



Enterprise•SRS Site Land Use Planning Process

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Presentation to The Savannah River Site Citizens Advisory Board, Strategic and Legacy Management Committee
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Purpose

- To Fulfill Strategic and Legacy Management Committee Request for Update on SRS Land Use Planning



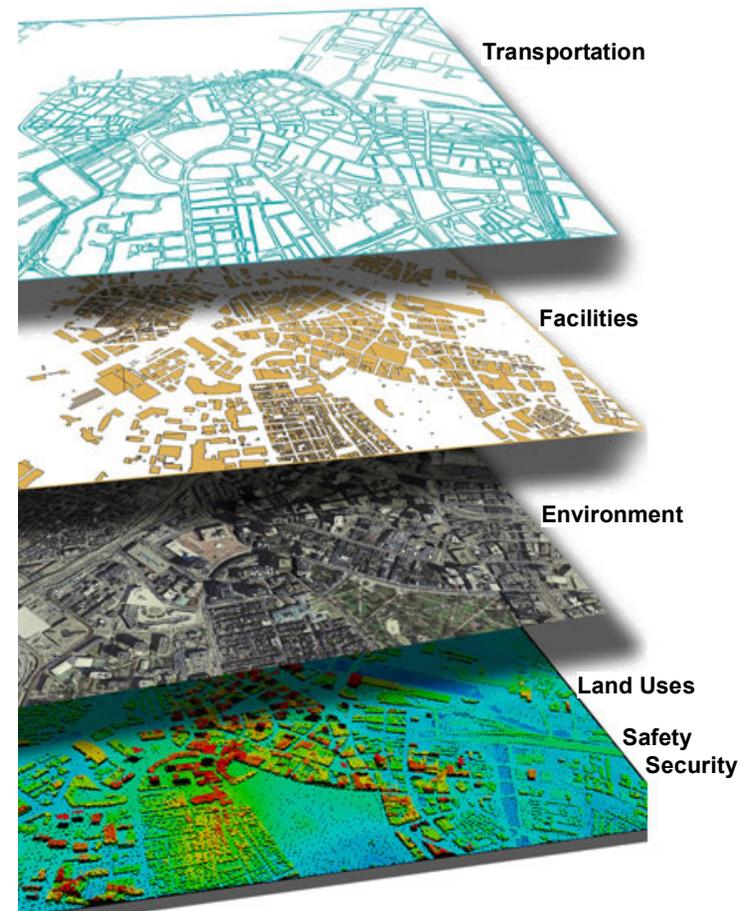
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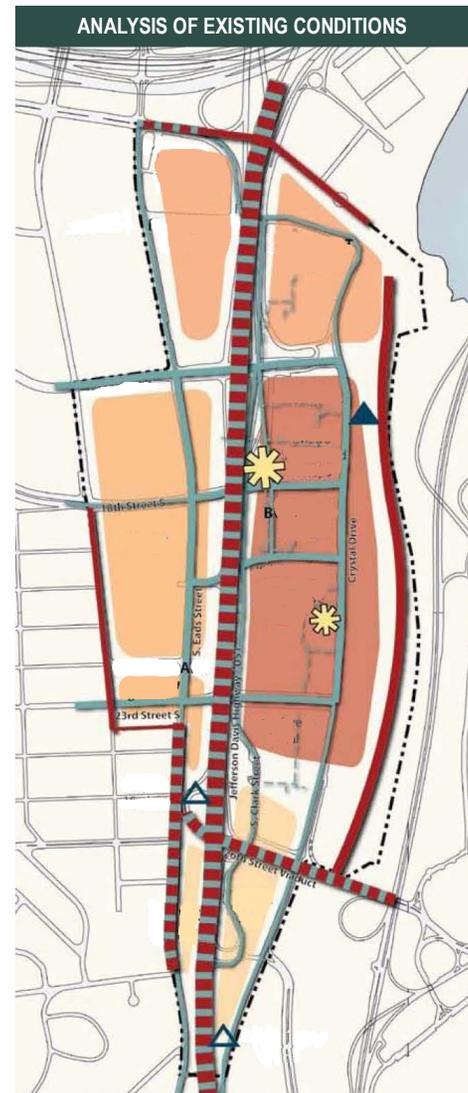
What Is Land Use Planning?

- **Process That Translates Long Term SRS Priorities and Goals Into Concrete Physical Development Objectives**
 - **Identifies the Long Range Requirements for Facilities, Land, and Infrastructure**
 - **Takes Into Account and Balances Land Use, Transportation, Safety, Security, and Natural Resource Protection Considerations**
 - **Provides Integrated, Holistic, Long Range Solutions for the Efficient Use of All Resources**



Land Use Planning Process

- Planning is First Step in Site Development Decision Process
- Planning Process Steps
 - Identification of Existing Conditions, Opportunities, Constraints, Goals, and Needs
 - Develop and Evaluate Alternatives
 - Determine and Implement the Preferred Alternative



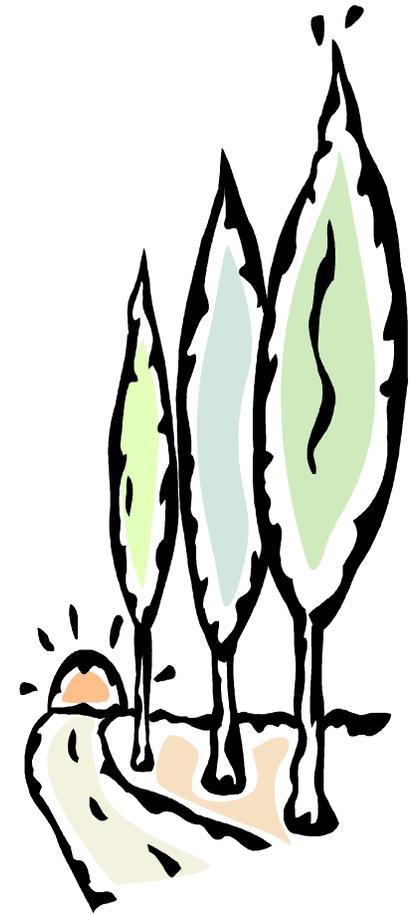
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The Plan as a Product

- Documents Decisions
- Graphic and Narrative Case For The Vision of The Future
- Contains Various Levels and Components
 - Site Level
 - Area Level
 - Facilities Component, Infrastructure Component, etc.
- Flexible
 - Plan Must be Dynamic to Respond to Changes in Missions, Goals, and Priorities
 - Mechanism to Coordinate and Integrate Changes



Linkage of Site Land Use Planning to Enterprise•SRS

National Security



Clean Energy



Environmental Stewardship



Strategic Initiatives

●	●	●	Center for Nuclear Materials Research
●	●	●	Nuclear Fuel Cycle Solutions
		●	Liquid High Level Waste Dispositioning
●	●		Small Modular Reactors Deployment
●	●	●	Nuclear Materials Disposition Paths
●	●	●	Revitalization of Site Assets
●			Helium-3 Supply
	●	●	Alternative Energy Projects
		●	Next Generation Cleanup Technologies
●			Nuclear Forensics
●			Tritium Infrastructure
		●	National Radioecology Expansion



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Savannah River Site – Land Use Planning Process

Site Background Information

- 310 Square Miles
- Over 7 Million Square Feet of Buildings
- Roads ----- 119 Miles / 8 Bridges
- Power Lines ----- 132 Miles
- Steam Lines ----- 25-30 Miles
- Domestic Water Lines ----- 58 Miles
- Railroads ----- 33 Miles
- River/Process Water Lines ----- 24 Miles
- Designated a National Environmental Research Park
- Significant Protected Species, Wildlife and Forest Resources



Savannah River Site– Land Use Planning Process

Current Missions & Tenants

- **Environmental Management**
 - Solid Waste, Nuclear Materials, Soil, Groundwater, Facilities , Site Landlord Services – Savannah River Nuclear Solutions
 - Liquid Waste – Savannah River Remediation
 - Salt Waste Processing Facility – Parsons
- **National Nuclear Security Administration**
 - Defense Programs – Savannah River Nuclear Solutions
 - Nuclear Nonproliferation Programs - Shaw AREVA
- **Savannah River National Laboratory**
- **Security Services – WSI-Savannah River Site**
- **Savannah River Ecology Laboratory – University of Georgia**
- **Land Management - United States Department of Agriculture Forest Service**
- **Sanitary Waste Landfill - Three Rivers Solid Waste Authority**
- **Biomass Cogeneration Facilities - Ameresco**



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Savannah River Site – Land Use Planning Process

Guiding Assumptions of Land Use Planning

- **DOE will Retain Ownership of the Site**
- **Be Protective of Natural Resources, Environmental Assets and Opportunities for Environmental Research**
- **Supports Current Mission Needs**
- **Be Postured to Receive New Missions**
- **Take Advantage of Opportunities to Reuse Existing Assets**
- **Continue to Enhance the Integrated Process to Support Enterprise•SRS**
- **Provide Cost-effective Integration of Assets**

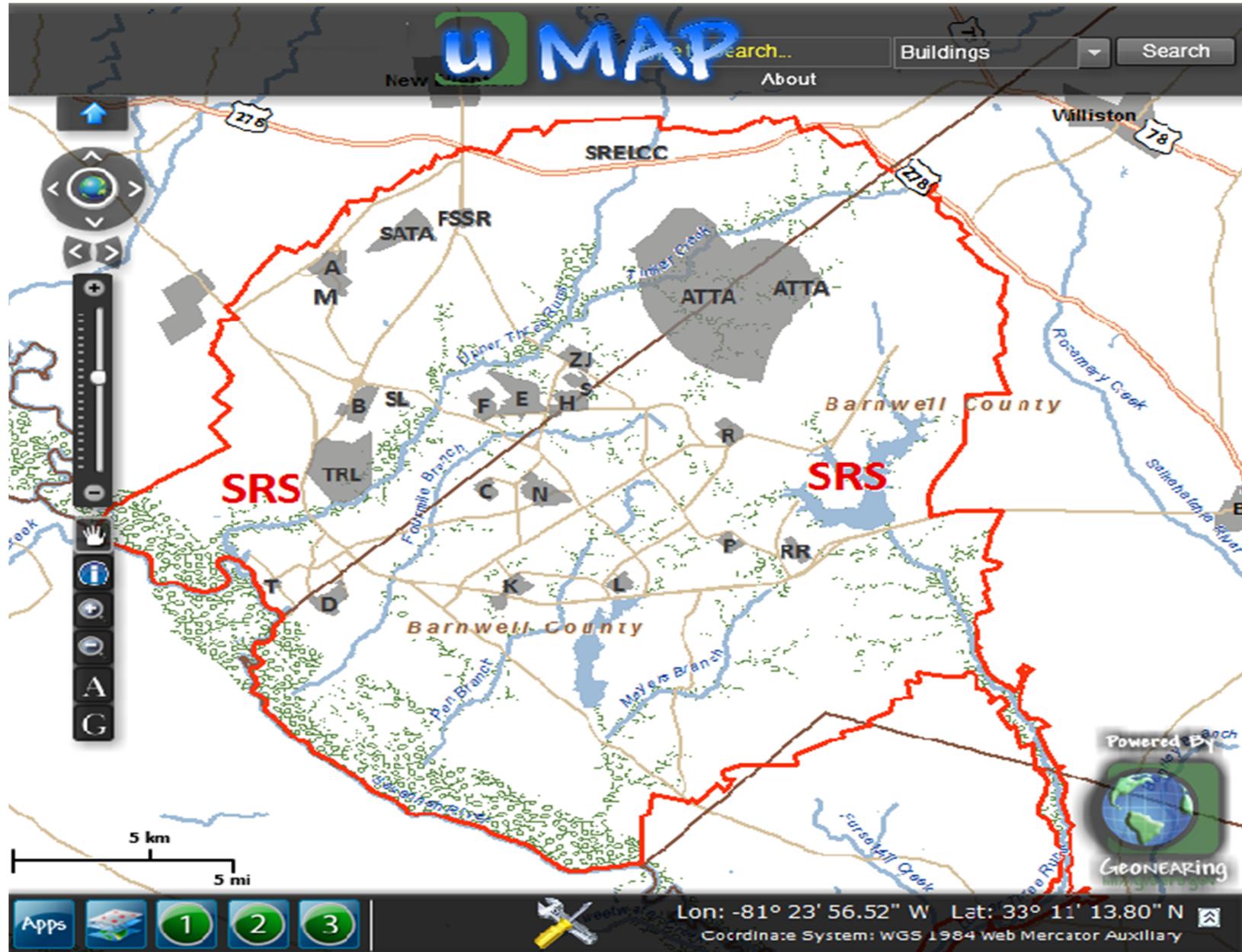


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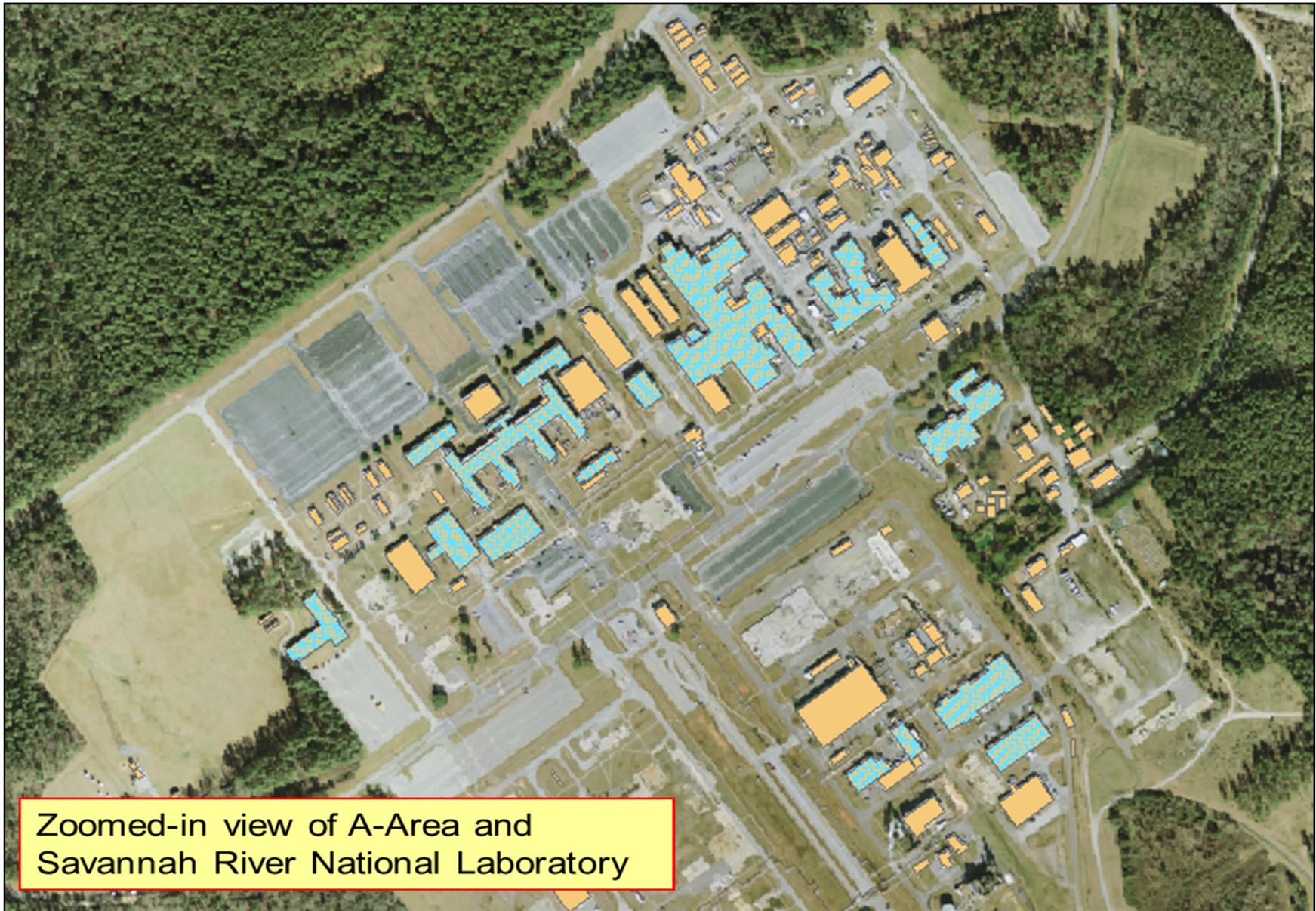


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Geographic Information System (GIS) Tools

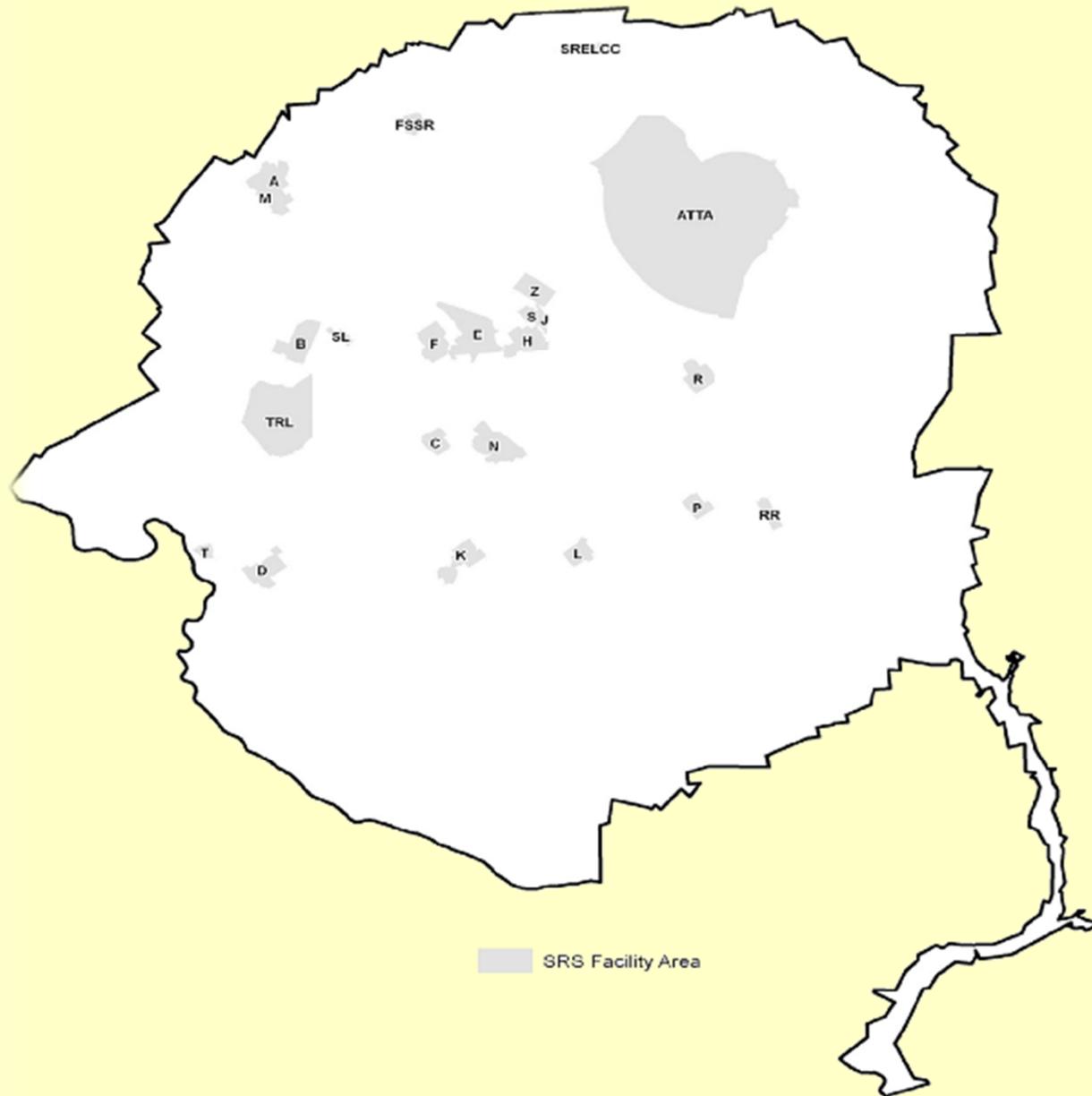


GIS Tools – Example: A Area Map

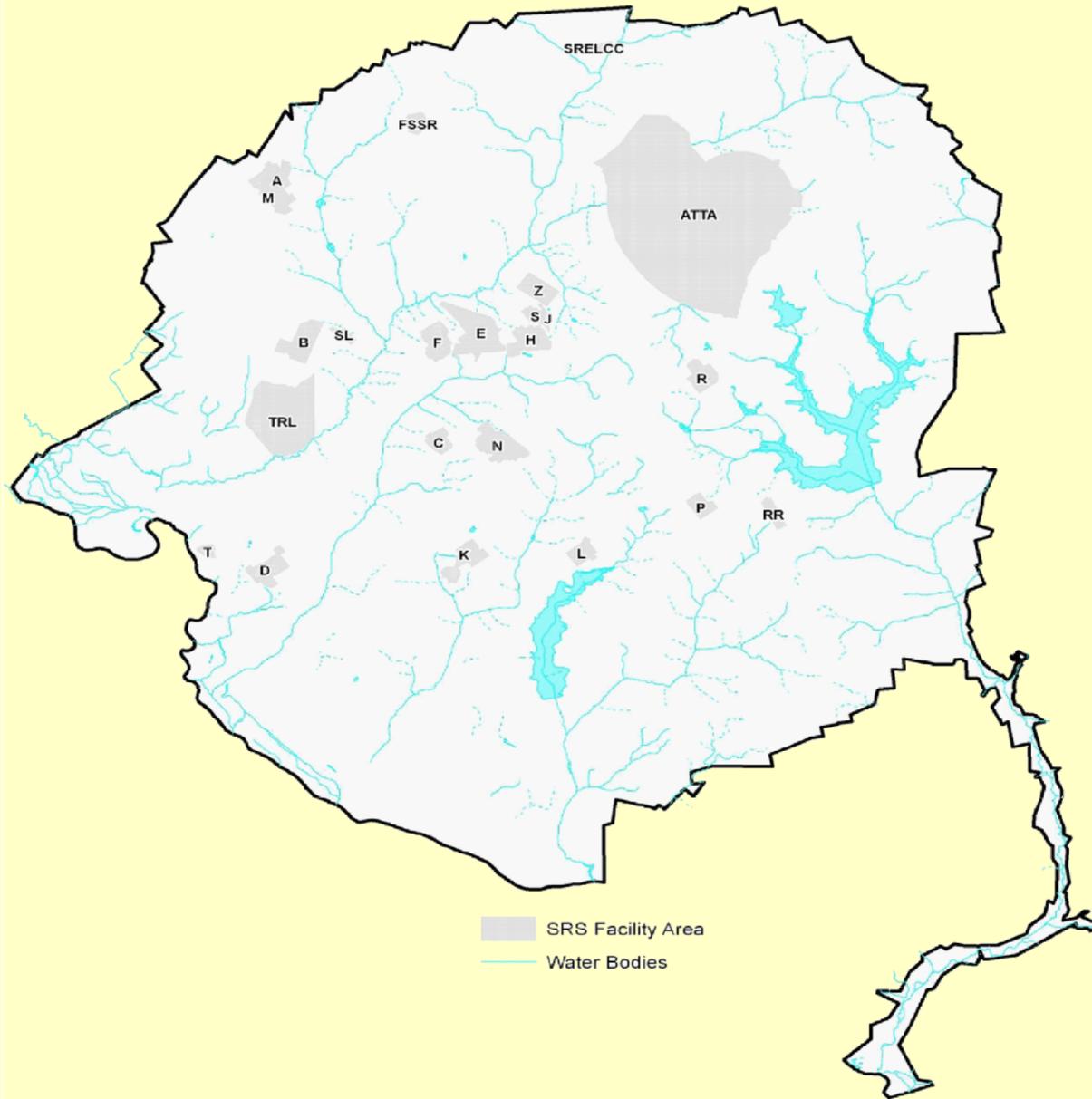


Zoomed-in view of A-Area and Savannah River National Laboratory

GIS Tools – SRS Map With Areas



GIS Tools – Map With Areas and Water Bodies



GIS Tools – Map With Areas, Water and Roads



GIS Tools – Map With Areas, Water, Roads, and Railroads



Savannah River Site – Land Use Planning Process

The Future

- **DOE/Savannah River Nuclear Solutions Planning Team Established**
- **Continuing To Refine Planning Process**
- **Enhancing Geographic Information System (GIS) Online Mapping Overlay Capabilities**
- **Create a Plan That Defines The Site and Guides Implementation of The Site Vision**



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