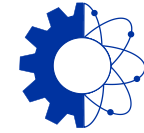


TECHNICAL GALLERIES
CONSOLIDATION



ENGINEERING
DEPARTMENT

Technical Galleries Consolidation Program

Introduction and goals of the meeting

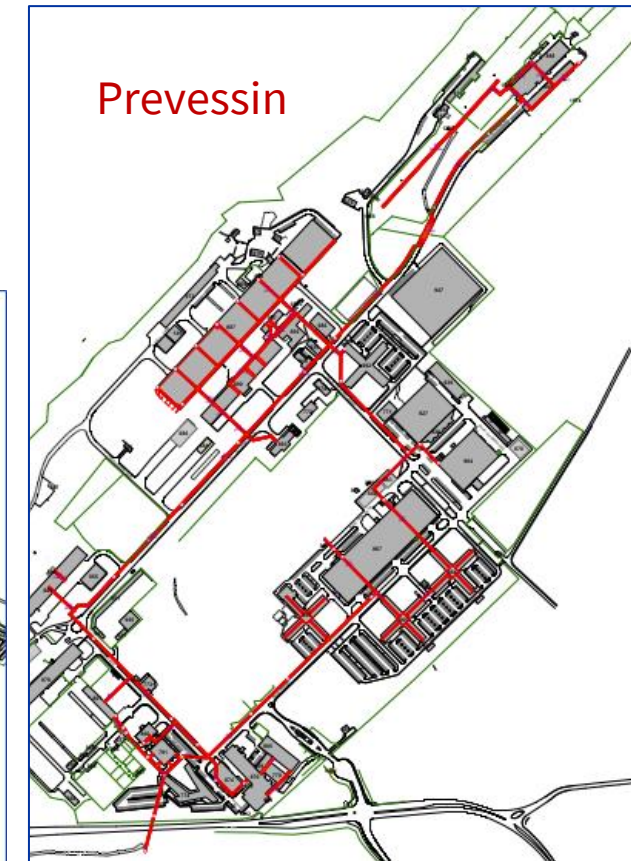
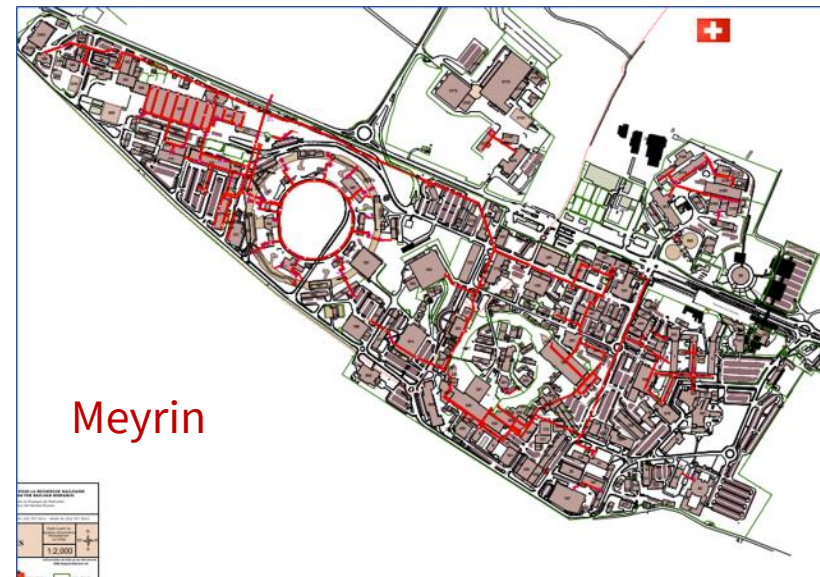
S. Evrard – EN – Program Leader on behalf of the Program Team

EDMS 3093700

Program Goals & Scope

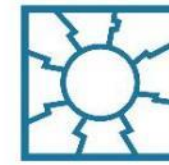
- **Remedy to the existing issues and refurbish the galleries' conditions to the extent reasonably possible.**
- **Get ready for probable future expansions, with respect to the MasterPlan.**
- **Further improvement related to a better management of safety and environmental related aspects**
- **Budget of 34 MCHF over 20 years**

- Located on Meyrin and Preveessin sites
- Right below ground level, not underground
- Used for distribution network services through campus (or between buildings).
- Trenches, tunnels with beam lines, buried network are not included
- According to database:
 - 80 galleries for a length of 14 km
- 2 pilot galleries: 835 and 825
- Website: <https://tg-cons.web.cern.ch/>



Services/Systems

- Civil engineering
- Heating network
- Drain systems and sumps
- Water circuits: drinking, raw, firefighting, demineralised, chilled
- Compressed air
- Gas pipes (incl. He lines)
- Safety systems
- Cables: HV, LV, optical fibres, controls, IT communication
- Lighting

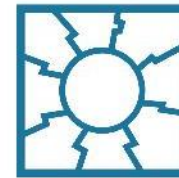


Pilot gallery 835

- Renewal after reengineering of circuits for
 - Heating network
 - Compressed air
 - Drinking Water
 - Cabling

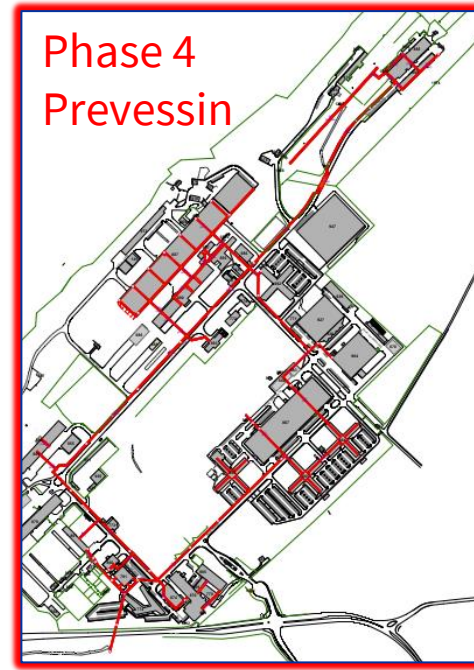
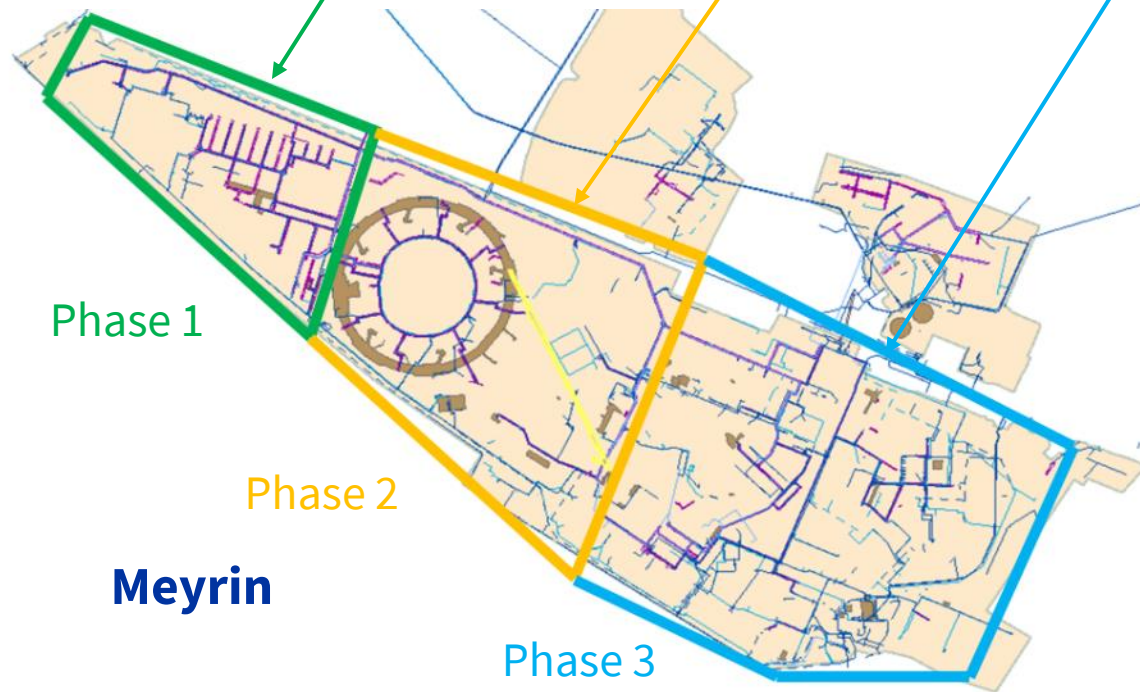


Program Master Schedule



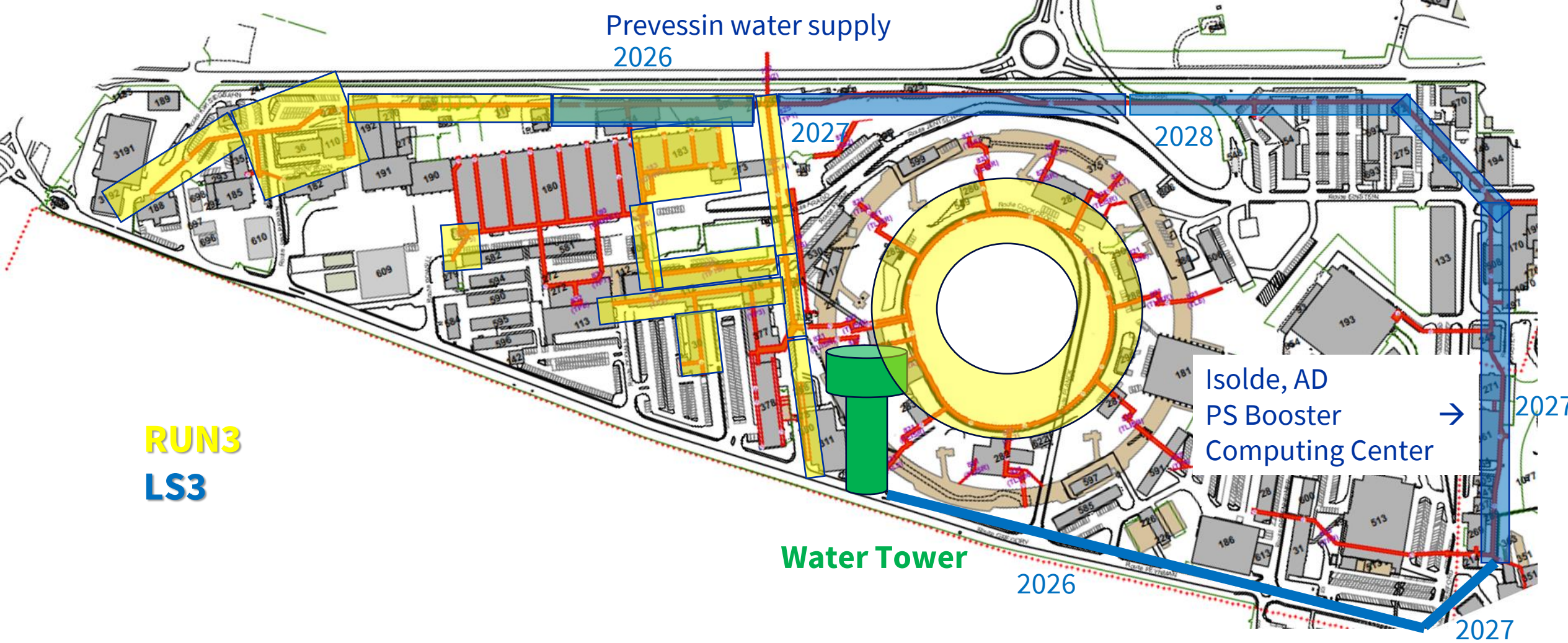
TECHNICAL GALLERIES
CONSOLIDATION

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
RUN3					LS3			RUN4					LS4		RUN5			LS5
Pilot		Phase 1			Phase 2			Phase 3							Phase 4			

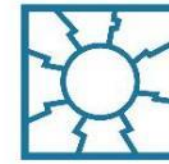


- Pilot exercise completed:
 - 2 pilot galleries have been renovated and many lessons have been learned.
- Methodology
 - service disruption mitigation measures - cost-efficiency approach
- MTP 2023
 - Program slowdown from 2024
 - 34M over 20 y, instead 12 y

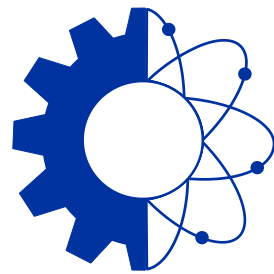
Program Master Schedule – RUN3 – LS3



Goals



- **Make a status report on phase 1**
- **Introduce preparatory works for phase 2**
- **Assess budgetary situation**
 - Propose budget reprofiling for next years
- **Update and discuss open issues/challenges**
 - Gallery 837 structure
 - Emergency Call System
 - Normal and Emergency lighting
- **Get your advices and recommendations**



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