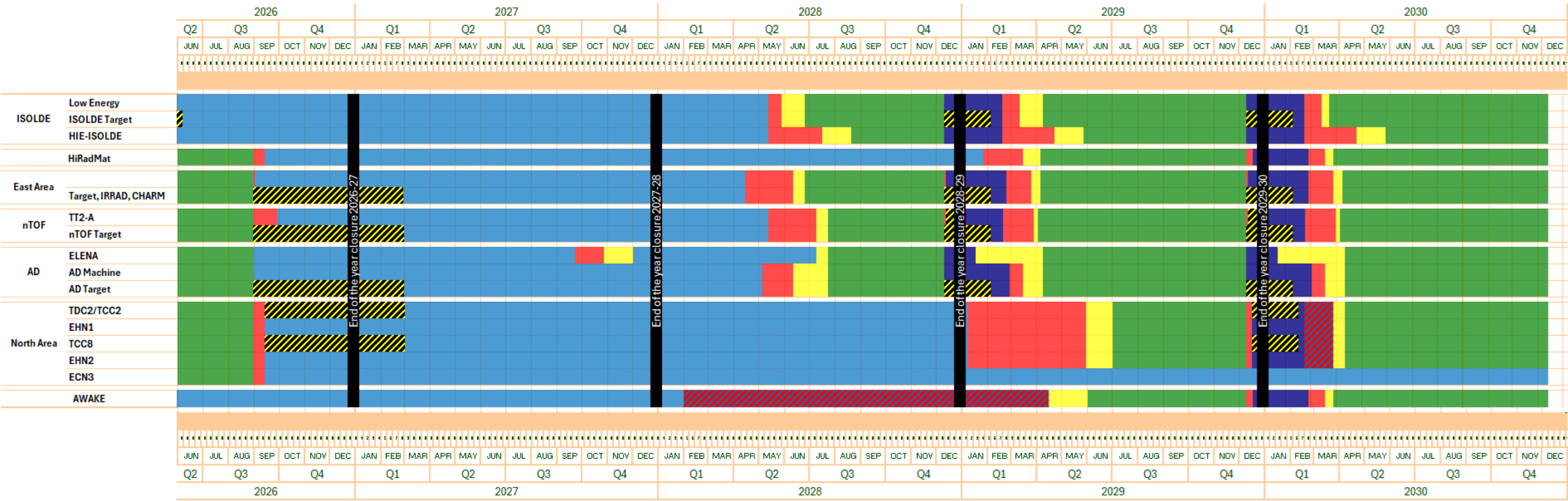




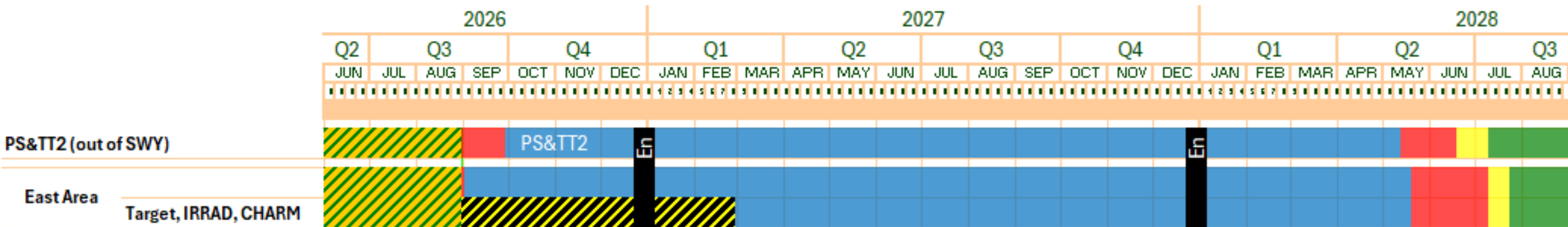
LS3 in Experimental Areas

Master LS3 Experimental areas



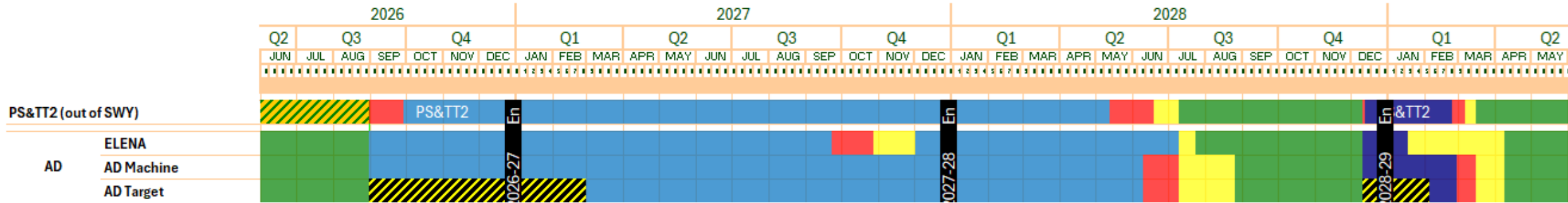
Like for the machines the YETS2028-2029 and YETS2029-2030 duration for the moment is just a placeholder and will have to be define later;

East Area



- Pre-study additional beam line T07 (Low-Energy);
 - Study of a T10 upgrade for high-purity electron beams.
 - The project to renovate the HVAC system in Hall 157 is currently under discussion. The studies have already been conducted and now need to be updated;
 - Upgrade of the T08 beamline for CHIMERA (including additional collimator and scintillator).
 - CLOUD + P371 ask to be able to run during LS3
 - The upgrade of RAMSES RP monitors to CROME,
-
- The HVAC upgrade is expected to take approximately one year and could be postponed beyond LS3, with other constraints;
 - Regarding T07, studies will begin in early 2025, and the impact will be known during the first half of 2025.
 - If no project starts during LS3, the East area will require three months of maintenance, similar to the YETS periods

AD/ELENA

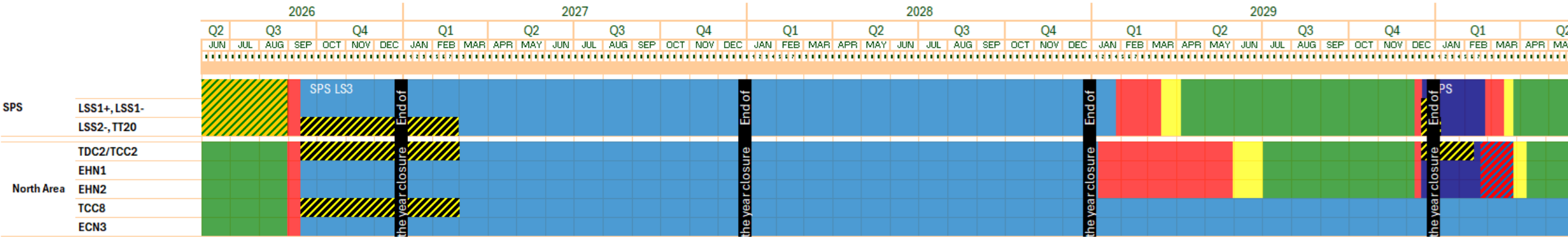


- Main activities are ring magnets refurbishment (18 units – end of CONS), HVAC/ CV renewal, and e-cooler swap.
- Depending on e-cooler readiness status, either can be on critical path
- Refurbishment of HVAC + demi water schedule required to optimize possible operation of ELENA with ion source
- Still non-approved activities (PLAN)
- Target + horn replacement late in LS3 (TBC, RP optimization)

- Storage: No particular needs outside AD hall, expect to store concrete blocks in situ during magnets movements
- e-cooler go/no go decision is not critical wrt other AD works

- ELENA operation with ions: schedule to be optimized in relation with experiments requirements / needs for “quiet” periods (BASE), and demi water plant refurbishment

North Area



NA-CONS and Hi-ECN3 lot of work (see dedicated talks)

- Hi-ECN3 → major first part is the dismantling.
- NA-CON → TCC2 new layout
- common coordination (planning, filed, safety, etc..) is important

EHN1 :

- GIF++ Bunker extension study and installation plan ongoing
- H4 experimental Areas modification
- H8 NA60+ modification

EHN2 :

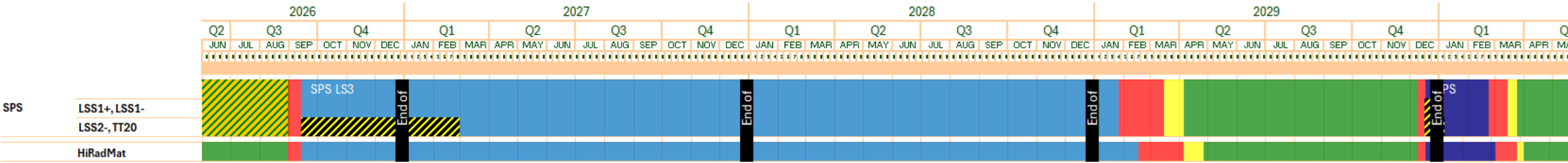
- AMBER DRELL YAN installation (shielding modification + equipment installation)
- PPE211 extension (shielding modification, cabling, etc..)
- M2 High intensity (full vacuum, XABS modification, etc..)

Hi-ECN3 :

- New Dump P42 installation
- K12/NA62 dismantling

- Storage: Studies are ongoing to free some storage areas before LS3
- **Decisions: Lot of a studies/modifications ask by experiments are waiting for validation for going to next step (resources, materials, etc..) need answers before end of summer 2025.**
- Impact of experiments running during LS3 (e.g. MADMAX and GIF++) is still under evaluation to define the exact periods when the requests are compatible with the LS3 activities

HiRadMat



- Limited number of activities foreseen for LS3, in anticipation, the major activities were carried out during the YETS2023-24:
 - Dump modification;
 - New BTV downstream experimental slots.
 - New cables platform
 - Cables modifications
-
- The Facility can be ready to receive beam as soon as the SPS is ready.
 - The restart of HiRadMat requires general maintenance similar to normal YETS for the CERN services.



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