

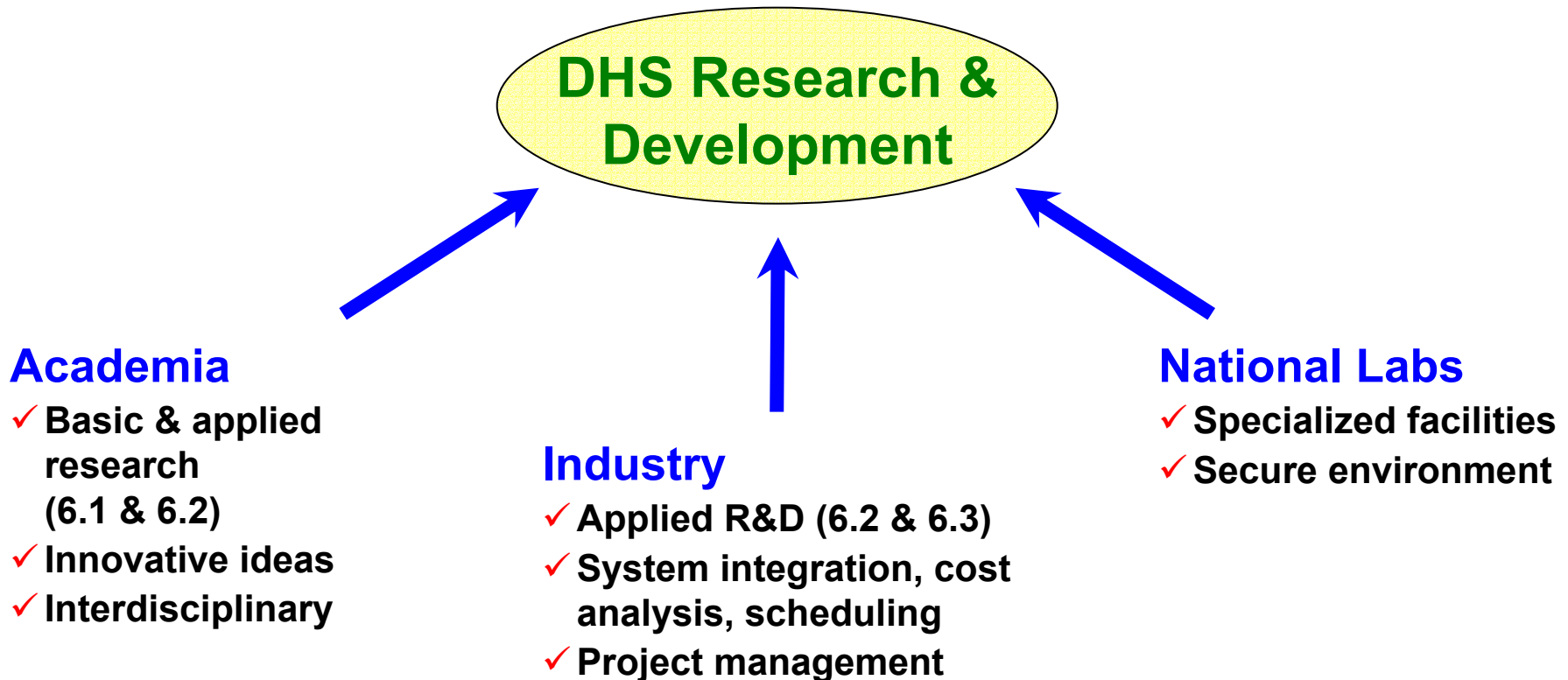


A Proposed Framework for DHS University Research Centers

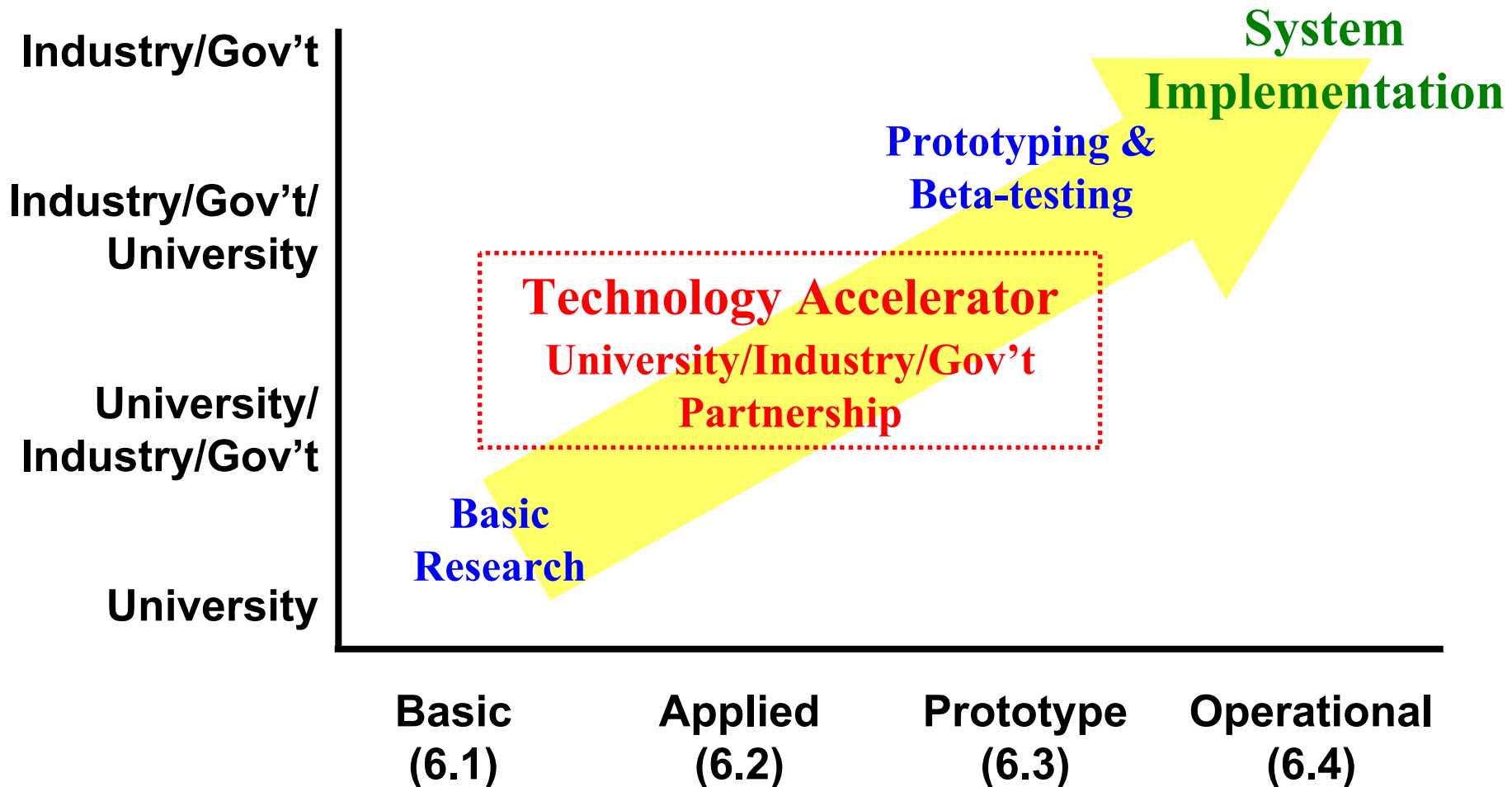
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ORD Statement on National Objective

“Anticipate, prevent, respond to, and recover from terrorist threats through stewardship, leadership, strategic partnerships, and sound execution of research, development, testing and evaluation programs.”



R&D Consortium Concept





R&D Focus Options

1. Component level examples

Develop a nanolaser; 400-pathogen sensor ship; or intelligent autonomous robot.

2. System level example

Develop a secure, integrated system capable of detecting all chemical agents that may pose a threat over a large geographic region, including both stationary and mobile sensor platforms, analyzing the extent of a terrorist threat, and proposing appropriate countermeasures.

3. National Command and Control System



R&D Focus Options

1. **Component level**
2. **System level**
3. **National Command and Control System**



Focus should be on level 2

DHS should define broad areas of interest, such as:

- ✓ **Intelligent Robotics Network**
- ✓ **Integrated Chemical/Biological/Radiological Sensor System**
- ✓ **Border Security System**
- ✓ **Advanced IT Security System**
- ✓ **Threat and Vulnerability Assessment System**
- ✓ **Critical Infrastructure Protection System**



Proposed Funding and Management Framework

Five University/Industry/Government Centers

- **Each Center would typically consist of:**
 - 4 university partners with complementary expertise
 - 2 industry partners
 - 1-2 DOE or other Federal lab(s)
- **Funding (5 year period)**
 - University component from DHS University Centers appropriation (\$14M per year per Center)
 - Industry and Federal labs components funded separately from other DHS funds at about the same level as University component



Proposed Funding and Management Framework

Five University/Industry/Government Centers

■ Management

- Executive team comprised of representatives from each University, Industry and Government partner (one vote per partner)
- Executive team meetings include full participation by DHS program officers
- Advisory Boards for individual centers and overall Board for entire program.

■ Testbeds

- As technology matures, the Center will propose to DHS to fund testbeds (from separate sources) to evaluate performance, reliability, etc. in a quasi-real world environment.