



CBG CMS Working Group: Overview

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Introduction

Introduction — REMINDER



CERN Baltic Group CMS: why did it start?

1. Historical reasons

- Earlier last year CBG was established
- CMS subgroup was founded

2. We **want to** ...

- understand our current engagement in CMS
- identify mutual strengths and assistance areas
- profit from collaborative work **in the Baltics!**

3. Better understand mutual “**want to**”

4. Learn about perspective projects for the **region**

5. Come to first preliminary agreements on **CMS coprojects**



Introduction: In Short

Meeting had three objectives

1. Understand current engagement in CMS
2. Define common areas
3. Get exposed and discuss future projects

the **above** still holds as today.



Personnel

Crash Course into Baltic CMS Personnel



1. Estonia: 2 senior scientists, 3 postdocs, 1 PhD student participate from Tallinn in CMS. While Tartu could have 3–4 people that are currently not yet engaged.
2. Latvia: 2 senior scientists, 1 engineer, 2 PhD students
3. Lithuania: 3 senior scientists in HEP, 3 in related material science (MS), 1 postdoc (MS), 1 PhD student (as in slides).



Hardware Projects



Hardware Projects

Two projects were presented in detail:

1. TEPX: Tracker Extended Pixels
2. MTD: Minimally ionizing particle Timing Detector

⇒ very challenging according to business representatives.

⇒ variety of tasks, useful for students and future business

Business-inspired detector needs to be identified?

Not yet discussed in detail: GEMs, track-trigger



Computing Projects

Computing Projects



1. CMS CompOps \Rightarrow range of participation possibilities (esp. interesting to Latvian representatives).
CMS is flexible to new resources.
2. Idea involving EuroHPC with Baltics was brought up.

Tallinn is planning Tier 2 upgrade: links up to 100 Gbps.



Summary



Summary

- The meeting succeeded reaching the objectives
- Further business engagement needed for choosing project
- There will be three different topics for future discussions:
 1. Physics research
 2. Computing and software
 3. Hardware / Engineering



Additional Comments

- Once you vote: up to 3 days/slots may be identified:
 1. Physics research
 2. Computing and software
 3. Hardware / Engineering
- Do we want all in one or lighter as pointed out?
- In lighter version: 2-4 hours should be plenty.
- Vidyo only (i.e., vidyo preferred)?



Links

- Past meeting [here](#)
- Doodle for the next meeting [here](#)