



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

Land Use Planning at The Idaho National Laboratory

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Infrastructure Support

General History of INL Land/Mission

- Central area initially used for Navy ordnance testing
- Area expanded and transferred to Atomic Energy Commission (AEC) which became DOE
 - National Reactor Testing Site (NRTS)
 - Idaho National Engineering Laboratory (INEL)
 - Idaho National Engineering & Environmental Laboratory (INEEL)
 - Idaho National Laboratory (INL)



History of INL Land Withdrawals

- PLO 318 and 545 - central site area for Naval Proving Ground
- PLO 691 - central site area transferred to AEC for atomic energy program
- PLO 637 and 1770 - additional area for NRTS

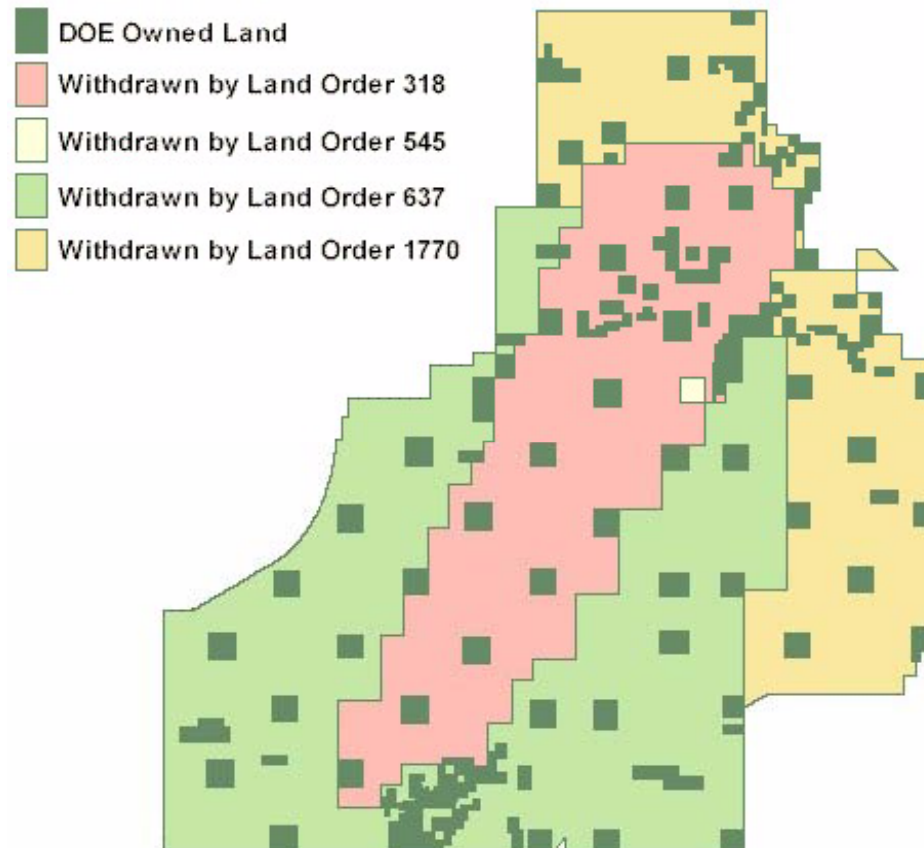


History of INL Land Withdrawals

- INL Public Land Orders do not:
 - Contain a time limitation
 - Prohibit non-conflicting secondary uses



INL Land Ownership





Nuclear Energy

INL Land Use Planning

- Idaho National Laboratory Comprehensive Land Use and Environmental Stewardship Report
 - Current conditions
 - Planning assumptions
 - Legacy site characteristics
 - WAG end states
 - Future use scenarios
- Mission related facility needs planned for in INL Ten Year Site Plan



Land Use Planning Assumptions

- 18 Assumptions include:
 - INL will achieve Nuclear Energy/National Security Missions
 - Entire INL site will remain under federal control for at least 100 years, some areas for perpetuity
 - New construction encouraged in existing facility areas/core infrastructure area
 - Environmental remediation/D & D will be performed and completed per regulations
 - Institutional Controls/Barriers will be maintained as required.

INL Waste Area Groups

Legend

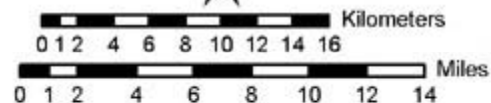
- | | |
|------------------------------------|--------|
| U.S. Highways | WAG 1 |
| State Highways | WAG 2 |
| Rivers and Streams | WAG 3 |
| Paved or Light-Duty Roads | WAG 4 |
| INL Roads | WAG 5 |
| Railroad Tracks | WAG 6 |
| Lakes, Playas, and Spreading Areas | WAG 7 |
| Facilities | WAG 8 |
| INL Boundary | WAG 9 |
| Cities | WAG 10 |

Key Facilities

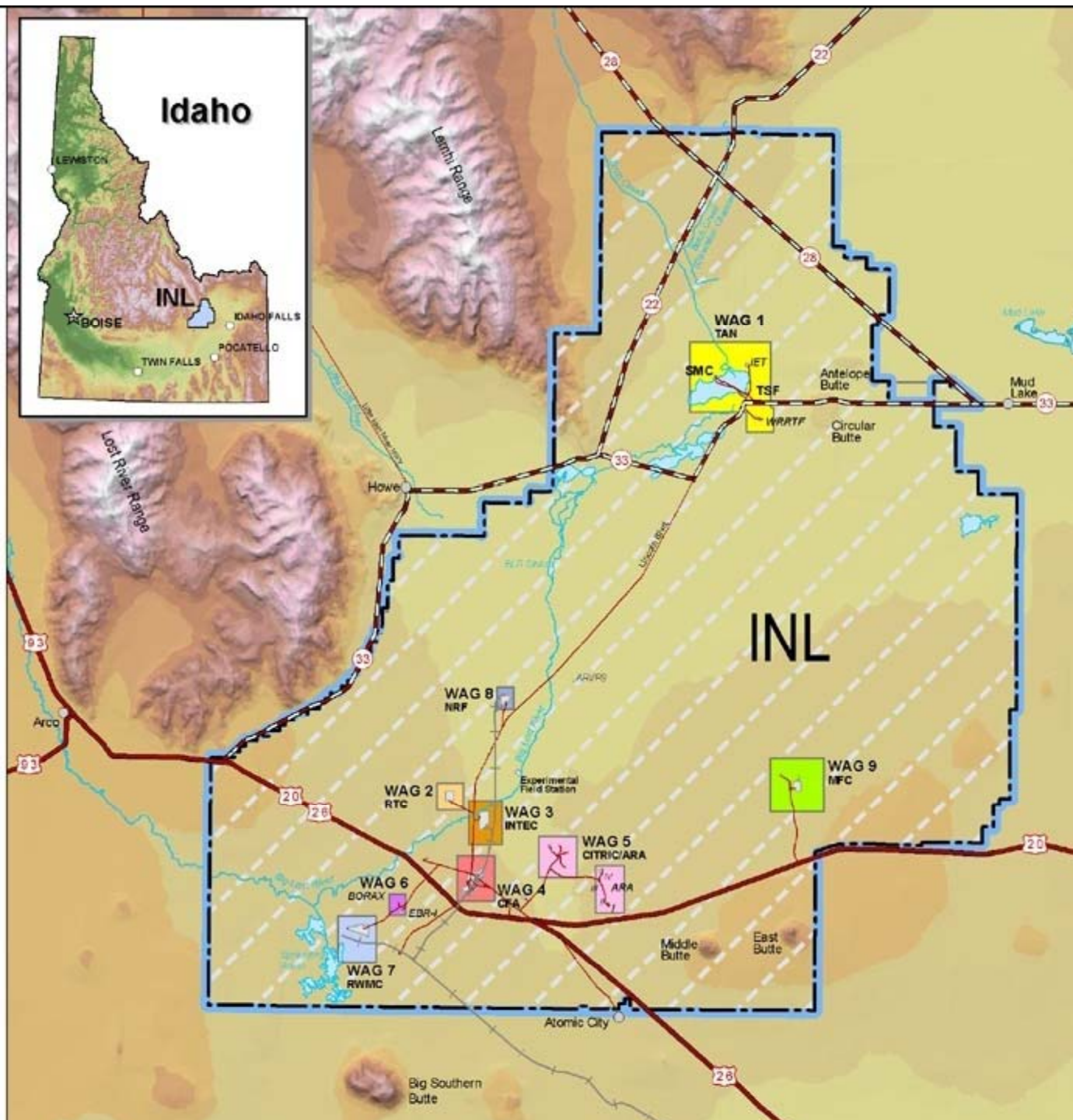
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|-------|---|
| CFA | - Central Facilities Area |
| CITRC | - Critical Infrastructure Test Range Complex |
| INTEC | - Idaho Nuclear Technology & Engineering Center |
| MFC | - Materials & Fuels Complex |
| NRF | - Naval Reactors Facility |
| RTC | - Reactor Technology Complex |
| RWMC | - Radioactive Waste Management Complex |
| SMC | - Specific Manufacturing Capability |
| TAN | - Test Area North |
| TSF | - Technical Support Facility |

Other Deactivated / Decommissioned Facilities

- | | |
|-------|--|
| ARA | - Auxiliary Reactor Area |
| ARVFS | - Army Reentry Vehicle Facility Site |
| BORAX | - Boiling Water Reactor Experiment |
| EBR-I | - Experimental Breeder Reactor-1 (Historical Facility) |
| IET | - Initial Engine Test Facility |
| WRRTF | - Water Reactor Research Test Facility |



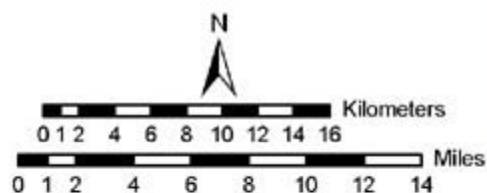
Project: 2005 Landuse Plan
 Map Requestor: Kevin Kostelnik
 GIS Analyst: Dan Mahnami
 Date Drawn: 7/28/2005
 Disclaimer: Contact the SAL at 526-3529 for information about the data shown on this map.
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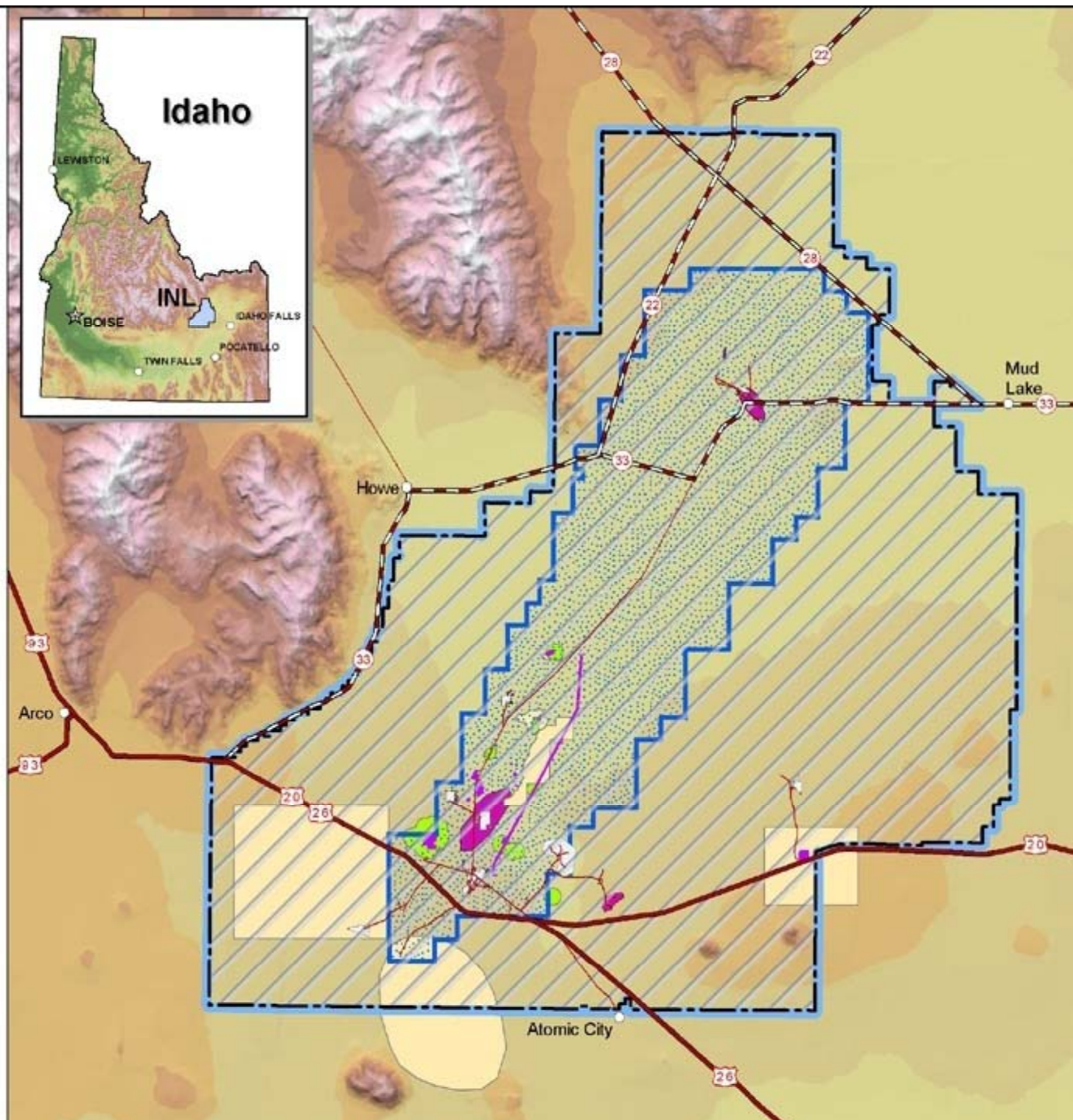
INL Institutionally Controlled Areas

Legend

-  INL Boundary
-  Cities
-  Restricted Area
-  Action CERCLA Sites
-  No Action CERCLA Sites
-  Cleared Ordnance Area
-  Assessed Ordnance Area
-  Uncleared Ordnance Area
-  Closed Ordnance Area
-  Downrange Ordnance Area



Project: 2005 Landuse Plan
 Map Requestor: Kevin Kostelnik
 GIS Analyst: Dan Mahnami
 Date Drawn: 8/4/2005
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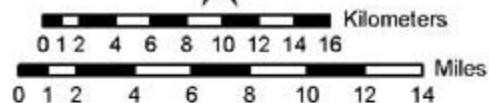
INL Land Use

Legend

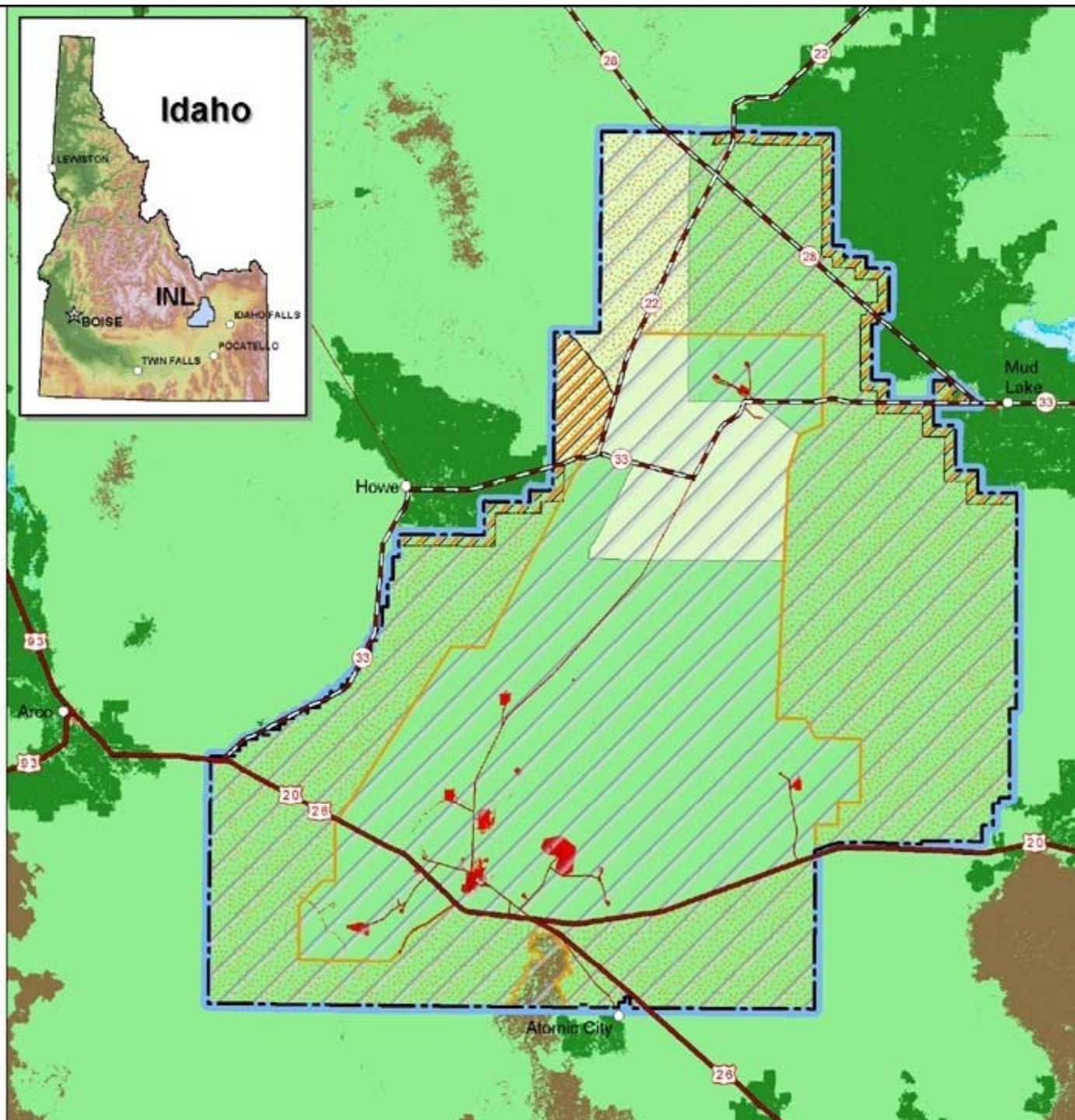
-  INL Boundary
-  Cities
-  Restricted Area
-  Grazing Boundary
-  INL Hunting Boundary
-  Sagebrush Steppe Reserve

Land Use

-  Barren
-  Industrial/Transportation
-  Non-Agricultural Vegetated
-  Wetlands
-  Agricultural
-  Residential
-  Water



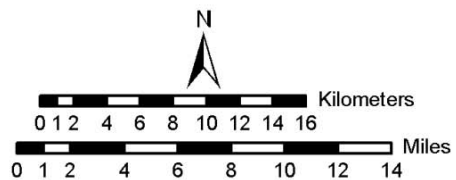
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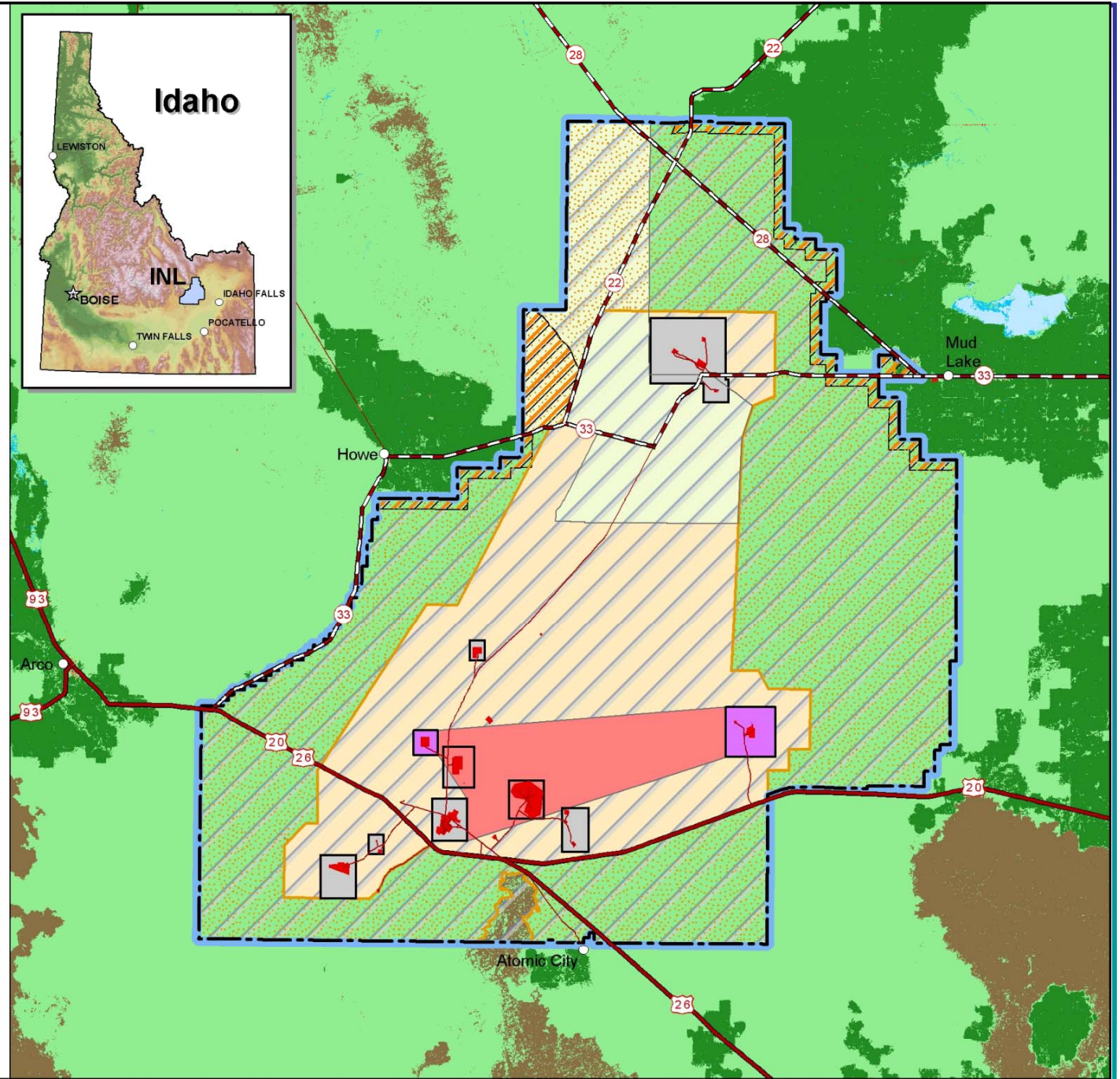
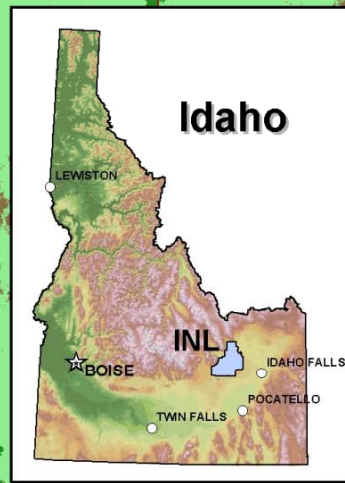
INL 10 Year Land Use Scenario

Legend

- INL Boundary
- Cities
- Core Infrastructure Area
- New Development Area
- Possible Transportation Corridor
- Operations/Decommissioning Area
- Grazing Boundary
- Sagebrush Steppe Reserve
- INL Hunting Boundary
- Restricted Area
- Land Use**
- Barren
- Industrial/Transportation
- Non-Agricultural Vegetated
- Wetlands
- Agricultural
- Residential
- Water



Project: 2005 Landuse Plan
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 GIS Analyst: Dan Mahnami
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 Control Number: SALAM001361





Non-DOE Land Use at INL Site

- DOE decision with assistance from BLM or IDF&G
 - Rights of way
 - Easements
 - Grazing
 - Hunting
- DOE Land Use Committee evaluates requests



Non-DOE Land Use at INL Site

- Land use requests have been increasing
 - Communications towers
 - Power transmission lines
- Developed right-of way database/map
- Comprehensive utility corridor

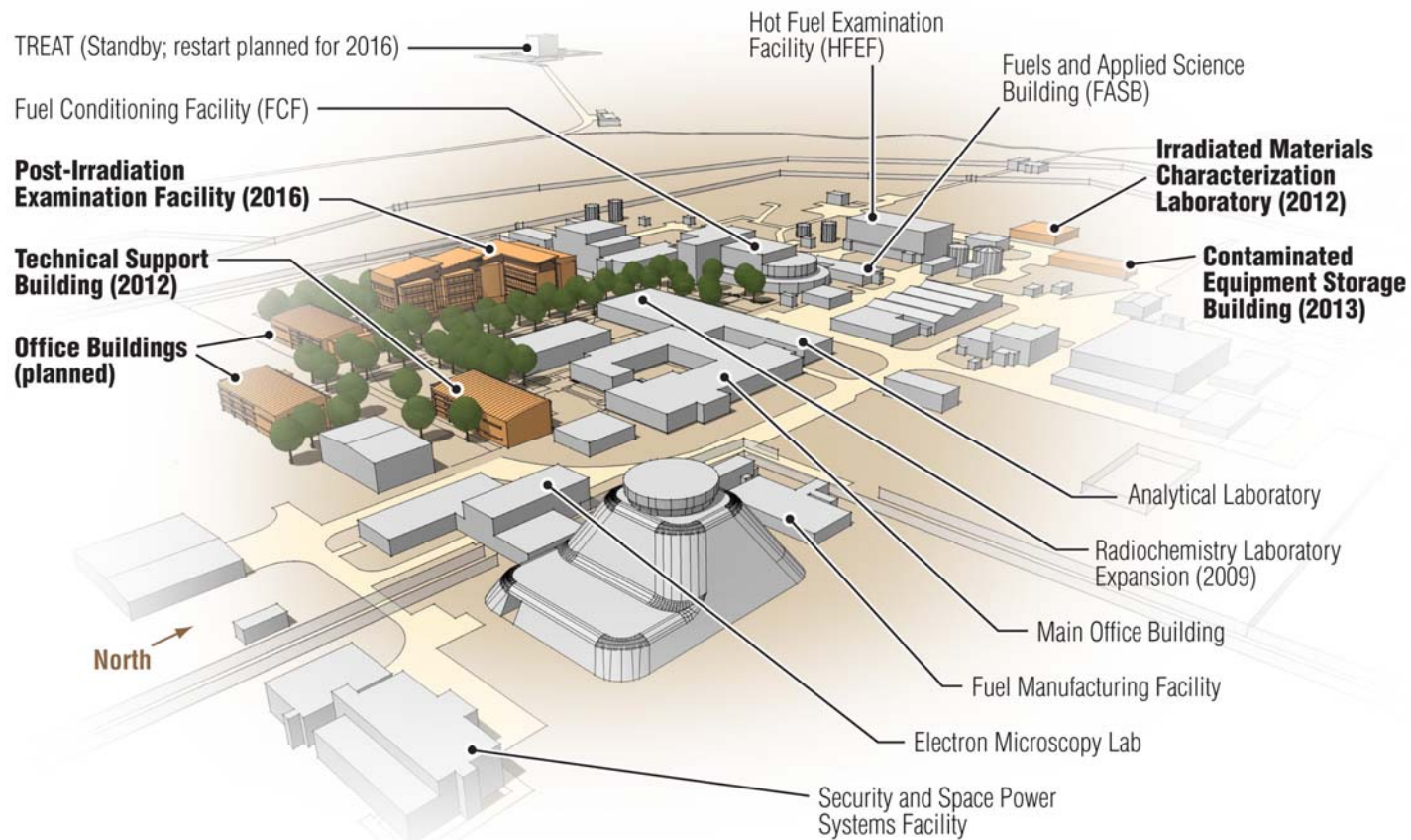


Planned INL Campus Development

- New facilities required for NE and National Security missions
- Consolidate in-town research and development capabilities at the INL Research and Education Campus
- Focus on capabilities - streamline site facilities to support program missions
- Modernize/upgrade existing facilities
- Invest in new facilities



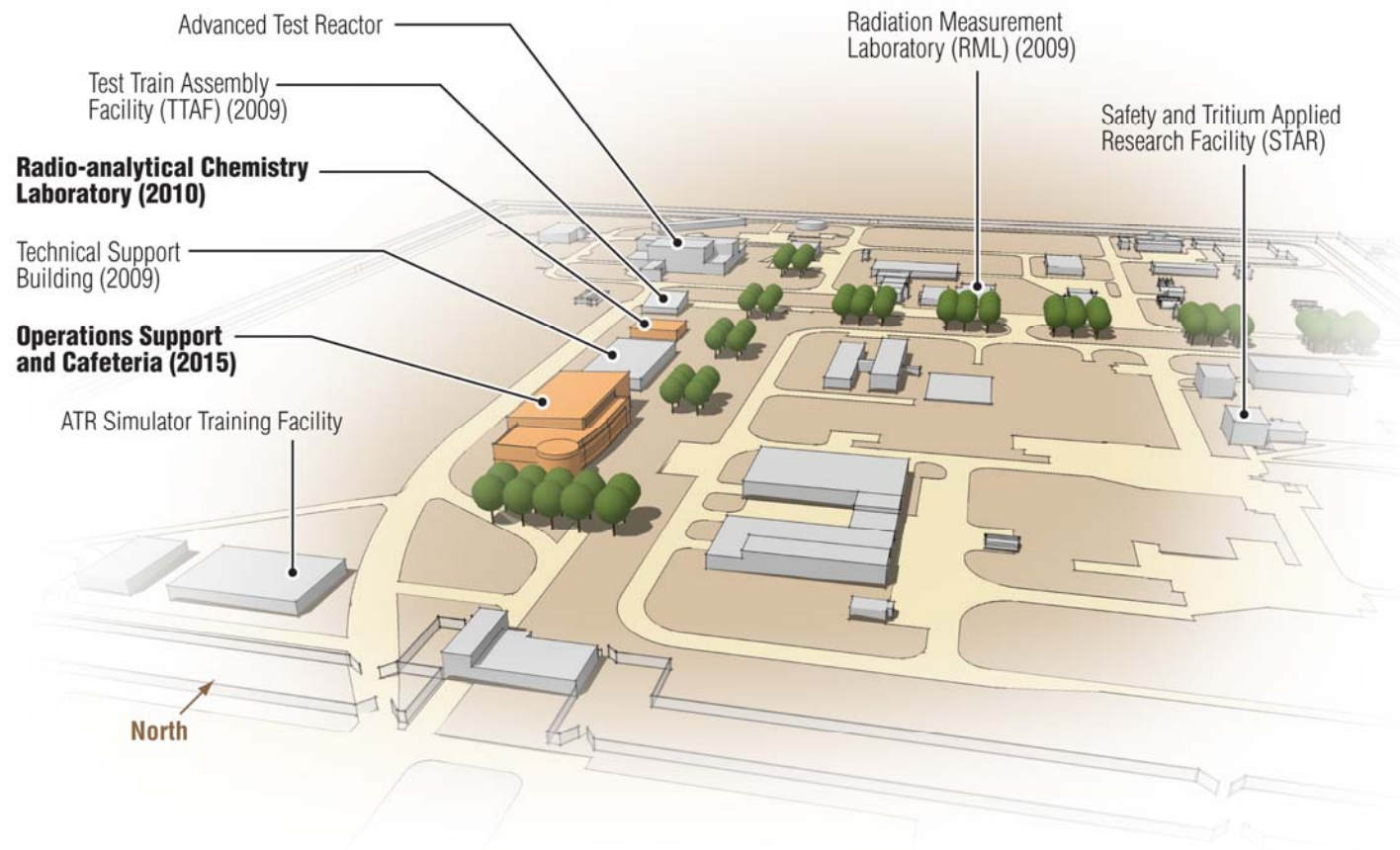
Materials and Fuels Complex Master Plan



09-GA50829-13



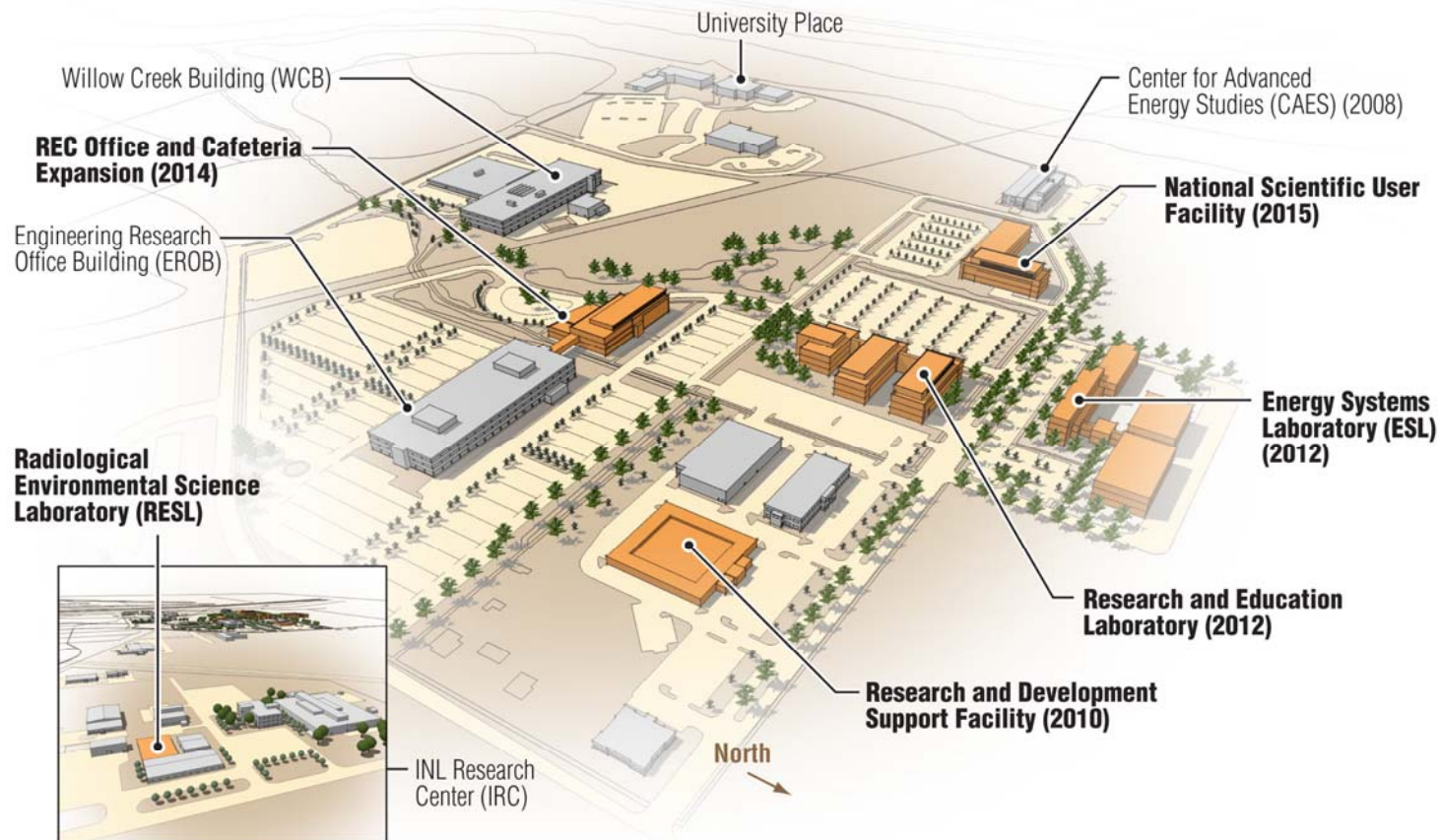
Advanced Test Reactor Complex Master Plan



09-GA50829-12



Research and Education Campus Master Plan



09-GA50829-14