



***Hampton Roads Innovation and
Commercialization Center***

A Strategy to Capitalize on Success

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National Institute of Aerospace**

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2007 Finalist for NASA's *George M. Low Award* for Quality and Excellence

Outline



- Introduce the National Institute of Aerospace
- Five Years of Growth
- Hampton Roads Innovation and Commercialization Center
- Economic Benefit to Region and Commonwealth
- Financial Support Needed

National Institute of Aerospace



- An Independent Non-profit Research Institute
- Formed in 2002 by a Consortium of Six Universities and the AIAA Foundation
- Conceived by NASA Langley Research Center to serve as a Collaborative Partner
- Three Key Missions:
 - **Research** that is broadly relevant to Aerospace
 - **Graduate Education** in Engineering and the Sciences from Member Universities
 - **Outreach** Programs to enhance the nation's Science and Technology Workforce



Member Universities



University of Virginia

Virginia Tech

Hampton University

Old Dominion University

The College of William & Mary

Georgia Tech

North Carolina A&T State University

North Carolina State University

University of Maryland



NIA's Research Programs Focus on Federal and Commercial Funding

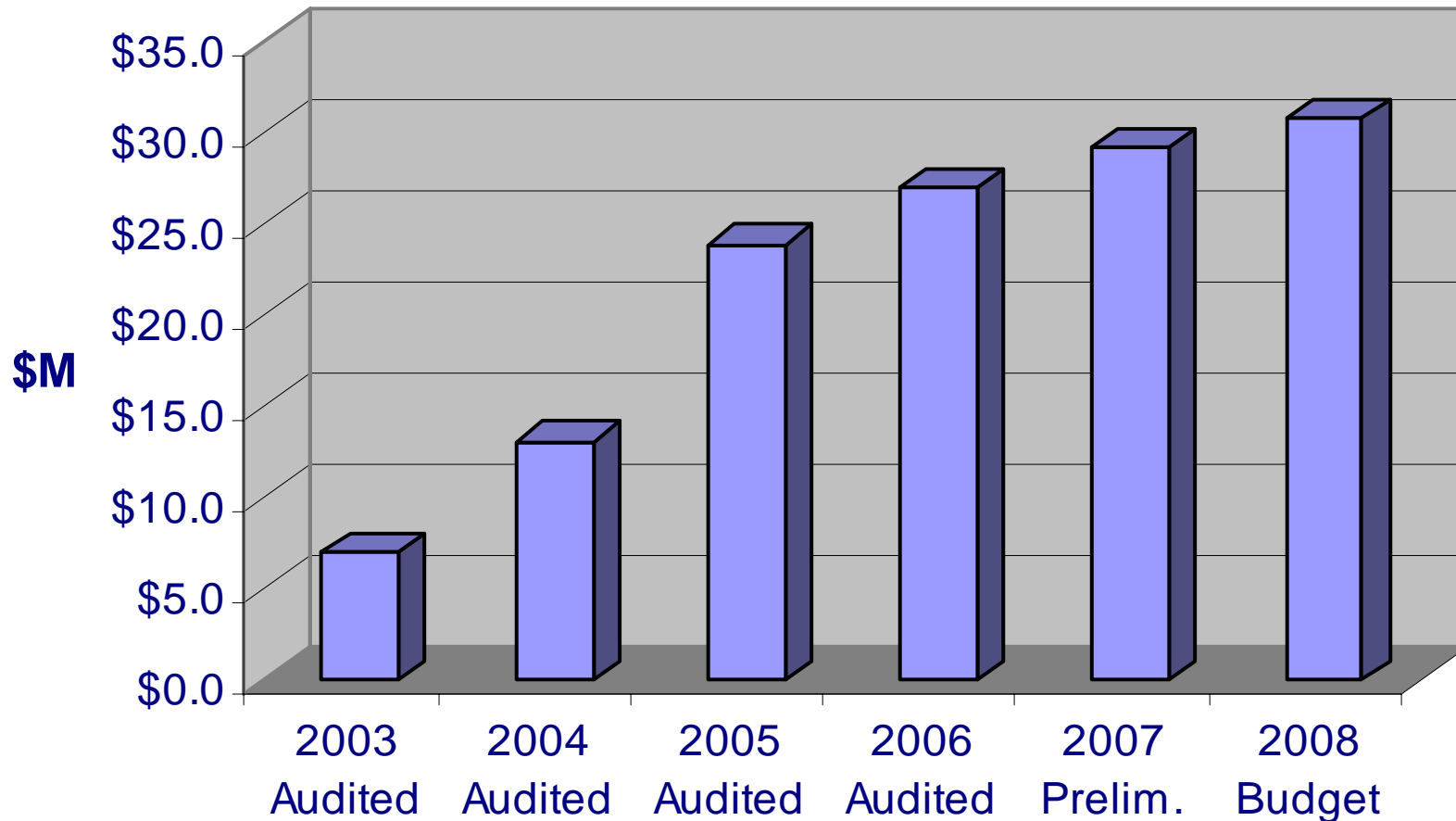


NASA Langley Research Center	Aerodynamics, Aviation Safety, Sensors, Space Exploration Technologies, Materials, Structures, Atmospheric Sciences
Other NASA Centers	Hypersonics, Space Robotics, Lunar and Planetary Science
DARPA	Unmanned Aerial Vehicles (UAVs), Space Structures
Federal Aviation Administration	Next Generation Air Traffic Management
Army Research Laboratory	Helicopter Aerodynamics and Structures
Naval Air Systems Command	UAV Airworthiness
Air Force Research Laboratory	Aging Aircraft
Department of Homeland Security	Aviation Security
National Oceanic and Atmospheric Administration	Climate and Weather
National Reconnaissance Office	Space Technologies
Commercial Aerospace Sector	Aerodynamic Control, Aerospace Materials, Sensors

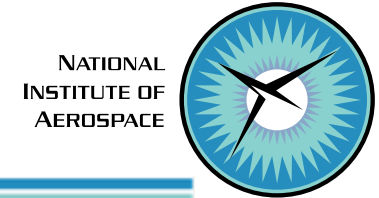
NIA has Demonstrated the Ability to Sustain Growth



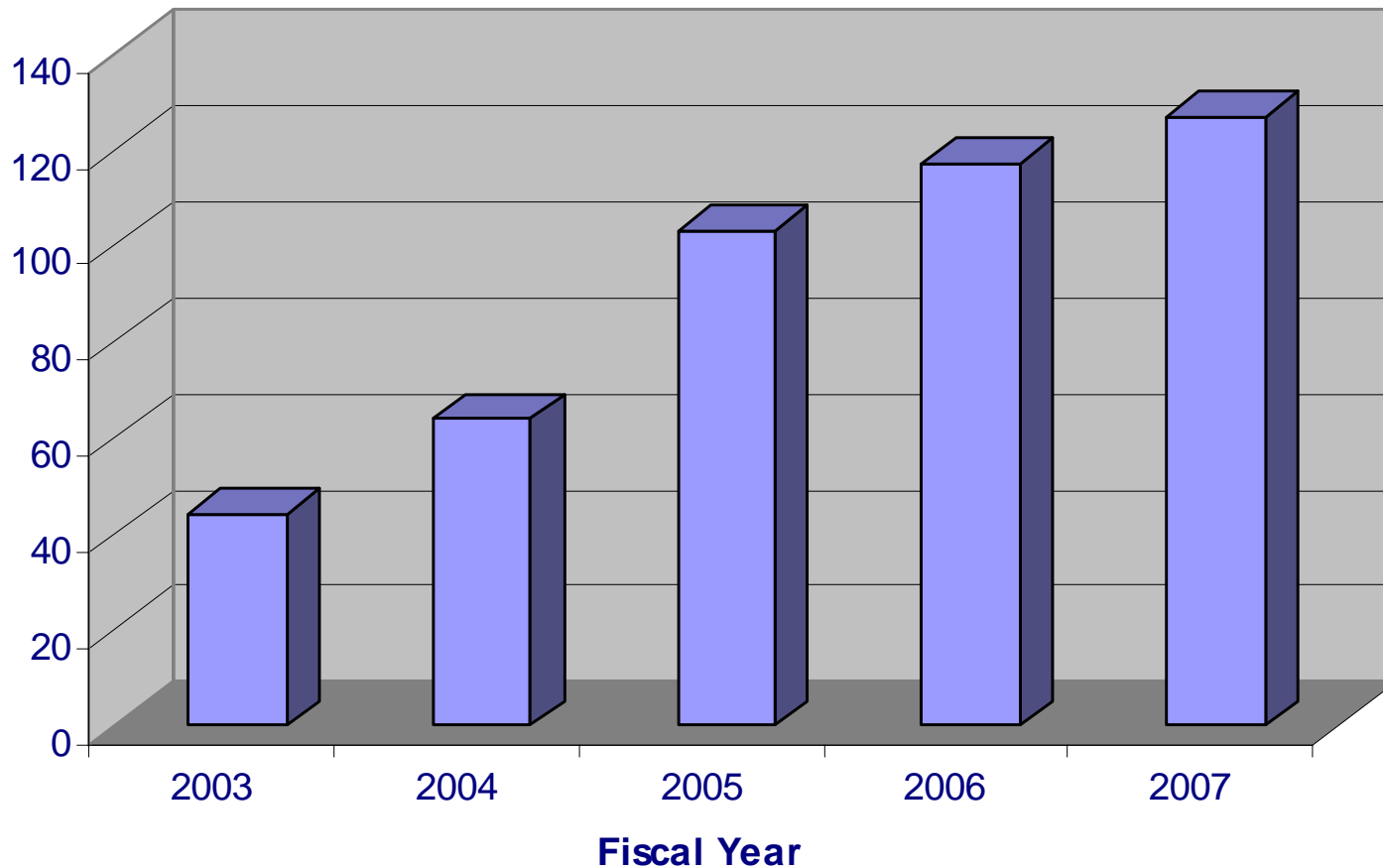
Total Revenue by Fiscal Year



NIA has created over 125 new jobs in Hampton Roads since 2003



Total Jobs at NIA

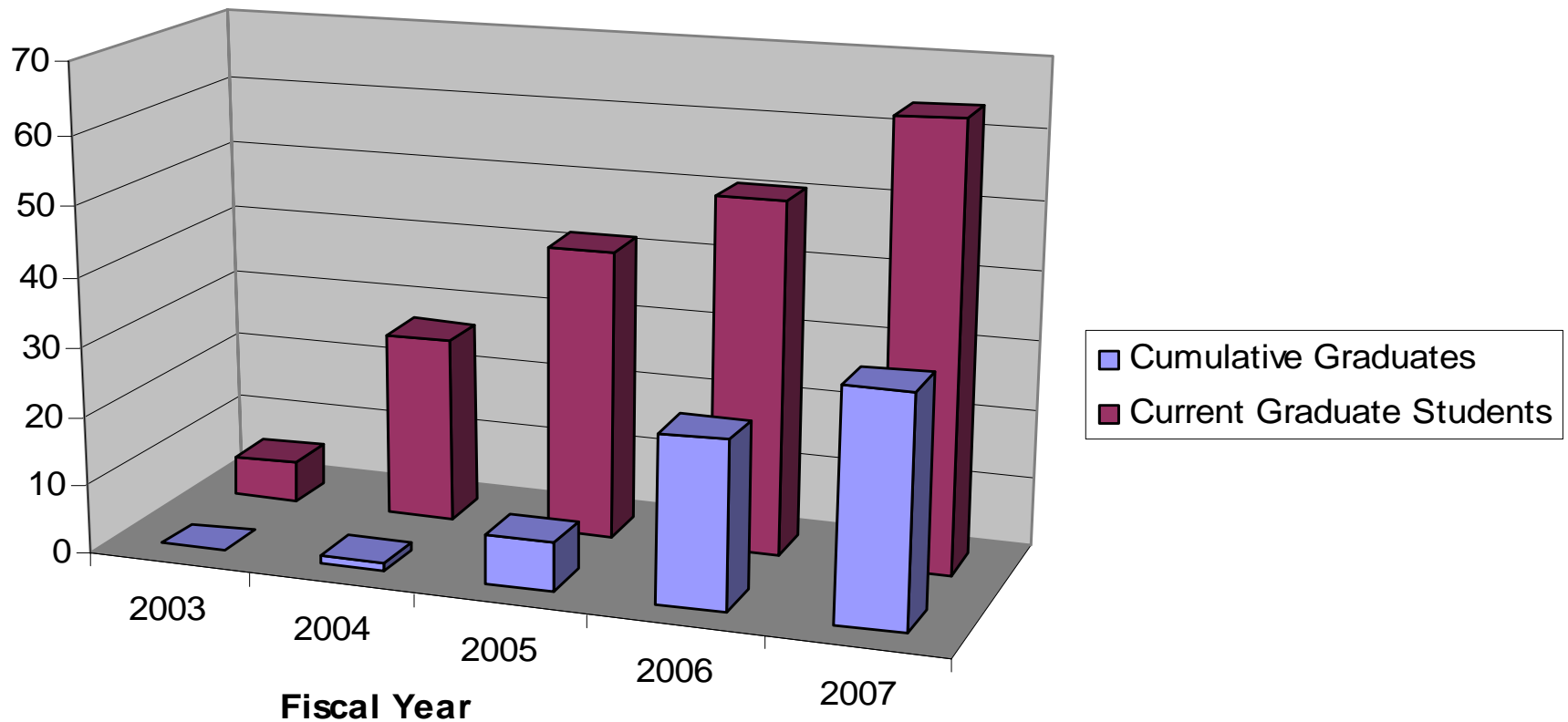


NIA creates High Paying Jobs: 75% professional degrees; over 50% Ph.D.s

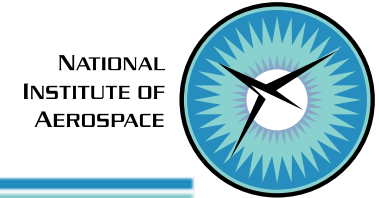
NIA is Building the Next Generation Aerospace Workforce



33 Graduates to date
64 Students in residence



Hampton Technology Innovation and Commercialization Center



- New High-Tech Research Facility
- Located in the Hampton Research Quad across from NASA-Langley Research Center
- Laboratory Space for NIA
- Space for the Hampton Roads Technology Incubator
- Other Resources Targeted for TBED



Strategic Partners



- City of Hampton
- National Institute of Aerospace
- Hampton Roads Technology Council / Hampton Roads Technology Incubator System
- Commonwealth of Virginia

Facility Capabilities

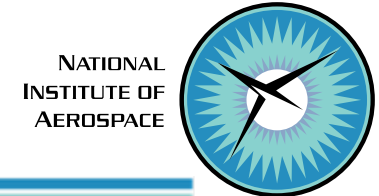
- New facility will be 60,000 square feet with 25,000 sq/ft dedicated for new laboratory space
- Facility will also house SBIR/STTR mentoring resources
- Space for new start-up companies and/or business research partners
- New location for HRTI

Benefits



- Expand the NIA's research capabilities
- Grow federally funded research and development
- Attract increased investment from both established and emerging aerospace industry
- Facilitate new start up companies
- Increase high-paying technology jobs

New Laboratory Facilities will Benefit Many NIA Research Programs (including those shown in red)

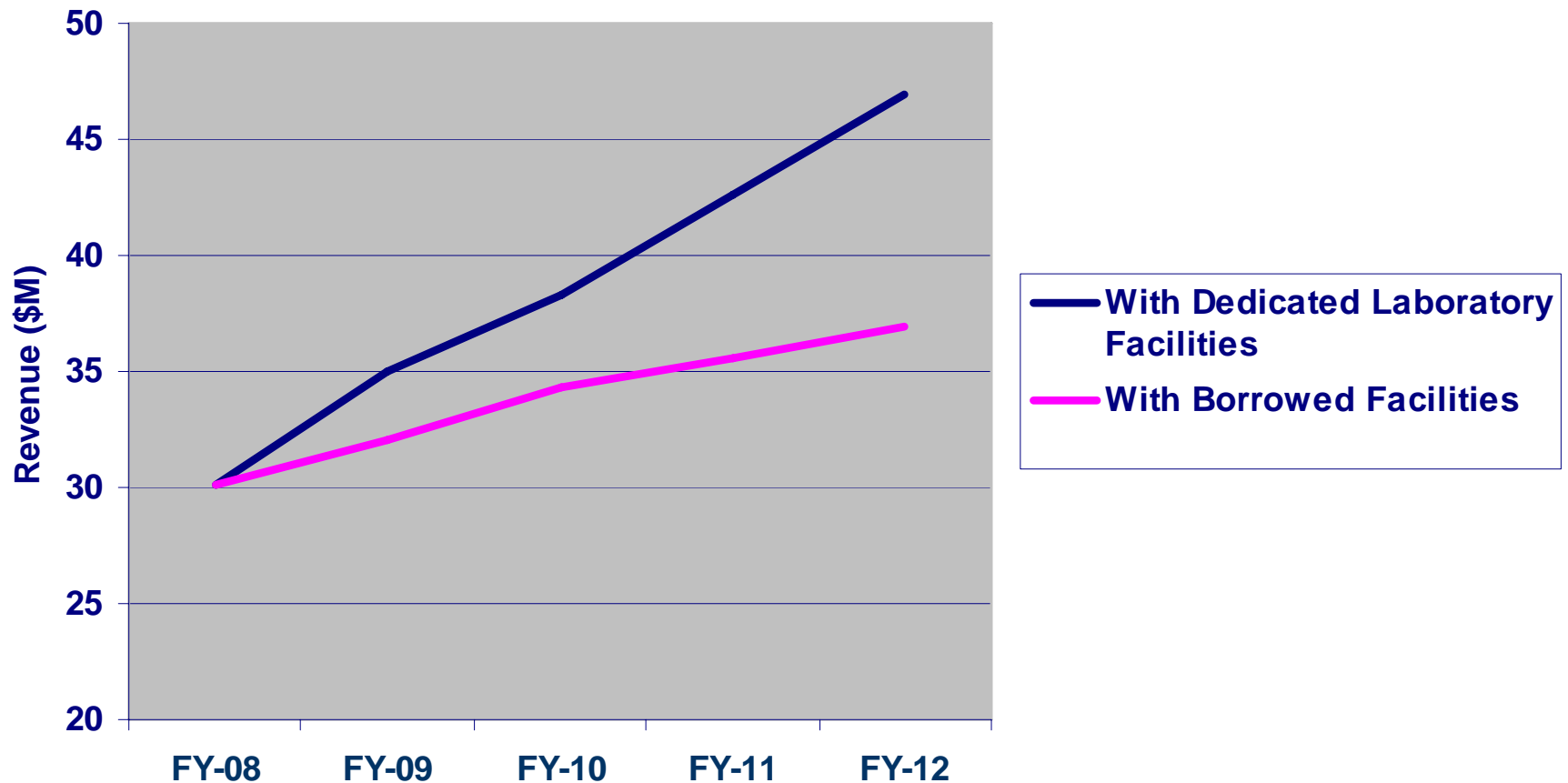


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Naval Air Systems Command	UAV Airworthiness
Air Force Research Laboratory	Aging Aircraft
Department of Homeland Security	Aviation Security
National Oceanic and Atmospheric Administration	Climate and Weather
National Reconnaissance Office	Space Technologies
Commercial Aerospace Sector	Aerodynamic Control, Aerospace Materials, Sensors

NIA's growth rate will more than double with the availability of dedicated laboratories



Projected Growth



Project Detail

- 5 acres valued \$750,000
 - Remaining road and infrastructure improvements of \$1.9 M
 - HRTIS annual funding \$200-\$250K
 - 60,000 SF Office & Research Lab Facility \$13M
 - Construction \$8.5 million (shell building)
 - 1st floor laboratory up-fit \$4.5 million (20,000 square feet)
 - \$5 million for laboratory equipment
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- The city and existing partners have identified funding for land, road and infrastructure, HRTIS, the shell building
 - \$5M for equipment to be pursued through federal grants
 - **Currently seeking \$4.5M** to enhance the building's infrastructure to allow for a state-of-the-art R&D laboratory facility

Questions?

For further information, contact:

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