AD- CONS project status
LS2 works critical path items:

- **AD ring**: new e-cooler collector / vacuum bake-out
- **ELENA ring**: ion source / HV transformer
- **ELENA transfer lines**: Secondary Emission Monitors (SEM)
LS2 simplified schedule
3 weeks ahead of schedule
See https://indico.cern.ch/event/867869/
- AD target: good progress
- Details: https://indico.cern.ch/event/867025/

Courtesy: S. De Man
LS2 AD-CONS program (3)

- Horn testbench
- Instrumentation: new BPM + BCCCA consolidation
CV: AD target cooling in 2020. AD hall ventilation upgrade: LS3?

Bdg 196
LS2 AD-CONS program (5)

- HLRF CO2 cavity replaced by Finemet, remains to be connected (Vac + cabling: Jan –March 2020)
- LLRF Radial loop, Cavity servoloop, gap relay control: syst production, development and lab tests till Oct 2020, then HW commissioning
- Power convertors: Upgrade to Megadiscap and Maxidiscap convertors planned for Spring 2020
- Vacuum upgrade complete (minor items remaining for LS2: ion pumps, dammaged alu flanges…)
- Kickers: repair feedthroughs (done)
Cryogenic distribution in AD hall:

- Pre-study done in 2018
- Installation planned for 2021
- Financially not approved yet
■ AD e-cooler: the decision to build a new e-cooler for 2023 was confirmed 6 Dec 2019.

■ A new collector is planned to be produced and installed during LS2. Design is in progress, installation is planned for Oct- Dec 2020.
Conclusions

- AD-CONS program well on its way
- AD e-cooler collector on critical path – recovery plan is to keep existing one
- Cryo distribution line not funded yet (again…)
- A number of re-organizations are getting prepared, in addition to existing baseline, owing to experiment related changes