



2023 Geothermal Energy Machinery and Systems (GEMS) Workshop

29 November 2023

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President & CEO



ADVANCED SCIENCE. APPLIED TECHNOLOGY.

WELCOME TO SAN ANTONIO!



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San Antonio

- Seventh largest city in the United States
- Most visited city in Texas
- Home of **Fiesta**, a 10-day celebration occurring (almost) every April (since 1891)
- UNESCO World Heritage Site: San Antonio Missions
- Known as “Military City, USA” and the “Home of Military Medicine”
- Home of America’s first five air-conditioned buildings
- Home of the first All Digital Library, and
- Home of Southwest Research Institute!



The Alamo

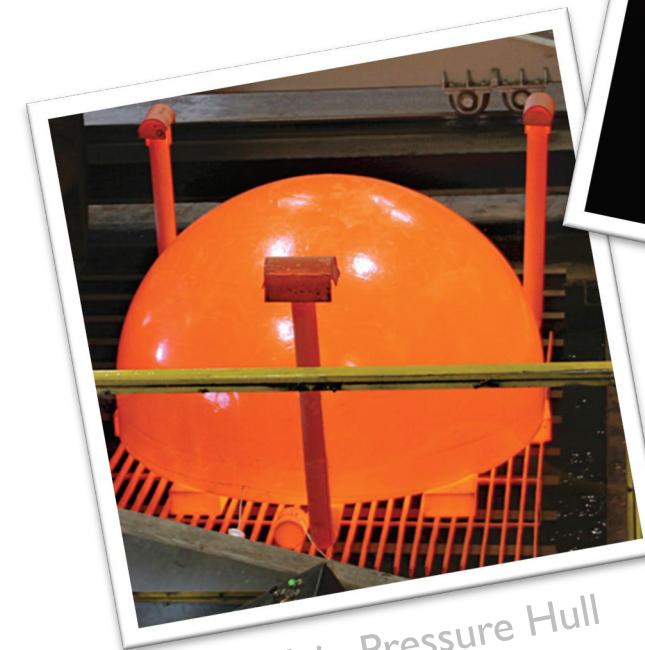
Welcome to SwRI!



ADVANCED SCIENCE. APPLIED TECHNOLOGY.

Southwest Research Institute

One of the largest (by revenue),
broadest (by technologies), and
deepest (by expertise)
independent nonprofit applied
research & development
organizations in the United States



Alvin Pressure Hull



Pluto from New Horizons Spacecraft



From Deep Sea to Deep Space®...

ADVANCED SCIENCE. APPLIED TECHNOLOGY.

...And (Practically) Everywhere Between



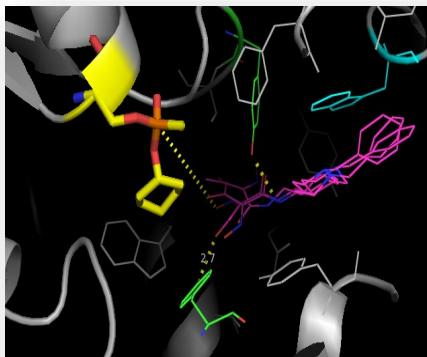
Alvin Pressure Hull



Water & Geological Engineering



Carbon Capture



In Silico Drug Screening



Micro- and Nano-
Encapsulation



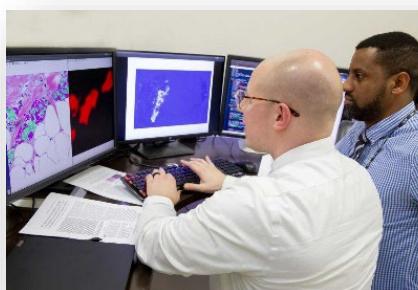
Pharmaceuticals
for Clinical Trials



O&G Engineering



Engine Design &
Hybridization



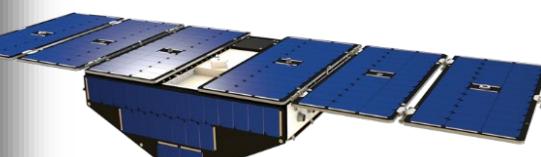
Artificial Intelligence &
Machine Learning



Fuels & Lubricants



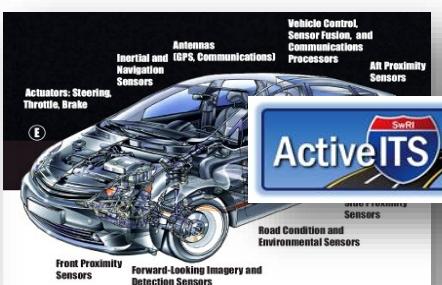
Robotics



Spacecraft & Satellites



Clean Energy Research



Infrastructure
Communications



Autonomous
Vehicles



Space Science & Instrumentation



Solar System Science &
Exploration



ADVANCED SCIENCE. APPLIED TECHNOLOGY.

Contemporary Mission Statement



Advancing science and applying
technology to solve
humankind's most difficult
technical challenges from
Deep Sea to Deep Space[®]
and practically everywhere in
between.



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Quick Facts

- 501(c)(3) nonprofit tax-exempt status
 - Not-for-profit
 - Not-for-loss
- Revenue from contracts and grants
 - No “endowment” fund
- More than
 - 240+ buildings on >1,500 acres
 - 2.4 million ft² of laboratories & offices
- Created more consortia than any other organization in the United States
- Corporate supporter:
 - United Way
 - Chamber of Commerce



Natural Beauty on the SwRI Campus



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The Numbers

76: Years of independent R&D

\$844M: FY23 Consolidated Revenue

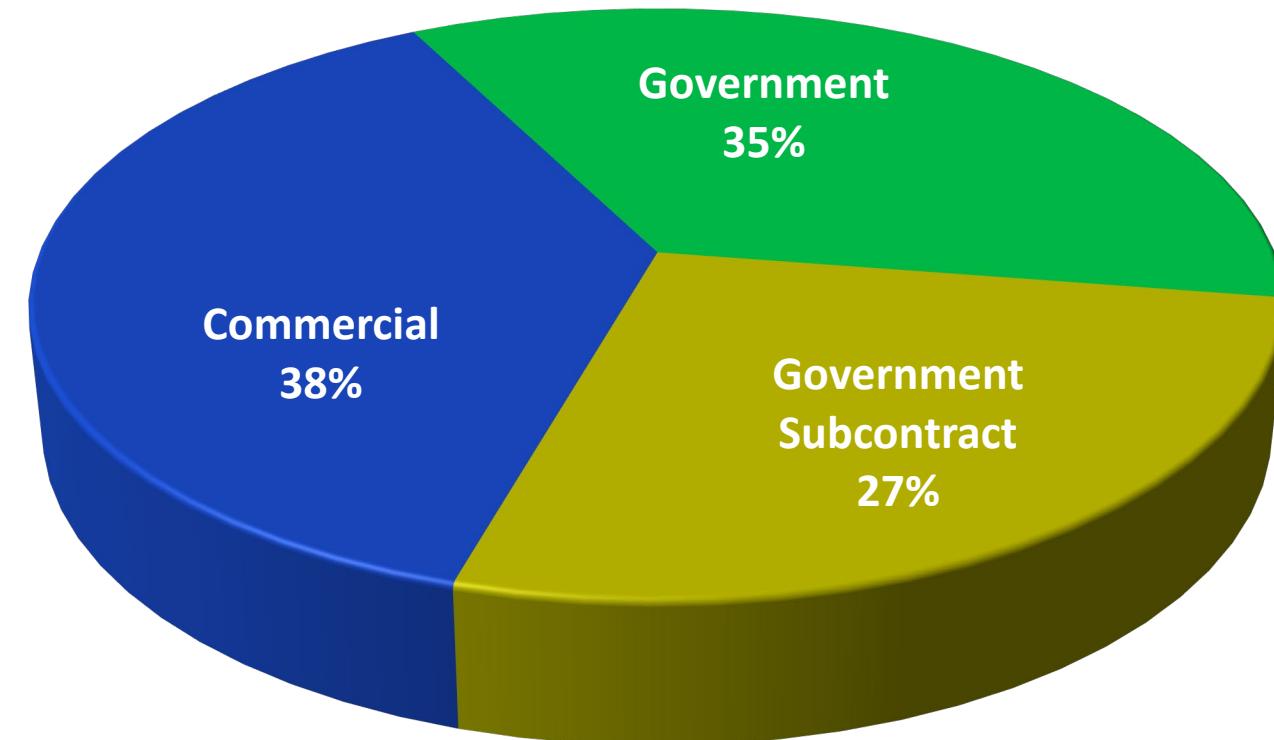
~\$1B: Contract Backlog

~3,150: Staff Members

52: R&D 100 Awards

~100: New Internal R&D Projects Funded in FY23

3: Number of Years Named Forbes 500 Best Midsized Employers



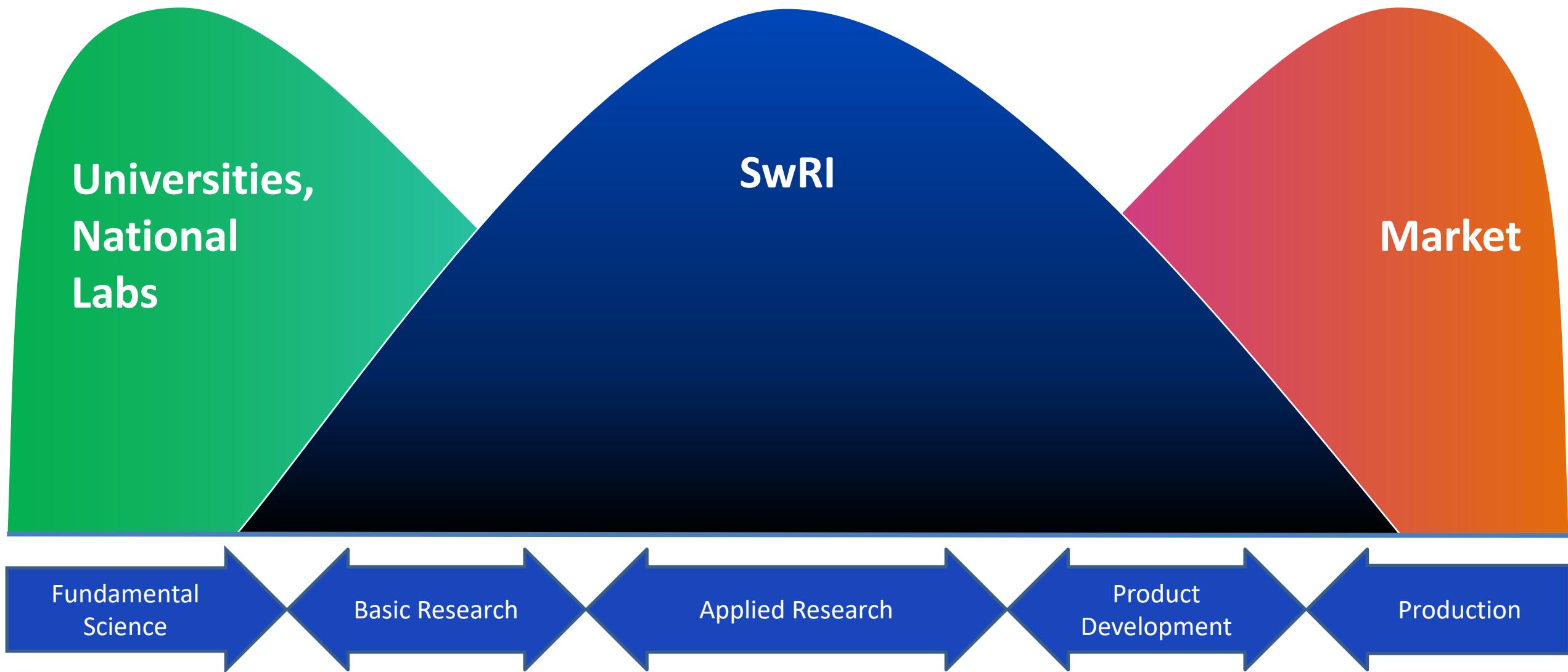
62% "Government"
38% Commercial

Approximate Revenue Source Distribution



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SwRI in the Technology Spectrum



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Markets



AUTOMOTIVE &
TRANSPORTATION



BIOMEDICAL &
HEALTH



CHEMISTRY &
MATERIALS



COMPUTERS &
ELECTRONICS



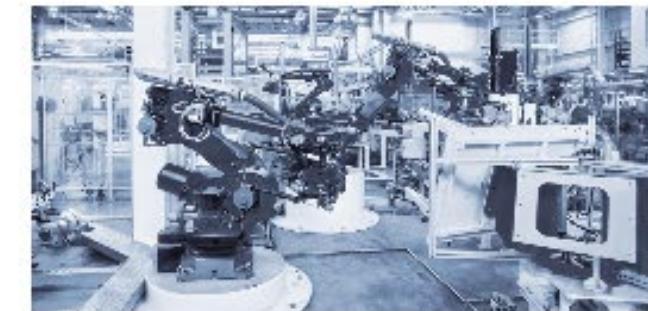
DEFENSE &
SECURITY



EARTH & SPACE



ENERGY &
ENVIRONMENT



MANUFACTURING &
CONSTRUCTION



Thank You!



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