



Outcomes of 2021 Montreux Injectors workshop

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5th December 2022

INTRODUCTION: 2021 IEF WORKSHOP MAIN OBJECTIVES

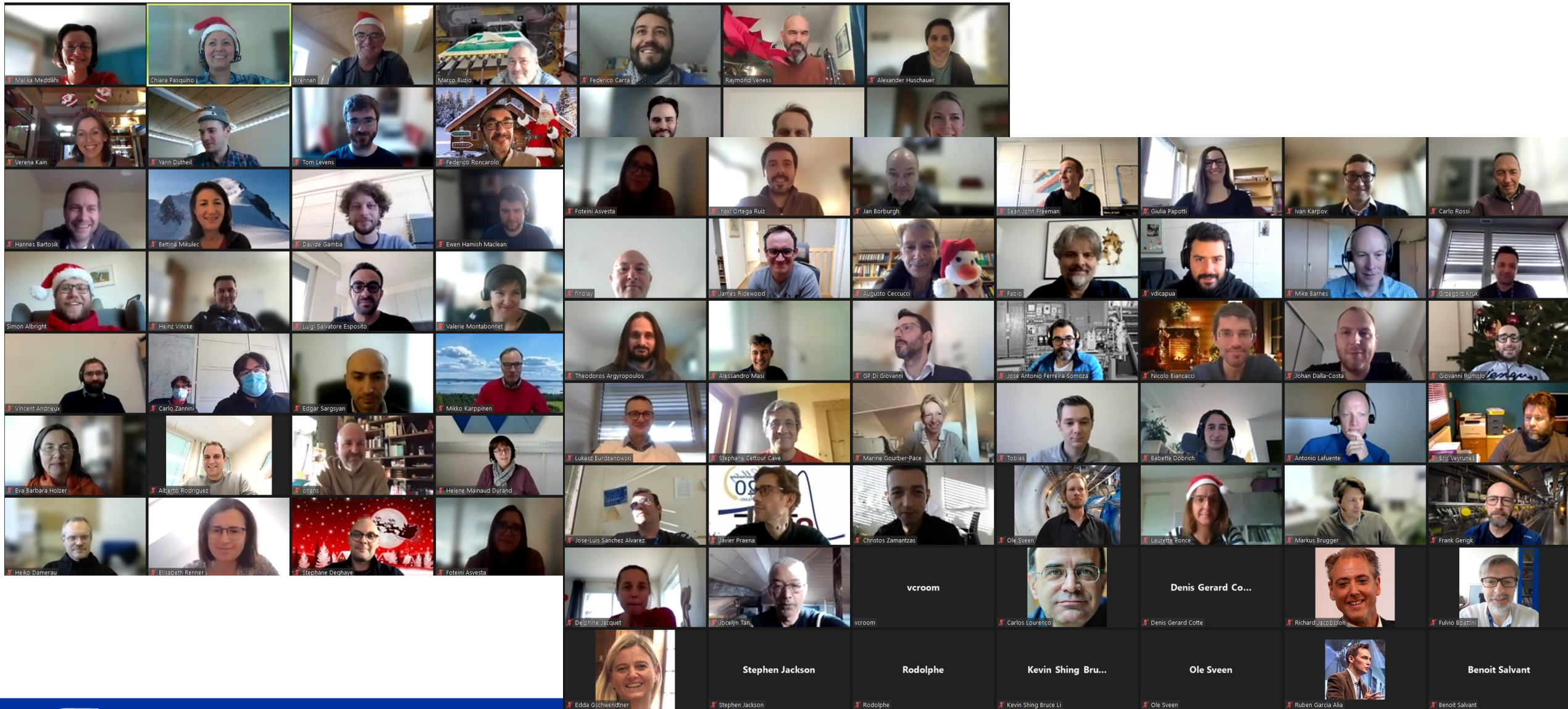
*'The CERN **Injectors and Experimental Facilities** workshop aims to bring together the clients and accelerator operations teams to focus on lessons from 2021, the desiderata for 2022 and the longer-term perspective.*

Themes covered will include experiments' requirements, accelerator and equipment performance, reproducibility, stability, metrics, efficiency, communication and priorities.

The outcome should be a documentation of present and future limits, as well as a set of specific proposals for the injector complex improvements to follow up through the IEF and other channels.'

[Introduction to IEF 2021 Workshop. M. Meddahi, B. Goddard](#)

2021 'Zoomtreux' Injectors workshop



5th December 2022

Chiara Pasquino | Outcomes of 2021 Montreux Injector Workshop - Session 1

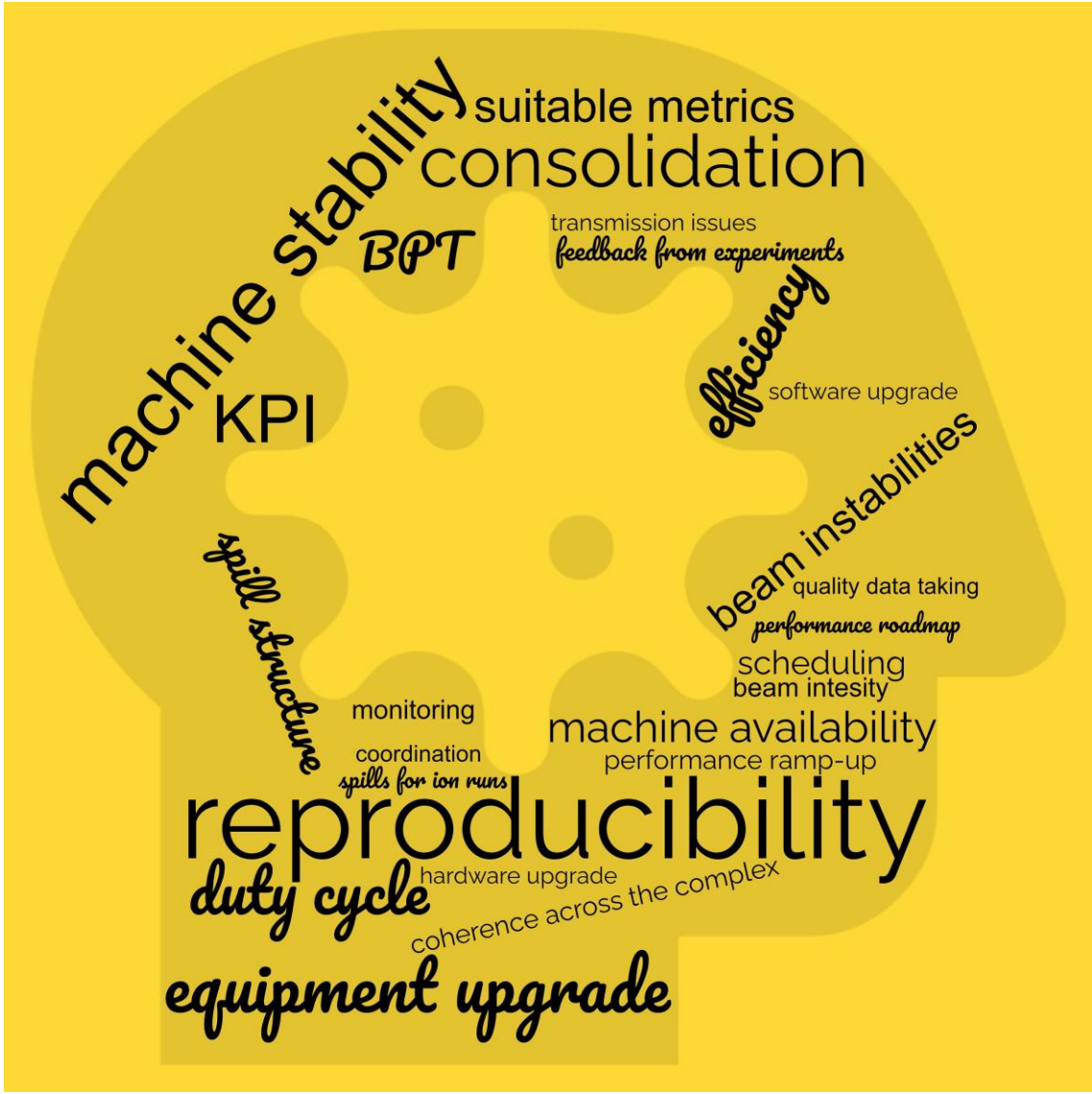
Outcomes : main themes for 2022 and beyond



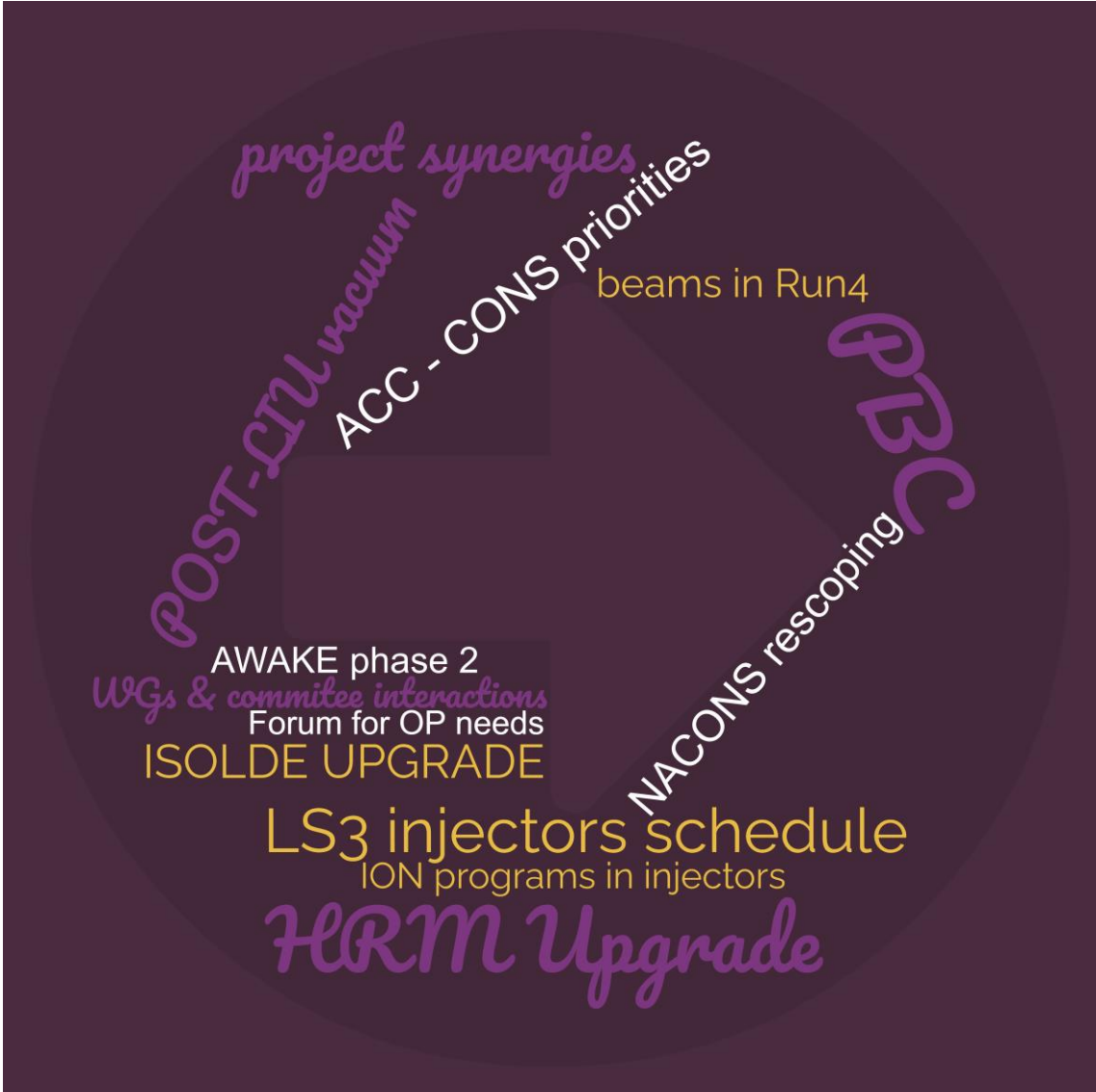
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Outcomes: PERFORMANCE




Outcomes: STRATEGY



PROGRESS MADE SO FAR



Progress: PERFORMANCE

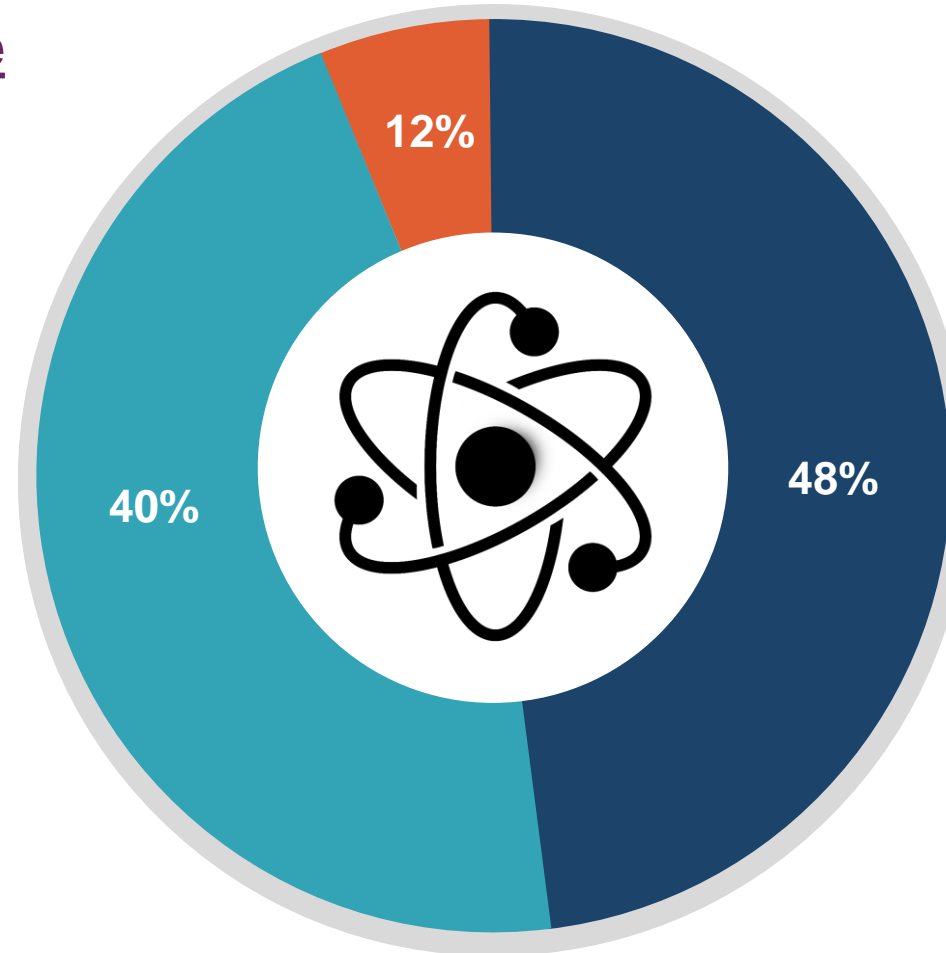
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- Need better process/forum and clear responsibility for managing performance and operation related strategy, upgrade proposals and other requests → **still somewhat gray area (IEFC)**
 - Propose complex-wide effort on performance/efficiency/reproducibility/flexibility (project or task-force) → Efficiency Think Tank
 - Spill structure, monitoring and correction to have an increased priority, critical for NA physics clients (needs experiments plus ATS effort) → 307th IEFC
 - Investigate extension of SUWG approach to wider SW upgrade process: → SUWG @ CTTB
 - Performance Roadmap document → **partially covered by ECN3 TF & ISOLDE WS, but to be completed (more focus next year needed)**

Progress: STRATEGY & organisation

- Improve present ambiguity/overlap/barriers between some WGs/studies/units → 305th IEFC, also extended IEFC prep meeting
 - Run3 Injectors Schedule: planning anticipation, improve coordination with EA → new process
 - Plans & implications on work in LS3 for beams in Run4:
 - ✓ ISOLDE 2GeV/BTY targets & dump upgrade → ISOLDE workshop
 - ✓ Ion mid-term programs in Injectors → 316th IEFC - Ions WG
 - ✓ HRM upgrade → 310th IEFC – HRM upgrade WG
 - ✓ NA CONS rescoping for LS3 → 316th IEFC – ECN3 TF and preliminary report
 - IEFC and ACC-CONS interactions → **IEFC@CONS**, **ACC-CONS report@IEFC**
 - POST-LIU missing framework → **was IEFC + IPPs enough in 2022?**
 - Forum for OP needs → **Is OP Technical Meeting enough in 2022?**

IEF2021 - Actions Follow-up

IEF2021 - Actions Follow-up file



Completed

In Progress

Not Started

TOT 84 ACTIONS

Let's draw some conclusions!

- ✓ **IMPRESSIVE** amount of work, across departments, involving experts and hierarchy → **ATS wide effort!**
- ✓ **CHOOSING SPECIFIC THREADS** has allowed efforts to be focussed and seems to make a positive difference
- ✓ **VERY GOOD RESULTS**, from OP and from Experimental Areas Perspective → these efforts to better integrate and involve all stakeholders had a positive **IMPACT!**
- ✓ **STILL ROOM FOR IMPROVEMENT** on few longer-term aspects (strategy, coordination OP/ACE/EA, coordination of machines maintenance and consolidation, ...)

BIG THANKS TO EVERYONE FOR ALL THE WORK DONE

AND THE THOROUGH FOLLOW UP!