



**Physics and Detectors
for a Linear Collider**

Vienna 13 – 17 November 2005



What has happened since Durham

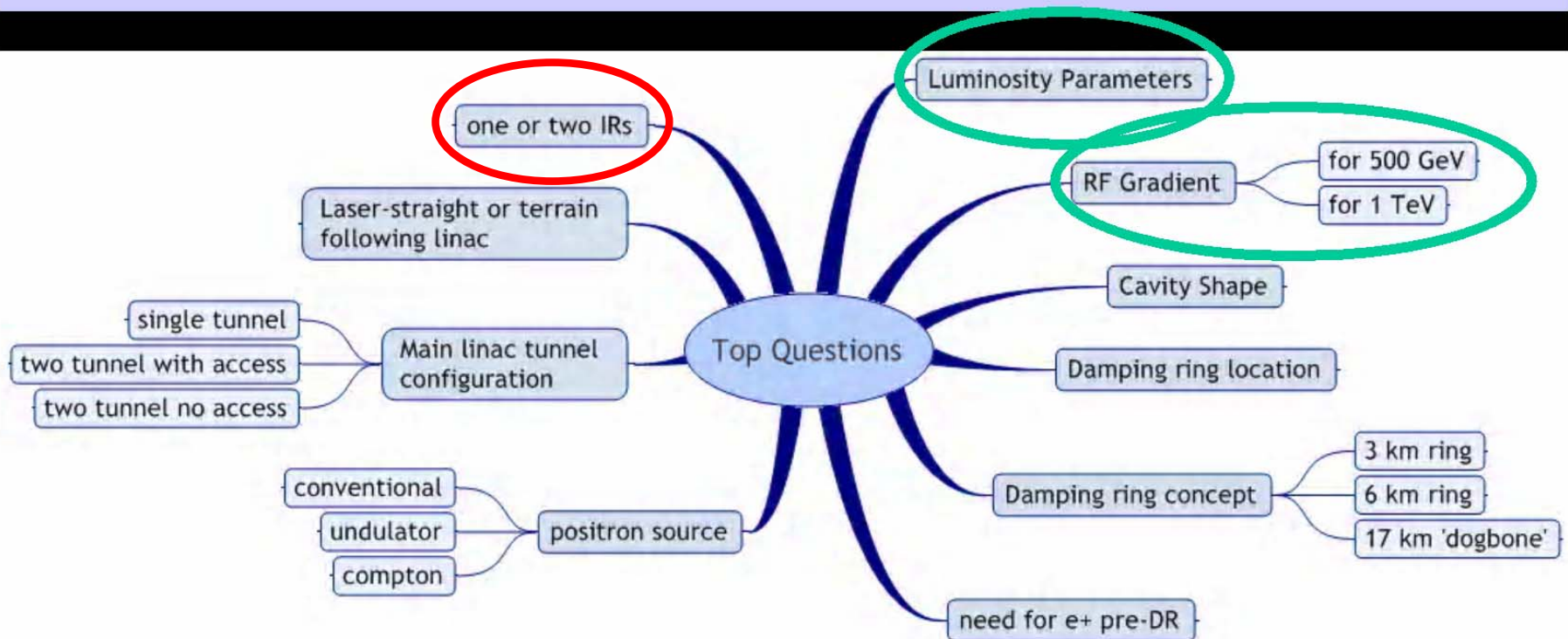
- GDE organisation and roadmap have been established
 - Major decisions to be presented at Frascati
- The WWS is now part of the GDE:
 - Detector Conceptual Report at the end of 2006
 - Detector R&D priorities are being defined
- 3 Detector Concepts (+1?)
- EUDET was approved 7M€ 2006-2009
- Outreach activity ~1 FTE
 - Perrine Royole-Degieux, GDE/IN2P3

The GDE

– The Mission of the GDE

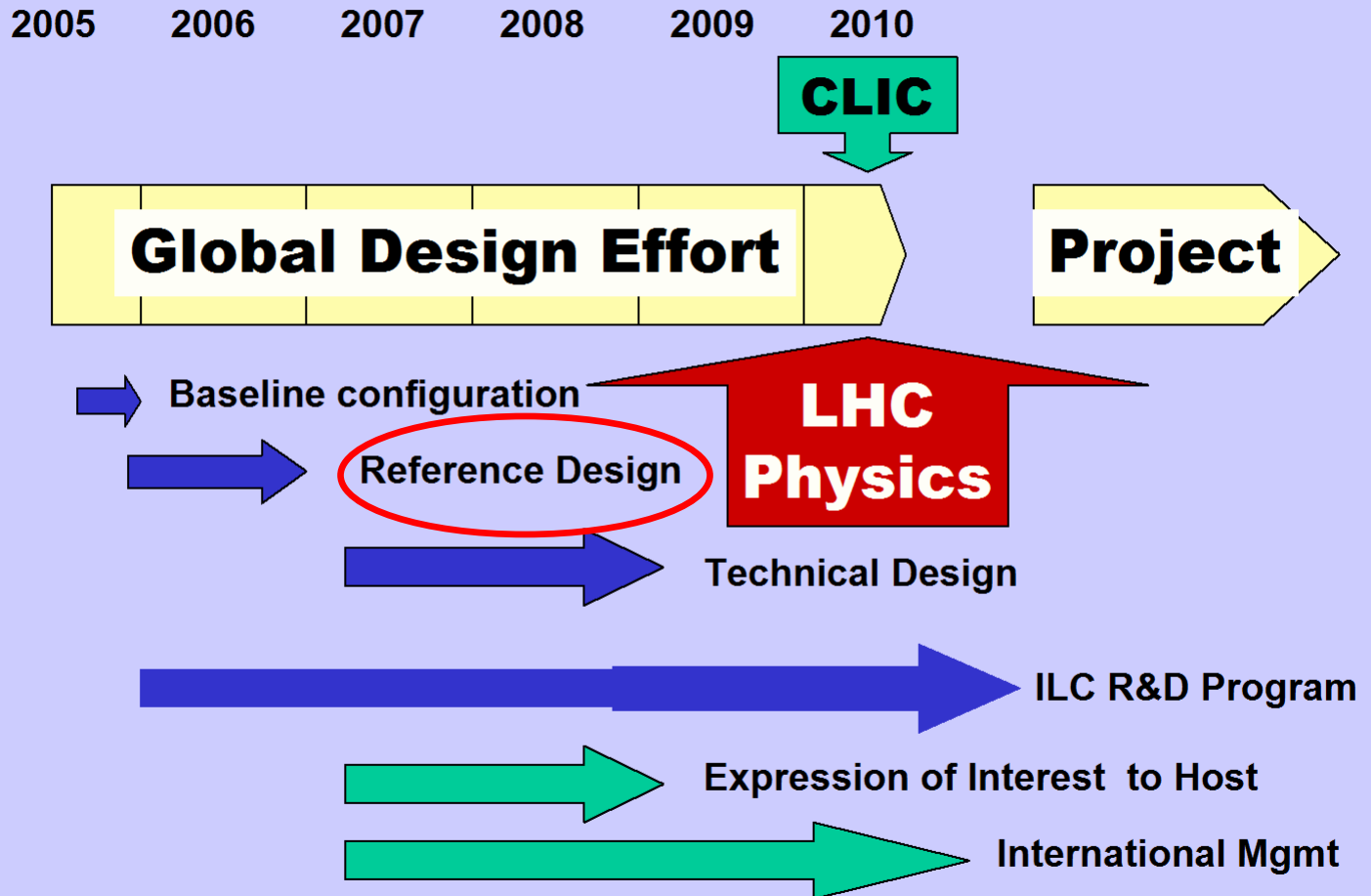
- Produce a design for the ILC that includes a detailed design concept, performance assessments, reliable international costing, an industrialization plan, siting analysis, as well as **detector concepts and scope.**
- Coordinate worldwide prioritized proposal driven R & D efforts (to demonstrate and improve the performance, reduce the costs, attain the required reliability, etc.)

The Key Decisions

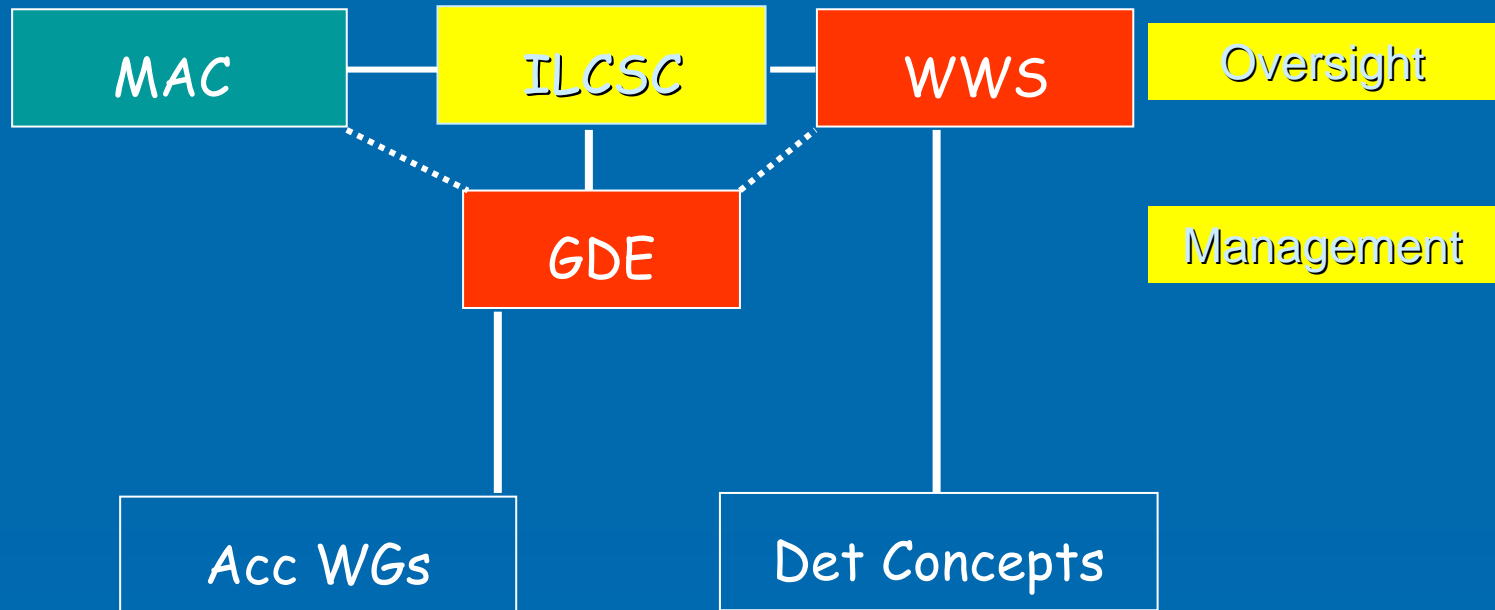


Critical choices: luminosity parameters & gradient

The GDE Plan and Schedule



ILC Management



- Machine Advisory Committee reports to ILCSC and GDE
- 3 WWS co-chairs part of the GDE

Some WWS tasks

In parallel to the machine effort:

- Prioritize the **detector R&D** (see C. Damerell), help in increasing resources (e.g. EUDET see J. Mnich)
- Prepare for the **Detector Conceptual report** end of 2006 (input from the concepts due before LCWS06)
- Influence **Machine Detector** connections
- Encourage the **Software** effort (panel)
- Prepare for **LCWS06** in (Bangalore March) conjunction with the GDE

Detector Conceptual Report

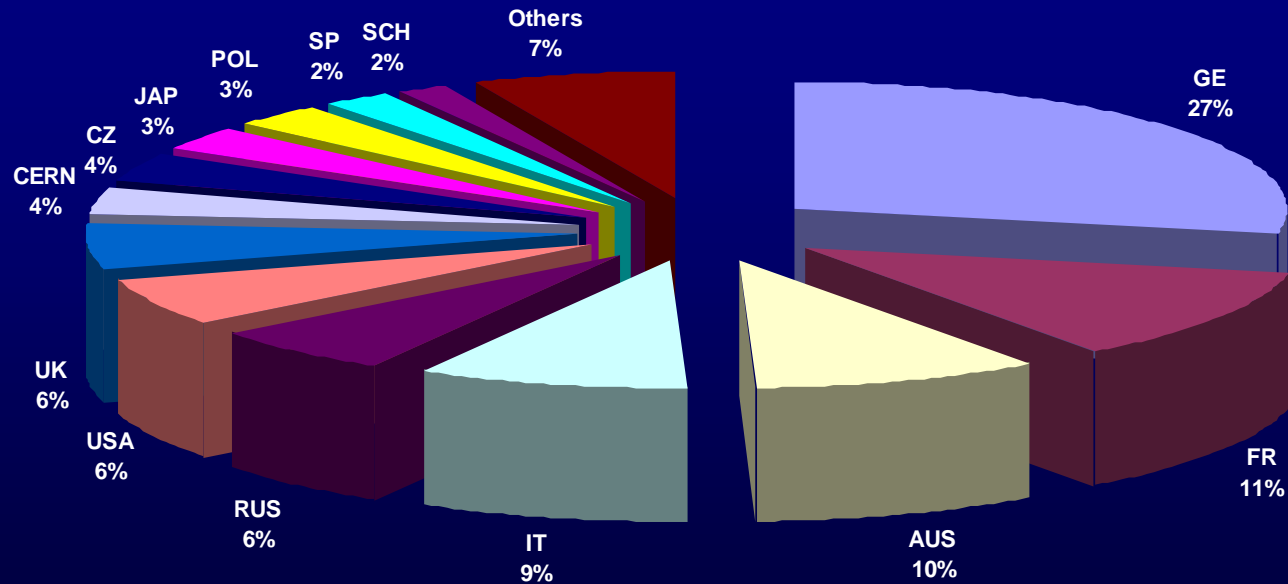
- Due end of 2006, there will be:
 - A **physics** section describing the primary goals
 - A **detector** section describing what is needed to reach these goals (including **LEP** aspects, options)
 - Examples of how this can be done (the **concepts**) including **costing**
 - The ongoing and still **needed R&D**
- It is proposed to nominate:
 - 1 team of 3 editors for physics (1 theorist included)
 - 1 team of 4 editors (3 from concepts, 1 from R&D panel) for the detector
- These editors will distribute the work among the relevant experts
- The 3 co-chairs intend to follow closely this process

ECFA study meetings

Do we need them and why?

- Once per year, **3.5 days** to cover a wide spectrum of topics, to inform the ECFA community, give it the opportunity to express opinions about choices, make suggestions
- Forum to encourage new ideas, give an opportunity to young talents to express themselves
- For this meeting, we will keep the format ~ R&D + phenomenology driven
- In the future, more room to the concepts, try to connect to the GDE (Snowmass, Bangalore)

229 registered to this meeting





Future workshops

- LCWS06 in Bangalore March 9-14
<http://www.tifr.res.in/~lcws06/>
- ALCPG Detector Simulation WS on Jan 9-11, 2006
<http://www-hep.colorado.edu/cuilc/sim-workshop.html>
- ECFA meeting time and location to be discussed by the OC+Conveners on Friday at 18h

Our best wishes of recovery to David



Summary from DM at Snowmass

We've done a lot of work.

**There's *much* more for us to do in
close collaboration with the GDE**