



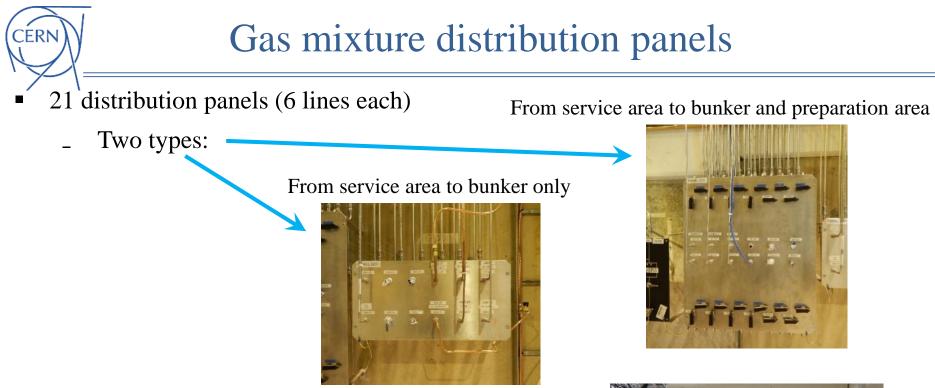


## The gas systems infrastructure for the CERN Gamma Irradiation Facility

## R. Guida on behalf of the CERN Gas Service Team (EP-DT-FS)

AIDA-2020 4th annual meeting

R. Guida CERN EP-DT



Corresponding gas panels in the GIF bunker

- Additional supply gas panels: good idea to decouple users
- Additional panels can be useful in the near future.
- However, it would require installation of additional pipes
- from gas area to bunker



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## Gas recirculation systems

## Complete commissioning

- Second generation of new gas recirculation system
- Installation completed;
- Not really AIDA-GIF, But AIDA-RPC eco-gas Commissioned at GIF will start asap (resource problem to be solved)
- To be used by RPC community (today high R134a consumption cost and ghg issue) Gas recirculation module Gas mixture purification module



Monitoring and controls panel



Cartridges with cleaning agents



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- The gas systems infrastructure is a key element of the successful R&D programs performed at GIF++
  - Gas supply and distribution panels almost fully used: add new?
  - Mixing units (originally built for cosmic and beam triggers) are now used by many other users
  - Gas recirculation systems and gas analysis modules are used for detector R&D studies
- Gas systems infrastructure is extensively used. Some resource problem:
  - to complete commissioning of new gas recirculation unit (really not AIDA but ATL&CMS-RPC)
  - Operation rely on EP-DT gas team already fully booked for LHC gas system activities