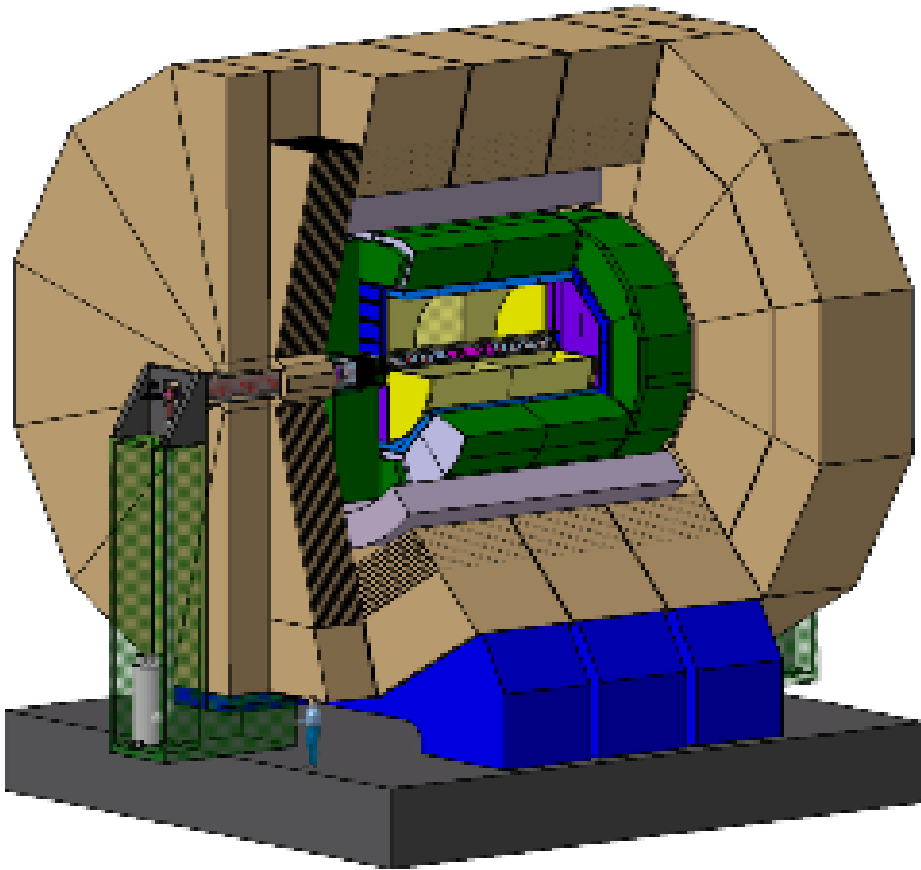


ILD: route to the DBD



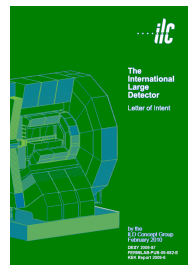
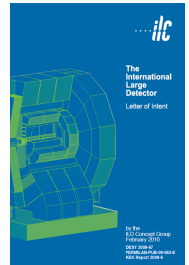
Letter of intent (2009)



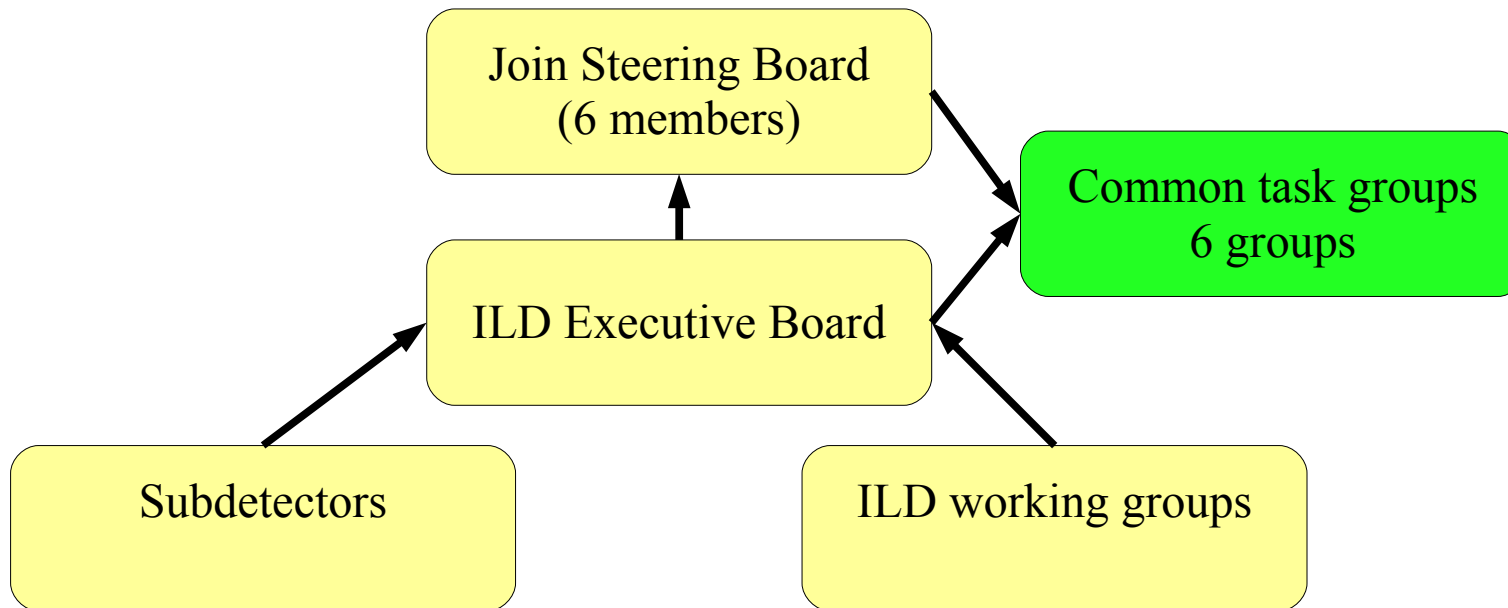
Evaluation
Readiness
Flexibility

Detailed Baseline Document
(DBD) 2012

Solid and reliable design

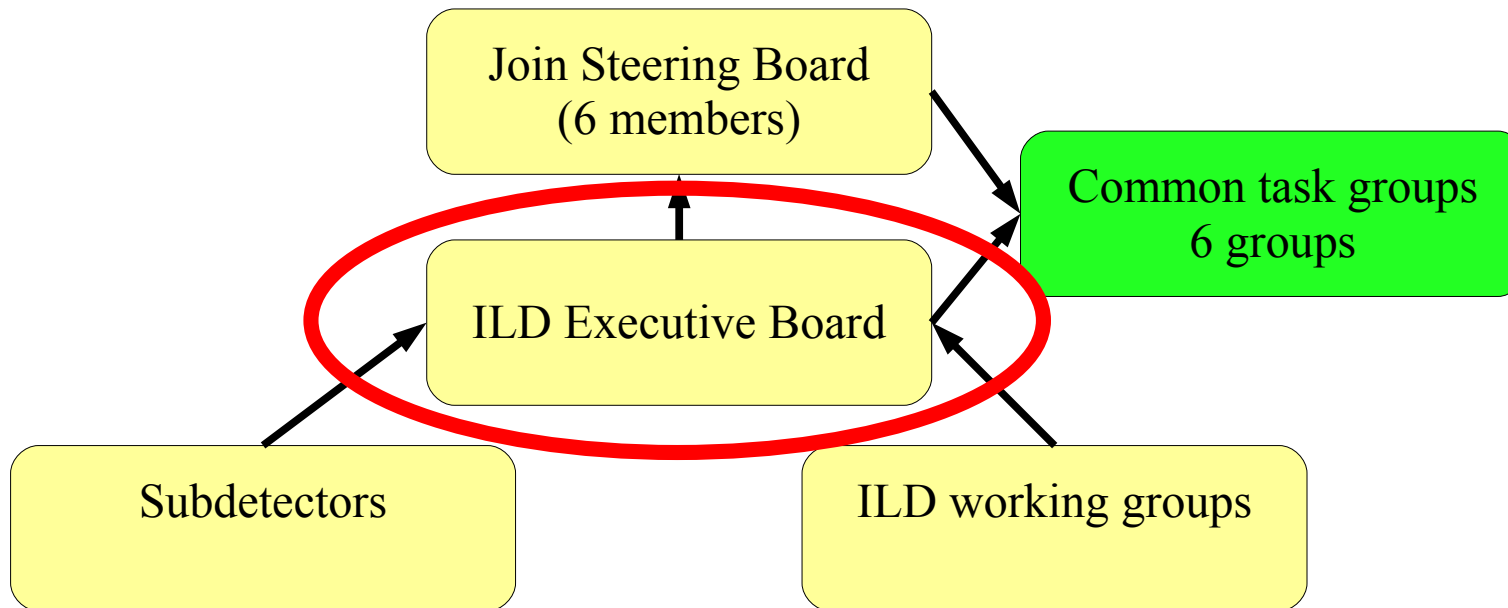


ILD organisation



- optimization
- software
- backgrounds
- integration
- alignment and calibration (dormant since LOI)

ILD bodies



- optimization
- software
- backgrounds
- integration
- alignment and calibration (dormant since LOI)

Structure may need to evolve with time: do we need an institution board?

ILD as a group

During LOI phase: intense discussions within ILD happened at different levels

- dedicated working groups (e.g. integration, alignment, ...)
 - Software working group
 - optimization working group

 - Proposal: have a regular ILD meeting (replaces optimization meeting)
 - every N weeks (n=2 or N=4?)
 - Regular
 - Reliable
 - interesting
- This meeting should be the place to exchange information within ILD, to discuss recent work, to present new results.

ILD as a group

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- dedicated working groups (e.g. integration, alignment, ...)
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- optimization working group

Integration is very active

Analysis/ optimization part is less active at the moment

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Organisation

Even though we are not a collaboration
and even though we are not a funded project
we need to move carefully to a project structure

See talk by Karsten

A central part of this: a common and central depository for information definitions, etc etc → EDMS (see presentation by Lars Hagge)

EDMS is only a tool (is will not do miracles)

But EDMS can be a vehicle to help us change our ways of working

A note: manpower for these “central” tasks is very limited

We need to make sure that it is used efficiently and well focussed.

We need to make sure that access etc to this is easy and open!

ILD project management

We need some support in ILD project management

- proposal within AIDA for ILD project office: dropped due to lack of money
- some (limited) EDMS project support available within AIDA
- resources at LAL/ LLR are central to the effort
- proposal within DESY for ILD project office: difficult to do with the current level of funding, small scale contributions are starting
- we need to find some more resources: working on this within DESY, help is welcome

But: minimize structures, minimize the overhead

Progress report

ILD presentation to IDAG during the Beijing meeting

- Discussion with IDAG on the state of the ILD effort
- Clear recognition by IDAG that manpower is problematic
- General agreement by IDAG with the procedures and progress presented by ILD
- They will talk to us again at the next meeting in CERN

ILD presentation to PAC at Valencia

- Discussion of the state of the effort
- PAC recognizes the manpower problems
- PAC was generally pleased with the progress made by the group

Engineering request: common request by ILD and SiD to the labs (Sakue to Rolf Heuer (CERN) to all lab directors) for additional engineering resources
Was delivered in June to Rolf.

Progress report

ILD presentation to IDAG during the Beijing meeting

IDAG gave input to the requested list of benchmarks

- Discussion with IDAG on the state of the ILD effort
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Progress Report

We are very happy that Tomohiko has taken over the responsibility of the WEB pages

The page should be available soon:

Please use it!

We should use this page much more to make ILD transparent and share information!

European Roadmap

Preliminary / unofficial/ not yet decided!

Input we need for the roadmap process:

Not ILD specific!

Excellent physics case (for a linear collider!)

An idea about the costs

Things we probably do not need for the roadmap:

A detailed detector design (DBD)

As part of the community we need to decide how to react:

We should support the (starting) effort to make the physics case once again

ILD - DBD

Requested Milestones

External constraints:

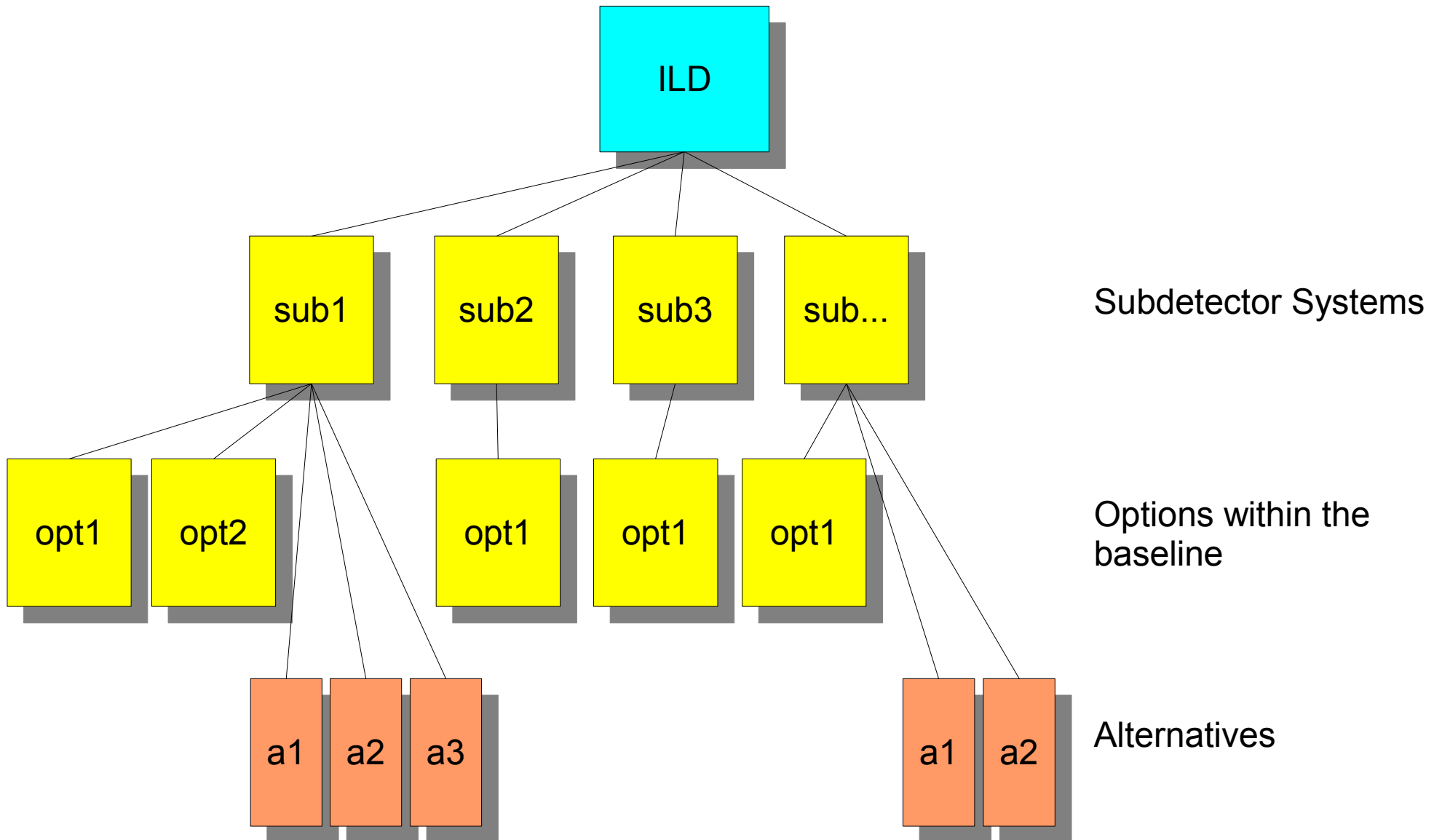
- Oct 2010 (ECFA in Geneva): interim review by IDAG
- End 2010: RD report to ILCSC
- End of 2012: deliver DBD

GDE now goes for middle of 2012?

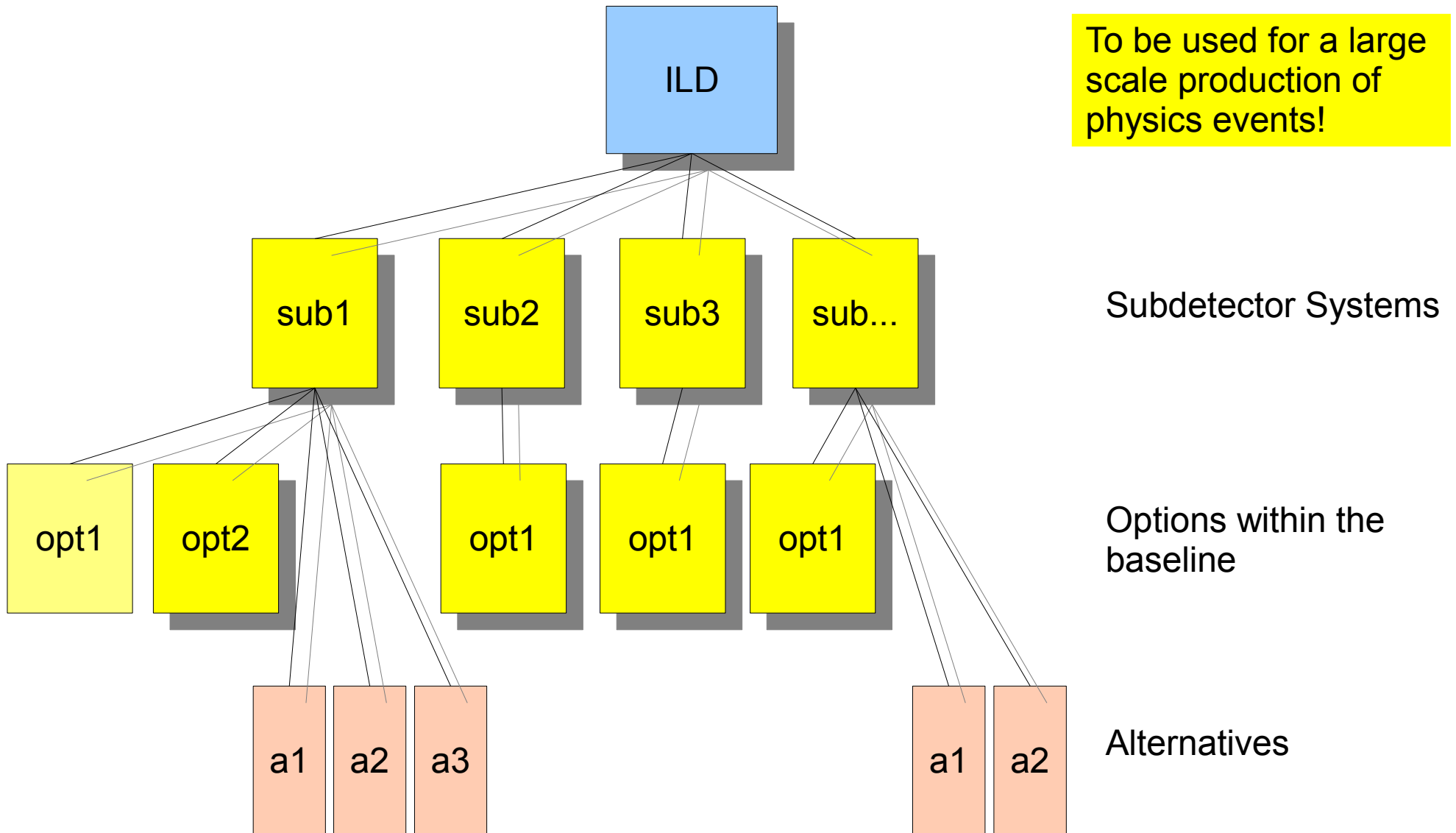
New information:

Update CERN council strategy is planned for 2012: need input from ILC (ILD) early 2012

ILD baseline



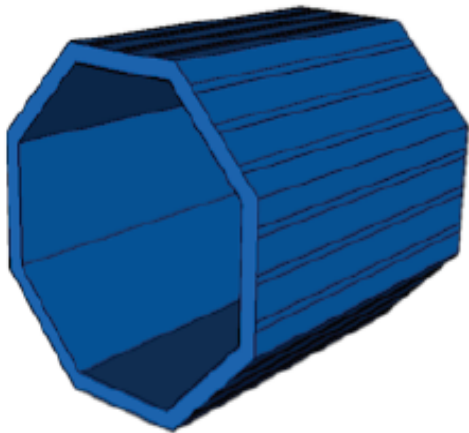
ILD: simulation baseline



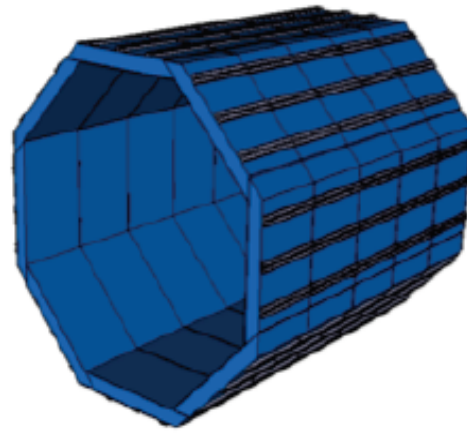
ILD baselines

Talk by Karsten: different version of the same model are needed:

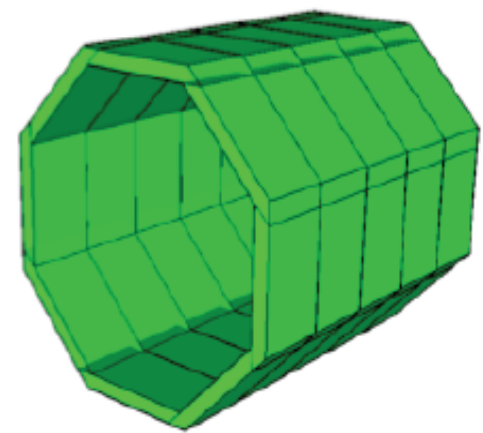
Placeholder



Detailed Design



Physics Simulation



For each system more than one technology might be “baseline”

ILD baselining

Baselining ILD requires:

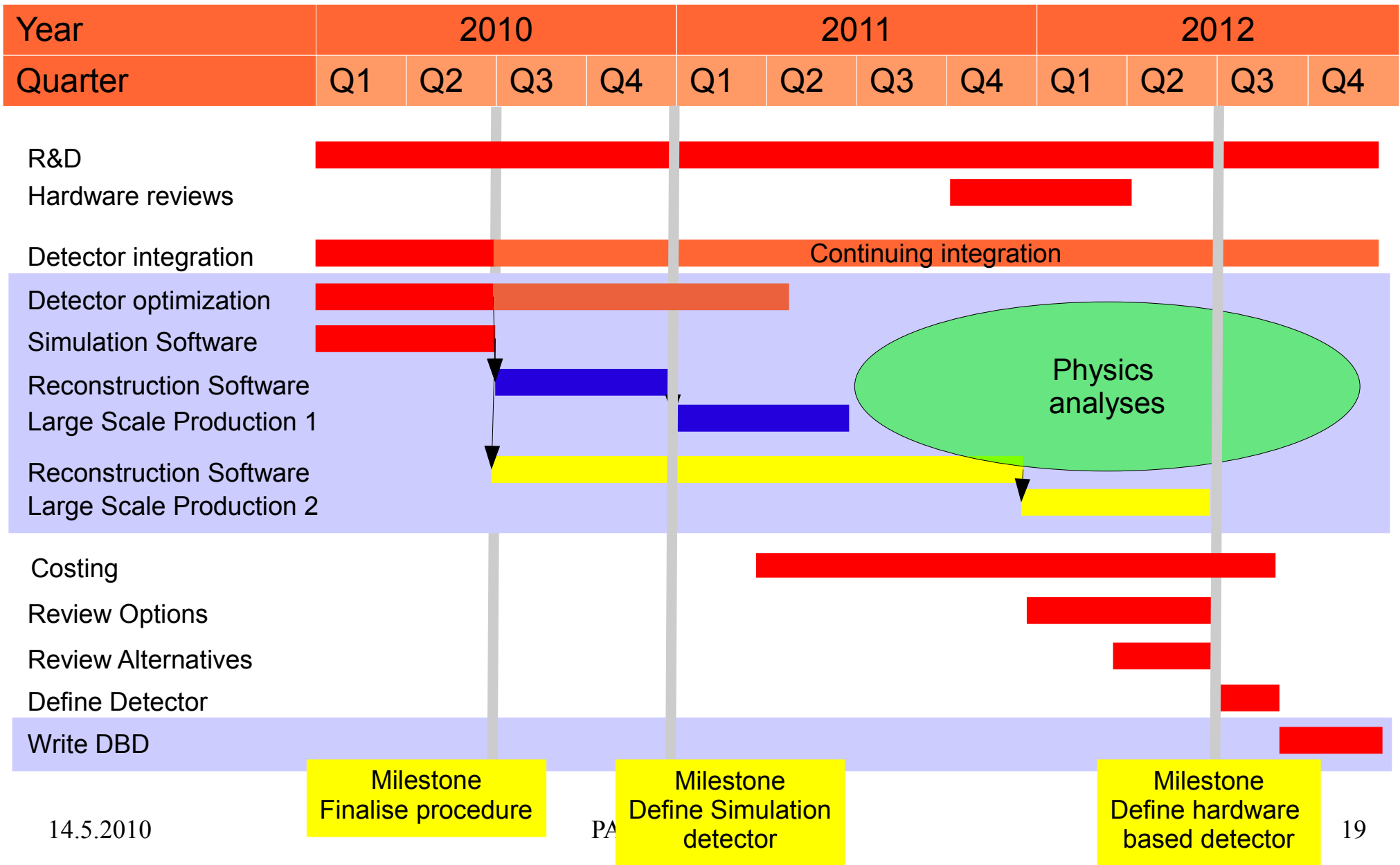
- control over the models
- defined responsibilities

We have to maintain a consistent model

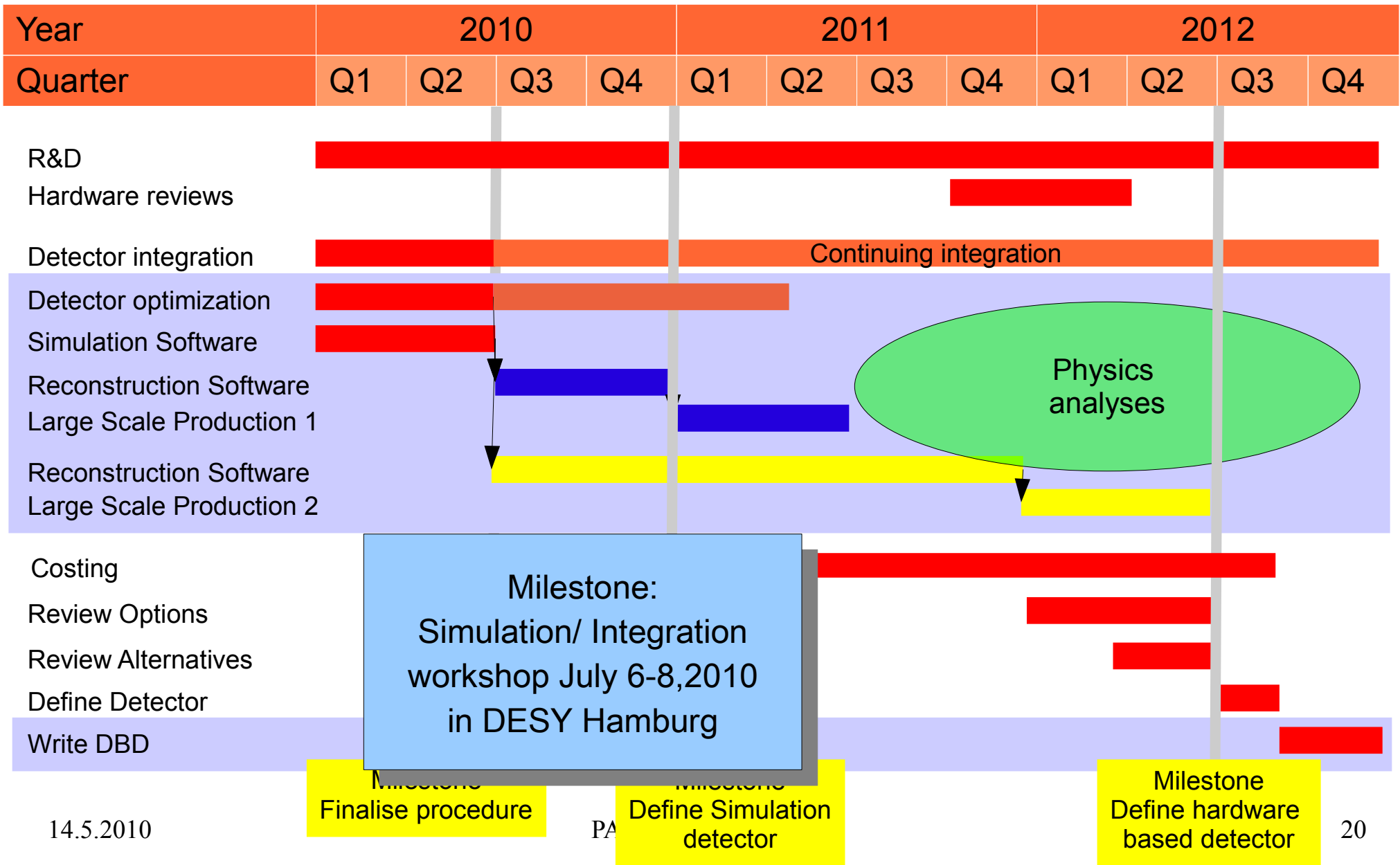
Developing a consistent model by 2012 requires work and some discipline (adhere to some rules)

A baseline has to go together with a cost: need to restart the costing exercise seriously

Main Milestones



Main Milestones



Review

We will need some sort of review process

to develop a consensus

which technology meets the requirements and which one does not

Internal review with ILD:

External review needed?

Timelines?

Review in the first half of 2012? Is this too late?

Proposed Criteria

1) Subdetector Performance:

Prior to evaluation: agree on performance criteria (e.g., as given in the LOI)

2) demonstrate the performance

- in simulation
- in adequate test beam experiments

3) demonstrate integration

- provide sufficient detail to be able to integrate into the ILD detector
- develop an engineering concept (level to be defined within the subdetector people)

Physics updates

The DBD will not be the document to make the complete physics case for the ILC!

Main focus of the DBD:

- Fill existing holes from the LOI
- Add 350 GEV analysis ←
- Add 1 TeV analyses

Maybe earlier already
as part of SB2009 discussion ?

See talk by Yasuhiro on the DBD
scope.

Software developments are on track
Need to decide the scope of a possible mass production.
This decision should happen in 2011?

Material for the DBD

Writing of the DBD: still in the future

We need to collect the material for the DBD

We should try to do better than for the LOI: write many technical notes
(we will need to setup a notes system which works for ILD (EDM, ILCnotes?))

More formal structure for the DBD: start setup end of 2011.

Meeting Schedule for ILD

Next ILD face-to-face meeting: at the ECFA workshop at CERN
($\frac{1}{2}$ day during the meeting)

Proposal: dedicated ILD meeting in the first half of 2010 at KEK (Japan)

Exact date to be discussed

(boundaries: Baseline assessment workshop in January
ALCPG meeting in Oregon (US) in March

Thanks to everyone for a nice and productive meeting

Thanks to the organizers:

Frank Gaede and his team for the overall organization

Frank Gaede et al for the software part

Karsten Buesser for the integration part

Have a good and safe trip home and see you at CERN in October

