



THE TEXAS A&M
UNIVERSITY SYSTEM

The Texas A&M University System

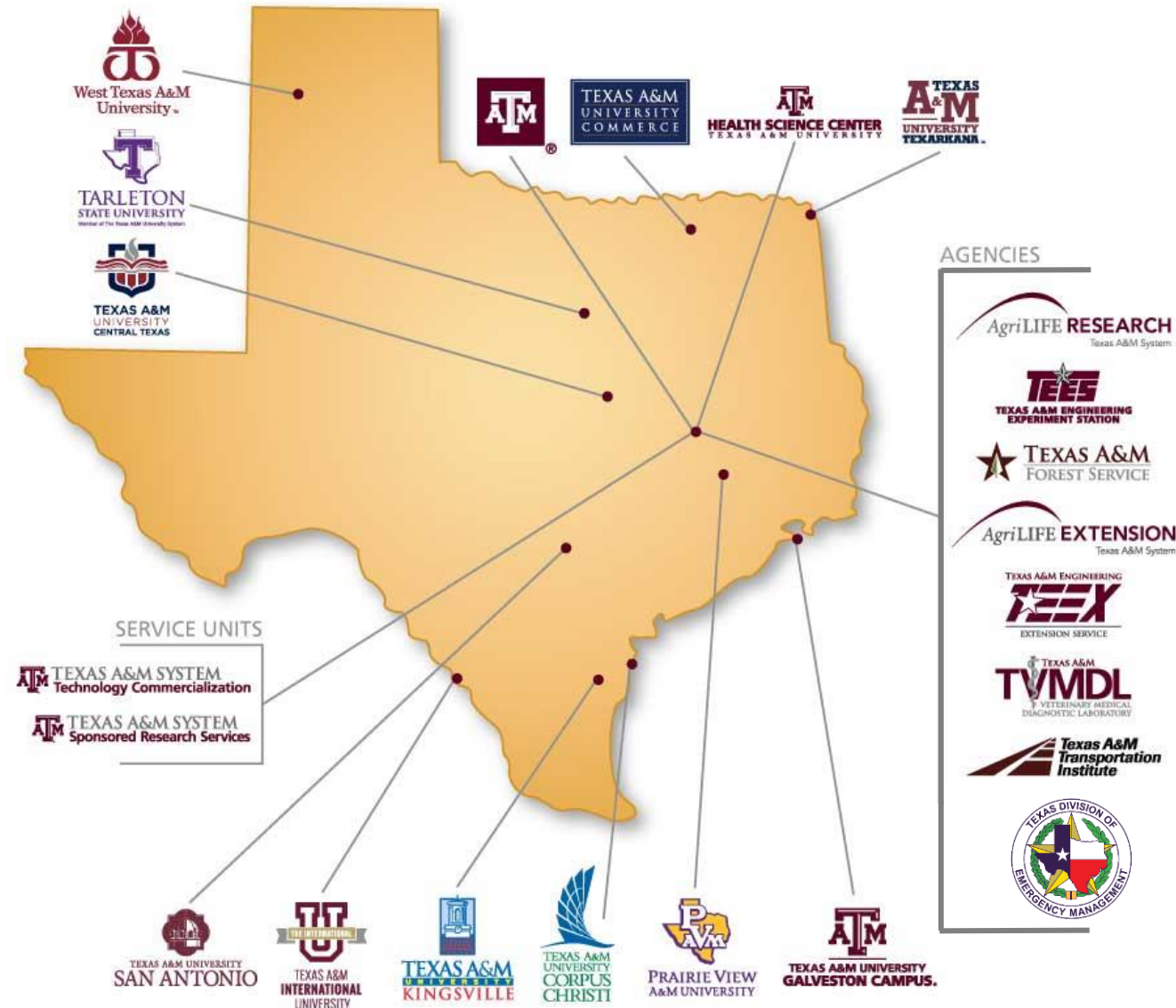
Defending the Nation

M. Katherine Banks

Vice Chancellor of Engineering and National Laboratories
The Texas A&M University System

The Texas A&M University System

- Service
22 million citizens served annually through service/extension agencies and organizations
- Education
151,000 students are taught annually by **28,000 faculty/staff** at our **11 campuses**
- Research
Annual expenditures >\$1B primarily driven by agriculture, engineering, environmental and public health research and development
- Training
200,000 individuals from 105 countries trained in fire fighting & emergency services, security, search & rescue, public works



Texas A&M University College of Engineering

Consistently ranked among the
Top 10 Public Engineering Programs

3rd in the nation in research expenditures

College of Engineering
Enrollment Fall 2020
21,254 students

1st in *50 Best Value* Bachelor's and
Graduate Engineering Programs

Undergraduate Students – **15,126**
Graduate Students – **3,083**
Online Graduate Students – **409**

710



FACULTY

2.1 MILLION



SQUARE FEET OF
LEARNING SPACE

86



PROFESSORS OF PRACTICE

247



PROFESSIONAL
SOCIETY FELLOWS

30



NATIONAL & INTERNATIONAL
ACADEMY MEMBERS

100%



OF ENGINEERING CLASSES
LESS THAN 100 STUDENTS



- Demonstrated performance managing five DOE national laboratories
- World's largest independent, nonprofit R&D organization



THE TEXAS A&M
UNIVERSITY SYSTEM

- Largest nuclear engineering program in the U.S., with emphasis on criticality safety
- Leading high hazard and emergency response workforce training programs



UNIVERSITY
OF
CALIFORNIA

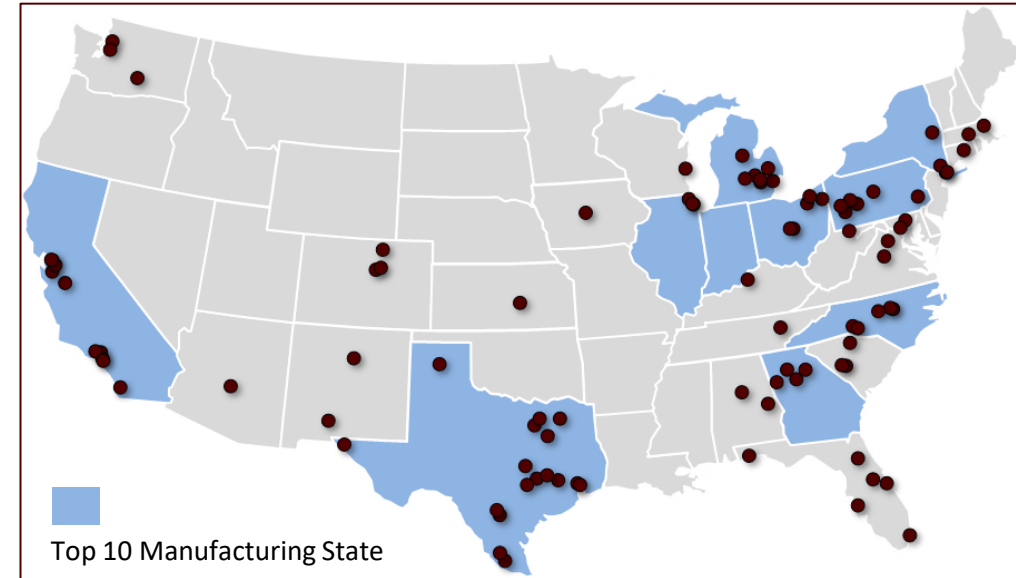
- 75 years managing LANL and LLNL, where the nuclear stockpile was designed and certified
- Demonstrated commitment to scientific excellence and integrity in public service



- All members contribute broadly to the Statement of Work
- Nonprofit free from commercial interests
- Seamless integrated Board

Mission: provide **world-class leadership** in **securing the U.S. Critical Manufacturing Sector** and **Defense Industrial Base** through applied research, education and workforce development (EWD), and technology transition

- Governed by members, for members, for the benefit of the nation
- Private/public partnership modeled after Manufacturing USA
- Serves as a platform for collaborative growth for the benefit of the members



50 Academic and 70 Industry Organizations



BUSH COMBAT DEVELOPMENT COMPLEX

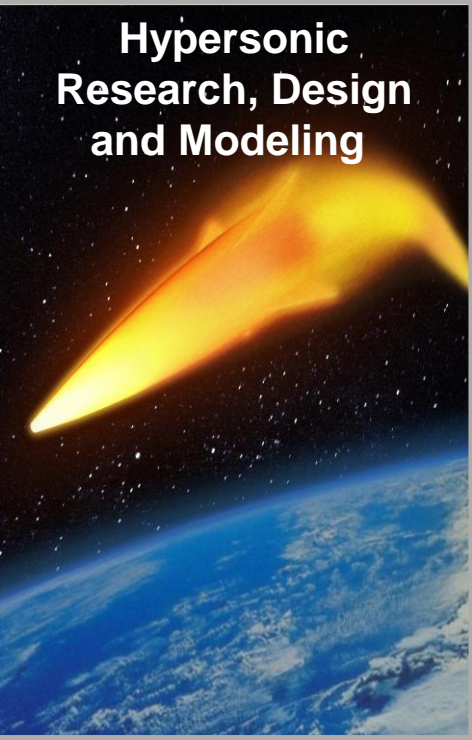




BCDC: America's new warfare innovation nexus

BCDC: Technical Expertise

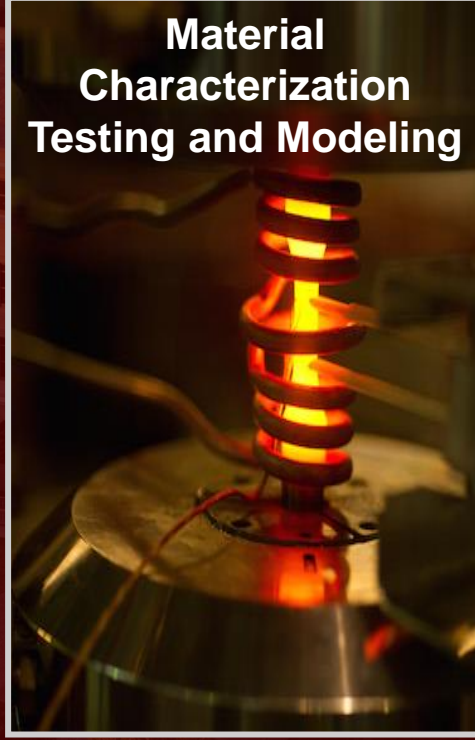
**Hypersonic
Research, Design
and Modeling**



**Laser Diagnostics
and Directed Energy**



**Material
Characterization
Testing and Modeling**



**Autonomy and
Networks**



**Developmental
Testing, Evaluation
and Simulations**



- ***Pre-eminent engineering faculty***
- ***Dedicated research engineers***
- ***Customer-directed research using Agile principles***

- ***DCSA-cleared defense contractor***
- ***Award-winning security office***
- ***Broad base of domestic faculty and graduate students***

Agile Development

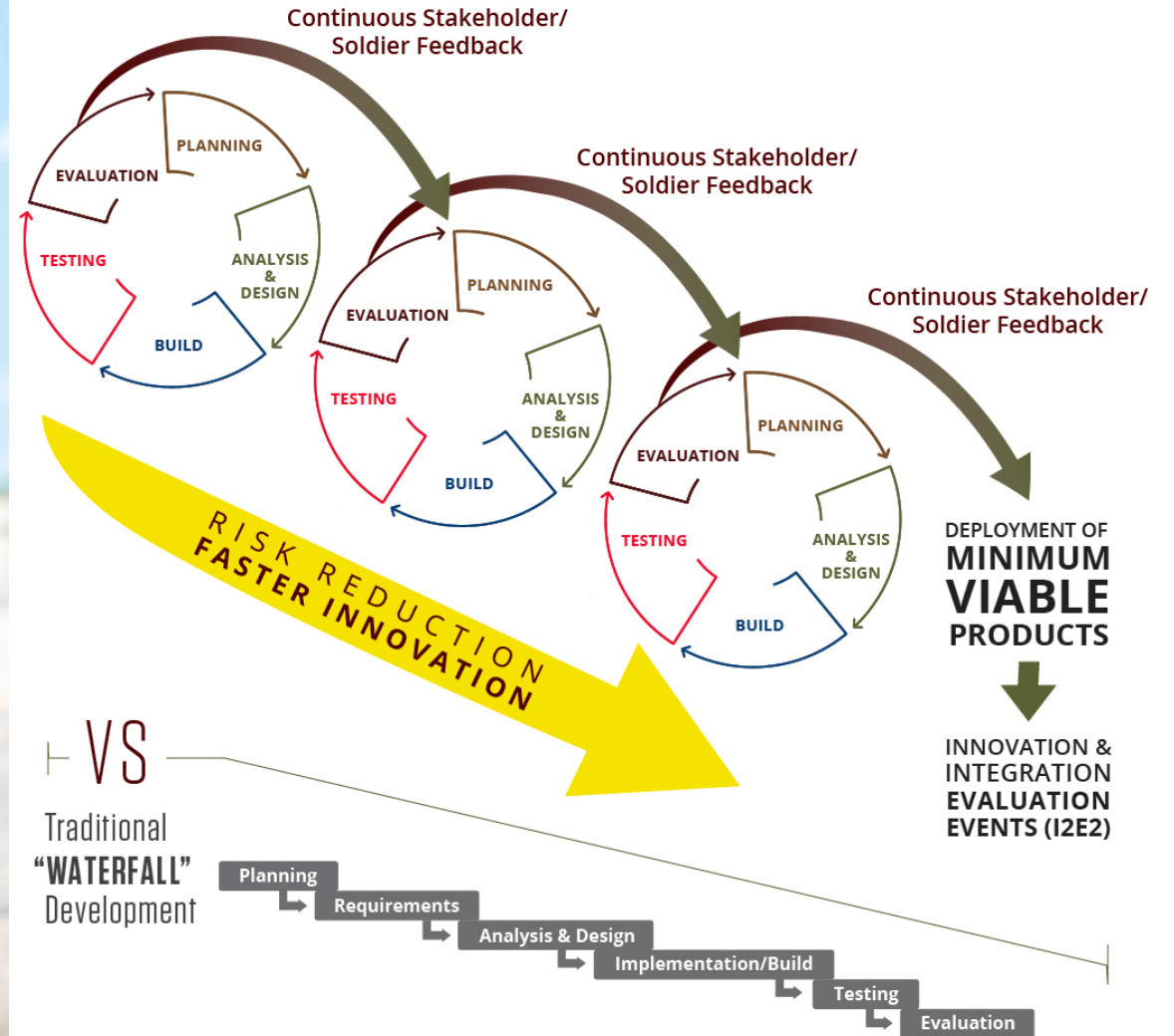
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TEXAS A&M UNIVERSITY
Engineering



AGILE Technology Development





Army Secretary McCarthy visits BCDC