

# CAIS – Leveraging “Tools”

## Projects and RN/DM Reduction Tracking



Amy G. Lizarraga, Facilities & Operations

October 22-23, 2024



### Location

426 Acres  
3 miles from Stanford  
Centrally located in Silicon Valley

### Impact

12 Core Capabilities  
5 User Facilities  
6 Institutes & Centers

### Assets

382 assets: 2.4M GSF and ~445,500 linear feet  
Average age of facilities: 40 years  
Utility infrastructure backbone: 50+ years old

# Agenda

SLAC Overview

SLAC Science Mission

SLAC Growth. 1960s-2020s

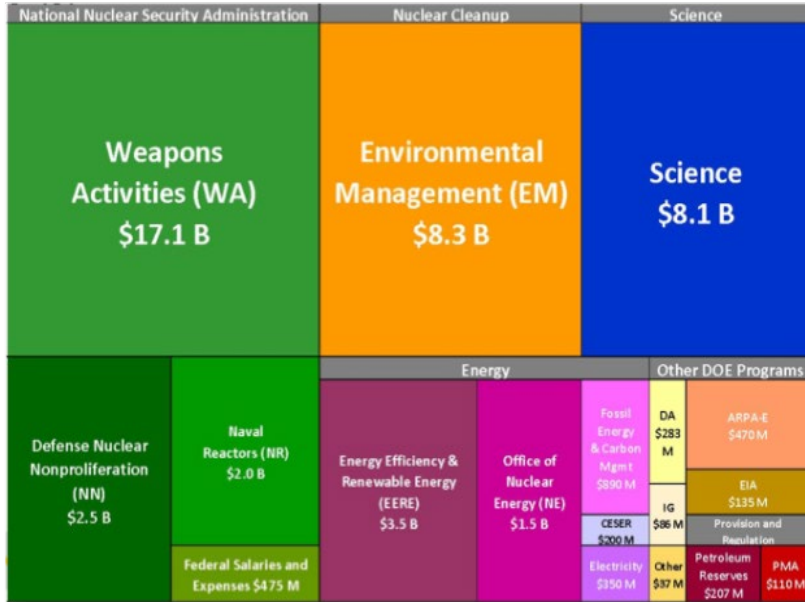
SLAC Infrastructure Today

Infrastructure Planning – Data Driven Decisions

- project development example

CAIS Projects Module

# Department of Energy National Laboratories



17 National Laboratories:

- National security, nuclear weapons stewardship, nuclear non-proliferation
- Environment and energy
- **Science**

## Office of Science Laboratories

- 1 Ames National Laboratory  
Ames, Iowa
- 2 Argonne National Laboratory  
Argonne, Illinois
- 3 Brookhaven National Laboratory  
Upton, New York
- 4 Fermi National Accelerator Laboratory  
Batavia, Illinois
- 5 Lawrence Berkeley National Laboratory  
Berkeley, California
- 6 Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 7 Pacific Northwest National Laboratory  
Richland, Washington
- 8 Princeton Plasma Physics Laboratory  
Princeton, New Jersey
- 9 SLAC National Accelerator Laboratory  
Menlo Park, California
- 10 Thomas Jefferson National Accelerator Facility  
Newport News, Virginia

## Other DOE Laboratories

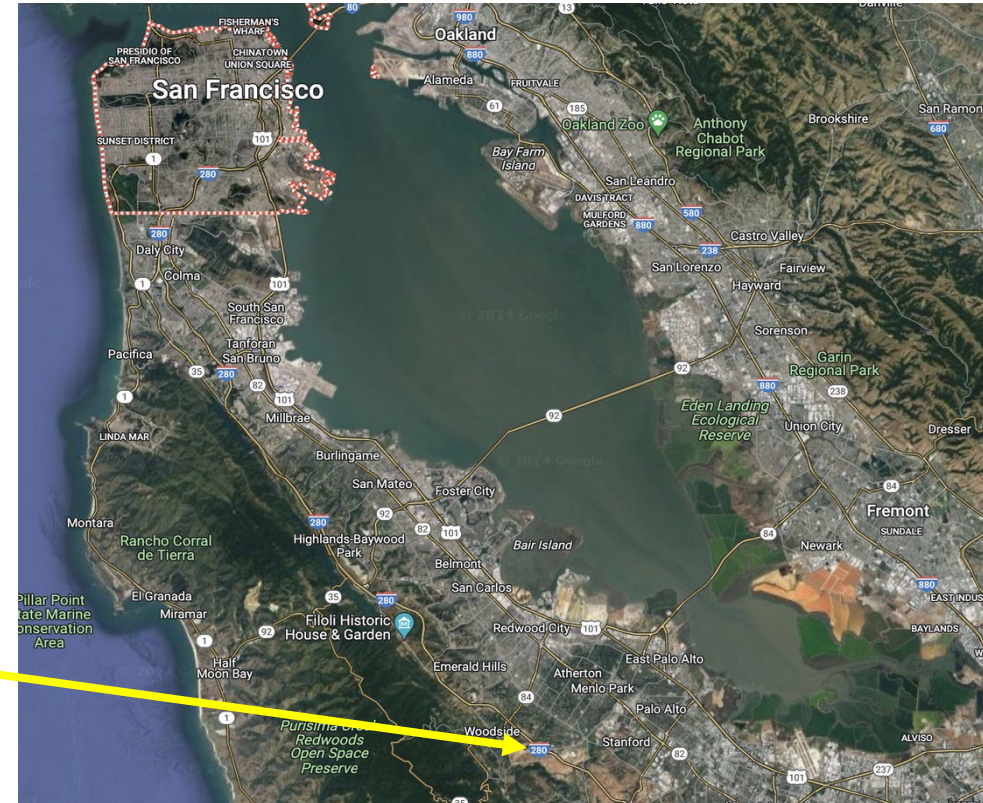
- 1 Idaho National Laboratory  
Idaho Falls, Idaho
- 2 National Energy Technology Laboratory  
Morgantown, West Virginia  
Pittsburgh, Pennsylvania  
Albany, Oregon
- 3 National Renewable Energy Laboratory  
Golden, Colorado
- 4 Savannah River National Laboratory  
Aiken, South Carolina

## NNSA Laboratories

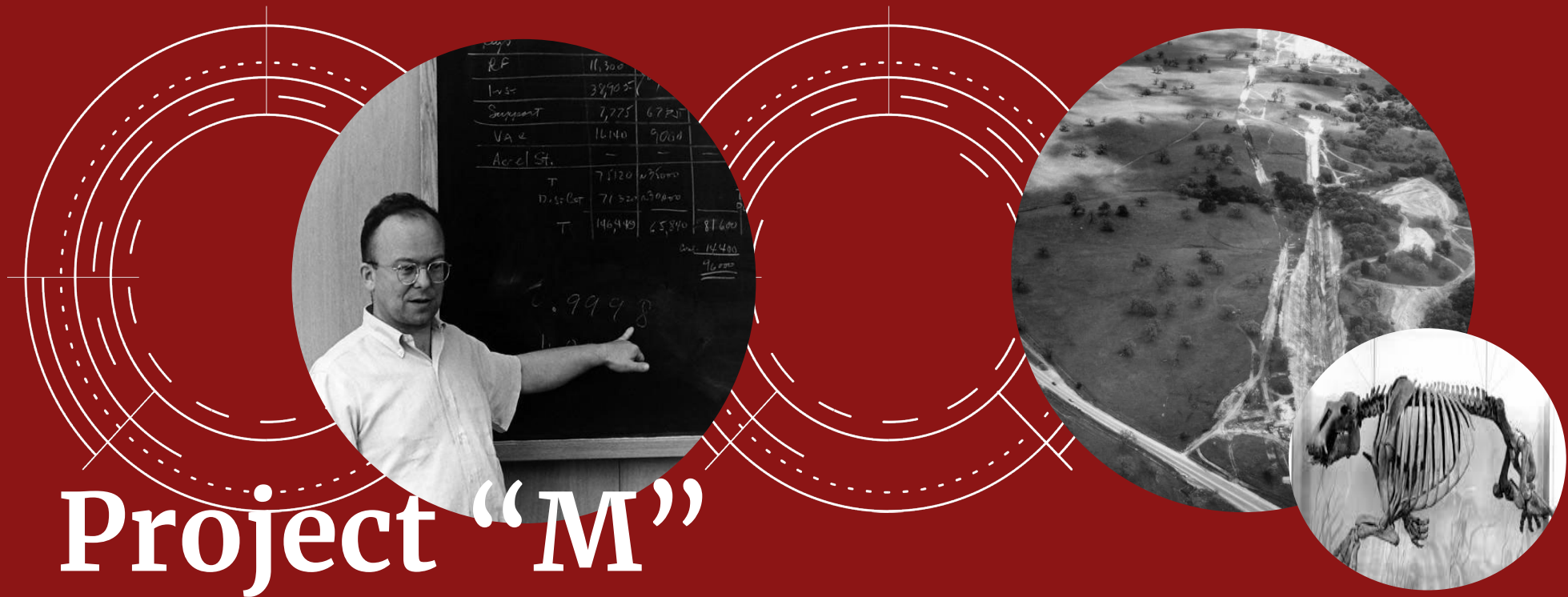
- 1 Lawrence Livermore National Laboratory  
Livermore, California
- 2 Los Alamos National Laboratory  
Los Alamos, New Mexico
- 3 Sandia National Laboratories  
Albuquerque, New Mexico  
Livermore, California



# First glance: Along Interstate 280 between San Francisco and San Jose



# Science at Scale: The “Monster”

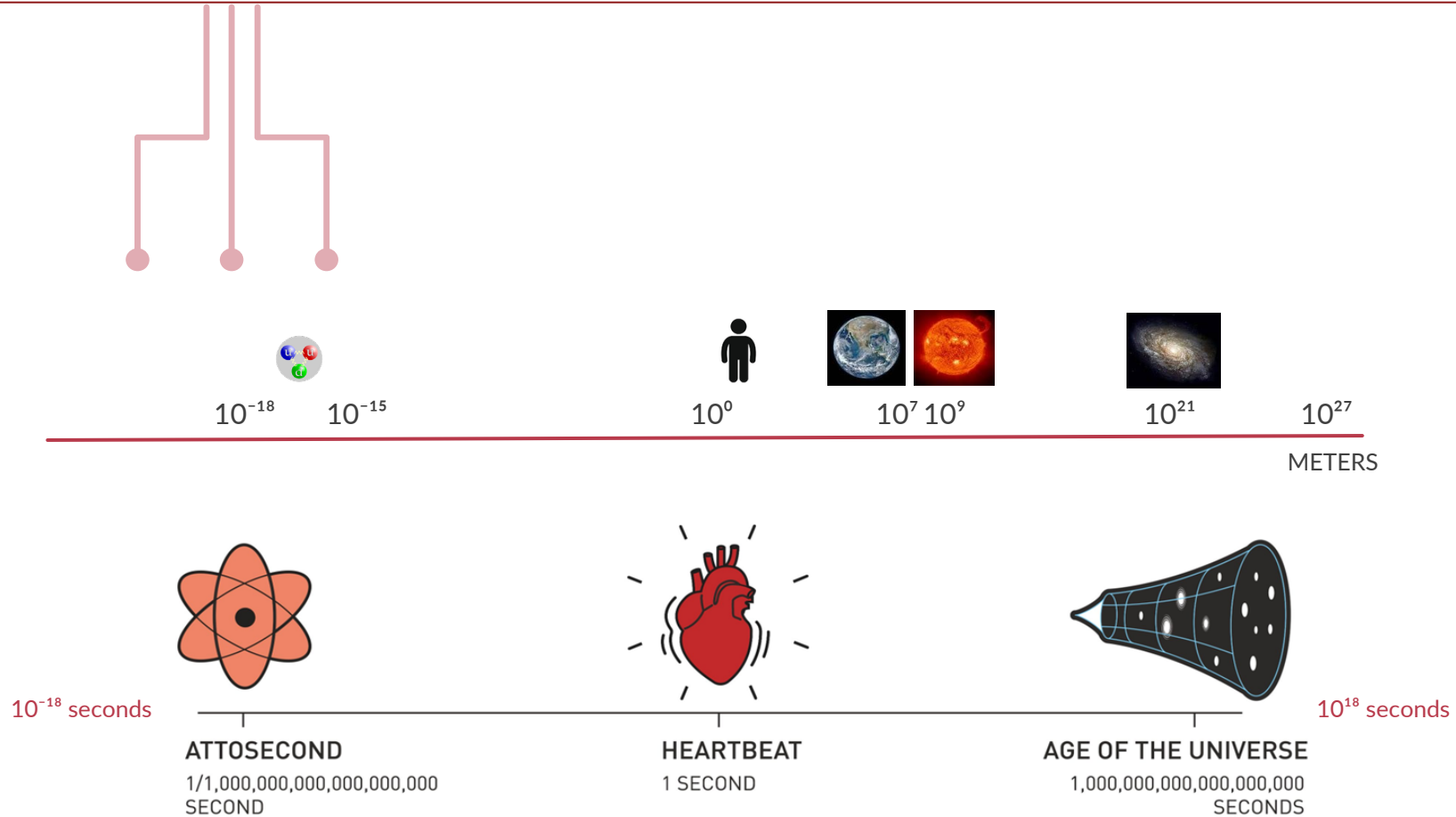


## Project “M”

A gigantic linear electron accelerator + land from Stanford University\* = 2 mile chain of RF cavities to accelerate electrons to 20 billion electron volts at 99.9999997% the speed of light.

\*We start with a recognition that Stanford sits on the ancestral land of the Muwekma Ohlone Tribe. This land is of great importance to the Ohlone people, and has been since time immemorial. Consistent with our values of community and diversity, we have a responsibility to acknowledge, honor and make visible the university's relationship to Native peoples.

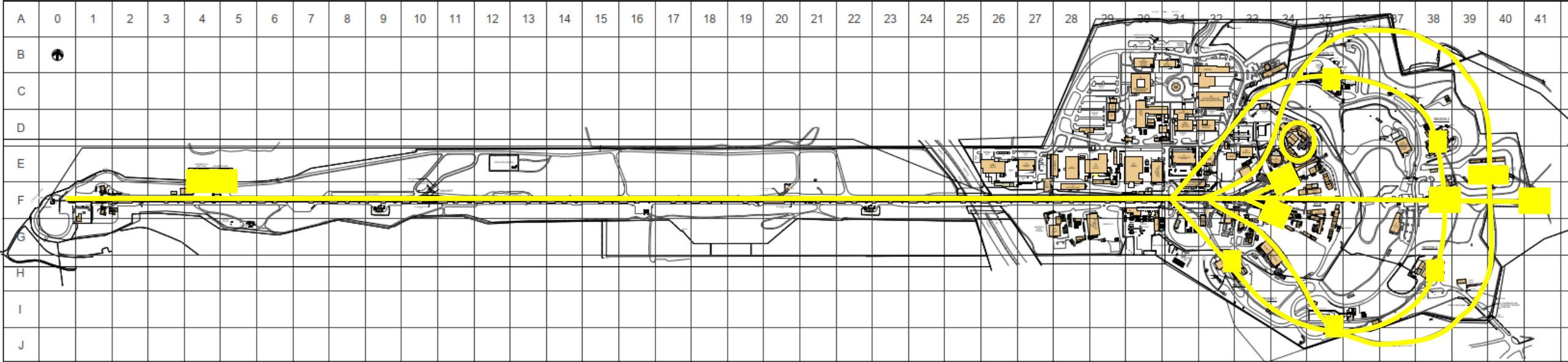
# Science at Scale: SLAC Today



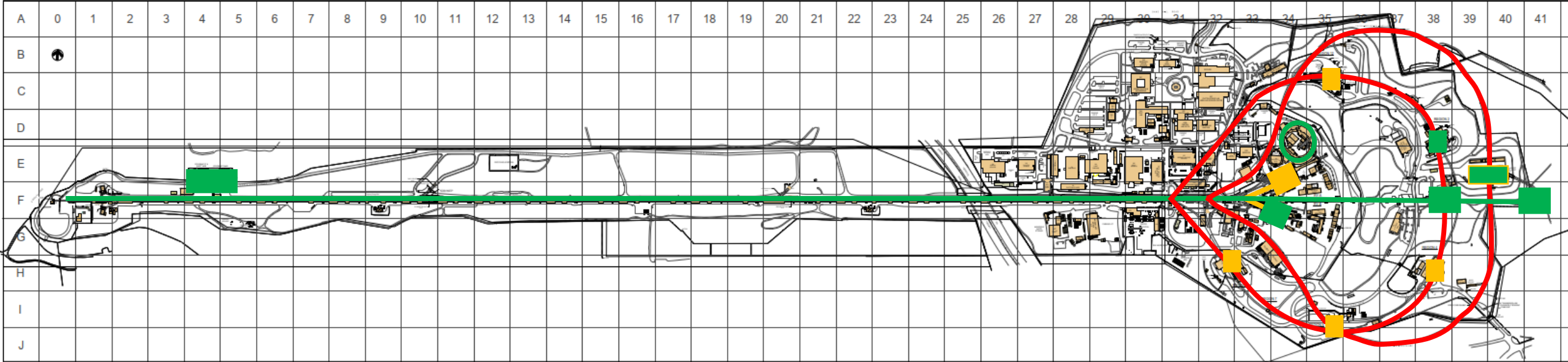
Electrons' movements in atoms and molecules are so rapid that they are measured in attoseconds. An attosecond is to one second as one second is to the age of the universe.

©Johan Jarnestad/The Royal Swedish Academy of Sciences

# SLAC Growth: 1960s-2020s



# SLAC Science Mission Today



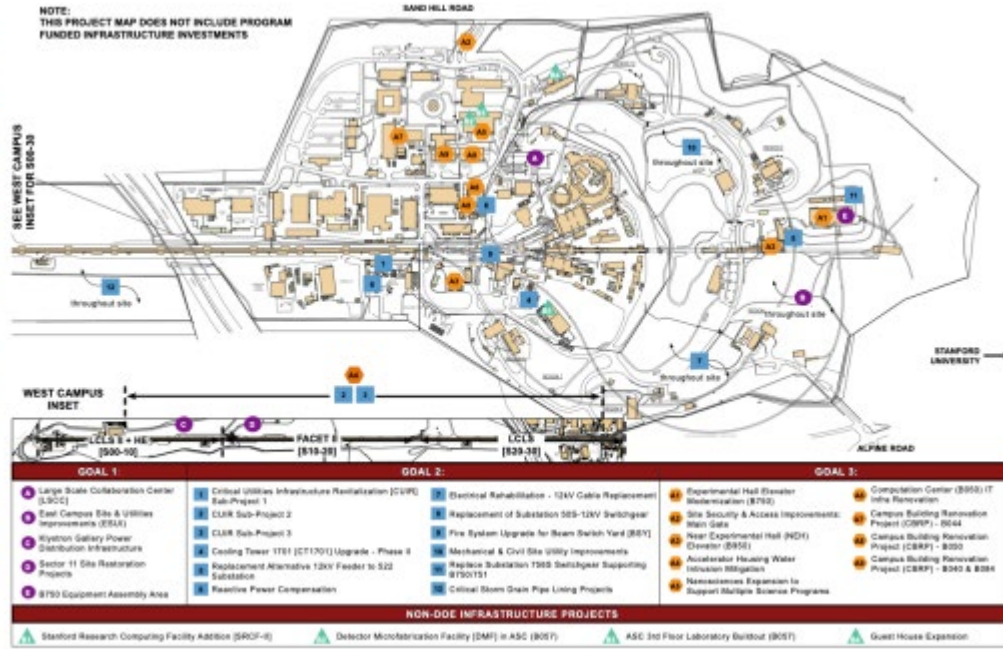


# Campus Strategy: Infrastructure & Campus Planning

## SLAC National Accelerator Laboratory Annual Laboratory Plan FY 2024



Figure 2: SLAC's 10-Year Planned Facility and Infrastructure Investments



		Low	High	Low	High	Low	High	FY24 Low	FY24 High	FY25 Low	FY25 High	Remaining Balance Low	Remaining Balance High
Mission	\$8,760,577/ \$1,476,216	\$48,713	\$28,804	\$28,956	\$21,811	\$21,368	\$82,431	\$82,594	\$88,886	\$89,035	\$89,336	\$208,318	\$1,379,228
Core Infrastructure	\$273,630	\$45,000	\$1,500	\$9,500	\$8,000	\$5,000	\$42,000	\$78,000	\$6,000	\$6,000	\$23,000	\$23,000	\$211,500
Other	\$498,813/ \$218,063	\$8,688	\$4,200	\$8,800	\$8,800	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$33,800
<b>Total</b>		\$278,401	\$32,504	\$46,656	\$39,611	\$41,768	\$124,431	\$160,594	\$104,886	\$95,035	\$112,336	\$241,318	\$1,612,728

Table 2.2 - Funding for Selected Funding Types

		FY23	FY24 Low	FY24 High	FY25 Low	FY25 High	FY26 Low	FY26 High	FY27 Low	FY27 High	FY28 Low	FY28 High	FY29 Low	FY29 High	Remaining Balance Low	Remaining Balance High
LI-SLI	\$351,500/ \$368,000	\$45,000	\$1,500	\$9,500	\$8,000	\$5,000	\$42,000	\$78,000	\$6,000	\$6,000	\$23,000	\$23,000	\$23,000	\$23,000	\$211,500	\$318,500
LI-SC Program	\$3,311,500/ \$1,355,500	\$9,800	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$25,000	\$1,250,000
GPP-SLI	\$48,524/ \$5,688	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
GPP-Prog	\$68,264/ \$12,655	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
<b>Total</b>		\$64,800	\$11,500	\$19,500	\$18,000	\$15,000	\$52,000	\$88,000	\$6,000	\$6,000	\$23,000	\$23,000	\$23,000	\$23,000	\$236,500	\$1,468,500

Laboratory Name: SLAC National Accelerator Laboratory  
Tab 3: Lab Funded (Indirect) Table and Chart

Funding Categories	FY23 Actual	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35
Maint - Indirect Only	\$ 17,450	\$ 17,974	\$ 18,513	\$ 19,068	\$ 19,640	\$ 20,230	\$ 20,837	\$ 21,462	\$ 22,105	\$ 22,769	\$ 23,452	\$ 24,155	\$ 24,880
IGPP*	\$ 1,749	\$ 5,951	\$ 6,130	\$ 6,313	\$ 6,503	\$ 6,698	\$ 6,899	\$ 7,106	\$ 7,319	\$ 7,539	\$ 7,765	\$ 7,998	\$ 8,238
Indirect Excess Facilities Disposition /D&O/ Legacy Waste Removal	\$ 723	\$ 342	\$ 685	\$ 250	\$ 158	\$ 265	\$ 273	\$ 281	\$ 290	\$ 299	\$ 307	\$ 317	\$ 326
<b>Total</b>	\$ 19,922	\$ 24,267	\$ 25,328	\$ 25,632	\$ 26,401	\$ 27,193	\$ 28,009	\$ 28,849	\$ 29,714	\$ 30,606	\$ 31,524	\$ 32,470	\$ 33,444

# Infrastructure Planning: Data-Driven Decisions (NAVFAC Example)

<b>Cover Sheet/Team List for:</b> Project Title: F-35C Maintenance Hangar A Location: LEMOORE, CALIFORNIA Prepared By: NAS LEMOORE CA		1. Component: NAVY FY 2021 MILITARY CONSTRUCTION PROGRAM		1. Component: NAVY FY 2021 MILITARY CONSTRUCTION PROGRAM		1. Component: NAVY FY 2021 MILITARY CONSTRUCTION PROGRAM		12. Supplemental Data: Site Approval: <input checked="" type="checkbox"/> Yes, obtained date: 02/2018 <input type="checkbox"/> No, expected date: Issues (if yes, please provide discussion under issue): Yes No <input type="checkbox"/> DDESB, AICUE, Airfield, EMR, or wetlands <input checked="" type="checkbox"/> Endangered species/sensitive habitat <input checked="" type="checkbox"/> Air quality																																		
<b>A. Team Check List:</b> Completed: <input type="checkbox"/> <b>B. Team Meeting:</b> Date: _____ On-Site: <input type="checkbox"/> VTC: <input type="checkbox"/> Conf: <input type="checkbox"/>		3. Installation(SA) and Location/UIC: N63042 NAS LEMOORE CA LEMOORE, CALIFORNIA		3. Installation(SA) and Location/UIC: N63042 NAS LEMOORE CA LEMOORE, CALIFORNIA		3. Installation(SA) and Location/UIC: N63042 NAS LEMOORE CA LEMOORE, CALIFORNIA		DD Form 1391C Project Details ID: 182622 Level: REGN/FEC_TEAM_RIDraft: POM21 P391 F-35C TWO MOD ADDITION (HGR 6)																																		
<b>C. Team Members:</b> Name: _____ Position: _____		5. Program Element: _____ 6. Category Code: 21105 9. COST ESTIMATE Item: F-35C MAINTENANCE HANGAR ADDITION AIRCRAFT MAINTENANCE HANGAR TYPE I CC01105 (110,7928F) AIRCRAFT PAVEMENTS CC11320 (876,7268F) AME OPERATIONAL STORAGE CC14377 (3,6728F) CYBERSECURITY FEATURES SPECIAL COSTS OPERATION & MAINTENANCE SUPP INFO (OMSI)		5. Program Element: _____ 6. Category Code: 21105 10. Description of Proposed Construction The Using Activity for this project is plan FLEET NAS. Construct a two module multi-story aircraft hangar (Hangar6) in support of F-35C Joint NAS Lemoore. The hangar will be constructed on a combination of steep slope standing pile foundation. The facility will include space; and operations, training, and administration. Comply with Intelligence Community Directive Secure Access Program Facility (SAPF) space.		5. Program Element: _____ 6. Category Code: 21105 This project will provide AT/FP features a security mitigation in accordance with DoD User Generated Unit Cost (UGUC) is used for unit costs. Built-in equipment includes overhead bridge aircraft service stations/kiosks at apron power, and fire suppression storage tanks.		DD Form 1391C Project Details ID: 182622 Level: REGN/FEC_TEAM_RIDraft: POM21 P391 F-35C TWO MOD ADDITION (HGR 6)																																		
<b>D. Remarks:</b> Signature: _____ Position: _____		SUPPORTING FACILITIES SPECIAL CONSTRUCTION FEATURES SITE PREPARATIONS PAVING AND SITE IMPROVEMENTS ELECTRICAL UTILITIES MECHANICAL UTILITIES SUBTOTAL CONTINGENCY (20%) TOTAL CONTRACT COST SION (5.7%) SUBTOTAL DESIGN/BUILD - DESIGN COST (4%) TOTAL REQUEST ROUNDED TOTAL REQUEST EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)		10. Description of Proposed Construction (cont.) Construct Alternate Mission Equipment (AME) armament which will only be used during sp aircraft. These items are to stay with the Facility-related control systems include c; Department of Defense criteria. Secret Internet Protocol Router Network (SIR) with Intelligence Community Guidance. Information systems include basic telephon television, Autonomic Logistics Information Detection System and cameras, fire alarm s;		Special costs include Post Construction Co commissioning. The cybersecurity commissio submittals, administrative actions and com cybersecurity requirements as well as DON' and to implement steps necessary for obtai include monitoring during SAPF constructio Security Technicians and Cleared American accordance with Intelligence Community gui observe the construction to ensure there a compromise the SAPF. Operations and Maintenance Support Informa Department of Defense and Department of th sustainable building requirements will be project in accordance with federal laws an be included in the design and construction Demolition includes removal of existing as existing taxiway edge lighting, abandoned shoulder. Facilities will be designed to m in DoD Unified Facility Criteria. Facilities will incorporate features that solutions satisfying the facility requirem efficiency.		DD Form 1391C Project Details ID: 182622 Level: REGN/FEC_TEAM_RIDraft: POM21 P391 F-35C TWO MOD ADDITION (HGR 6)																																		
<b>F. Sign Offs:</b> Signature: _____ Position: _____		Guidance Unit Cost Analysis <table border="1"> <thead> <tr> <th>Cat Code</th> <th>Facility</th> <th>OSD Guid.</th> <th>Guid. Cost</th> <th>Guid. Size</th> </tr> </thead> <tbody> <tr> <td>11340</td> <td>AIRCRAFT PAVEMENTS</td> <td></td> <td>236.68</td> <td>2707.38</td> </tr> <tr> <td>11320</td> <td>AIRCRAFT PAVEMENTS</td> <td></td> <td>236.68</td> <td>40795.4</td> </tr> <tr> <td>21107</td> <td>AIRCRAFT MAINTENANCE HANGAR TYPE I</td> <td></td> <td>3,824.73</td> <td>2449.11</td> </tr> <tr> <td>14377</td> <td>AME OPERATIONAL STORAGE</td> <td></td> <td>3,014.01</td> <td>341.14</td> </tr> <tr> <td>21105</td> <td>AIRCRAFT MAINTENANCE HANGAR TYPE I</td> <td></td> <td>8,400.00</td> <td>4191.23</td> </tr> <tr> <td>11210</td> <td>AIRCRAFT PAVEMENTS</td> <td></td> <td>236.68</td> <td>23783.4</td> </tr> </tbody> </table>		Cat Code	Facility	OSD Guid.	Guid. Cost	Guid. Size	11340	AIRCRAFT PAVEMENTS		236.68	2707.38	11320	AIRCRAFT PAVEMENTS		236.68	40795.4	21107	AIRCRAFT MAINTENANCE HANGAR TYPE I		3,824.73	2449.11	14377	AME OPERATIONAL STORAGE		3,014.01	341.14	21105	AIRCRAFT MAINTENANCE HANGAR TYPE I		8,400.00	4191.23	11210	AIRCRAFT PAVEMENTS		236.68	23783.4	11. Requirement: Adequate FACILITY PLANNING DATA: Category Code: 21105 Requirement: 78632 SPACE (CREW AND EQUIPMENT)		DD Form 1391C Project Details ID: 182622 Level: REGN/FEC_TEAM_RIDraft: POM21 P391 F-35C TWO MOD ADDITION (HGR 6)	
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# CAIS Project Module

CAIS Condition Assessment Information System U.S. Department of Energy


Assets Reporting Administration Archive Tools Help FIMS Logout

Property ID Search & Press Enter


CAIS HOME




## U. S. Department of Energy Condition Assessment Information System




### Assets




### Estimating



### Custom RPV




### Mobile IU



### Quick Links

- [CAIS Data Element Dictionary](#)
- [CAIS User Guide](#)
- [Points of Contact](#)

### FIMS



### Contacts

CAIS Help  
fims\_cais\_help@hq.doe.gov  
(202) 287-1397

<https://fims.doe.gov/FIMSCAIS/#>

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# CAIS: Project Module – Project List

Field Office: Science Field Office Site Name: SLAC National Accelerator Laboratory

Project List							
Select Project	Project ID	Project Name	Official Cost Estimate	Actual Cost	Project Start Date	Project Complete Date	Created By
<input type="checkbox"/>	<a href="#">B002_Roof</a>	Replace Klystron Gallery Roof	\$7,094,684		01/01/2019		Lizarraga, Amy
<input type="checkbox"/>	<a href="#">CT</a>	1701 Cooling Towers	\$0	\$9,400,000	01/01/2019	04/01/2020	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0017</a>	Civil/Road/Parking Lot Maint	\$2,813,798	\$600,000	10/01/2024		Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0023</a>	BSY Fire System Upgrades	\$390,767	\$60,000	10/01/2024	09/30/2025	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0042</a>	B048 Roof Restoration	\$4,012	\$595,293			Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0044</a>	Replace B044 Roof	\$1,413,474	\$1,500,000	10/01/2024	09/30/2025	Zontos, Nick
<input type="checkbox"/>	<a href="#">FMP0045</a>	B620 (IR-2) Roof Replacement	\$218,744	\$500,000	10/01/2024	09/30/2025	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0046</a>	B120 Replacement	\$175,786	\$900,000	10/01/2024	09/30/2025	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0047</a>	B040/040A Roof Repairs	\$516,129	\$320,000	10/01/2024	09/30/2025	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0063</a>	Replace Non-Operable 25S	\$2,647,729	\$2,200,000	10/01/2021	09/30/2025	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0065</a>	Site Security & Access - Main	\$84,992	\$5,600,000	10/02/2023	09/30/2026	Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0067</a>	1801 LCW Pump Project	\$1,102,998	\$920,000	10/01/2021		Lizarraga, Amy
<input type="checkbox"/>	<a href="#">FMP0112</a>	B040/084 Rear Dock Access	\$454,381	\$600,000	10/01/2024	09/30/2025	Lizarraga, Amy
<input type="checkbox"/>		SPEAR Booster TNL H2O					

# CAIS: Project Module – Project Example 1



Condition Assessment Information System  
U. S. Department of Energy

Assets Reporting Administration Archive Tools Help FIMS Logout

Property ID Search & Press Enter

## Project Detail

Field Office: Science Field Office Site Name: SLAC National Accelerator Laboratory

Project ID: FMP0045

Project Name: B620 (IR-2) Roof Replacement

Official Cost Estimate: \$218,744

Total Repair Needs: \$218,744

Program Manager: Matt Christopher

Project Manager: Kyle Ko

Total DM: \$218,744

Total Modernization: \$0

Approval Date: 10/01/2024

IUs Locked: No

Total Non-DM: \$0

Project Start Date: 10/01/2024

Project Complete Date: 09/30/2025

Actual Cost: \$500,000

Project Status: Prioritized - Funded, In Progress

Project Type: Maintenance

In-House Labor: No

Funding Request Date: 10/01/2024

Funding Source: Indirect

Funding Type: Indirect

Last Updated By: Lizarraga, Amy

Last Updated: 10/21/2024

Project Description: (limit 2000 characters)

Issue: 620 roof is in poor condition, at end of service life, and corrective repairs are becoming more frequent and costly. Scope: 620 roof system must be replaced. 3,800 SF

Operational Impact: 620 roof has significant water intrusion every rainy season which impacts the clean rooms located within. Corrective repairs are costly and ineffective as entire roofing system deteriorates further every year.

### Project IUs

Select	Property ID	IU Number	Official Cost	RN	DM	Modernization
<input type="checkbox"/>	620	4250	\$218,744	Y	Y	N

# CAIS: Project Module – Project Example 2

Condition Assessment Information System  
U. S. Department of Energy

Assets Reporting Administration Archive Tools Help FIMS Logout

Property ID

Search & Press Enter

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Project Detail

**Field Office:** Science Field Office    **Site Name:** SLAC National Accelerator Laboratory

Project ID:

Program Manager:

Approval Date:

Project Start Date:

Project Status:

Funding Request Date:

Last Updated By:

Project Name:

Project Manager:

IUS Locked:

Project Complete Date:

Project Type:

Funding Source:

Last Updated:

Cost Estimate:

Total DM:

Total Non-DM:

Actual Cost:

In-House Labor:

Funding Type:

Total Repair Needs:

Total Modernization:

Project Description: (limit 2000 characters)

Subproject 1 – Critical Electrical System Improvements (FY 2022 to FY 2030). Modernize the electrical system through expansion of the existing Master Substation Building, replacement of the existing vintage 12.47-kV (kilovolt) trans substation (K-5B), and installation of new electrical 12.47-kV feeder pathways along the Klystron Gallery to increase power distribution capacity and overall reliability to the linear accelerator. CUIR will also install modern supervisory further enhance energy metering and energy dashboard capabilities, aligned with DOE's energy tracking and operational efficiency goals.

Project IUs							
Select		Property ID	IU Number	Official Cost	RN	DM	Modernization
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>		016S	<u>190506</u>	\$5,822	Y	N	N
<input type="checkbox"/>		016S	<u>190509</u>	\$29,898	Y	N	N
<input type="checkbox"/>		E-T1	<u>500Z</u>	\$2,000,923	Y	Y	N
<input type="checkbox"/>		E-MV-S2 Dist.	<u>212271</u>	\$1,134,250	Y	Y	N

Link IU
 Unlink IU
 Save
 Return to List

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# CAIS: Project Module - Then What ???

CAIS Condition Assessment Information System  
U.S. Department of Energy

Assets Reporting Administration Archive Tools Help FIMS Logout

Property ID Search & Press Enter

Standard Reports

Ad Hoc Report

Title	Category
001 - General Asset List Report	Asset Level Report
002 - System Level Deficiency Cost	Asset Level Report
003 - Deferred Maintenance Report	Asset Level Report
004 - Condition Index Report	Asset Level Report
005 - Complete IU Detail Report	Inspection Unit
006 - Project Detail Report	Project Report
007 - Condition and Deferred Maintenance Indexes	Asset Level Report

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Project ID	Project Name	Project Start Date	Project Complete Date	Project Status	Approval	Funding Request Date	Funding Type	Funding Source	Property ID	IU Number	Description	Official Cost	Repair Needs	Deferred Maintenance	Non-DM				
B002	Roof	Replace Klystron Gallery Roof	01/01/2019		Prioritized - Funded, In Progress	01/01/2019	Indirect	Indirect	002	190479	Repair Roof Sectors 21-25	\$1,484,006	\$1,484,006	\$0	\$1,484,006				
B002	Roof	Replace Klystron Gallery Roof	01/01/2019		Prioritized - Funded, In Progress	01/01/2019	Indirect	Indirect	002	217450	Repair Roof Sectors 26-30	\$1,484,006	\$1,484,006	\$0	\$1,484,006				
B002	Roof	Replace Klystron Gallery Roof	01/01/2019		Prioritized - Funded, In Progress	01/01/2019	Indirect	Indirect	002	217451	Repair Roof Sectors 11-15	\$1,484,006	\$1,484,006	\$0	\$1,484,006				
B002	Roof	Replace Klystron Gallery Roof	01/01/2019		Prioritized - Funded, In Progress	01/01/2019	Indirect	Indirect	002	217452	Repair Roof Sectors 16-20	\$1,484,006	\$1,484,006	\$0	\$1,484,006				
B002	Roof	Replace Klystron Gallery Roof	01/01/2019		Prioritized - Funded, In Progress	01/01/2019	Indirect	Indirect	002	217453	Repair Roof Sector 7-10	\$1,158,660	\$1,158,660	\$0	\$1,158,660				
CT	1701	Cooling Towers	01/01/2019	04/01/2020	Prioritized - Funded, In Progress	01/01/2019	GPP - General Planned Project	SLI - Science Line Item				\$0	\$0	\$0	\$0				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	1904	Repave Asphalt Lot Near Sector 3	\$16,082	\$16,082	\$0	\$16,082				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	4474	Repair Asphalt Pavement (Near B)	\$326,056	\$326,056	\$0	\$326,056				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	4477	Mill, Overlay, and Restripe Asphalt	\$226,003	\$226,003	\$0	\$226,003				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	190560	Sealcoat Asphalt Parking Lot (Near 9)	\$9,410	\$9,410	\$0	\$9,410				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	190561	Repave Asphalt Lot Near Building	\$339,004	\$339,004	\$0	\$339,004				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	190562	Sealcoat, Slurry and Restripe Asphalt	\$170,347	\$170,347	\$0	\$170,347				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	190563	Repave Asphalt Lot (Near Building)	\$316,453	\$316,453	\$0	\$316,453				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	190564	Repair and Repave Asphalt Paven	\$57,297	\$57,297	\$0	\$57,297				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	222601	Fill Sink Hole and Repave Paveme	\$12,202	\$12,202	\$0	\$12,202				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	227721	Repair and Repave Asphalt Paven	\$52,365	\$52,365	\$0	\$52,365				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Paved Surface	227723	Sealcoat Asphalt Parking Lot (Near 3)	\$39,565	\$39,565	\$0	\$39,565				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	42085	Repair Asphalt Pavement and Str	\$9,434	\$9,434	\$0	\$9,434				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4102	Repair Drain Swale (Sector 23-35)	\$11,806	\$11,806	\$0	\$11,806				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4410	Remove Trench Plate and Repair J	\$7,610	\$7,610	\$0	\$7,610				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4412	Remove Trench Plate and Repair J	\$18,124	\$18,124	\$0	\$18,124				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4415	Repair Asphalt Pavement and Res	\$25,857	\$25,857	\$0	\$25,857				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4416	Repave Asphalt Road Sector 1-1C	\$376,671	\$376,671	\$0	\$376,671				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4418	Repair Asphalt Road (Sector 4-5H)	\$73,384	\$73,384	\$0	\$73,384				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4422	Repair Asphalt Road (Sector 16-1)	\$73,384	\$73,384	\$0	\$73,384				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4424	Repair Asphalt Road (Sector 11-1)	\$4,350	\$4,350	\$0	\$4,350				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4434	Repair Asphalt Road (Sector 2-3H)	\$7,250	\$7,250	\$0	\$7,250				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4438	Sealcoat and Restripe Asphalt Pa	\$14,495	\$14,495	\$0	\$14,495				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4440	Repair Asphalt Pavement and Sw	\$10,52	\$10,52	\$0	\$10,52				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4445	Repair Asphalt Roadway (Near B4)	\$51,128	\$51,128	\$0	\$51,128				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4447	Seal Cracks and Repair Potholes	\$10,456	\$10,456	\$0	\$10,456				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4450	Sealcoat Roadway (B750/B950)	\$4,531	\$4,531	\$0	\$4,531				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4454	Repair Asphalt Roadway (IR-12)	\$212,780	\$212,780	\$0	\$212,780				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4458	Repair Asphalt Roadway (E107)	\$279,033	\$279,033	\$0	\$279,033				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4462	Sealcoat Roadway and Patch Pot	\$10,456	\$10,456	\$0	\$10,456				
FMP0017	Civil/Road/Parking Lot	Maint	10/01/2024			10/01/2024	Indirect	Indirect	Site-Roads	4468	Repair Asphalt Roadway (B496)	\$17,213	\$17,213	\$0	\$17,213				
FMP0023	BSY Fire System Upgrades	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	009-TNL	163378	High Sensitivity Smoke Detection	\$240,604	\$240,604	\$0	\$240,604				
FMP0023	BSY Fire System Upgrades	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	009-TNL	163380	Replace Fire Alarm Control Panel	\$7,752	\$7,752	\$0	\$7,752				
FMP0023	BSY Fire System Upgrades	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	009-TNL	227176	Degraded Public Announcement	\$142,411	\$142,411	\$0	\$142,411				
FMP0042	B048 Roof Restoration	10/01/2024			Prioritized - Not Funded		Indirect	Indirect	048	222490	Perform Corrosion Control and R	\$4,012	\$0	\$4,012	\$0				
FMP0044	Replace B044 Roof	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	044	191056	Replace B044 Roof, 42,000 Sq. Ft	\$1,413,474	\$1,413,474	\$0	\$1,413,474				
FMP0045	B620 (IR-2) Roof Replacement	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	620	4250	REPLACE ENTIRE ROOF	\$218,744	\$218,744	\$0	\$218,744				
FMP0046	B120 Replacement	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	120	163587	INSTALL TPO ROOFING SYSTEM	\$139,664	\$139,664	\$0	\$139,664				
FMP0046	B120 Replacement	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	120	163591	Replace duct work going inside	\$31,924	\$31,924	\$0	\$31,924				
FMP0046	B120 Replacement	10/01/2024	09/30/2025		Prioritized - Funded, In Progress	10/01/2024	Indirect	Indirect	120	203696	CORRODED GUTTER	\$4,198	\$4,198	\$0	\$4,198				
FMP0047	B040/B040A Roof Repairs	10/01/2024	09/30/2025			10/01/2024	Indirect	Indirect	040	4180	Replace Mid Deck Roof	\$483,520	\$483,520	\$0	\$483,520				
FMP0047	B040/B040A Roof Repairs	10/01/2024	09/30/2025			10/01/2024	Indirect	Indirect	040	4714	Replace Lower Roof	\$32,609	\$32,609	\$0	\$32,609				
FMP0063	Replace Non-Operable 25S	10/01/2021	09/30/2025		Prioritized - Funded, In Progress	10/01/2021	IGPP - Infra. Gen. P.P	Indirect	025S	4593	Replace 25S Substation	\$2,627,800	\$2,627,800	\$0	\$2,627,800				
FMP0063	Replace Non-Operable 25S	10/01/2021	09/30/2025		Prioritized - Funded, In Progress	10/01/2021	IGPP - Infra. Gen. P.P	Indirect	025S	179719	Prepare and Repaint Exterior Met	\$6,825	\$6,825	\$0	\$6,825				
FMP0063	Replace Non-Operable 25S	10/01/2021	09/30/2025		Prioritized - Funded, In Progress	10/01/2021	IGPP - Infra. Gen. P.P	Indirect	025S	179721	Prepare and Repaint Interior Wall	\$13,004	\$13,004	\$0	\$13,004				
FMP0065	Site Security & Access - Main	10/02/2023	09/30/2026		Prioritized - Funded, In Progress	10/01/2023	GPP - General Planned Project	Direct	083	2242	Modernize Window A/C Units	\$13,773	\$13,773	\$0	\$13,773				
FMP0065	Site Security & Access - Main	10/02/2023	09/30/2026		Prioritized - Funded, In Progress	10/01/2023	GPP - General Planned Project	Direct	083	4706	Redeek VCT Flooring	\$6,769	\$6,769	\$0	\$6,769				

<https://fims.doe.gov/FIMSCAIS/secure/reporting/standardReports.xhtml#>

# Discussion



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Thank You!  
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