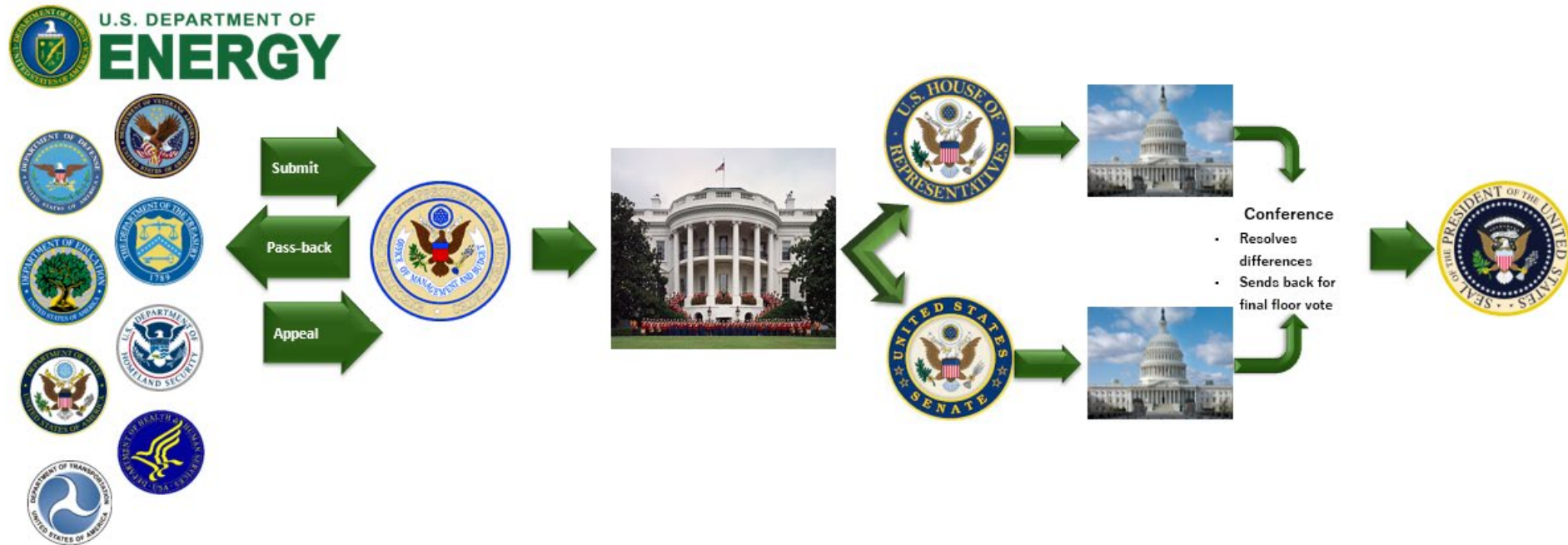


Understanding DOE's budget process and priorities

Jay Mullis, Manager

Understanding the federal budget process

1. Each Department submits their budget to the Office of Management and Budget (OMB)
2. OMB consolidates all Department budgets
3. The President approves the budget and submits to Congress
4. Sub-committees develop bills
5. The Appropriations Committee approves Bills and sends for floor vote
6. President signs budget into law



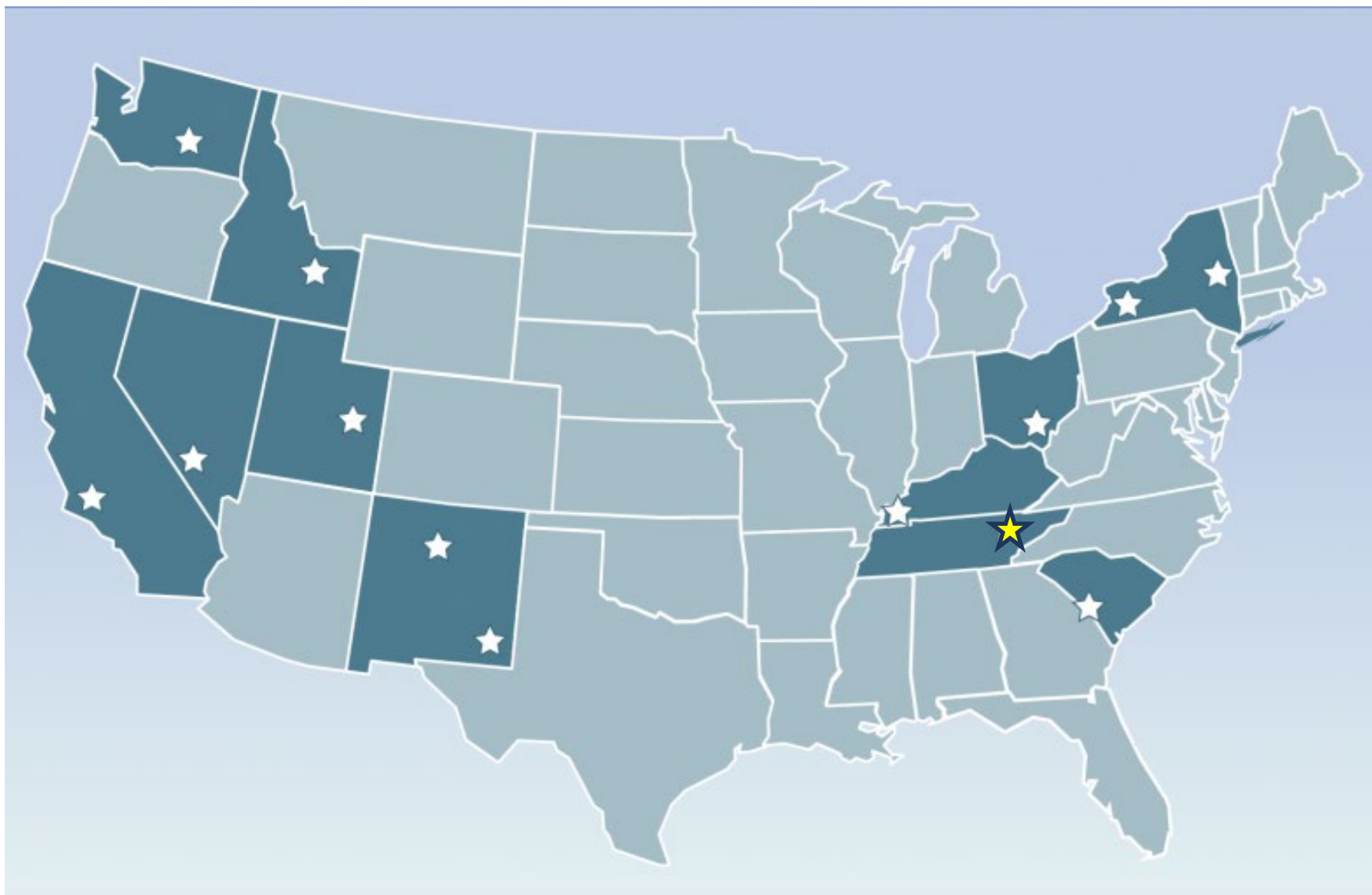
DOE's six primary mission areas for environmental cleanup nationally

EM pursues its cleanup objectives safely within a framework of regulatory compliance commitments and best business practices. Taking many variables into account, EM's priorities are as follows:

- Activities to maintain a safe, secure, and compliant posture
- Radioactive tank waste stabilization, treatment, and disposal
- Spent (used) nuclear fuel receipt and storage
- Nuclear material consolidation, stabilization, and disposition
- TRU and mixed low-level waste disposition
- Soil and groundwater remediation
- Excess facilities deactivation and decommissioning



Environmental Management sites nationwide



Budget numbers by major cleanup site in 2021



| Site | Funding level in 2021 |
|---------------------------------|-----------------------|
| Hanford (Washington) | \$2.7 billion |
| Savannah River (South Carolina) | \$1.7 billion |
| → Oak Ridge (Tennessee) | \$644 million |
| Portsmouth (Ohio) | \$509 million |
| Idaho | \$444 million |
| Carlsbad (New Mexico) | \$420 million |
| Paducah (Kentucky) | \$316 million |
| Los Alamos (New Mexico) | \$226 million |
| West Valley (New York) | \$92 million |
| Nevada | \$61 million |
| Moab (Utah) | \$48 million |
| SPRU (New York) | \$15 million |

Recent Congressional funding to Oak Ridge's cleanup program



| Appropriation Account | FY18 Enacted Budget | FY19 Enacted Budget | FY20 Enacted Budget | FY21 Enacted Budget |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| <u>Defense Environmental Cleanup</u> | 417.8 | 424.0 | 459.0 | 484.6 |
| <u>Non-Defense Environmental Cleanup</u> | 8.0 | 10.0 | 10.0 | 0 |
| <u>UE D&D Fund</u> | 214.0 | 212.3 | 213.3 | 159.7 |
| Total Oak Ridge | \$639.8 | \$646.3 | \$682.3 | \$644.3 |

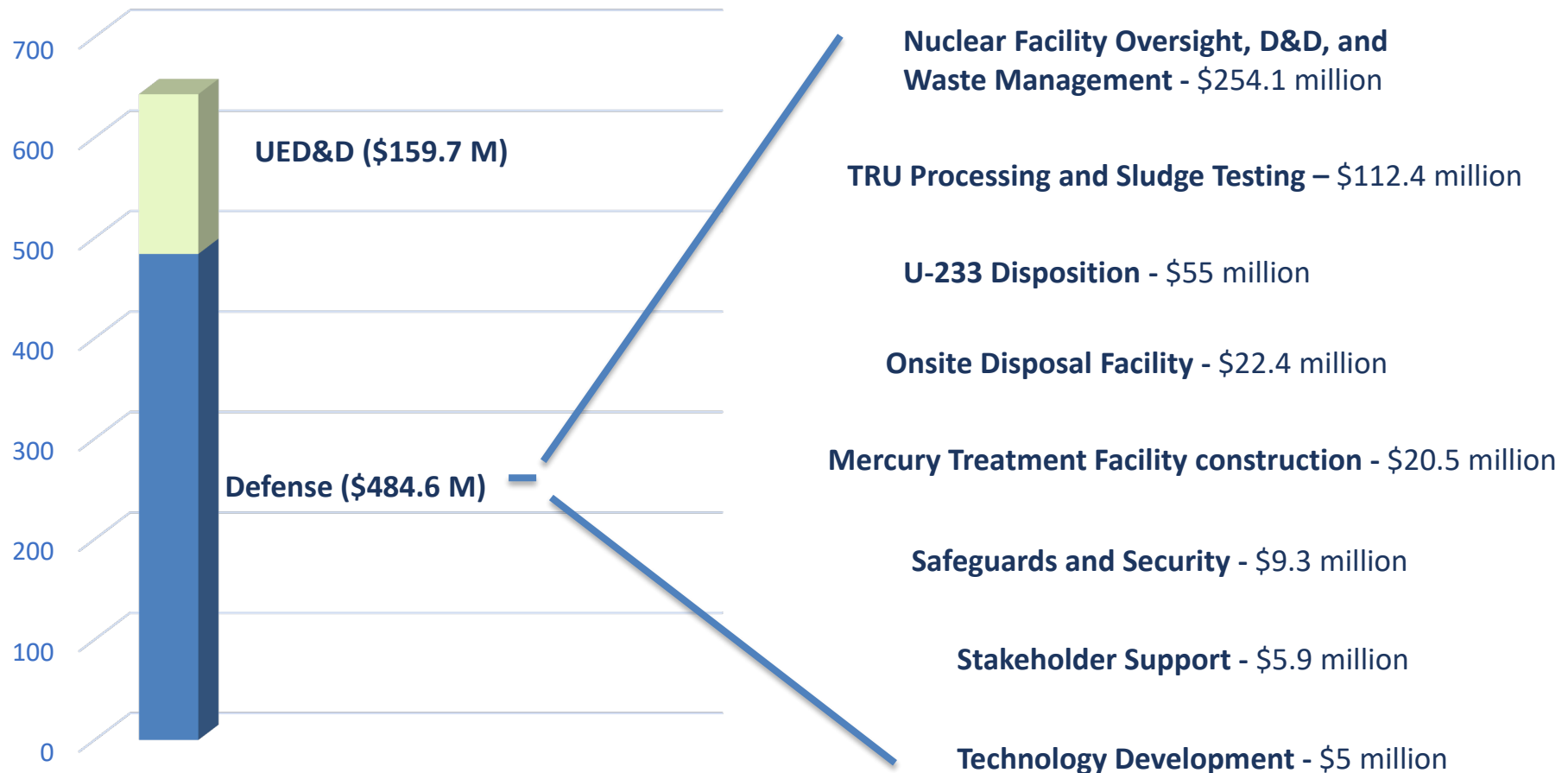
Dollars in millions

Oak Ridge's cleanup is funded through multiple accounts



OREM Total FY 2021 Budget \$644 million

FY 2021 Defense Funding Breakout \$485 million



We established a set of goals to unify and direct employees on the path ahead




Goal 1: Complete ETTP cleanup

Objective 1: Complete all demolition and remedial action consistent with CERCLA agreements 

Objective 2: Implement reindustrialization activities at ETTP

Goal 2: Disposition ORNL uranium-233 inventory

Objective 1: Complete uranium-233 direct disposition campaign 


Objective 2: Conduct down-blending operations and dispose remaining uranium-233 inventory

Goal 3: Disposition ORNL transuranic waste inventory

Objective 1: Complete disposition of transuranic debris waste

Objective 2: Begin construction of the Sludge Processing Facility

Goal 4: Address Y-12 mercury contamination

Objective 1: Ensure proper planning for future mercury cleanup 

Objective 2: Reduce mercury in surface water exiting Y-12

A view of the East Tennessee Technology Park before environmental cleanup efforts began



1989

We are the first to ever remove a former enrichment site & completed DOE's largest cleanup project



Soil and groundwater remediation projects are still ongoing at the site



Our work transformed a former enrichment complex into a marketable community asset



The East Tennessee Technology Park is ready for private sector development

- ~1,300 acres of land transferred to date
- 600+ additional acres approved for transfer
- Coqui Pharma and Kairos Power both announced plans to locate at the East Tennessee Technology Park



We're commemorating the accomplishments of Manhattan Project and Cold War-era workers



We have many remaining CERCLA obligations at Y-12 and ORNL in the years ahead



Facilities to address at Y-12



Facilities to address at ORNL

- Oak Ridge contains more high-risk facilities than any other DOE site. They present a wide range of hazards that are potential risks to ongoing missions
- **Focus at ORNL:** Remove former research reactors and isotope production facilities, eliminate uranium-233 inventory, and ship transuranic waste
- **Focus at Y-12:** Address and retrieve mercury in the environment, and remove unneeded and contaminated buildings

Several key infrastructure projects are needed to conduct the next phase of cleanup in Oak Ridge

- Outfall 200 Mercury Treatment Facility
- Environmental Management Disposal Facility
- Haul Road extension
- Office and Equipment Storage Areas



We are addressing the nation's inventory of uranium-233 currently stored at ORNL

- Nation's inventory of uranium-233 is stored in the world's oldest operating nuclear facility
- Approximately half of the inventory has already been removed, and work is underway to remove the remaining material
- Low dose inventory undergoing processing now. High dose inventory processing begins in fall 2021.
- Partnership with TerraPower is extracting and providing rare medical isotopes for advanced cancer treatment research



OREM is focused on eliminating Oak Ridge's inventory of transuranic waste

- Most of Oak Ridge's contact and remote-handled debris waste has been processed
- We continue shipping contact-handled waste for disposal to the Waste Isolation Pilot Plant in New Mexico, and we will ship the remote-handled waste in the years ahead.
- Construction is underway on a facility that will mature technologies needed to process Oak Ridge's 500,000-gallon inventory of transuranic sludge waste



We are constructing the Mercury Treatment Facility to enable large-scale cleanup at Y-12



- Construction on the Mercury Treatment Facility is underway, and it is scheduled to be operational in 2025
- It will help pave the way for demolition of the large, mercury-contaminated buildings at Y-12

We are also conducting technology development research to address mercury in the environment

- Oak Ridge has the world's longest running study on small streams
- We are investing in research to identify effective and affordable solutions for mercury cleanup in Oak Ridge
- We funded an expansion of the Aquatic Ecology Lab that is enhancing research capabilities and accelerating technology development



Sufficient waste disposal capacity is essential to complete the next phase of cleanup



- Our current engineered disposal facility is more than 75 percent full, and we need additional capacity to complete cleanup at ORNL and Y-12
- Proposed Plan approved by EPA and TDEC, and we are scheduled to issue the next document for the project this summer to continue moving forward on the project.

We keep our responsibility to taxpayers at the forefront of our planning and performance



- We work with local, state, and federal entities who all have an interest in our work
- We strive to be good stewards of taxpayer money, and we work to safely advance our mission without spending more than we must to accomplish the task



**U.S. DEPARTMENT OF
ENERGY**

OREM uses ORSSAB's recommendations

- ORSSAB is an incredibly valuable asset to our cleanup program
- As members, you help us better understand local perspectives and points of view about cleanup and preferred priorities
- Recommendations from ORSSAB play a role in our budget request and formulation process



Questions?