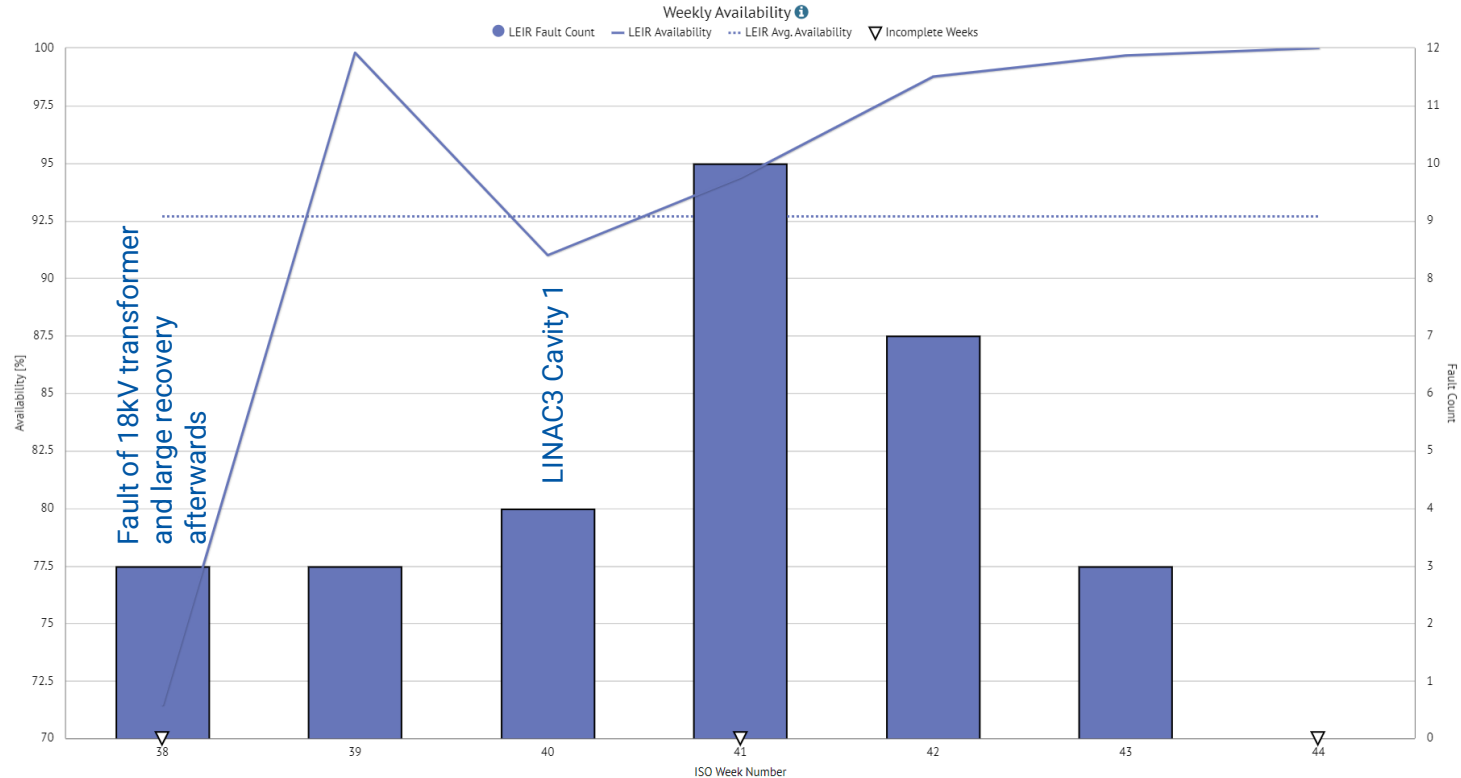


# LEIR Availability Statistics 2023

# Considered Times

- Availability counting normally starts once beam has to be delivered for downstream machine (ions to LEIR Aug 16th), but in the case of LINAC3 the counting starts from when data was put in AFT
  - → 18-09-2023 09:00:00 - 30-10-2023 06:00:00
- Excluded time periods:
  - Source refill: 12-10-2023 06:30:00 - 12-10-2023 15:30:00

# Weekly Availability by Destination

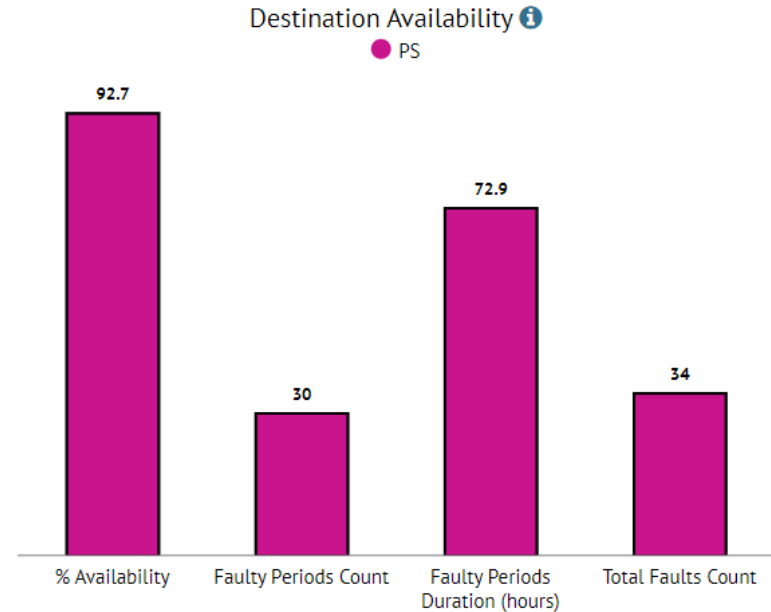


# Global Availability

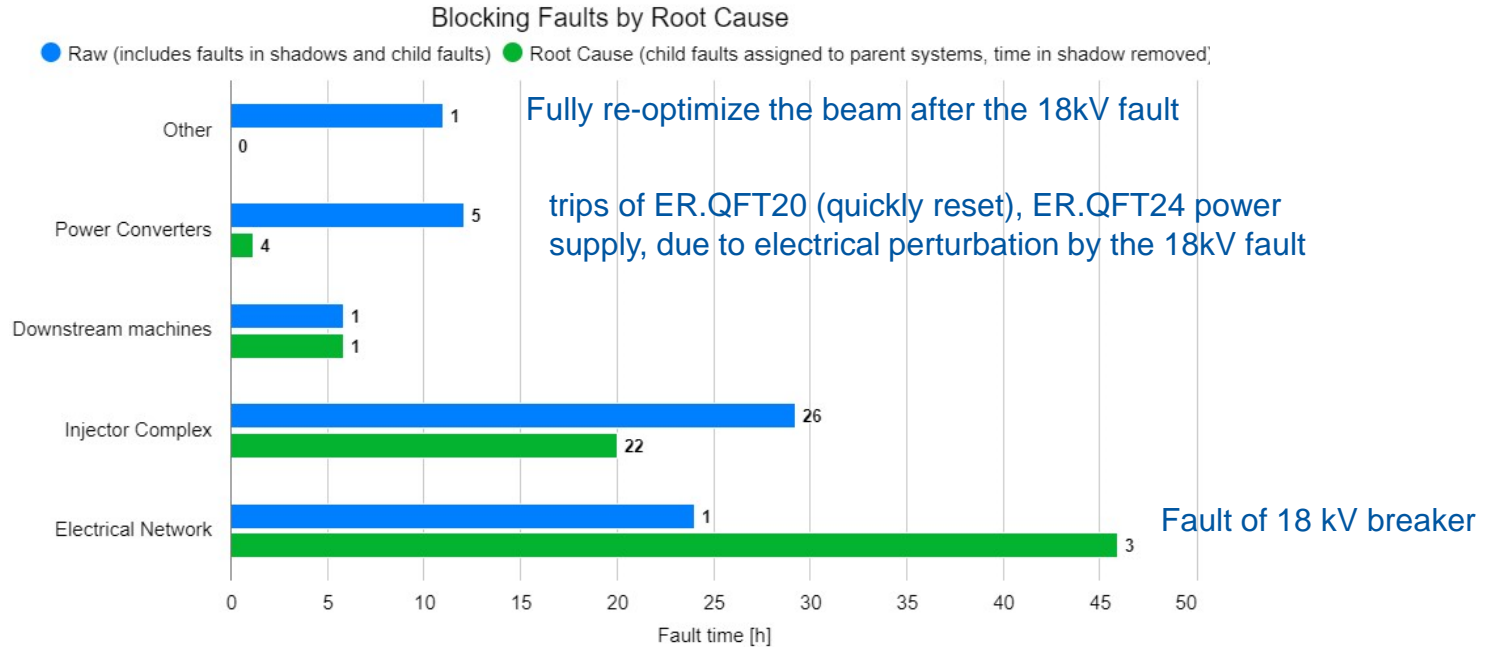
**Global Availability**  
**92.7 %**

High availability apart from week  
38

Similar to 2022: 99%



# System Downtime



# Unavailability by System

**Electrical Network, Other** and large fraction of **Power Converter** correspond to

- fault of the 18kV breaker which could be fixed the following day.
- The consequent electrical perturbation led to the failure of many systems.
- And full re-optimization of the beam afterwards.

# Summary & Conclusion Slides

- In general, high availability during 2023
- Major event: fault of the 18kV breaker and the consequent recovery of other equipments and beam performance
- No availability problems expected next year.
- Two run periods for 2024 (Oxygen and Lead)

# „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

[https://aft.cern.ch/dashboard?timePeriod=%257B%2522timePeriodType%2522%253A%2522fixed%2522%252C%2522startTime%2522%253A%252218092023090000%2522%252C%2522endTime%2522%253A%252230102023060000%2522%257D&excludedPeriods=%255B%257B%2522startType%2522%253A%2522date%2522%252C%2522endType%2522%253A%2522date%2522%252C%2522start%2522%253A%25222023-10-12T04%253A30%253A00Z%2522%252C%2522end%2522%253A%25222023-10-12T13%253A30%253A00Z%2522%257D%255D&accelerator=LEIR&hadStates=BLOCKING\\_OP&excludedFaultStates=NON\\_BLOCKING\\_OP&dashboardId=928191](https://aft.cern.ch/dashboard?timePeriod=%257B%2522timePeriodType%2522%253A%2522fixed%2522%252C%2522startTime%2522%253A%252218092023090000%2522%252C%2522endTime%2522%253A%252230102023060000%2522%257D&excludedPeriods=%255B%257B%2522startType%2522%253A%2522date%2522%252C%2522endType%2522%253A%2522date%2522%252C%2522start%2522%253A%25222023-10-12T04%253A30%253A00Z%2522%252C%2522end%2522%253A%25222023-10-12T13%253A30%253A00Z%2522%257D%255D&accelerator=LEIR&hadStates=BLOCKING_OP&excludedFaultStates=NON_BLOCKING_OP&dashboardId=928191)

- For further inspiration what to put in the slides, please have a look at <https://indico.cern.ch/event/1104980/>