



## Fermilab site access: Now and in the future

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# Outline

- Context
- Bottom Line Up Front: Our Vision for the Future
- Requirements
- Fermilab-specific Implementation Challenges
- Implementation Strategy
- Present state
- Future state
- Closing remarks



# Context

- Site access issues are affecting our ability to accomplish our mission
  - What is driving the change?
  - How are we getting there?
    - Lab processes are being fixed and streamlined
      - We have improved some processes with more improvements on the way
      - Need better communication on how to navigate the system and changes in the system
  - Where are we going?
    - What is the end state?
    - How long will it take?
- We are working on all of these. It is a challenging time as we do so



# What is our vision for the future?

A safe & secure site that welcomes and excites the national and international scientific community, the public, families, and students about our scientific mission

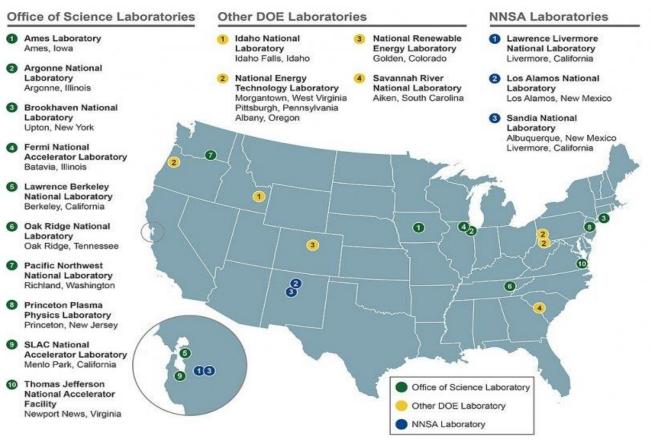
□ New processes; new safety & security systems

□ New Welcome & Access Centers

Enhanced & frequent communication



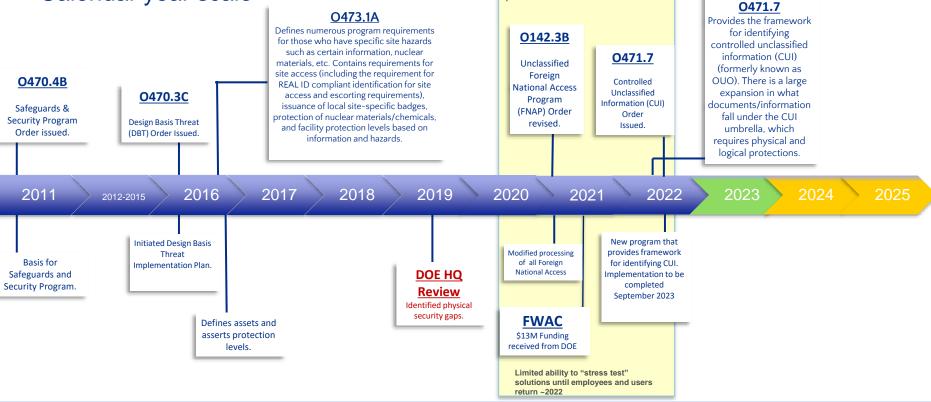
# Fermilab is a member of the DOE family





# DOE Site Security and Access Requirements

#### Calendar year scale



compliance but during a time with few personnel and users on site.

The lab must stay in compliance with federal regulations and DOE requirements The lab is overdue with respect to site access management given the facilities on site

## **Implementation Challenges**

- New requirements have been in place for three years, however
  - Many changes implemented during COVID were not "stress tested" until people returned, activities ramped up
  - Supply-chain issues delayed implementation of solutions
  - Lab inadequately communicated to stakeholders (users/affiliates, partners, neighboring community, public) the new requirements and implementation plans
  - Fermilab's Batavia site currently has specific challenges  $\rightarrow$



# Fermilab site is unique: Largest accelerator complex in the US

- Fermilab's Batavia site currently has specific challenges
  - Large site, many access points, open areas including around accelerator complex
  - Accelerator operations intermixed with non-operational areas
  - Many buildings/doors
  - Extensive and distributed sensitive equipment that could be damaged by unauthorized people
  - Sensitive technologies
  - Cybersecurity: Fermilab manages a large amount of non-public information





## **Implementation Challenges**

- This led to concerns by many, shared in a number of ways, including a recent petition.
- Some things have been improved but there is more to do
- We're working to do a better job listening and communicating





**Implementation Strategy and Action Plan** 

# New processes; new safety & security systems New Welcome & Access Centers Enhanced & frequent communication



# **New processes implemented to date**

✓ Improved on former access deficiencies identified internally and by DOE
 ✓ Established Site Access and Badging (SAB) Task Force in the fall 2022, includes employees & users – recently appointed new lead Matt Kwiatkowski

- $\checkmark$  Improved physical access process and transitioned to Real ID
- ✓ Established Site Access Coordinators (in training)
- ✓ Improved Continuous Badging IT process since 2019
  - Multiple institutions/affiliations tracking (reduces duplicate data entry)
  - DOE upload enhancements (reduces processing time)
  - FNAL and Export control process enhancements (reduces processing time)

Streamlined badging process via single entry form will be implemented in Sept 2023



# **Temporary badges**

Fermilab	TEMPORARY Date:
Name:	
Destination:	
Time In:	

#### **Red: General Public**

Exception: badges are not required for underage participants on scheduled school tours.

Required Escort (in non-public areas of the lab)

#### **Blue: Business Visitors**

Fermilab	VISITOR Date:
Name:	
Destination:	
Time In:	

Those that have had their identity verified, but do not have a Fermilab badge for an acceptable reason (shorter stays less than a week, for instance)

Individuals who are at Fermilab for more than 1 day will be emailed a QR Code that the Security Officers will be able to scan at the control posts.

Required Escort (in non-public areas of the lab)

#### Green: Business Visitors attending events (Wilson Hall Only) (In Use!)

Wilso	n Hall Event
Fermilab	
Name:	
Company:	
Date:	Time In:

Those who have had identity verified and are attending a Wilson Hall event during workdays.

Escort not required as long as at Wilson Hall.

Individuals who have completed registering process and been approved by an associate lab director will be emailed a QR Code that the Security Officers will be able to scan at the control posts. (Does not include events that are open to the public or minors.)



# More recent improvements to access requirements

- ✓ There is now a process for **personal visitors** to access the Village and emergency utility service workers to access the site during off hours
- ✓ **Construction delivery** drivers without a REAL ID can be escorted onto the site
- Commercial pick up/drop off drivers without a REAL ID can access site with a vehicle placard obtained at the security gate
- ✓ Delivery drivers without a REAL ID can access the warehouse with a company photo ID and a regular drivers' license





# Card readers in Wilson Hall – arriving end of 2023

- Describe the plan for card readers in Wilson Hall (where will they be)? How many?
  - The card readers in Wilson Hall will control access per floor at each door in the stairwells and elevators. Each floor door and elevator will be getting a card reader.
  - Who will have access? People who are authorized to be in Wilson Hall today without escort. However future access needs may change over time.
  - Will we still be able to visit colleagues / have coffee?
    - Yes!
  - Why is it taking so long to implement card readers in Wilson Hall?
    - Construction is taking place afterhours to keep noise to a minimum during the day and supply chain delays with the card reader hardware have been challenge.

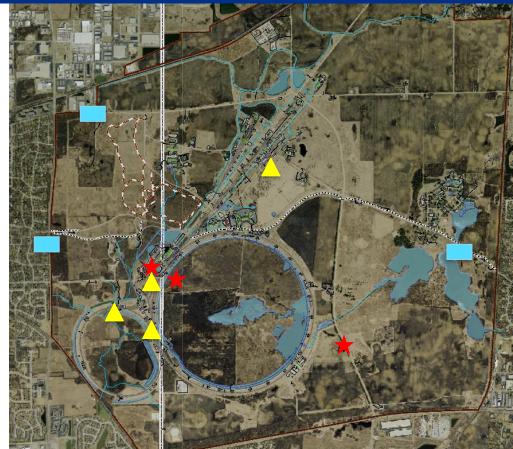


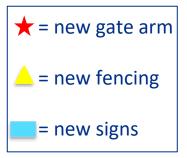
# The plan to manage public access

Gates: control vehicle access to main accelerator campus

Signage at entrance gates and local postings

Fences at West Booster Lawn, AP-0, MI-12, to control worker doses, and NM4/Spin Quest







### Fermilab Welcome & Access Center (FWAC)

# Arriving in 2025!

#### New main entrance access

- The new center will provide business visitors and the public with a welcoming entrance to Fermilab
- A smoother administrative process
- Public visitors can obtain visitor passes to visit the public areas of the campus
- New employees and subcontractors will have a more efficient badging experience
- The center will provide a place for business visitors to complete any required access forms
- We expect construction to start this fall or in 2024

# Aspen East is going to be FWAC East



#### Arriving in 2023!

We need to finalize the gate location and other operational items before Aspen East is functioning as FWAC – East



# Communications: Fermilab will communicate frequently about access

#### **Prioritized attention to communications** to assure awareness and understanding of needed changes and incorporating feedback through a comprehensive communications plan, successful CAB engagement, involvement of leadership at all levels.

# Site Access website getting updates in August.

**Upcoming meetings:** 

- Community Advisory Board meeting in late July
- Briefing with experiment spokespeople in late July
- Briefing at all-scientist meeting August 4
- All-hands/users meeting in August

We are committed to doing a better job communicating about site access regularly

- □ For employees, users and affiliates: All-hands meetings, news@work, FAQs, manager and supervisor updates, responses to <u>staffquestions@fnal.gov</u>
- For the public: Fermilab Frontier newsletters, website updates, Community Advisory Board Updates
- Questions?: Email <u>staffquestions@fnal.gov</u>
  FAQs: Will be posted on inside.fnal.gov



# **Present State**



# Access requirements for employees, users, business visitors

As of May 3, 2023: REAL-ID compliant identification is required to enter the Fermilab site



- Employees, users, affiliates and visitors are required to follow standard site access processes to obtain badging for lab entry
- We are working to streamline processes for badging and improve systems for research collaborators, users and business visitors
  - Site access and badging task force; site access coordinator program

🛠 Fermilab

Access the FAQ on Fermilab's website for answers to your questions and questions from visitors and community about access

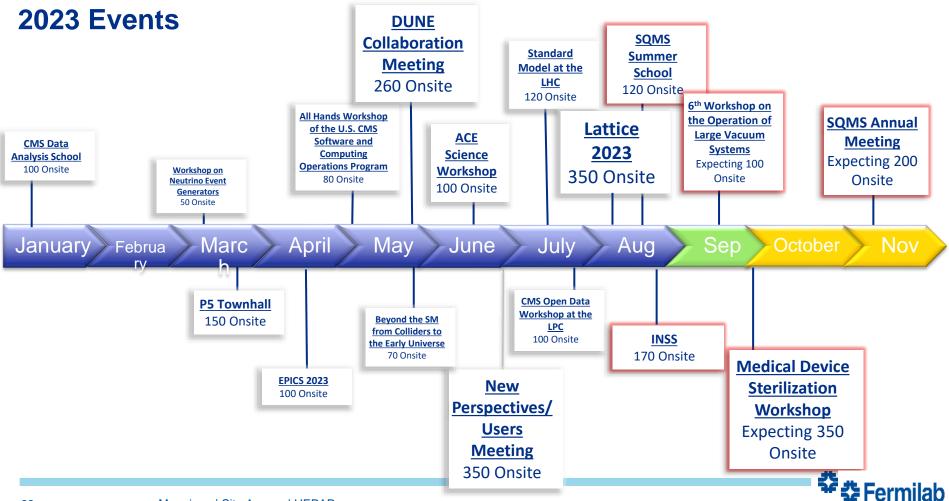
# What's open to the public now?



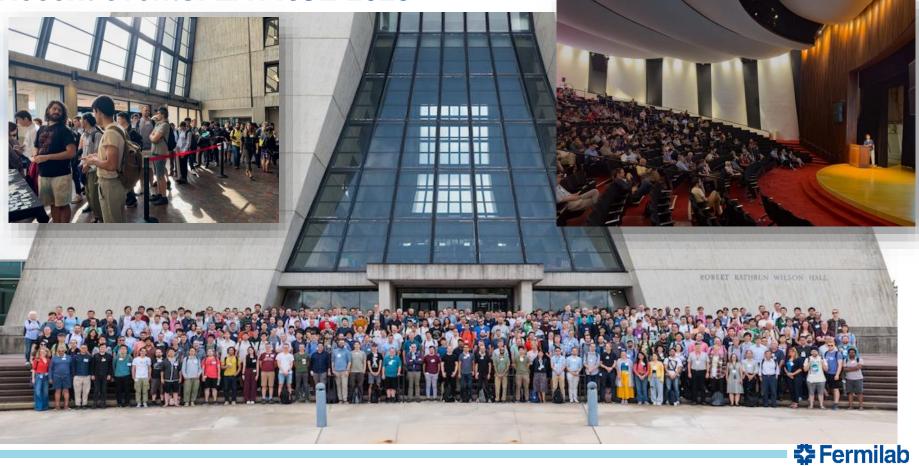
With Real ID-compliant identification, Fermilab visitors can access:

- Bison-viewing area
- Bird watching
- Prairie trails
- Bicycling and walking trails
- On-leash dog walking
- Lederman Science Center
- Saturday Morning Physics and other STEM activities in the Ramsey Auditorium

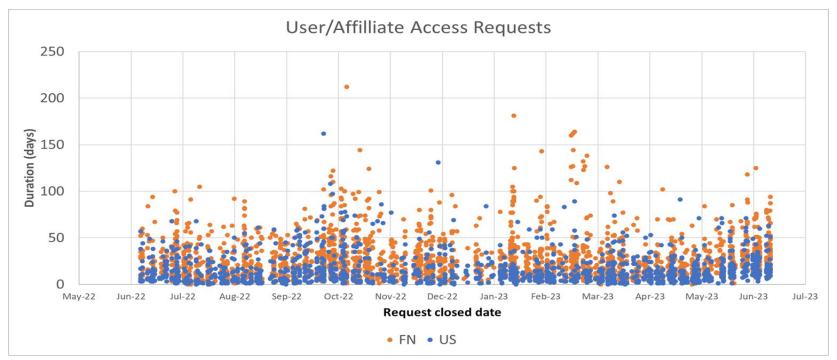




# **Recent events: LATTICE 2023**



# **Site Access Metrics – User/Affiliate Access**

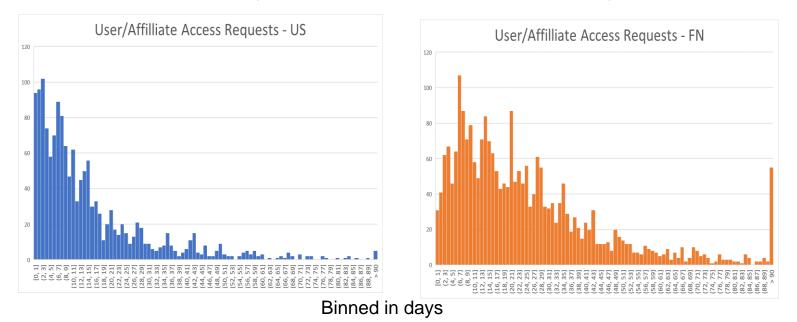


Duration for badging over time: use to see progress/challenges

- Peaks can correspond to large events
- Longer duration recently due to large influx of summer visitors

# **Site Access Metrics – User/Affiliate Access**

Time it takes to be badged separated out by US Citizen and Foreign National



Using detailed data to understand potential features in plots and make improvements

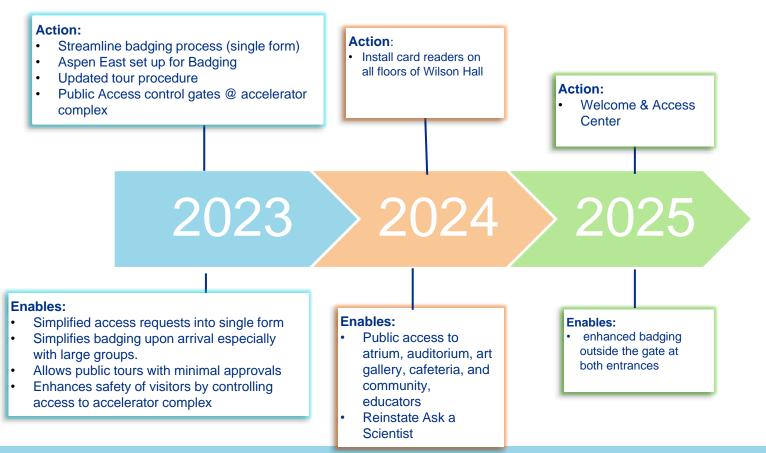
- Move peaks to shorter times
- Understand and reduce tails of distributions



# **Future State**



# **Timeline to Planned Improvements**





# **Parking Lot of ideas**

- We are presently laser-focused on the highest priority actions that impact our employees/users/affiliates and affect our ability to deliver our mission.
- We have a list of topics for next priority consideration. These include:
  - Garden clubs
  - Catch and release fishing
  - Recreation activities in the Village
  - Ideas from Feedback...



# **Closing Remarks**

- We hear you!
- We are systematically working on all fronts. It is a challenging time as we do so.
- Please be patient





# Feedback and input systems established/prioritized

#### How to give input/feedback:

Employees: <u>staffquestions@fnal.gov</u> Users: <u>staffquestions@fnal.gov</u> Vendors: <u>fermilab@fnal.gov</u> Community: <u>fermilab@fnal.gov</u> SAB Task Force:

site\_access\_task\_force@listserv.fnal.gov

