



**US ITER Activities and
Opportunities for Industry**

Brad Nelson

WOIC-ITER Reception

SOFE Conference, Chicago

June 27, 2011

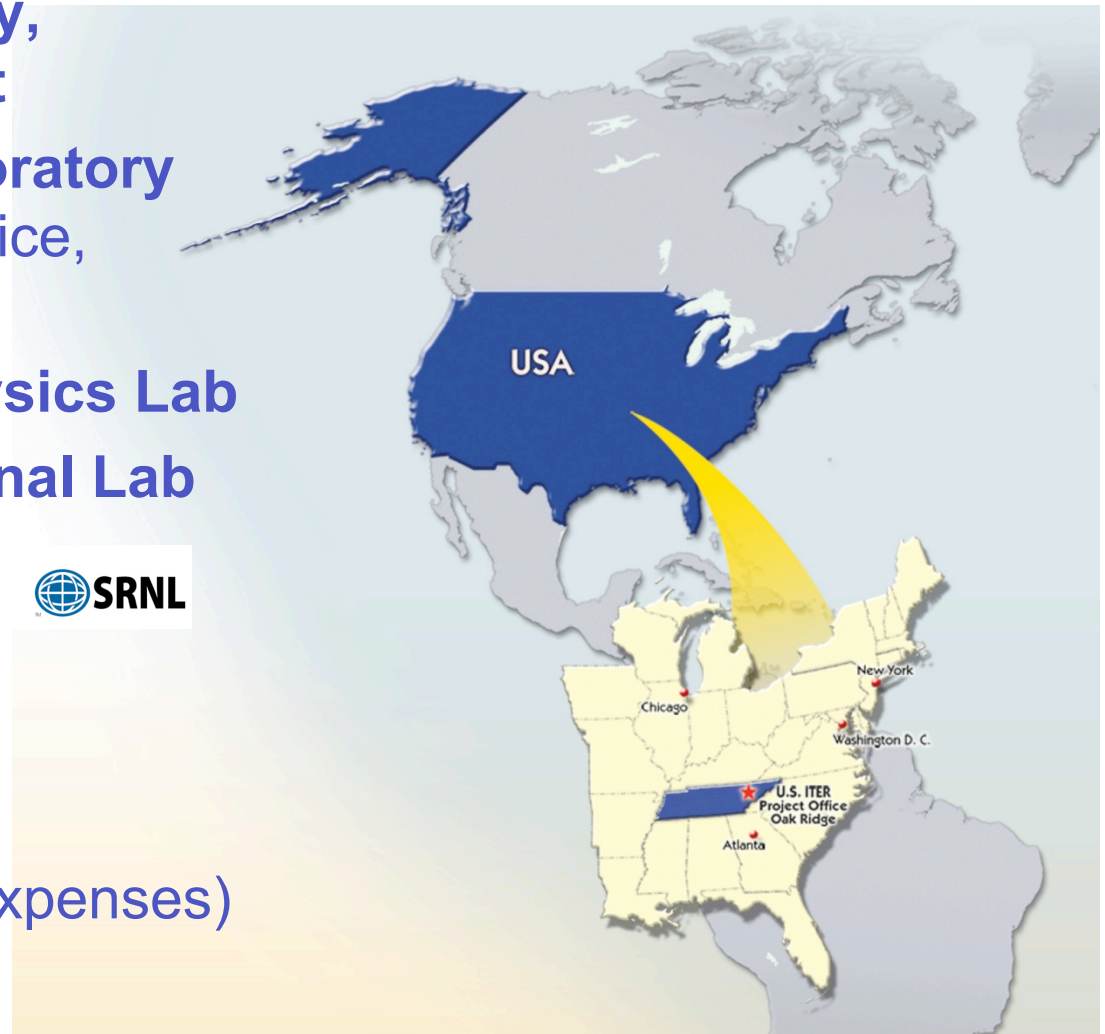
The “US Contributions to ITER Project” is a partnership



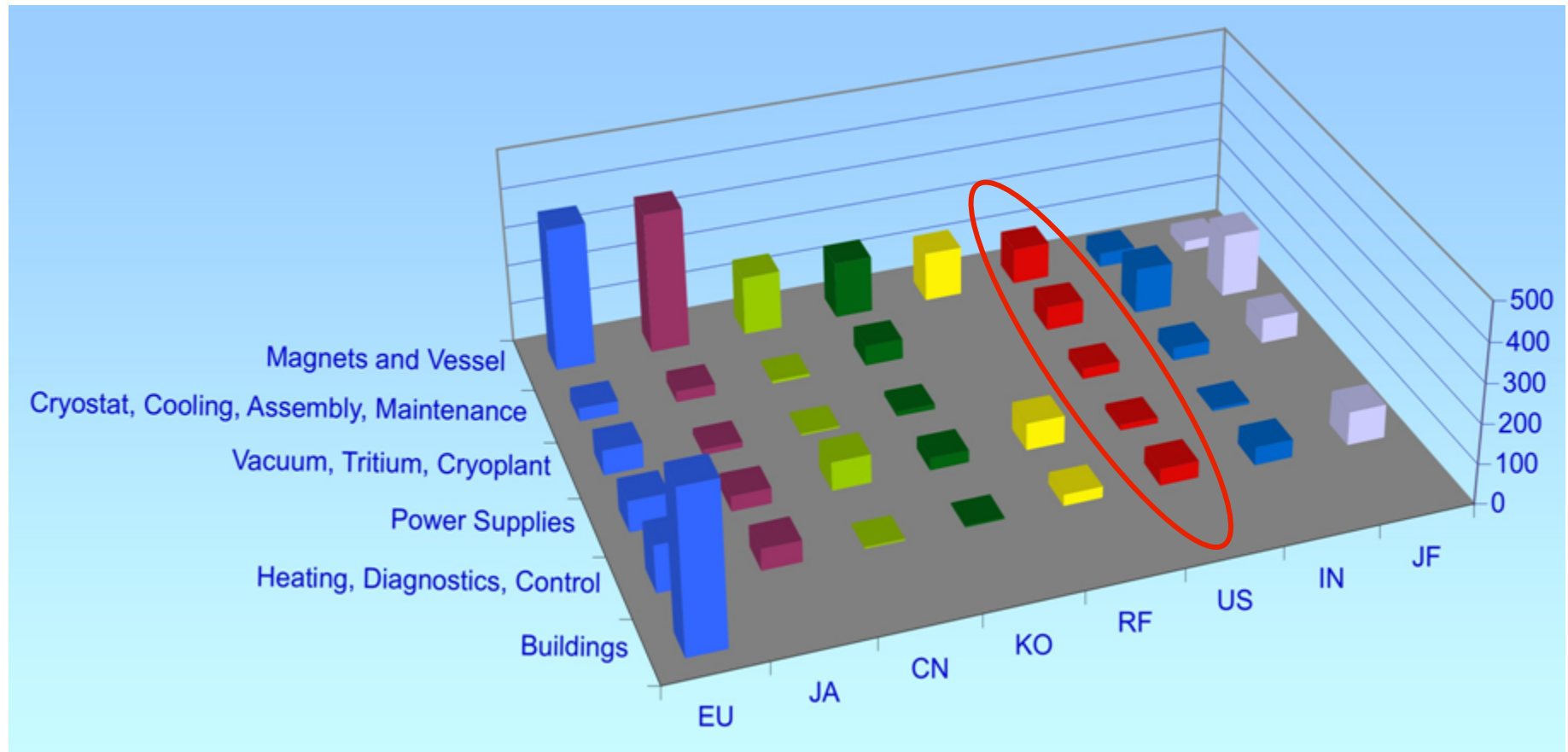
- US Department of Energy,
Office of Science Project
- Oak Ridge National Laboratory
hosts US ITER Project Office,
with partners
 - Princeton Plasma Physics Lab
 - Savannah River National Lab



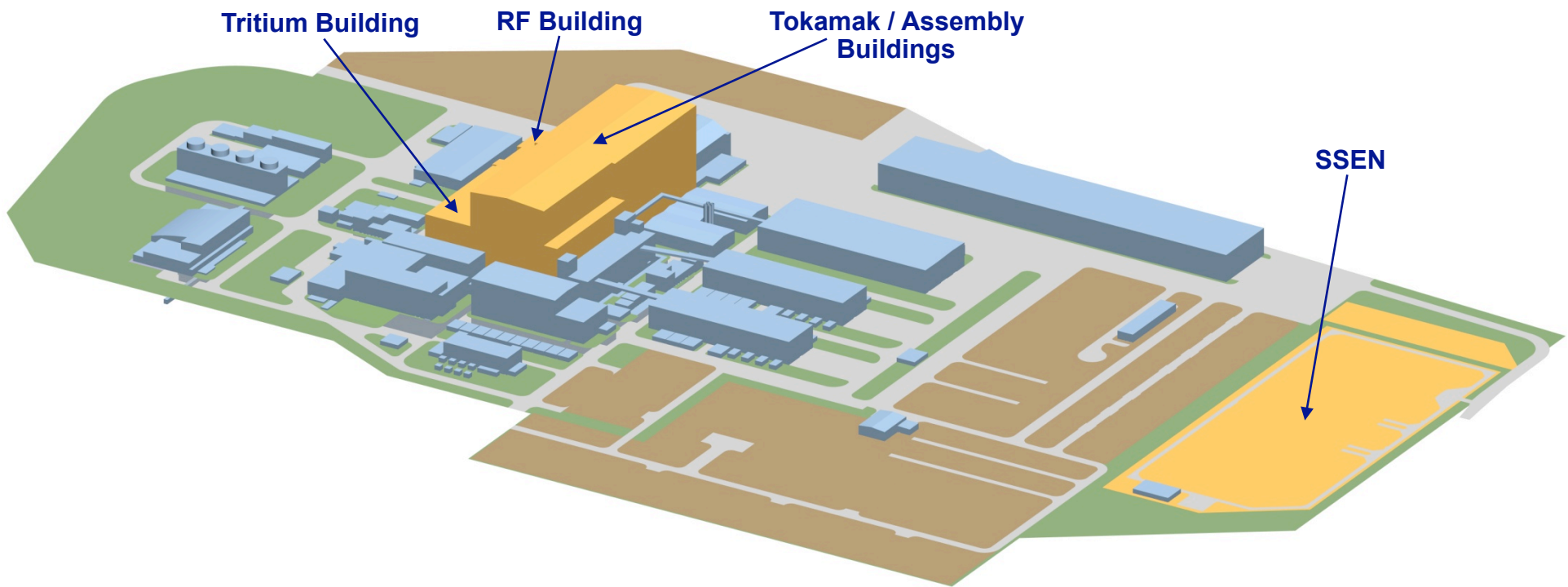
- Project will provide
 - Staff
 - Funding (for common expenses)
 - Hardware



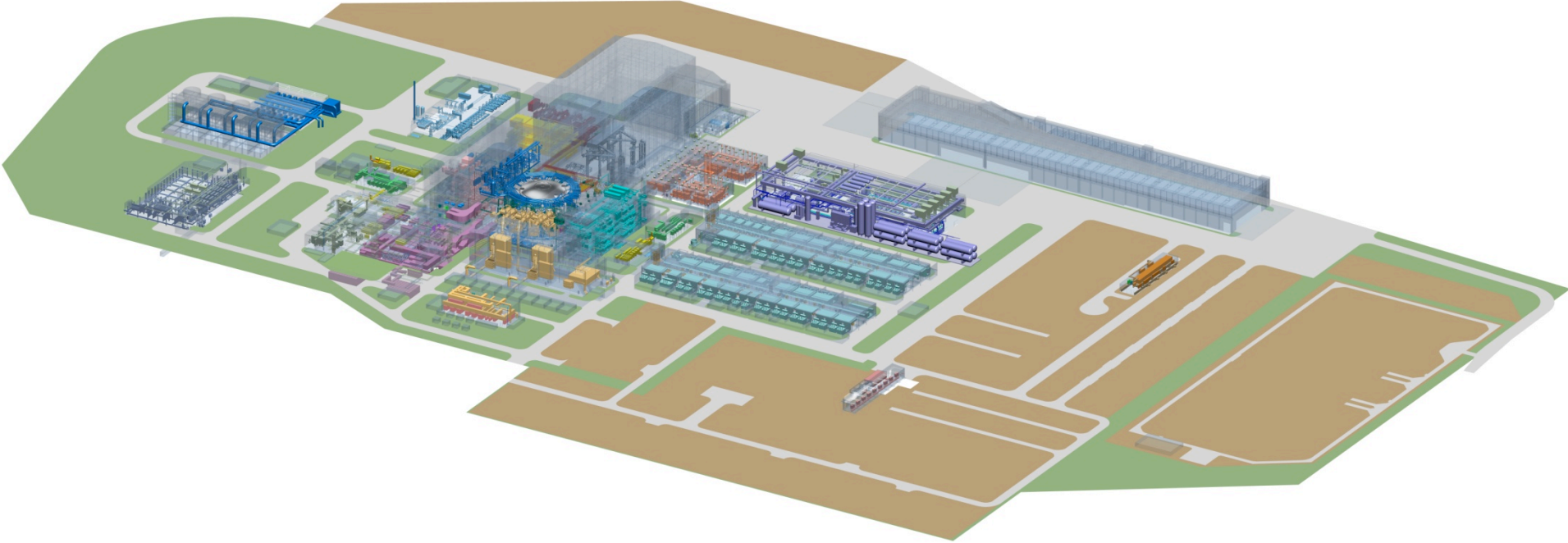
US ITER Hardware Contributions include parts of most major systems



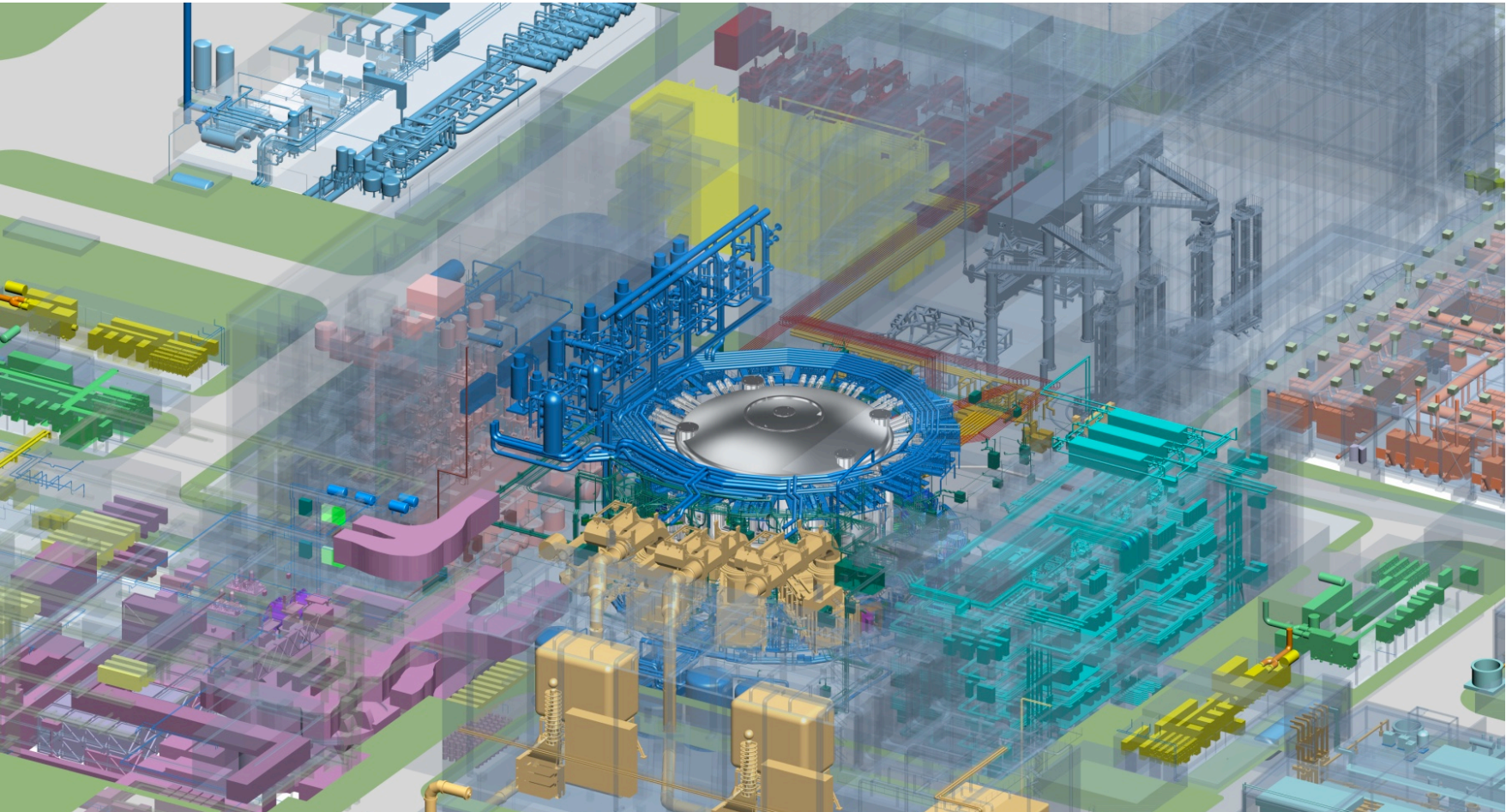
Where is U.S. Hardware Relative to Site?



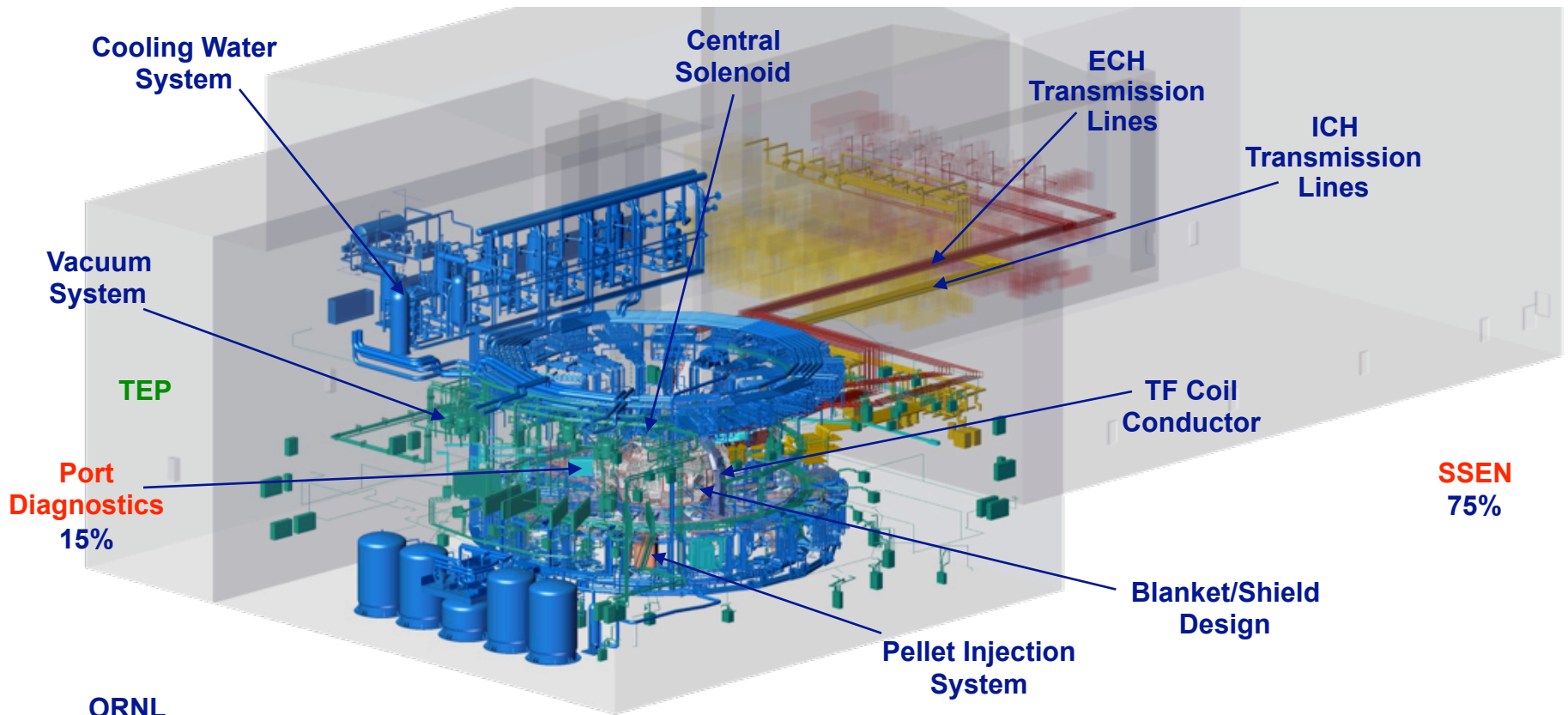
Site Model with equipment exposed



Core buildings with equipment exposed



U.S. Hardware



ORNL
PPPL
SRNL

Opportunities for Industry



- *U.S. ITER has already awarded 90 major contracts totaling over \$103 million. Significant awards include:*
 - *Luvata Waterbury and Oxford Instruments for toroidal field (TF) conductor fabrication*
 - *AREVA Federal Services for design and engineering support for the tokamak cooling water systems*
 - *MIT for scientific/engineering support of the magnet and electron cyclotron systems*
 - *High Performance Magnetics (formerly known as CICEFT) for integration services for the TF conductor.*
- *Many more contracts are anticipated as project moves from design into procurement*

Opportunities for Industry

<https://www.usiter.org/business/index.shtml>



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US ITER Procurement Division is responsible for the acquisition of goods and services for the US ITER project.

Business Opportunities

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- [ITER International Organization \(IO\) Competitive Task Agreements](#)

For Vendors

- [US ITER Vendor Database](#)
- [Vendor Account Status System](#)
- [ORNL Procurement](#)

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Current US business opportunities



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Business Opportunities

For Vendors

ITER Clauses, Documents & Forms



US Business Opportunities

Upcoming US ITER Procurements

| WBS | Description | RFP Projected Date | \$ Estimate | POC |
|-----------|---|--------------------|-------------|---|
| WBS 1.5.2 | Arc Detection Instrumentation for ECH Transmission Line R&D (fabrication) | Summer 2011 | <\$500K | Jeremy Duncan (duncanjc@ornl.gov) 865-576-0477 |
| WBS 1.3.1 | Rough Pump Prototype - Screw Pump | Summer 2011 | <\$500K | Jeremy Duncan (duncanjc@ornl.gov) 865-576-0477 |
| WBS 1.5.1 | Water Cooled Vacuum Capacitors | Summer 2011 | <\$500K | Jeremy Duncan (duncanjc@ornl.gov) 865-576-0477 |
| WBS 1.5.2 | Power Monitor | Summer 2011 | <\$500K | Jeremy Duncan (duncanjc@ornl.gov) 865-576-0477 |

*WOIC reception at SOFE 2011
June 27, 2011*

Status



- Major systems moving through preliminary design
 - Central Solenoid, Prel Des complete in Sept 2011
 - Cooling Water System, Prel Des complete in Feb 2012
- U.S. is on track to have 85% of components needed for first plasma through preliminary design by spring 2012
- Current project active through construction, commissioning and operations will be supported through follow on programs



Summary

- **U.S. fully engaged in design, R&D and procurement activities to deliver In-kind contributions**
 - TF conductor
 - CS magnet
 - Vacuum and fueling systems
 - Tokamak Cooling water system
 - Tokamak Exhaust Processing
 - ICH and ECH transmission lines
 - Diagnostics

- **There are many opportunities for industry**



Thank You