

# NORTH Availability Statistics 2023

# „Information“ I

These slides are a template to summarize the availability of your machine in 2023. Please correct and complement the slides considering following questions:

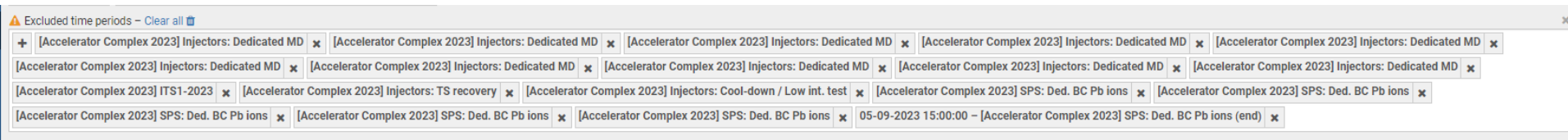
- What are the main events & reasons impacting availability?
  - Does the data show them and is it matching your expectations?
  - Is any crucial aspect not visible in the data that we should have a closer look at?
- What is the outlook for next year?
  - Are you expecting some interventions over the YETS that might improve availability next year?
  - Could certain circumstances lead to an availability degradation?

# „Information“ II

- There will be additional questions on each slide.
- All charts can be regenerated from [here](#)
- For further inspiration what to put in the slides, please have a look at <https://indico.cern.ch/event/1104980/>

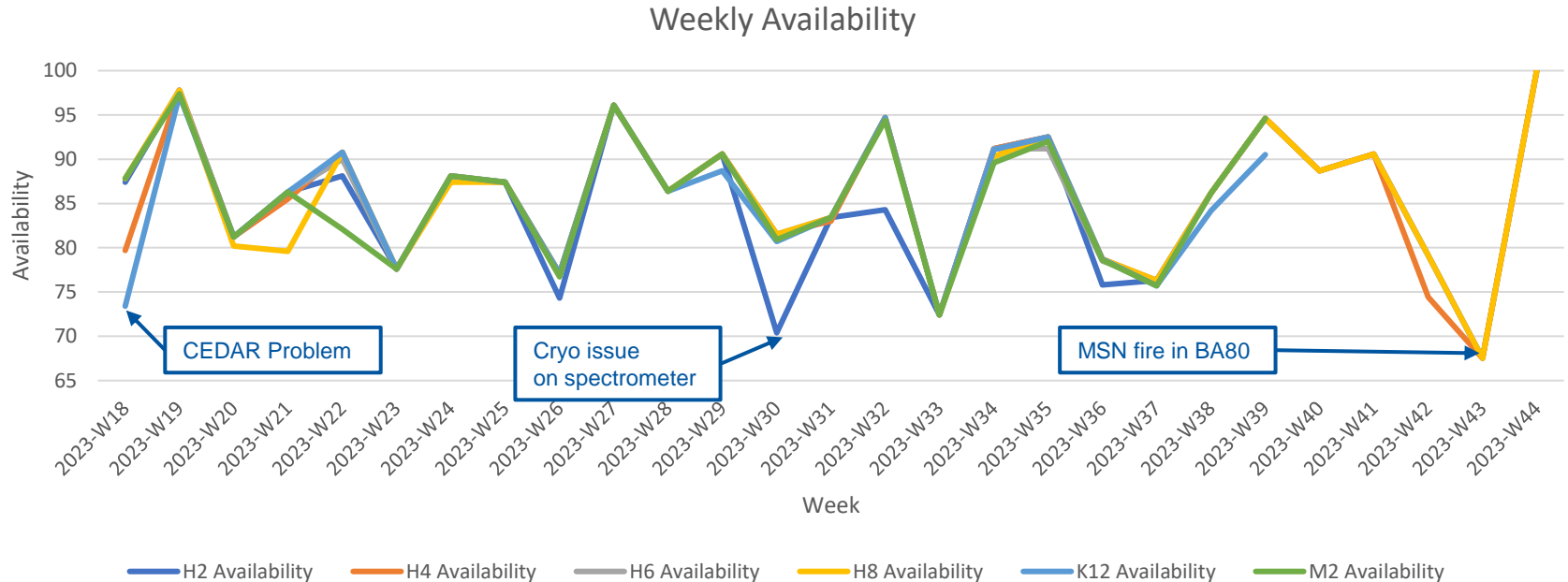
# Considered Times

- From start of NORTH physics to end of run
  - → 24-04-2023 00:00:00 - 30-10-2023 06:00:00
- All excluded times from NORTH FOM dashboard



- (Should these times be wrong, please correct the times above or add additional excluded time periods and let us know – we can update your template)

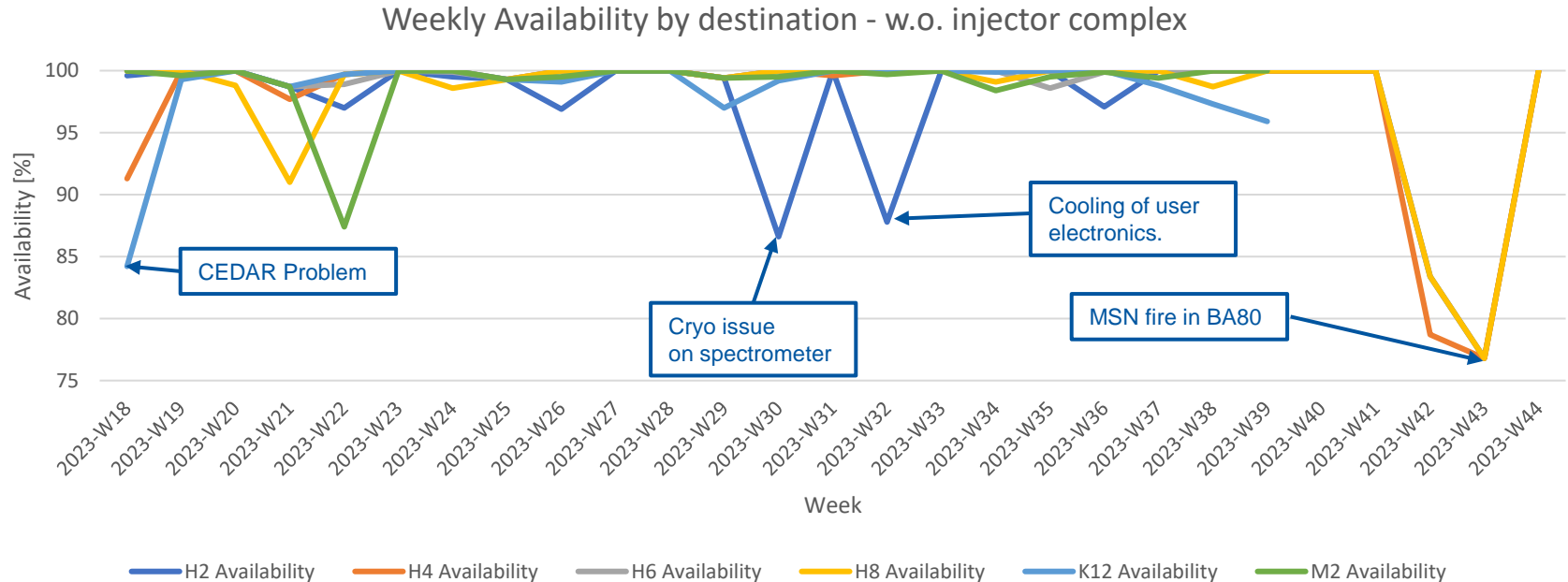
# Weekly Availability by Destination



What are the main events & reasons impacting availability?  
Please mark them.



# Weekly Availability by Destination – w.o. injector complex



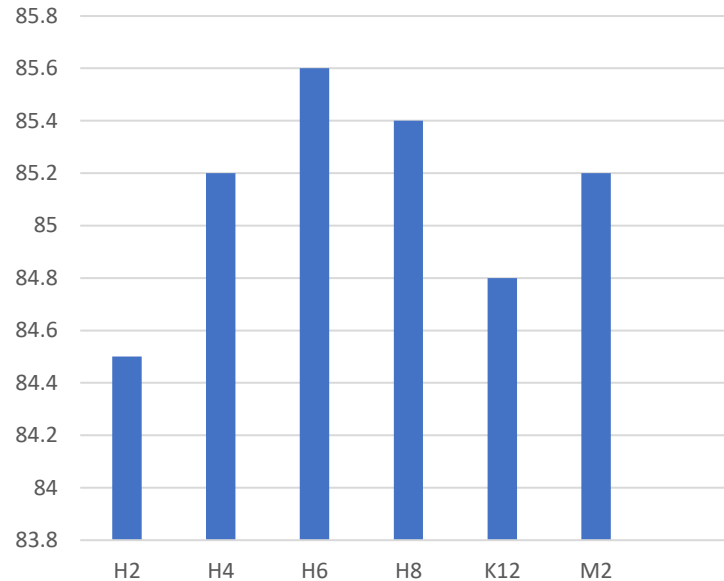
What are the main events & reasons impacting availability?  
Please mark them.



# Global Destination Availability

Please elaborate on the main events and downtime reasons & whether there are mitigations foreseen. Can be multiple slides.

Destination Availability [%]

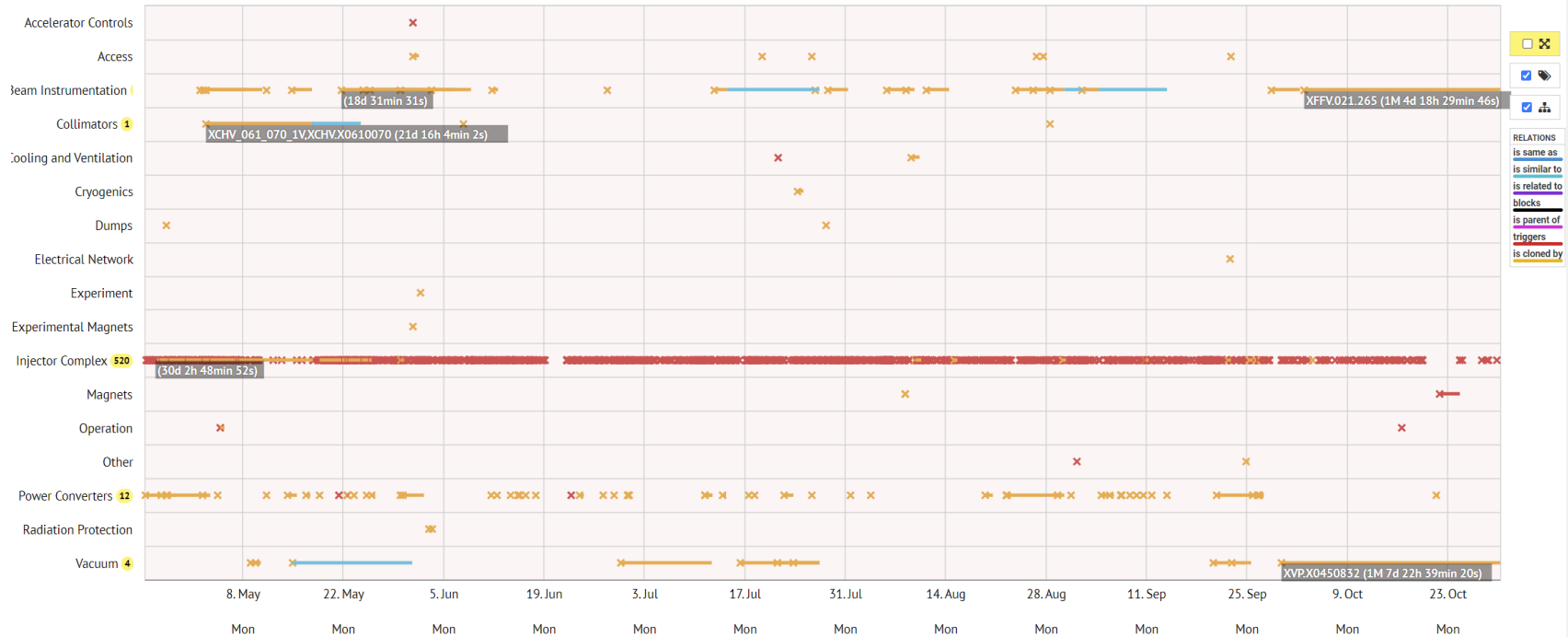


# System Downtime

- Not relevant for EAST and NORTH
- For Cardiogram :
  - Most faults coming from injector, Power Converter, and beam instrumentation (non-blocking).
  - During YETS a big maintenance on all power converter will take place to have them available until their replacement by FGC (NA-CONS).



# System Downtime



# Summary & Conclusion Slides

- Still suffering from the old equipment in North Area (PC, magnets, instrumentation, etc..) NA-CONS will improve it but on a long timeline.
  - MSN fire „hopefully“ happened at the end of the run.
  - Power converter still very instable looking forward to their replacement.
- What is the outlook for next year? Are there any availability problems expected unless they are addressed over the YETS?
  - After some fault at the start Big sister was helpful for injector fault registration.
  - Dashboard filter not clear between general, dashboard and components.