

APS Upgrade Update

Four months into the shutdown...

Elmie Peoples-Evans
Project Manager, APS Upgrade

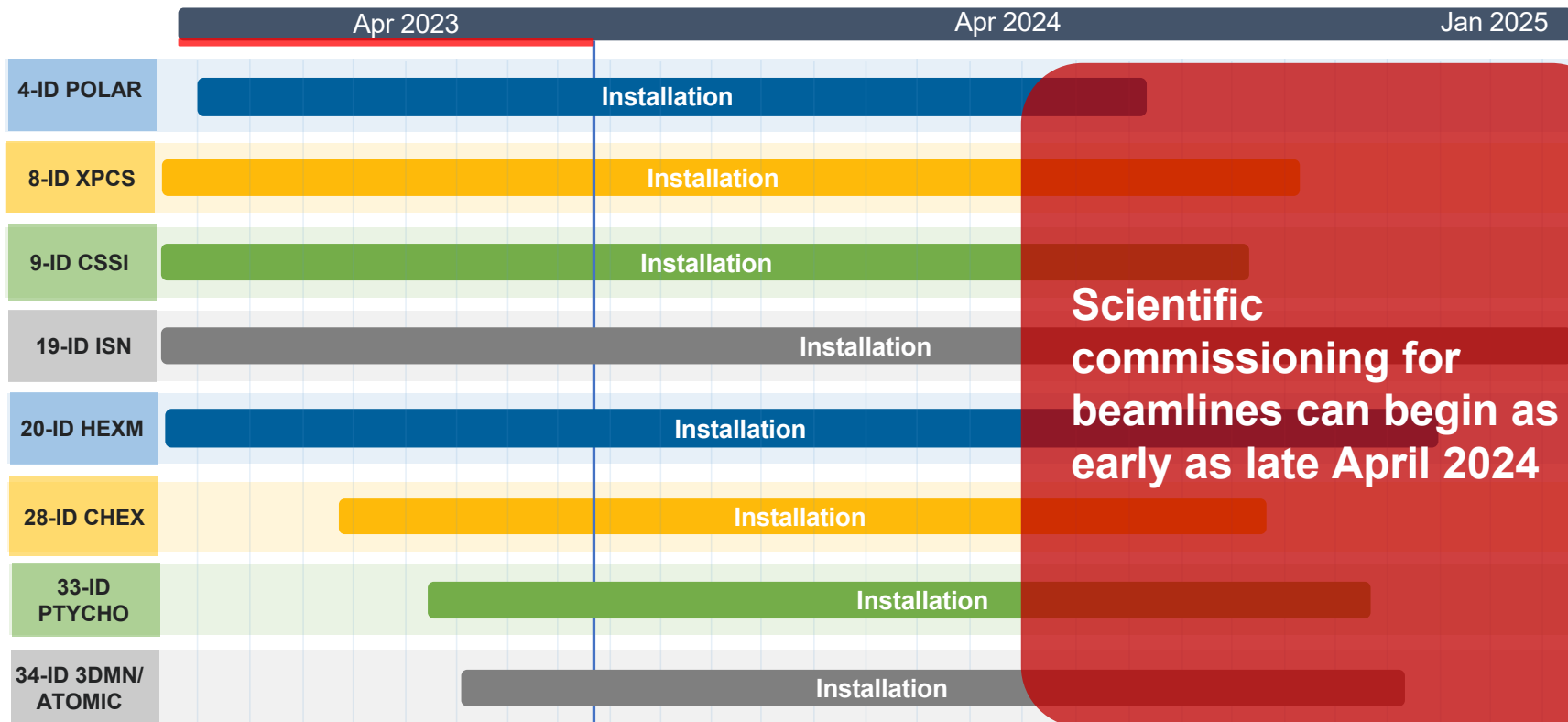


U.S. DEPARTMENT OF
ENERGY

Argonne National Laboratory is a
U.S. Department of Energy laboratory
managed by UChicago Argonne, LLC.

Argonne  | APS
NATIONAL LABORATORY

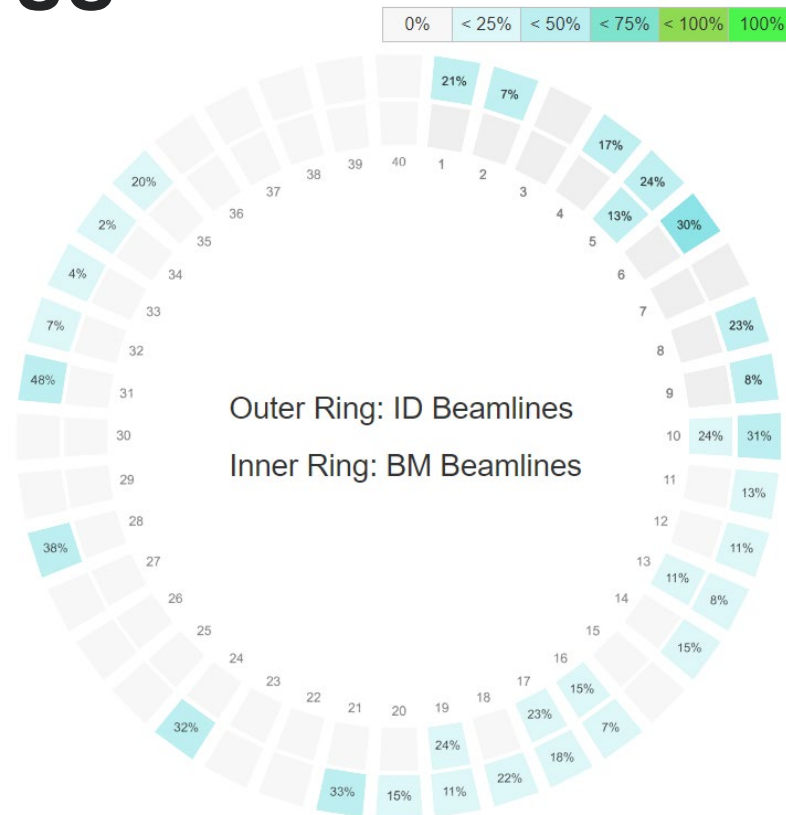
FEATURE BEAMLINE INSTALLATION SCHEDULE



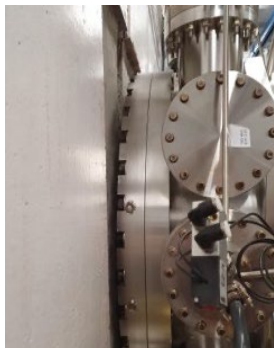
**Scientific
commissioning for
beamlines can begin as
early as late April 2024**

EXPERIMENT FLOOR STATUS

- Optics systems installations completed in 2-ID, 4-ID, 8-ID, 9-ID, 11-ID, 19-ID
- 19-ID-E labyrinths installed
- 8-ID & 9-ID utility installations
- 9-ID shielded enclosure completion in early September
- 20-ID shielded enclosure completion in September
- 28-ID component harvesting
- Utility modifications for numerous beamlines
- Beamline installations using new survey data



PROGRESS IN PICTURES



11-BM
monochromator



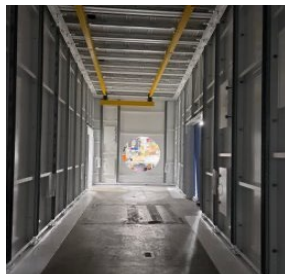
4-ID primary mirror
installation



16-BM component
installation

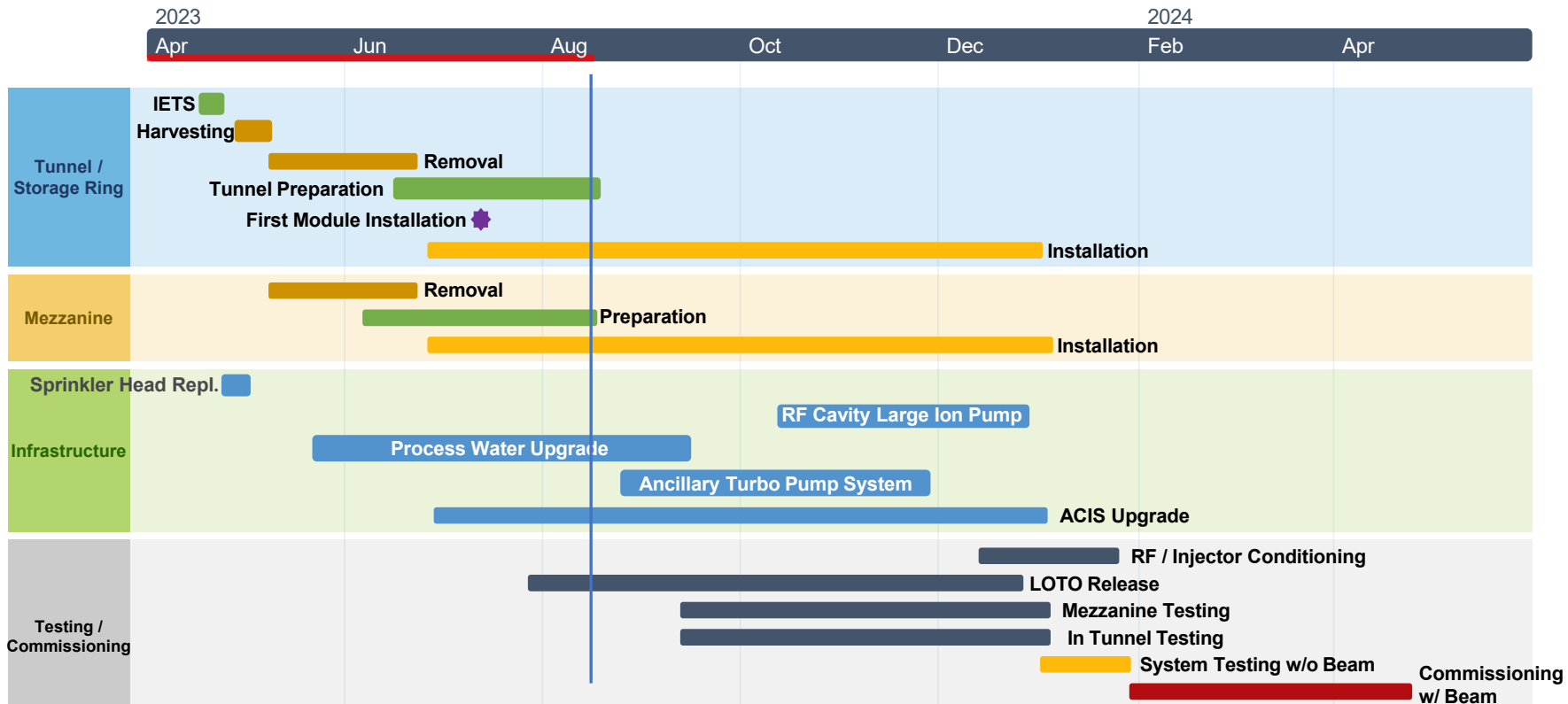


9-ID shielded enclosure



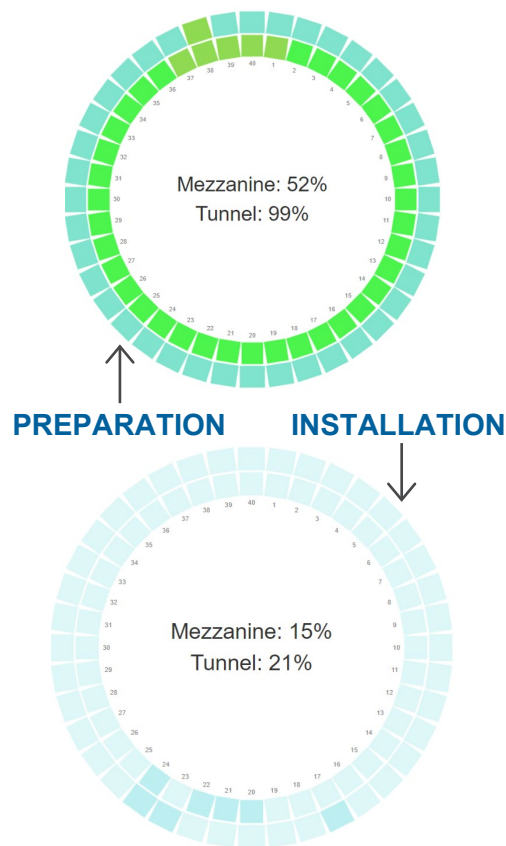
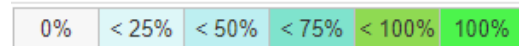
9-ID Grand Tube delivery

STORAGE RING SCHEDULE

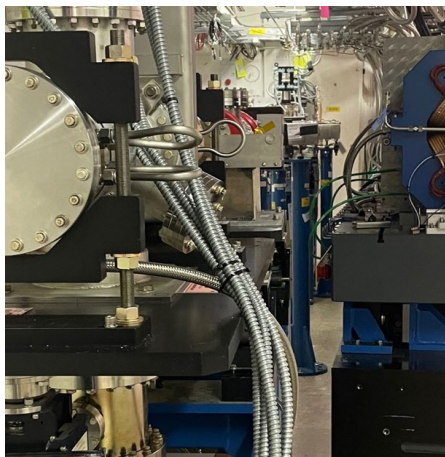


ACCELERATOR STATUS

- 177 modules assembled & ready for installation
- 81/200 modules installed
- 28 tables remaining to complete front end assembly
- 16/54 front ends placed
 - 1 secured, aligned and under vacuum
- 29/44 wall collimators installed
- 26/44 IDs + IEX ready for installation
- 40% of cable pulls completed
- Inter-rack connections progressing well
- Electronics network connectivity testing started



PROGRESS IN PICTURES



Front-end installation



BLS installation



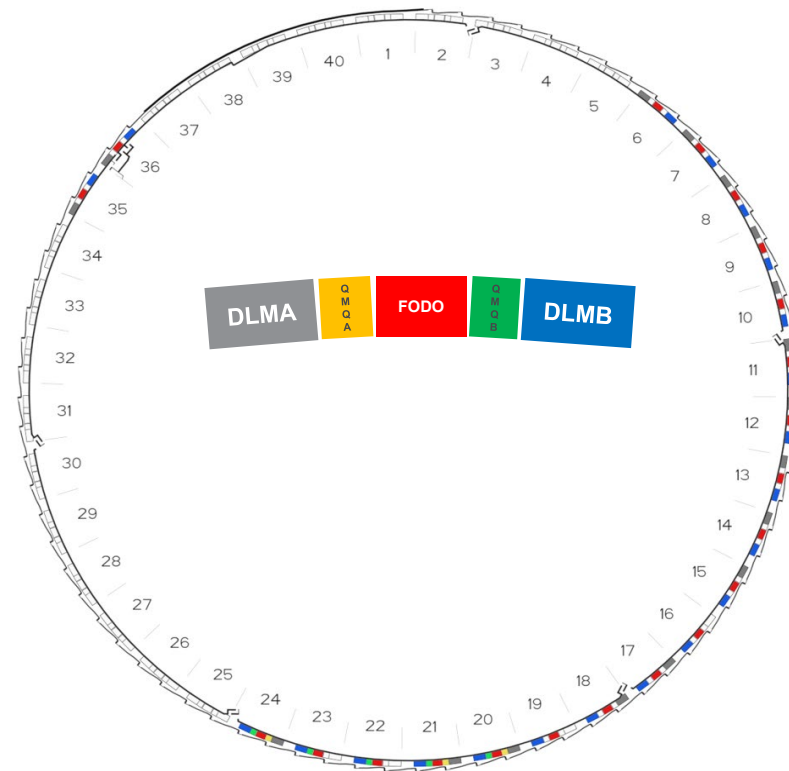
Power supply racks



Aluminum water skid installation

GREAT PROGRESS...MORE TO GO

- Beamline re-alignment efforts to begin shortly
- 9-ID Grand Tube installation in September
- ID & IDVC installation planned to begin before the end of August
- Test & checkout estimated to start in September
- On track for storage ring commissioning in early CY2024



SUMMARY

- Installation for the strong ring and beamlines is progressing well
- On track for completing the shutdown in April 2024
- Everyone is working together safely & cohesively
- We're addressing issues efficiently, effectively, and making improvements as needed

Thanks for the continued hard work & dedication!

