

MISSION IMPOSSIBLE: NATIONAL LAB CAMPUS PLANNING 2.0

PRESENTED BY:

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NATIONAL LABORATORY

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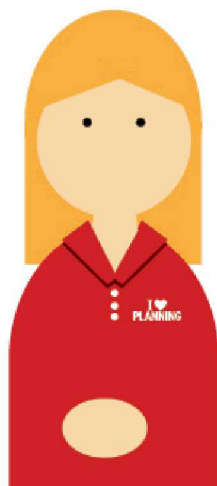
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SABATINI

JESSICA JOHNSON - URBAN PLANNER DEKKER/PERICH/SABATINI

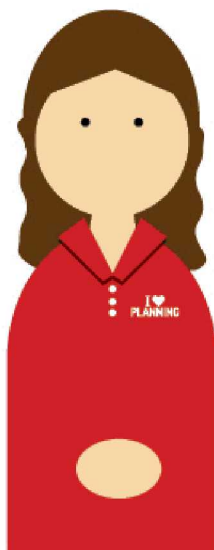
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Arndt



Jessica
Johnson



Kate
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Jill
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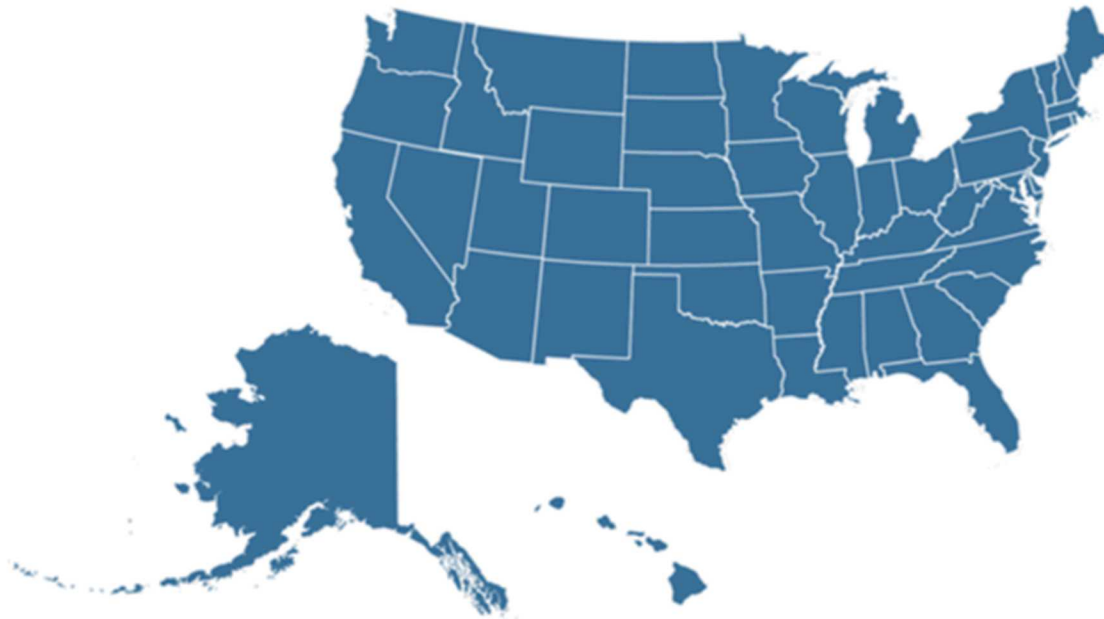


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What is your focus in planning?

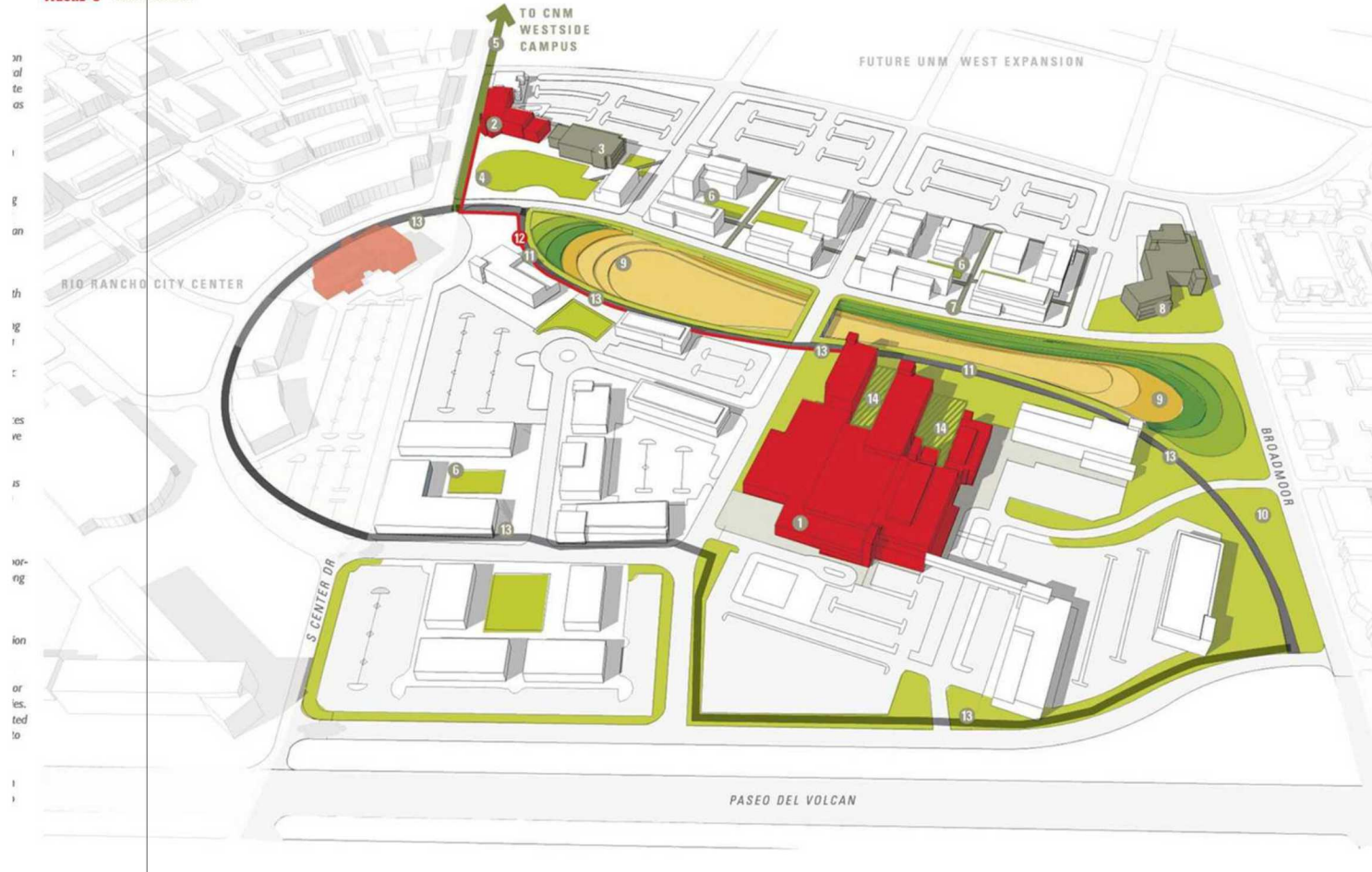
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CAMPUS PLANNING **OVERVIEW**

Campus Planning Overview

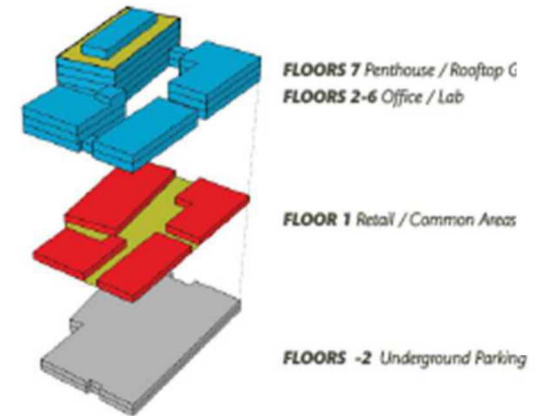
University or College Campus

FIGURE 3 CAMPUS PLAN



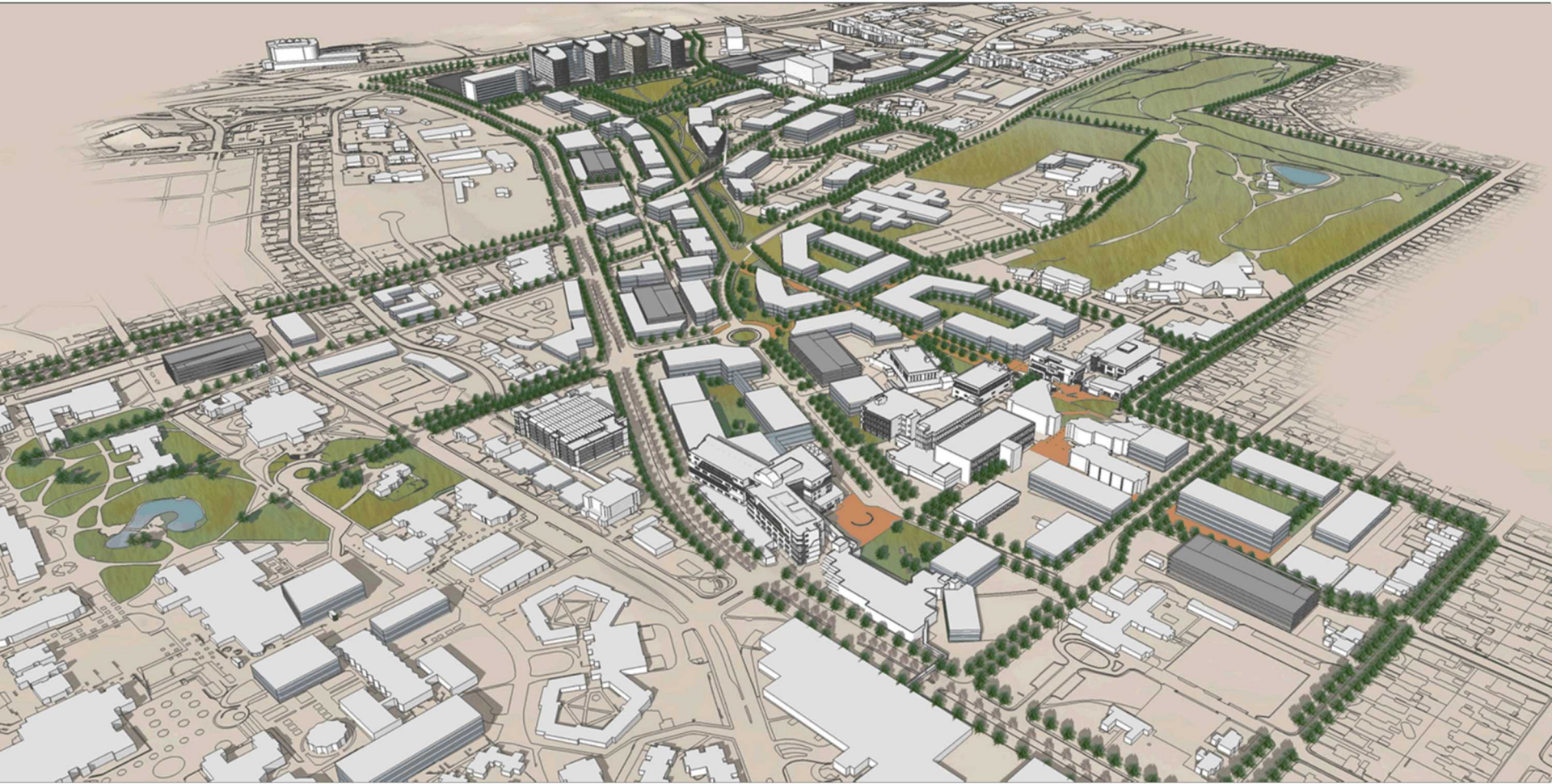
Campus Planning Overview

Innovation Districts of University Campuses



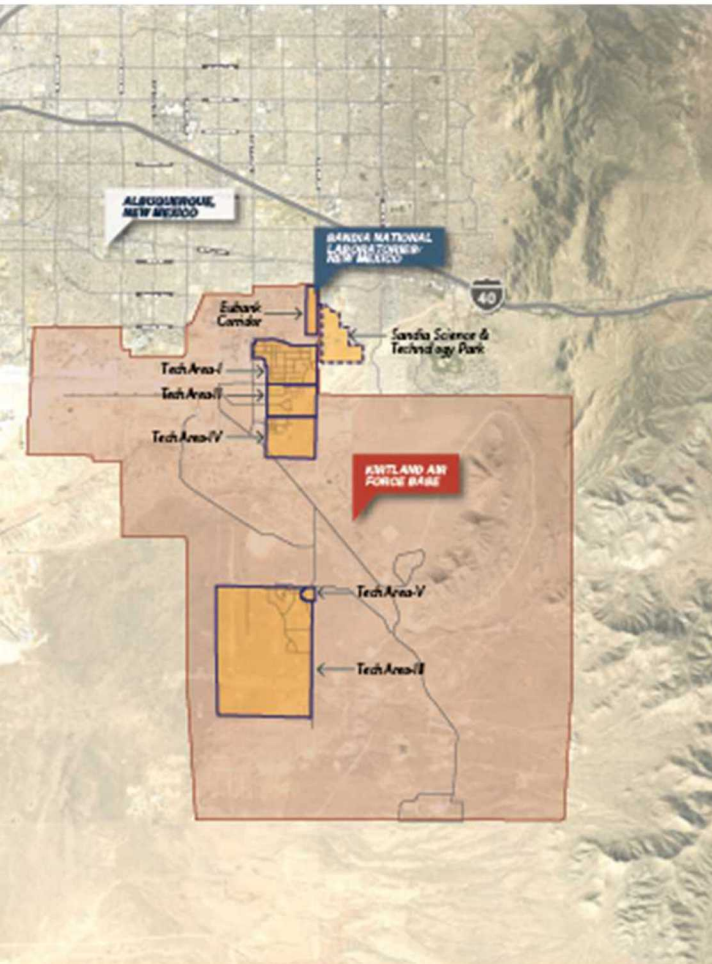
Campus Planning Overview

Hospital Campuses



Campus Planning Overview

National Laboratory Campuses

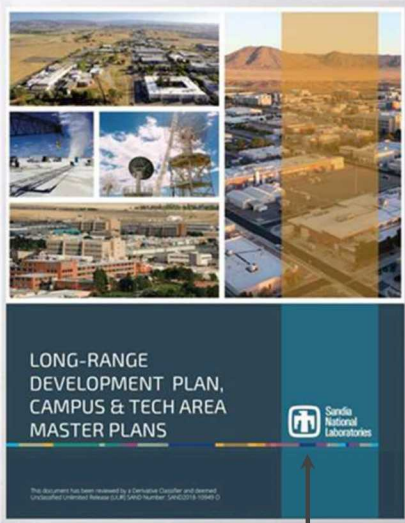


Campus Planning Overview

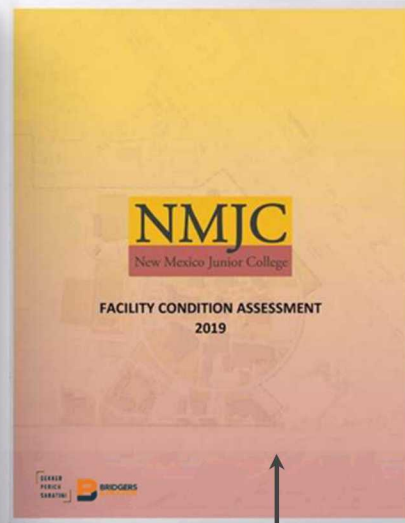
Types of Planning Efforts

Capital
Planning

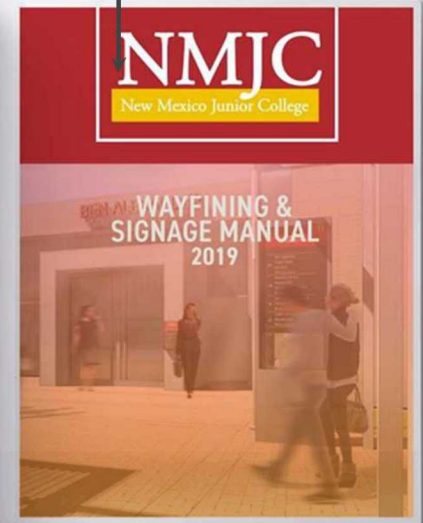
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Long Range
Planning



Facility
Planning



Campus Planning Overview

Long Range Planning

Engagement /
Visioning



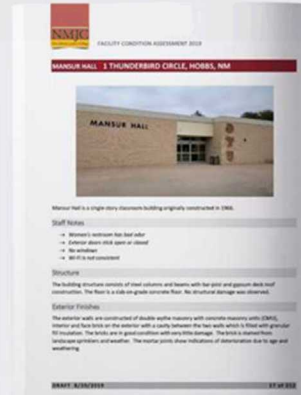
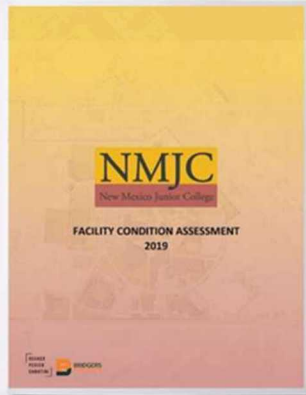
Goals / Priorities

Vision /
Implementation
Strategies

Campus Planning Overview

Facility Planning

Condition Assessments



MANAGERIAL SUMMARY TABLE

Facility Name	DEFICIENCY COMPLETION DATE	SP	NCI	CONSTRUCTION COSTS (\$)	NO. OF BUILDING	TOTAL REPAIR COSTS (\$)	NO. OF BUILDING
Mansue Hall	2019	10	10	1,000,000	1	1,000,000	1

MANAGERIAL SUMMARY TABLE

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IMPLEMENTATION STRATEGIES / COST ESTIMATES

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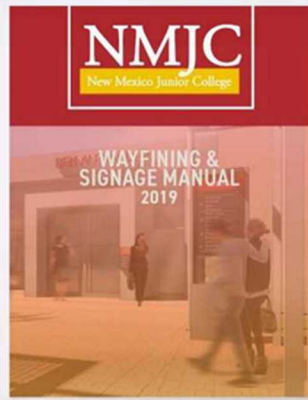
Condition Summaries

Implementation Strategies / Cost Estimates

Campus Planning Overview

Special Initiatives Planning

Vision / Component Overview



Design Standards

Implementation
Strategies

Differences in Campus Planning

- Often exempt from municipal zoning
- More internalized organizational engagement
- Organizational framework
- Approval from the president, chancellor and governing board



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Scenario Based Campus Planning Softwares

Question: What type Planning Initiatives do you have experience with?

NATIONAL LAB PLANNING **OVERVIEW**

Intricacies of LAB planning



- Similarities to City Planning
- Flexibility is critical
- Successful integration of competing requirements
- Continual prioritization of all facility and infrastructure resources



Challenges with National Labs SNL's Perspective



- Helping mission partners to understand the importance of facilities and infrastructure
- Site development, facilities, infrastructure, and site amenities are not prioritized in funding



Challenges with National Labs LANL's Perspective



- Continual coordination and communication between ongoing tactical actions



Challenges with National Labs Consultant's Perspective

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- Closed campus environment
- Approval Processes
- Clearance requirements





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Scenario Based Campus Planning Softwares

Question: What are your planning challenges

NATIONAL LAB PLANNING **OPPORTUNITIES**

National Lab Planning Opportunities

- Utilizing ever increasing amount and types of data and combining with evolving visualization tool such as GIS
- Combining varieties of institutional data to provide metrics and insight into ongoing and future planning



National Lab Planning Opportunities

SNL LRDP Case Study



Purpose of the Long Range Development Plan (LRDP) and Campus & Tech Area Master Plans (TAMPs):

- Set an integrated vision for site development
- Guide land and infrastructure development for all Sandia National Laboratories campuses



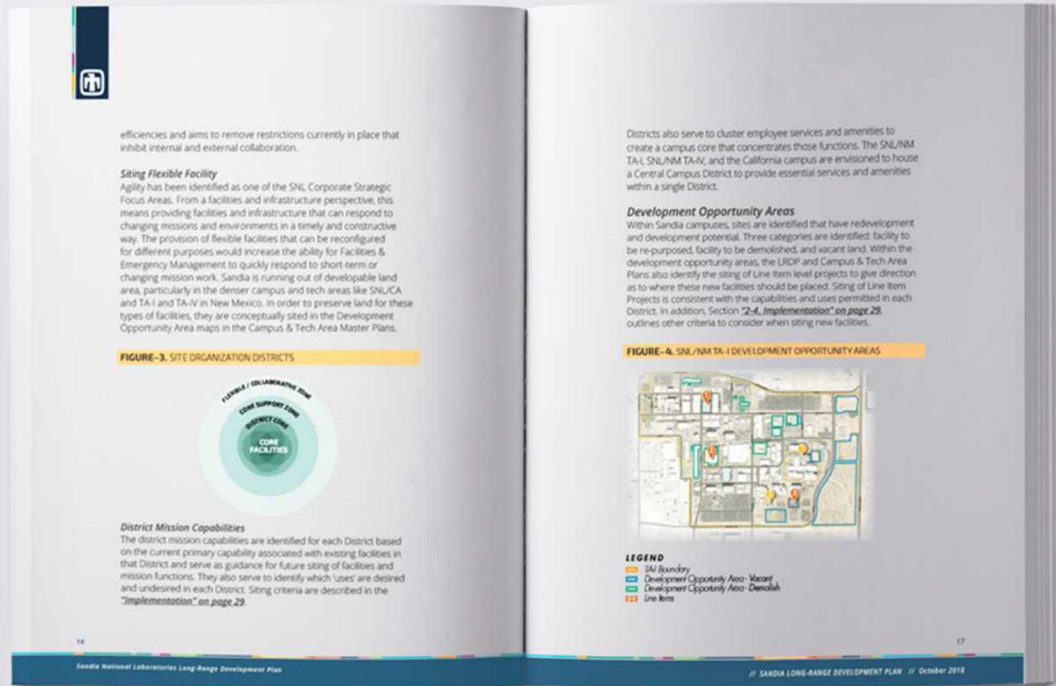
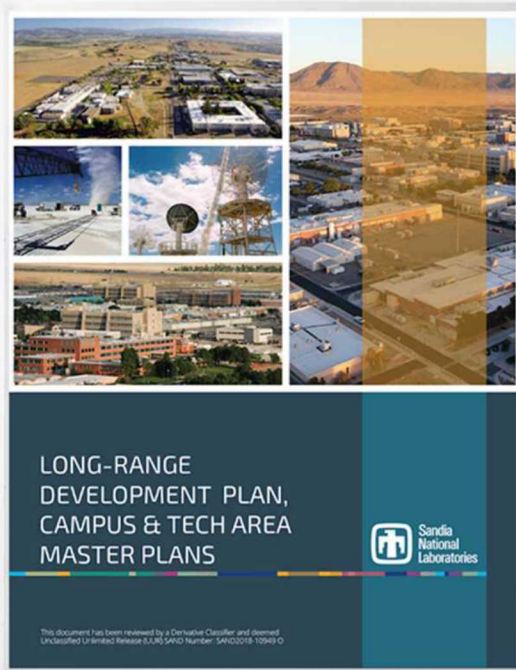
SNL LRDP Scope

Dekker Perich Sabatini (D/P/S) was hired to:

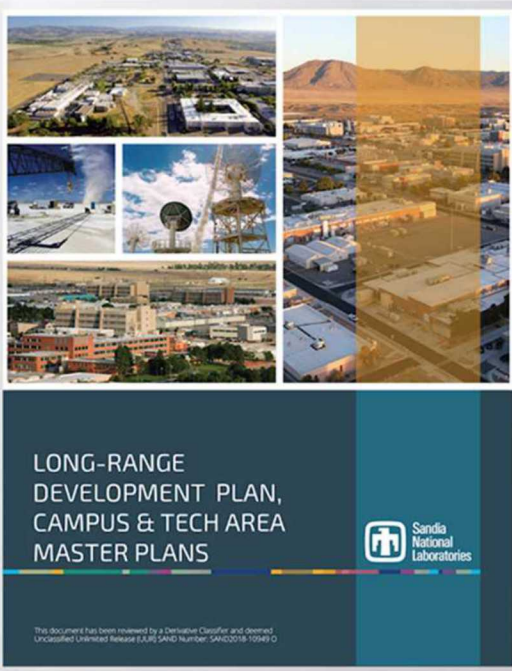
- Revise the SNL Long Range Development Vision
- Create Campus & Tech Area Master Plans (TAMPs)
- Create an online GIS based web interface that allowed users to digitally interact with both the LRDP & TAMPs



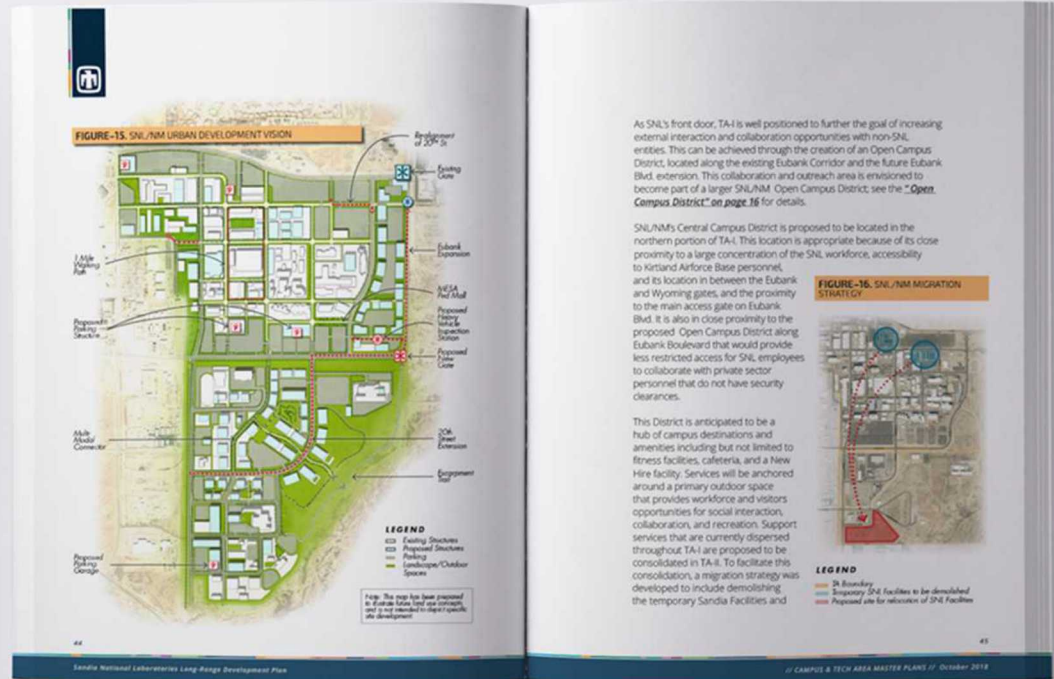
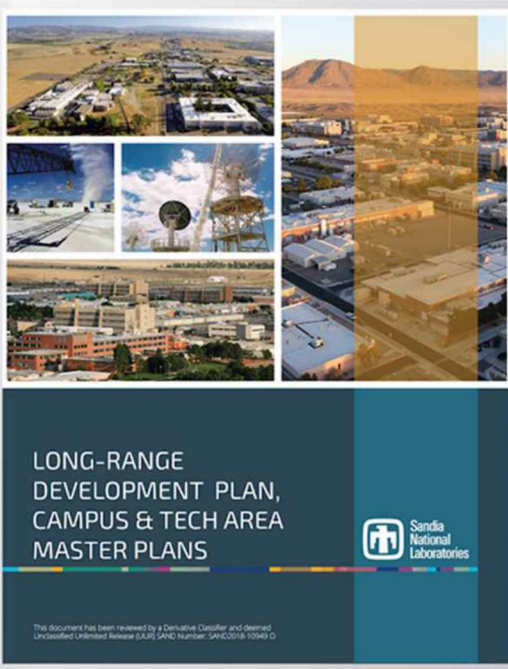
Traditional Print LRDP Overview



Traditional Print LRDP Overview

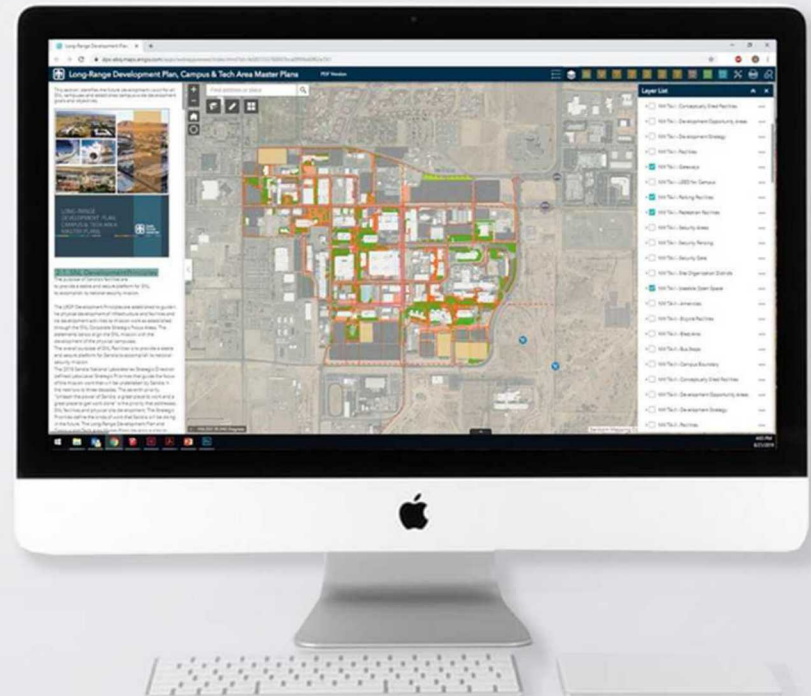
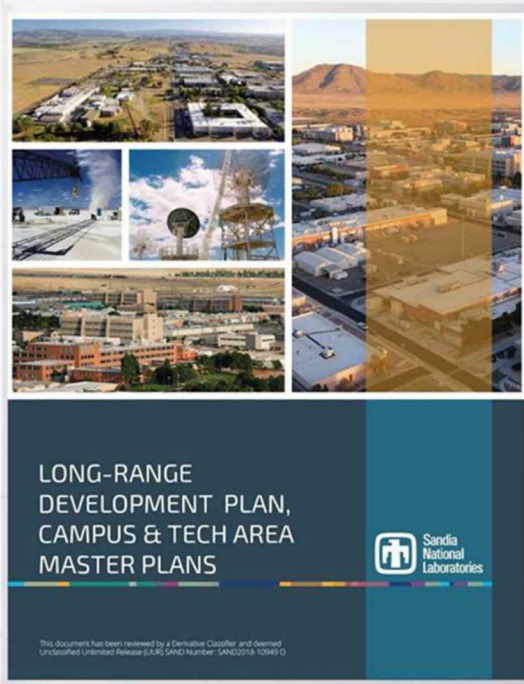


Traditional Print LRDP Overview

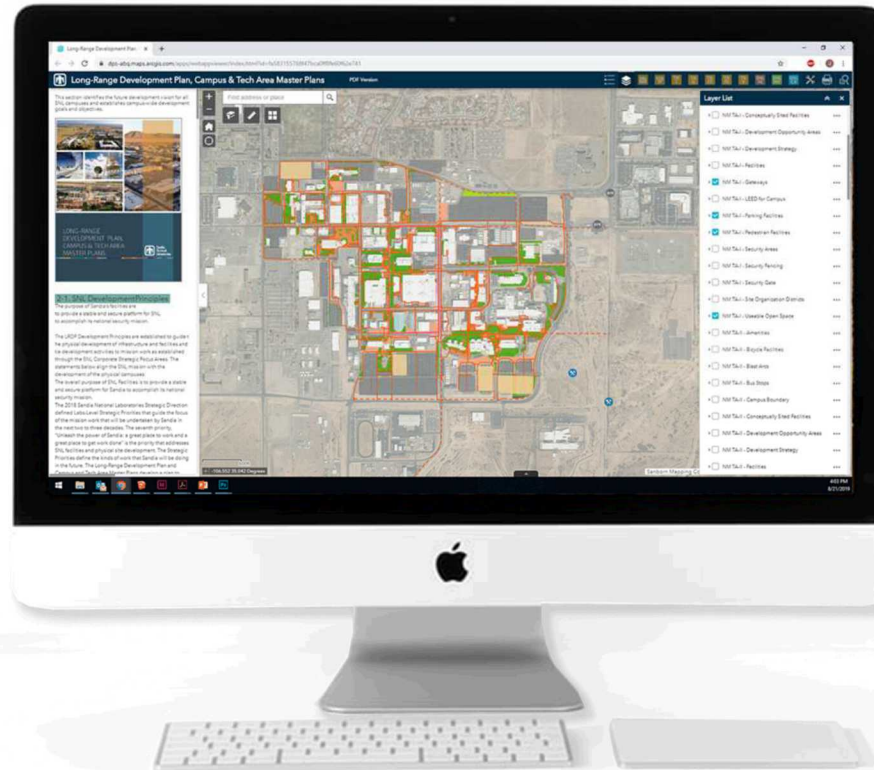


SNL LRDP PROCESS

Phase 3: Development & testing of online interface



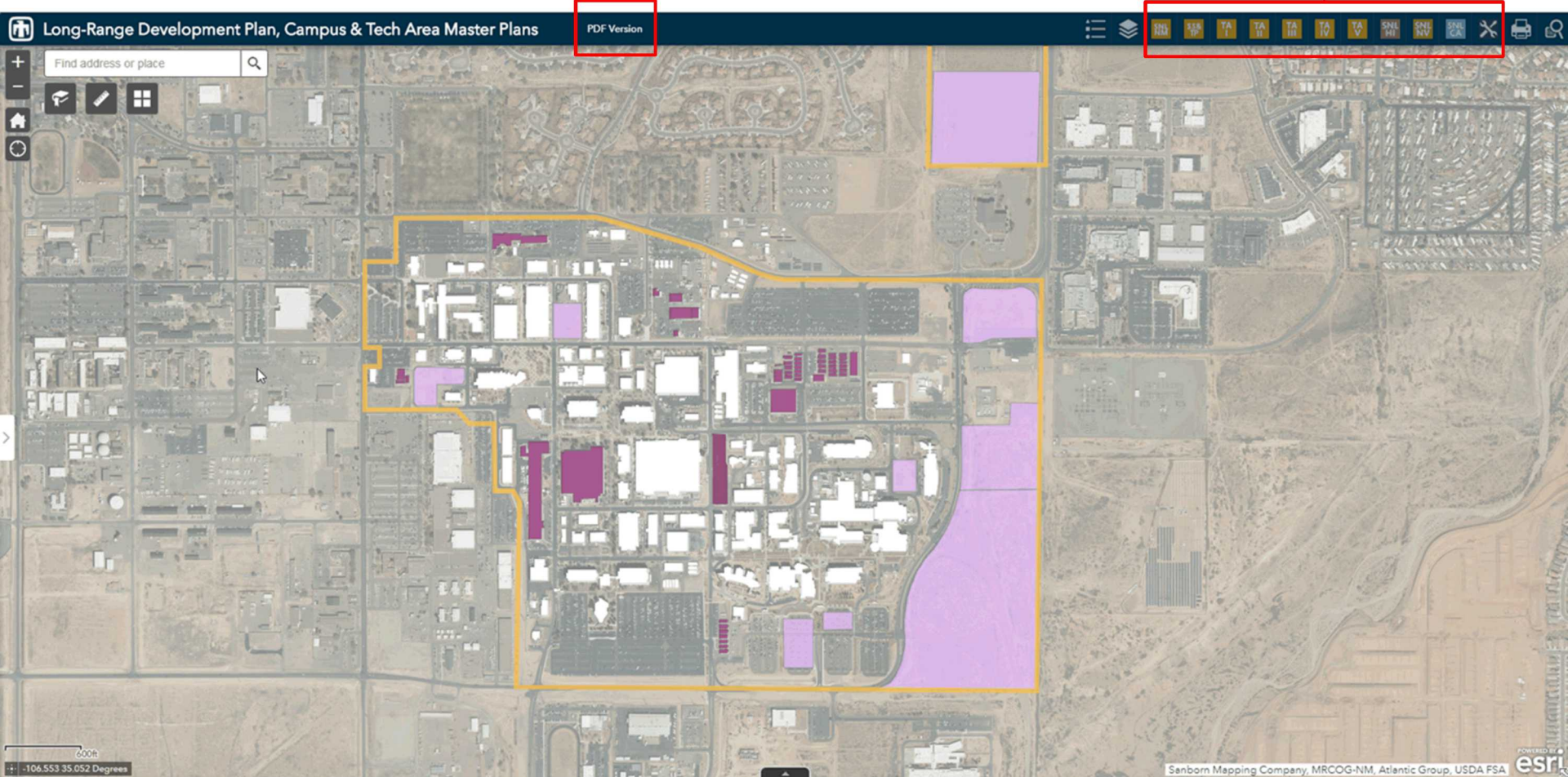
SNL LRDP Online Interface Overview



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PDF Version
is hyperlinked

About Widget
displays text



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Legend and Layer List can
toggle layers on/off



Long-Range Development Plan, Campus & Tech Area Master Plans PDF Version

Find address or place

Layer List

- NM Campus - Arroyo
- NM Campus - Base_Boundary
- NM Campus - Bus Routes
- NM Campus - Environmentally Sensitive Areas
- NM Campus - Roads
- NM TA-I - Amenities
- NM TA-I - Bicycle Facilities
- NM TA-I - Bus Stops
- NM TA-I - Campus Boundary
- NM TA-I - Conceptually Sited Facilities
- NM TA-I - Development Opportunity Areas
- NM TA-I - Development Strategy
- NM TA-I - Facilities
- NM TA-I - Gateways
- NM TA-I - LEED for Campus
- NM TA-I - Parking Facilities
- NM TA-I - Pedestrian Facilities
- NM TA-I - Security Areas
- NM TA-I - Security Fencing
- NM TA-I - Security Gate

600ft
-106.527 35.054 Degrees
Senborn Mapping Co

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Customizable widgets for Bookmarks, Measurement, and Basemap Gallery

Long-Range Development Plan, Campus & Tech Area Master Plans PDF Version

Find address or place

Legend

- NM TA-I - Campus Boundary
- NM TA-I - Development Opportunity Areas
 - Demolish
 - Vacant
- NM TA-I - Facilities
- NM TA-II - Campus Boundary
- NM TA-II - Development Opportunity Areas
 - Demolish
 - Vacant
- NM TA-II - Facilities
- NM TA-IV - Campus Boundary
- NM TA-IV - Development Opportunity Areas
 - Vacant
- NM TA-IV - Facilities

2-1. SNL Development Principles

The purpose of Sandia's facilities are to provide a stable and secure platform for SNL to accomplish its national security mission.

The LRDP Development Principles are established to guide the physical development of infrastructure and facilities and tie development activities to mission work as established through the SNL Corporate Strategic Focus Areas. The statements below align the SNL mission with the development of the physical campuses:

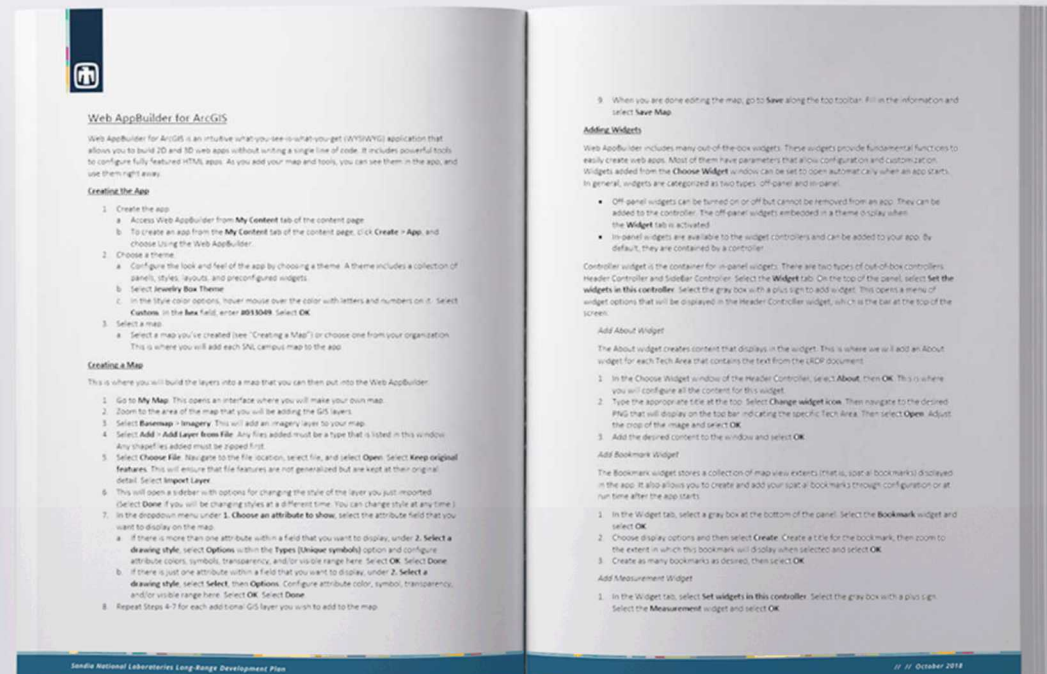
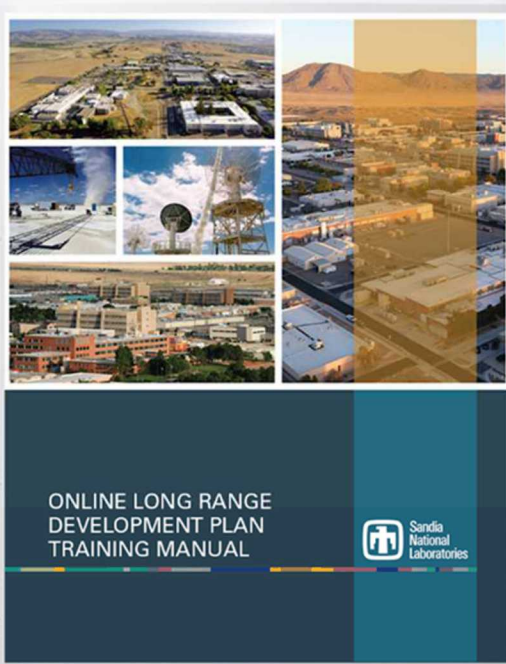
The overall purpose of SNL Facilities is to provide a stable and secure platform for Sandia to accomplish its national security mission.

The 2018 Sandia National Laboratories Strategic Direction defined Labs-Level Strategic Priorities that guide the focus of the mission work that will be undertaken by Sandia in the next two to three decades. The seventh priority, "Unleash the power of Sandia: a great place to work and a great place to get work done" is the priority that addresses SNL facilities and physical site development. The Strategic Priorities define the kinds of work that Sandia will be doing

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SNL LRDP PROCESS

Phase 4: Data transfer & Training



SNL's Utilization of the Tool

- SNL is currently using the web maps primarily within the Planning Department as a tool to access site development information.
- Future plans for the tool include broader outreach as Sandia expands our corporate GIS program



CAMPUS PLANNING **TRENDS**

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User Focused Organizational Web Maps

Long-Range Development Plan, Campus & Tech Area Master Plans PDF Version

Find address or place

This section identifies the future development vision for all SNL campuses and establishes campus-wide development goals and objectives.

Legend

- NM TA-I - Campus Boundary
- NM TA-I - Development Opportunity Areas
 - Demolish
 - Vacant
- NM TA-I - Facilities
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600ft
-106.549 35.057 Degrees
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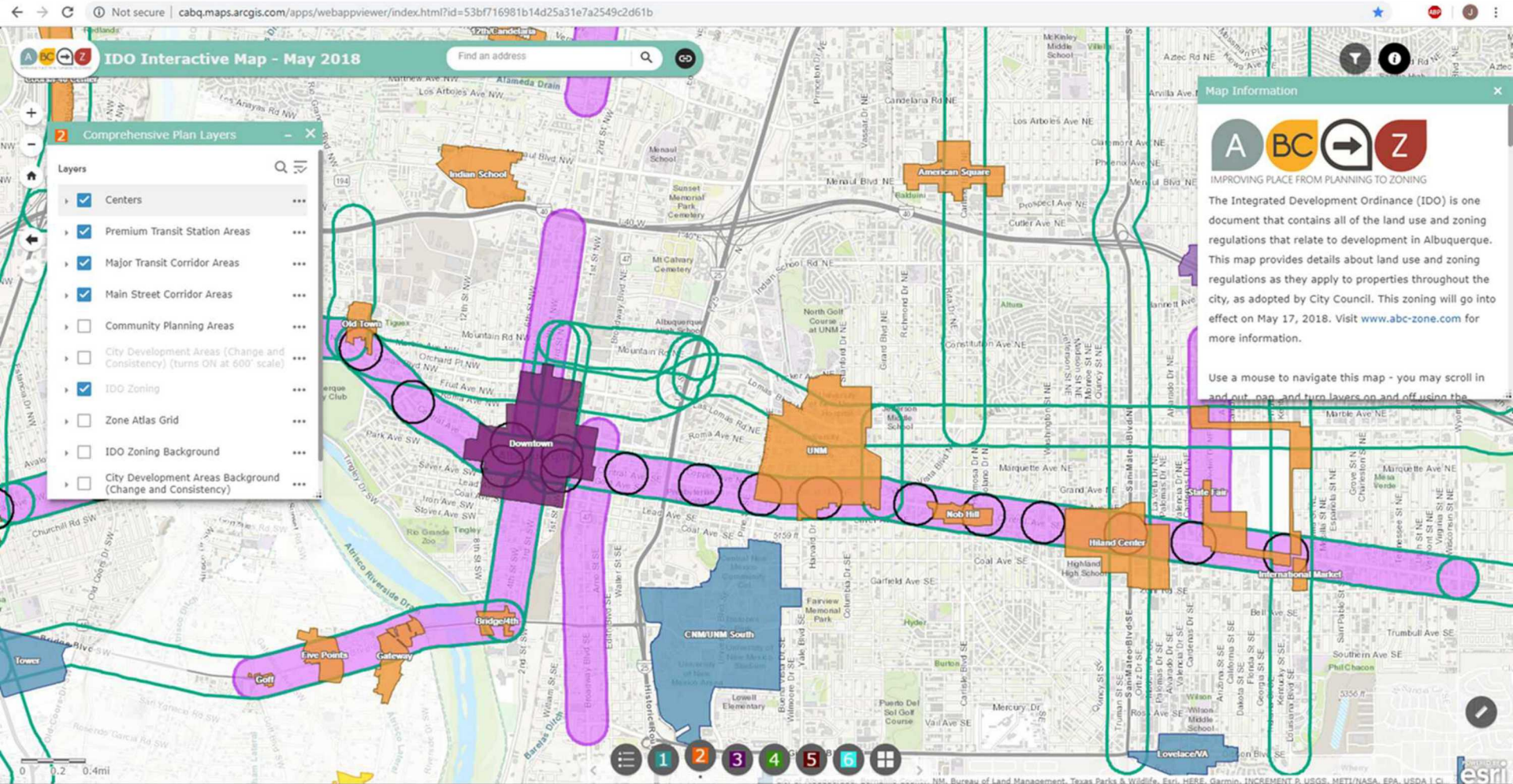
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User Focused Municipal Web Maps





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Scenario Based Campus Planning Softwares

Question: What type of trends are you seeing?

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Scenario Based Campus Planning Softwares

What software are you using?

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User Focused University Campus Apps



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Case Studies



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POCKET PARKS

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Case Studies



City Centre Master Plan 2014

1. A River Lifestyle

VIRTUAL BRISBANE

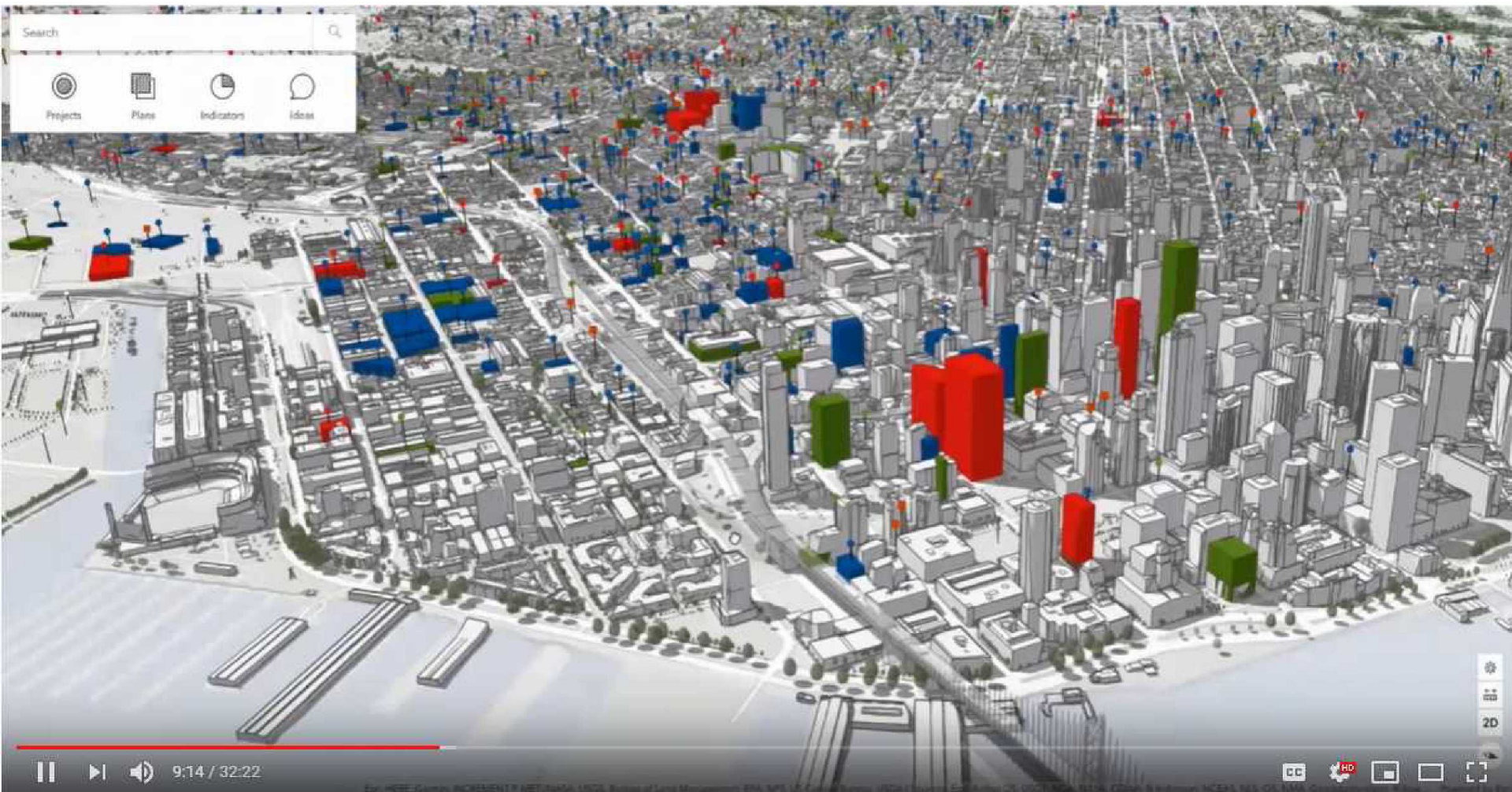


Discover the new Brisbane

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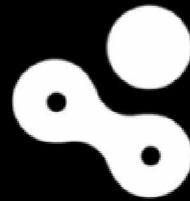
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Case Studies



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Question?