



PSB Upgrade
LIU Project

Prioritization of Cabling Needs

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with inputs from J.-C. Guillaume, P. Lelong and D. Ricci



Prioritization of Cabling Needs

IEFC Meeting held on Friday 16th December:

- *Critical cable areas in SPS and PS complex (D. Ricci)*
- “difficulty / impossibility to add new cables”

The issue:

- **New cables** to be pulled
 - Using existing routes
 - Through new routes (PSB area ↔ MPSB)
- **Already unused cables** to be removed
- **Future unused cables** to be removed
- **Crowded cables areas**



A few pictures (Wed. 21st December)





Prioritization of Cabling Needs → **ideas**

Prelim. discussion with J.-C. Guillaume, P. Lelong and D. Ricci
:

- Possible **strategies**:
 - Removing all cables then (re)pulling all cables → LHC
 - Removing some cables, pulling new cables... repeating
 - Removing all unused cables in one campaign LS1 then pulling all new and reused cables in LS1
 - Removing all unused cables in one campaign then pulling all cables in LS1 and SD 14-15
 - Removing all unused cables in one campaign then pulling all cables in LS1, SD 14-15 and SD 15-16
 - ...



Prioritization of Cabling Needs → **ideas**

Prelim. discussion with J.-C. Guillaume, P. Lelong and D. Ricci
:

- Issue #1 → Existing databases:
 - Before 1989 : paper listings ; routing unknown
 - After 1989 : in *EL Cablothèque*
- Issue #2 → Cable marking
- Issue #3 → Cables to remove
- Issue #4 → Cables to pull
- Issue #5 → Work optimization (remove then re-pull)
- Issue #6 → Possible civil works required
- Issue #7 → EN-EL workload (already 8 projects on-going)





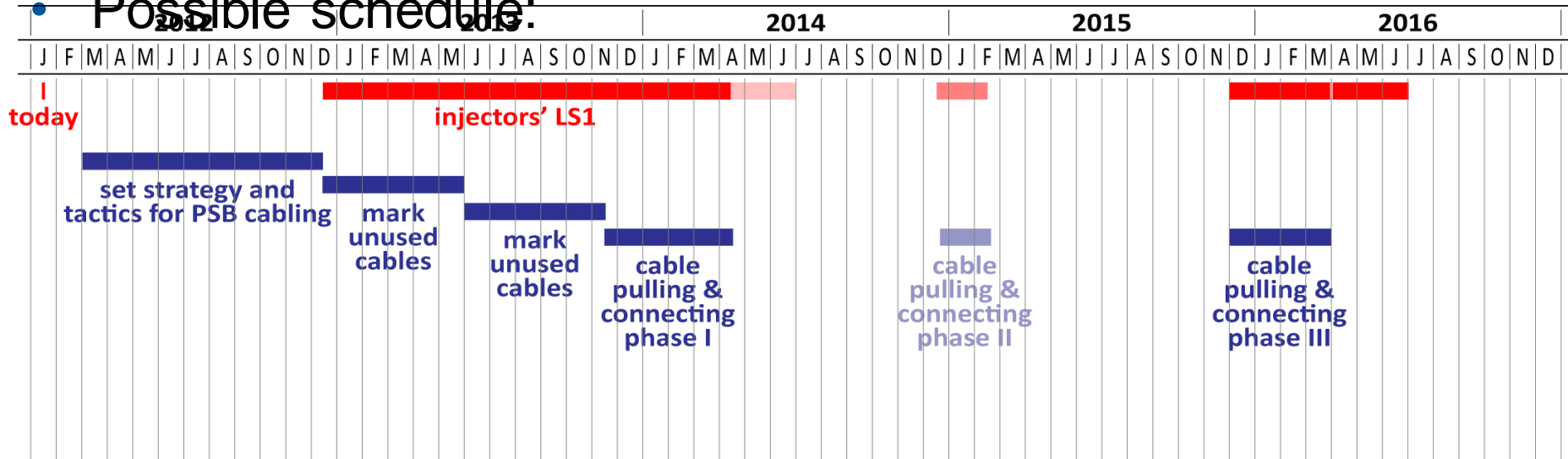
Prioritization of Cabling Needs → ideas

Prelim. discussion with J.-C. Guillaume, P. Lelong and D. Ricci




:

- Strategy to be set-up → **PSBU meeting** → end of February ?
- In favor of a single cable removal campaign → **LS1** ?

• Possible schedule:



Preparatory works

1. Identifying all new vs. old equipment  **on-going**
and associated cabling requirement
 **schematic layout required**  **to initiate soon**
2. Identifying **cables** that are/will be **useless**
3. Identifying **new cables** that need to be pulled
4. Identifying rather **crowded cables areas**
5. Optimizing **cable routes**
6. Marking then removing these useless cables
7. Re-pulling **useful removed cables** + pulling of **new cables**