BE-GM Working Groups
Instruments & Methods Consolidation

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Our objectives

To finalize and conclude on LS2 in order to prepare LS3

- Close monitoring of LS2 activities, actions and issues to finalize it as best as possible
- Perform REX meetings on the injectors, LHC, other areas as soon as possible
- Launch Working Groups to prepare LS3 divided into:

  - Renewal of contract
  - Software
  - Storage & equipment management
  - LS3 preparation
    - Instrument & methods consolidation
    - MDI area optimization
    - QA & training
Our objectives

- LS3 preparation
  - Instrument & methods consolidation
    - mHLS
    - Wire meas. Inter-comp.
    - Targets harmonisation
    - New wire ecartometer
    - New instruments
    - QR code tracing
    - AT vs targets
    - New InterX system
  - Wire protection
  - Levelling
  - Automatized meas.
  - Calibration needs
  - Fiducialisation baseline
  - 3D vs 2D+1
  - Deep references
  - UPS galleries
  - ECR to alignment
  - Workflow new line
  - Layout DB → Geode
- MDI area optimization
- QA & training
The WG «LS3 preparation – Sub WPs- » will be in charge of:

- **Defining of each activity with its responsible:**
  - Objectives of the activity
  - Deliverables
  - Milestones
- **Monitor the progress of work for each activity through regular meetings**
- **When several sections are concerned, organize meetings for brainstormings, defining responsibilities, priorities, clear deliverables and milestones**
- **Report at the open session of SLM**

<table>
<thead>
<tr>
<th>WG – Responsible per section</th>
<th>APC</th>
<th>ASG</th>
<th>ESA</th>
<th>HPA</th>
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<tbody>
<tr>
<td>LS3 prep. – consolidation</td>
<td>Francis</td>
<td>Patrick (Pierre, Alban, Julien)</td>
<td>Alex (Dirk, Benoît)</td>
<td>Vivien (Andreas)</td>
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WG Mandate & Responsibilities

The aim is NOT to produce final results inside the WG, but to prioritize and coordinate the different tasks!

We can, need and should engage resources outside the WG!

The WG should be the coordinating and driving force

Platform for discussions across sections to ensure a coherent approach

Meeting frequency at least every two month
### Instrument & methods consolidation

- **mHLS**
  - Consolidate, exploit and explore further possibilities

- **Wire meas. Inter-comp.**
  - Different means of wire measurements in particular Photogrammetry

- **Targets & harmonisation**
  - Harmonisation of different target types, adapters, nests

- **New wire ecartometer**
  - New versions of ecartometer

- **New Instruments**
  - Any particular needs arising from LS2 issues

- **QR code tracing**
  - Tracing of all Equipment in INFOR, calibration, certification, issues

- **AT vs Targets**

- **New Inter X system**
  - LHC interconnect monitoring, lessons learnt, needs, alternatives

- **Wire protection**
  - Protection of the permanent wires, issues, problems

- **Levelling**
  - Unique & coherent adjustment approach, pushing our today's limitations

- **Automatized measurements**
  - Permanent monitoring, tunnel stability

- **Calibration needs**
  - Needs for calibration infrastructure and certification, homogenisation

- **Fiducialisation baseline**
  - Baseline for parameter determination for all services
Your vision?

Any other issues you would like to see inside the WG?

Any preferences on the dates and time?

Instrument & methods consolidation

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