

The slide features a decorative arrangement of six circles. Three circles are solid light purple, and three are hollow with a light purple outline. They are arranged in two rows: the top row has three circles (hollow, solid, solid) and the bottom row has three circles (solid, solid, hollow).

General Machine Timing Review

Introduction

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A decorative graphic at the top of the slide consists of two groups of three circles. The first group on the left has a solid light purple circle on the left, a white circle with a light purple outline in the middle, and a solid light purple circle on the right. The second group on the right has a solid light purple circle on the left, a white circle with a light purple outline in the middle, and a solid light purple circle on the right. The word "Outline" is written in black text over the first solid circle.

Outline

- Motivation.
 - Technical.
 - Other.
- The review process.
- Plan for the day.
- Modus operandi.
- Some preliminary remarks.



Motivation

- Technical:

- General Machine Timing (GMT) system is the result of long evolution.
- Many compromises for legacy support.
- Injector controls renovation project: perfect time to review timing choices.

- Other:

- GMT done in small team within AB-CO-HT, PS-style organization not realistic anymore.

The review process (1/2)



- Three months of brainstorming with key actors:
 - S. Deghaye, AB-CO-AP (requirements and InCA integration).
 - M. Arruat, AB-CO-FE (requirements).
 - R. Billen et al., AB-CO-DM (data model and access to static timing data from applications).
 - M. Sobczak et al., AB-CO-IN (middleware).
 - R. Steerenberg et al., OP (requirements).
 - M. Jonker (SPS/LEP experience).
 - External experts for hardware (workshop).
- Equipment groups not forgotten (but assumed the above represent their interests to first order).



The review process (2/2)

- Main themes:

- Use standard kit. Let the experts do their thing.
- Timing has no reason to be special.
- Make timing maintainable.
- Make it exportable (used as benchmark for good design, might even be useful).
- Revisit old unsatisfied requirements without legacy bias.
- In short: use our experience to design the best NEW timing system possible.

Plan for the day



- Morning:

- Introduction.
- Current state of affairs.
- Requirements.
- Proposed solution.
- Highlights of proposed solution.

- Afternoon:

- Discussion.

Modus operandi



- All presentations time slots include 5 minutes for questions.
- Discussion will be moderated by the review chair (if needed).
- Goal of the review: get endorsement from the AB-CO GL to launch, within the Injectors Renovation Project
 - A study on the Virtual Accelerator concept.
 - A Timing Renovation Project (TC to be held in March).



Some preliminary remarks

- Thanks everyone for your amazing involvement in such a complicated time.
- Definite change in timing culture underway: exciting times ahead.

NOW LET THE FUN BEGIN