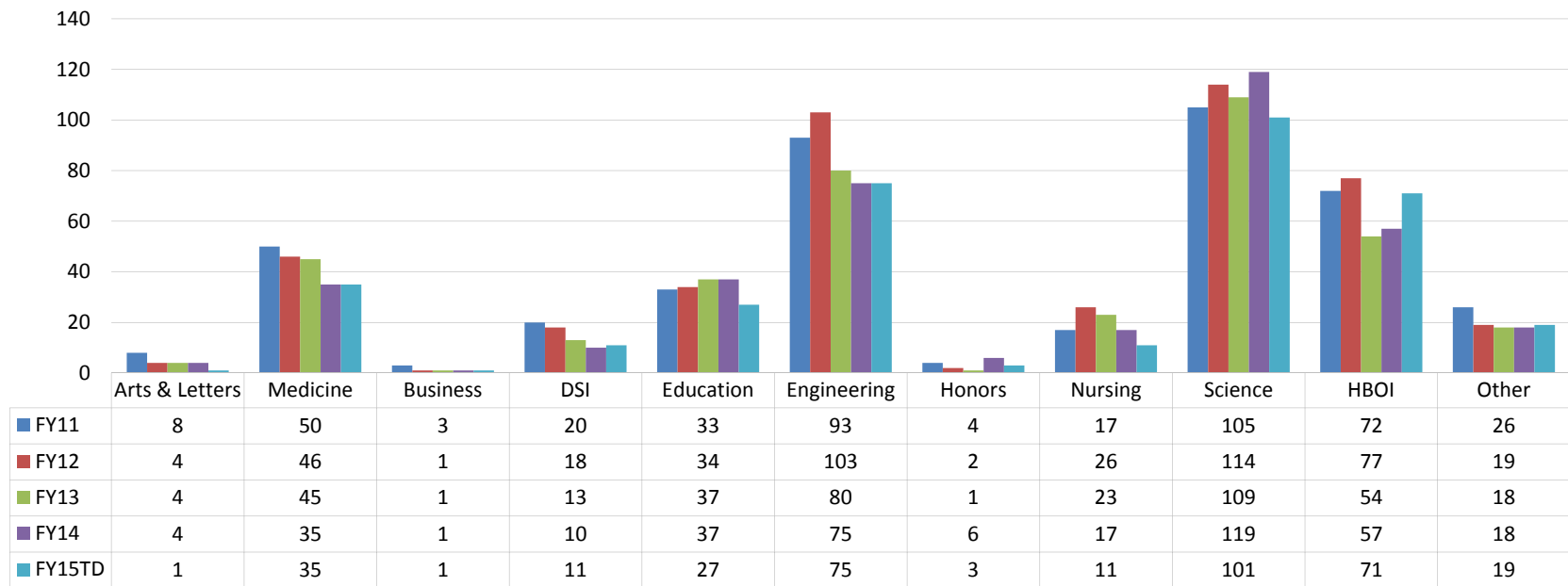   - Clinical Trials

Grant Funding

Award $ Received Quarterly
Fiscal Year 2011-2015TD

Proposal Submissions

# of Proposal Submissions Quarterly
Fiscal Year 2011-2015TD
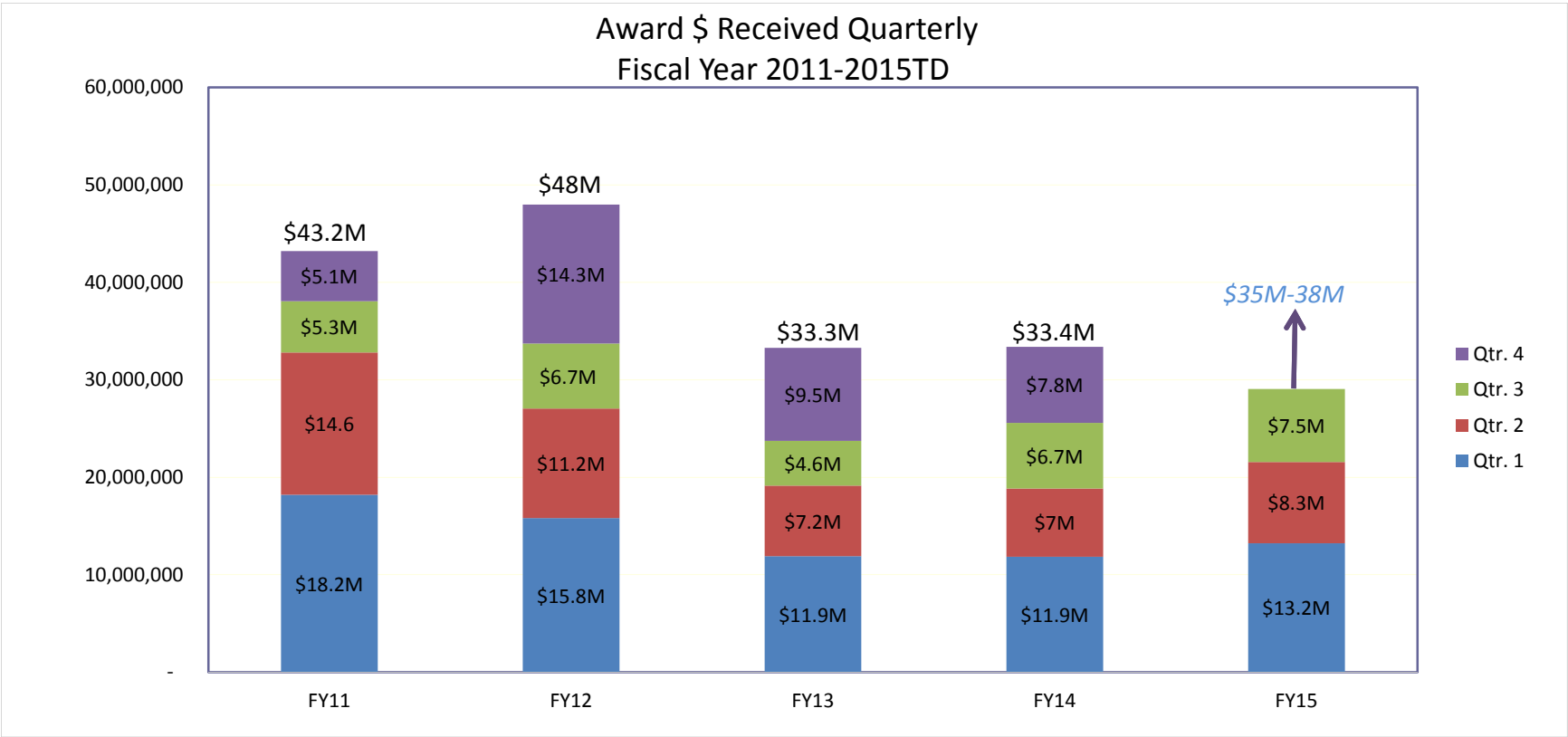
Colleges active in applying for grant funding

Proposal Submissions by College
Fiscal Year 2011-2015TD

	Arts & Letters	Medicine	Business	DSI	Education	Engineering	Honors	Nursing	Science	HBOI	Other
FY11	8	50	3	20	33	93	4	17	105	72	26
FY12	4	46	1	18	34	103	2	26	114	77	19
FY13	4	45	1	13	37	80	1	23	109	54	18
FY14	4	35	1	10	37	75	6	17	119	57	18
FY15TD	1	35	1	11	27	75	3	11	101	71	19

Current efforts to increase grant funding

- Increase the capacity of current environment
  - Grant Submissions – Increase quality/quantity
  - Pillars – form programmatic teams
  - Technology – Centralize, organize
- Enrich the research environment
  - Faculty hires – strategic recruitment
  - Programmatic Grants
 - Develop Clinical research mission

Increase the capacity of current environment

- Grant Submissions – Increase quality/quantity
  - Quality
    - Editors available for review of faculty grants
    - Internal review committees
    - External review committees
    - Matching faculty research to funding agencies
    - Grant Writing workshops
  - Quantity
    - Program to foster multiple submissions to different agencies
    - Corporate contracts will be solicited
    - Research-intensive faculty hired

Team Science - Pillars

- Pillars – form programmatic teams
  - Research Visioning Retreats for Pillars
    - Neuroscience – May 29, 2015
    - Remote Sensing – June 17, 2015
    - Healthy Aging – August 13, 2015
    - Environmental Sciences – September 2015
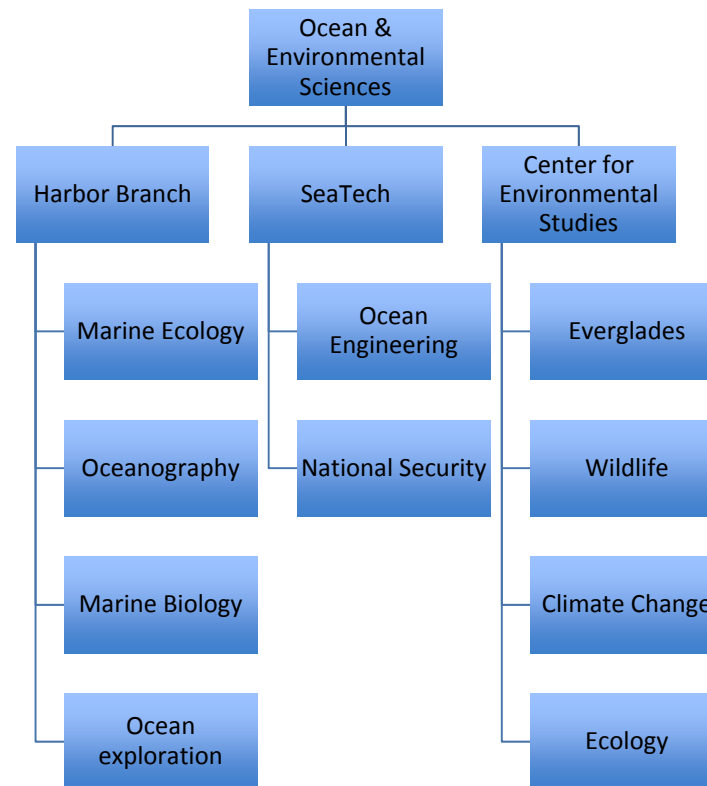
Neuroscience Pillar
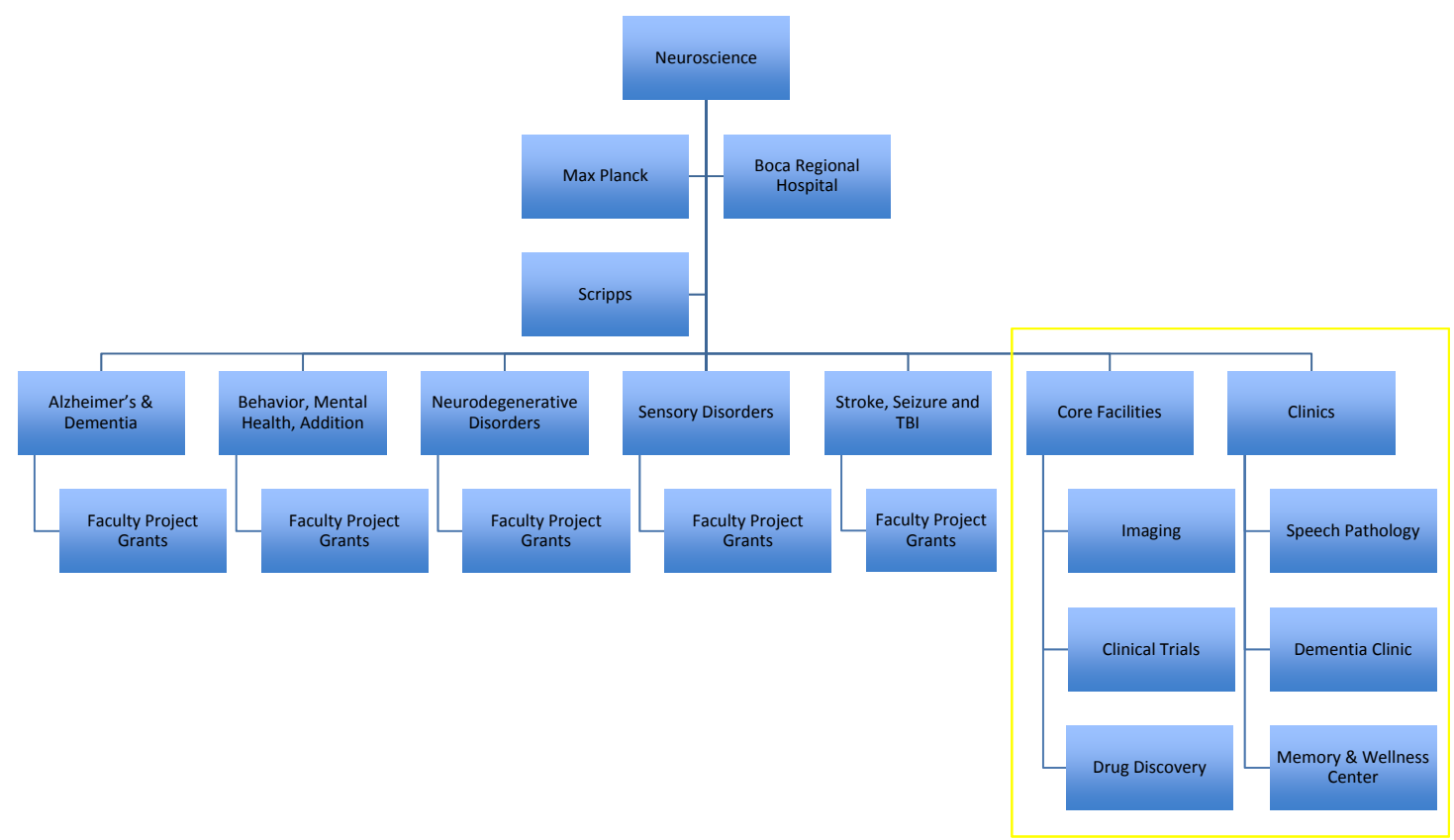
Remote Sensing Pillar

- Faculty will identify Programmatic Areas
  - Health
  - Ocean
  - Rivers and estuaries
  - Transportation
  - Internet of Things

Healthy Aging

- Diseases of aging
- Health and Wellness
  - Health Economics
  - Epidemiology
  - Health Monitoring
  - Risk Assessment
- Rehabilitation

Ocean & Environmental Sciences - Hypothetical

Research Infrastructure

- Technology – Centralize, organize
  - Core Facilities
  - Facilities – wet labs, vivarium
  - Common Equipment areas
  - Technologies shared with partners

Recruiting Research-Intensive Faculty

- Faculty hires – strategic recruitment
  - Hire Pillar Directors
  - Implement co-hiring strategy
  - Allow the Directors to have input on hiring of Chairs, Directors

Programmatic Grants

- Programmatic Grants
  - Larger grants that support the programs in each pillar
  - E.g. Center and Program-Project Grants
    - Environmental Sciences – USGS center of excellence
    - Sea Tech – Programmatic grants from the DoD
    - HBOI
    - Neurosciences
    - Healthy Aging

Clinical Research

- Develop Clinical research mission
  - Develop a clinical trials infrastructure
  - Partner with hospitals
  - Conduct studies that directly benefit and impact patient populations
  - Develop an infrastructure that promotes patient recruitment to funded studies

Goals – FY16-FY17

- Grant submission
    - Increase by 2-fold grant submissions
    - Increase submissions to federal agencies by 2-fold
- Pillars
    - All 4 pillars formed with program areas identified
    - Director hired
    - Co-hiring of 2 FTEs/Pillar/Year with departments
- Technology
    - Strategic core facilities developed and active as cost-centers
        - Statistics
        - CTRU
        - Imaging & Microscopy
        - Molecular core
        - Cell biology core
        - Bioinformatics and Big Data
        - Others, as needed

Goals – FY16-FY17

- Programmatic Grants
  - 1- 2 programmatic grants submitted and competitively reviewed
- Clinical Research Mission
  - Hire clinical-research faculty (Medicine, Nursing)
  - Increase the activity of the CTRU by 5-fold
  - Increase the number of patients who participate on clinical studies by 3-fold
- Research Activity
  - Increase research funding by 20%