Projet Layout Document

High Level Requirements

1 Basic Operational Parameters
- Instantaneous, integrated Luminosity, etc..

2. Tracking performances
- Driven by Physics program; discuss also robustness vs failures, high pile-up, end of lifetime, etc..

3. Interface to the LHC Machine
- Specific design parameter of LHC: beam pipe radius, beam parameters...

4. Interface to the ATLAS Experiment
- Trigger, TDAQ, calibrations, ...

5. The Access to the detector and Maintenance Scenarios
- Defines interdependence between Pixel and strips

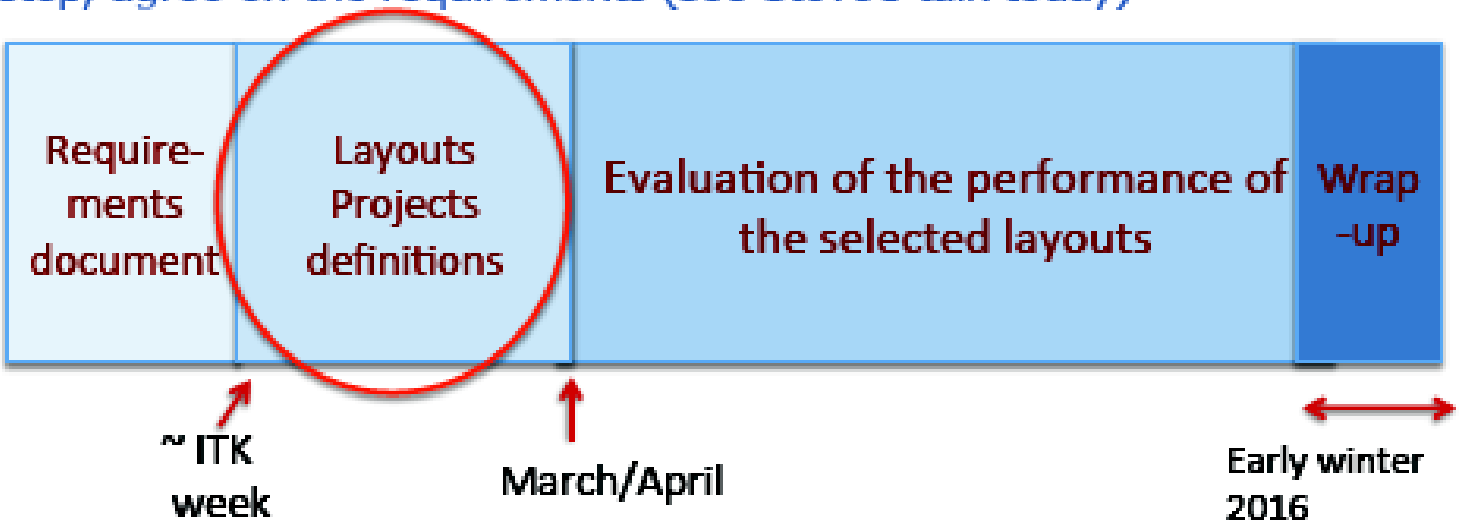
6. The Mechanical Constraints

7. The Electrical Constraints

- Reviewed by 3 editors
- Then discussed with LETF and Upgrade Physics
- Maybe ready for the ITk meeting at the end of February ?

Layouts Projects Definition

- An approach has been discussed at the last ILTF meeting.
  - First step, agree on the requirements (see Steve's talk today)



- Then, proponents are asked to provide a Project Report for each layout.
- This documentation will make possible to start the comparison of the performances as well as an evaluation on all the projects aspects (engineering, trigger, performance, manpower , cost etc..). → ideally this will also compact groups and 'similar' projects.
- Next, we will be able to more deeply evaluate the few selected ones.

Project Report - Phase 0

1. Lire le template du Projet Report (sur l'agenda)
2. Donner son avis et ses critiques eventuelles que l'on fera remonter dans les reunions correspondantes
3. Chacun commencer a rediger son morceau !

Project Report - Phase 1

- ✓ **Groups will be invited at the ITK week to present their projects in a short presentation (~10-15 minutes)**
  - Mail will be sent to itk-general to be sure everybody is aware.
  - Then projects will continue to be discussed in the ILTF meetings.
  - Finally the Project documentation will be requested (End of March/April)