



# Oak Ridge Site Specific Advisory Board Annual Meeting

August 9, 2023



# The Office of Environmental Management has 15 active cleanup sites nationwide

- EM is the largest cleanup program in the world, and it is responsible for addressing nuclear sites used to support the Manhattan Project and Cold War
- Oak Ridge is one of the largest EM cleanup sites



EM sites nationwide

# Our mission in positively impacting the region

1.

Protecting human health and the environment



2.

Enabling critical ongoing DOE missions



3.

Making clean land available for future use





# Oak Ridge Reservation

- 32,000+ acres owned by the U.S. Department of Energy
- Established in the 1940s as part of the Manhattan Project
- Home to three distinct sites, operated by three DOE programs

## Y-12 National Security Complex

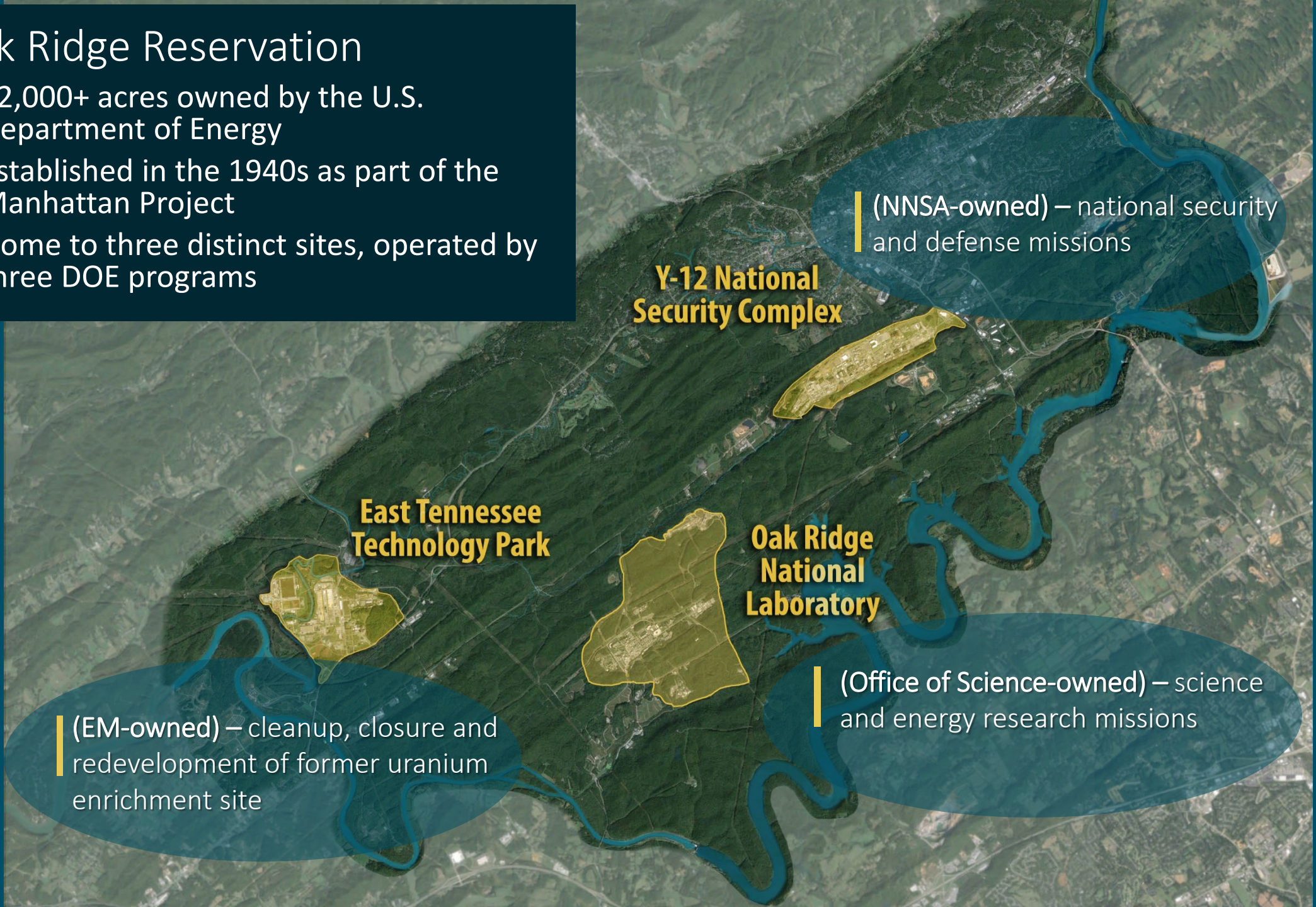
(NNSA-owned) – national security and defense missions

## East Tennessee Technology Park

(EM-owned) – cleanup, closure and redevelopment of former uranium enrichment site

## Oak Ridge National Laboratory

(Office of Science-owned) – science and energy research missions



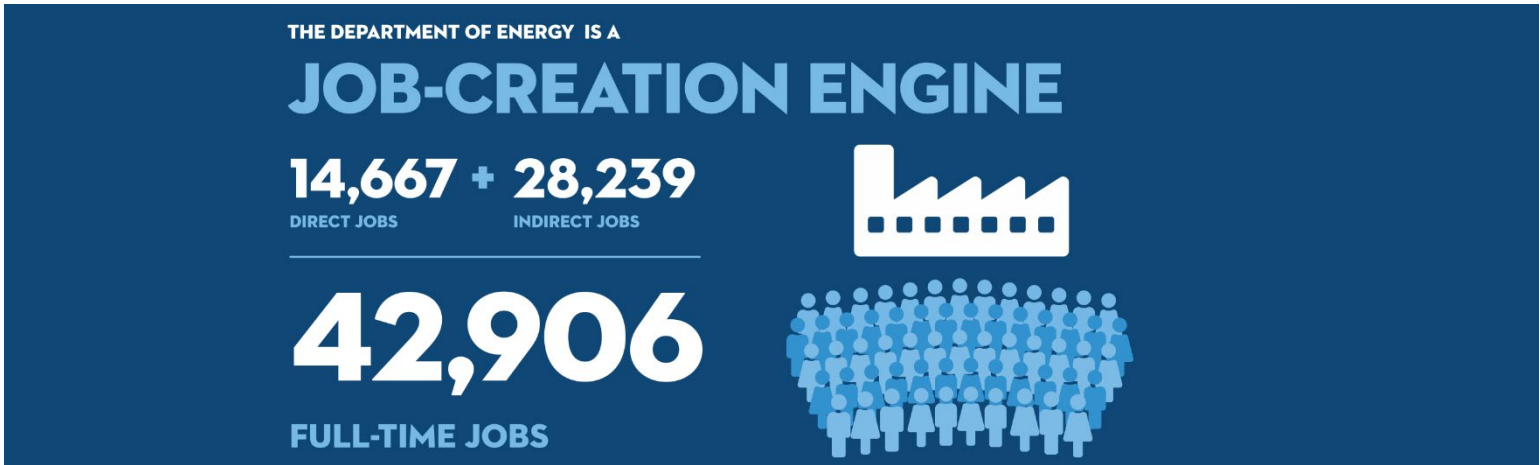
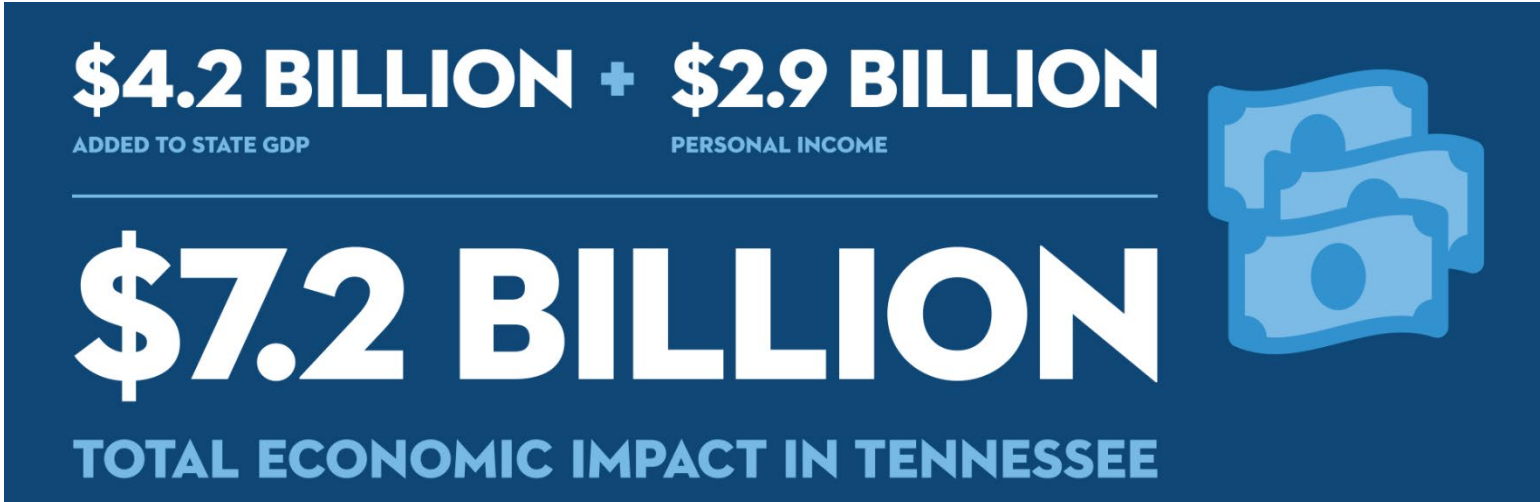
## Congress provides strong funding to continue advancing cleanup in Oak Ridge

<b>Budget Year</b>	<b>2020 Budget</b>	<b>2021 Budget</b>	<b>2022 Budget</b>	<b>2023 Budget</b>	<b>2024 President's Request</b>
<b>Funding for Environmental Cleanup in Oak Ridge</b>	<b>\$682 million</b>	<b>\$644 million</b>	<b>\$630 million</b>	<b>\$637 million</b>	<b>\$635 million</b>

These levels support OREM's ongoing cleanup mission, which employs approximately 2,500 contractors



# Our work is a significant contributor to the state & community's economy



Of that total, environmental cleanup comprises:

- \$1.3 billion economic impact annually
- Generates nearly \$400 million in personal income
- Supports 7,000 full time jobs

# Oak Ridge was the first site in the world to remove a former uranium enrichment complex



Buildings demolished could span 225 football fields





# Our work transformed East Tennessee Technology Park from a liability into a community asset that's attracting millions in new investments



Several large companies have announced plans to locate at the site, creating hundreds of new private industry jobs

- Triso-X (400 jobs)
- Kairos (55 jobs)
- Carbon Rivers (225 jobs)
- Ultra Safe Nuclear Corp. (30 jobs)



# We have many important projects to address at Y-12 and ORNL

- Transitioned our workforce to ORNL and Y-12 in 2020, where decades of work remain
- Oak Ridge has many high-risk facilities that pose risks and challenges to ongoing research and national security 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



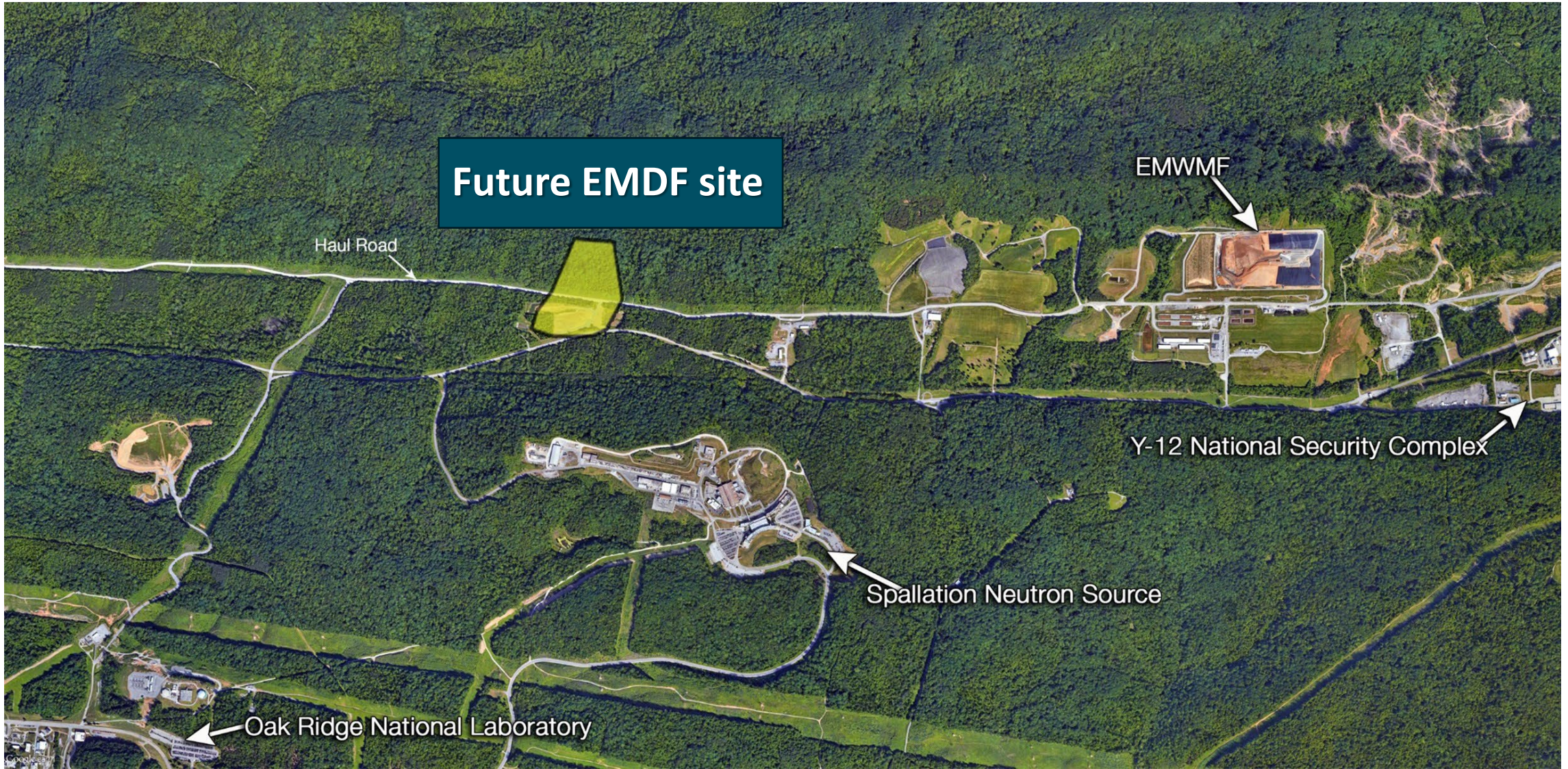
Facilities to address at ORNL



Facilities to address at Y-12



# Additional onsite disposal is crucial to future cleanup progress





# Our projects at Y-12 are eliminating risks and supporting ongoing national security missions



*Biology Complex demolition*



*Biology Complex demolition*

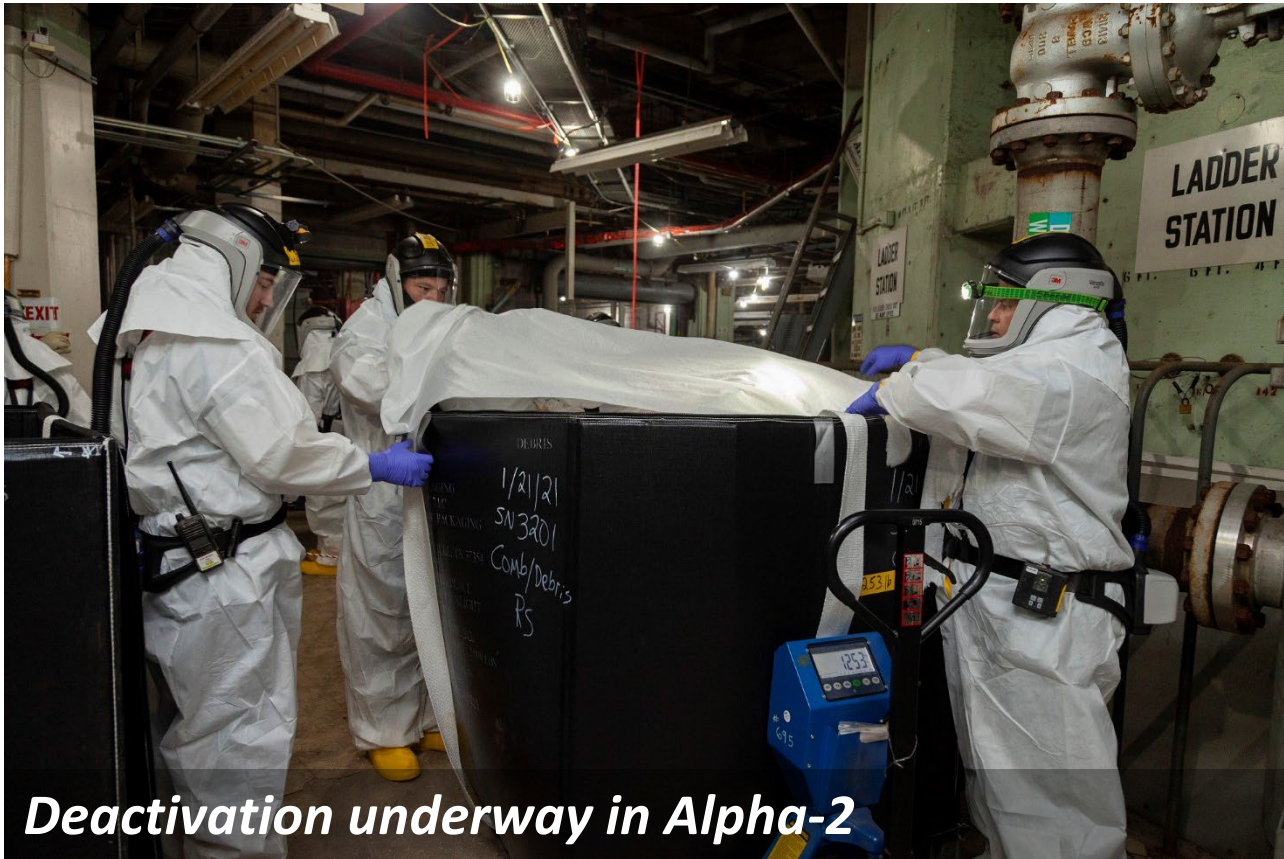


*Former Biology Complex area after demolition*

This project clears land for Y-12 to construct a new facility to support national security missions



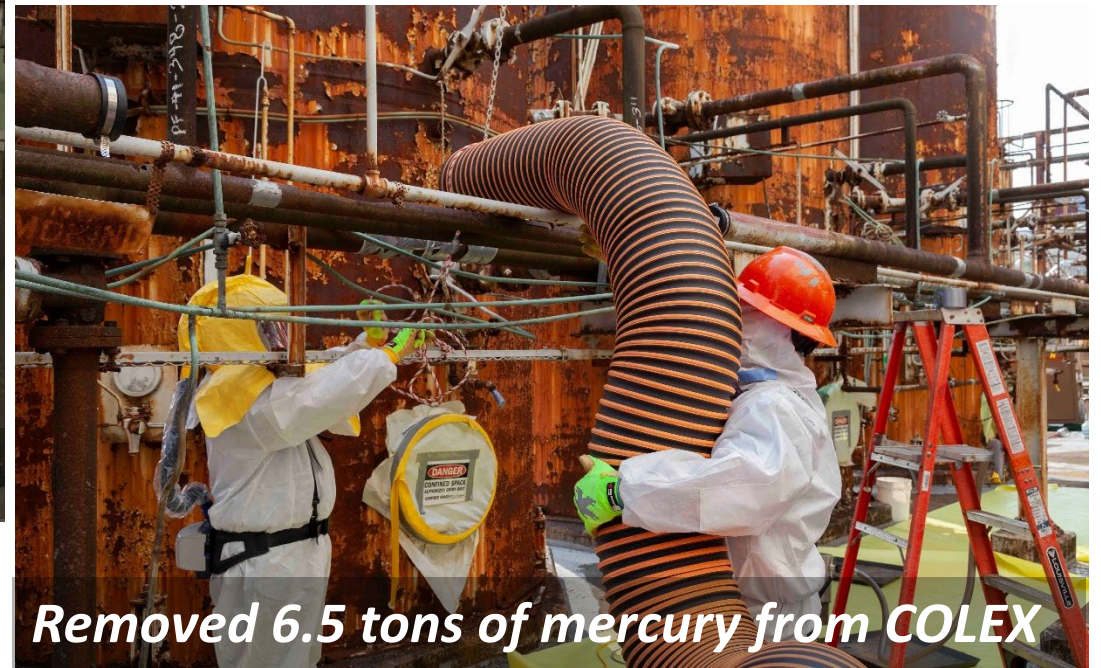
# We have many other projects that will continue transforming Y-12 in the years ahead



*Deactivation underway in Alpha-2*



*Deactivation underway in Beta-1*



*Removed 6.5 tons of mercury from COLEX*



# We are also building infrastructure at Y-12 that protects against mercury releases into the environment



*Construction on MTF headworks facility*



*Construction on MTF treatment facility*



# We're also making significant progress in the heart of ORNL addressing former reactors and isotope labs



*Bulk Shielding Reactor during demo*



*Bulk Shielding Reactor after demo*



*Demolition underway on Low Intensity Test Reactor*



## We are also 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
- New partnership with TerraPower is extracting and providing rare medical isotopes for advanced cancer treatment research





# We are creating tangible benefits for Oak Ridge

## HERITAGE CENTER

Deliver prime industrial park space, historic landmarks, and conservation areas



## ORNL

Deliver restored land to support redevelopment and modernization efforts



## Y-12

Prepare land for beneficial reuse to advance defense and security missions

