



Summary of AD&I Session 1600 to 1800hrs Saturday April 18

Ewan Paterson
GDE



Purpose of Meeting

- Face to face meeting of Technical Area Group Leaders and Management to hear status reports on “Minimum Machine” R&D programs.
- Discussion of plans for continuing work towards re-baseline in 2010



PROGRAM

- Status of 3D CAD development Lars Hagge
- Beam Delivery studies Andrei Seryi
- E+ Source studies Jim Clarke
- Damping Ring studies Susanna Guiducci
- Klystron Cluster R&D Chris Adolphsen
- Distributed RF Shigeki Fukuda
- Near term studies Ewan Paterson
- AD&I towards re-baseline Nick Walker



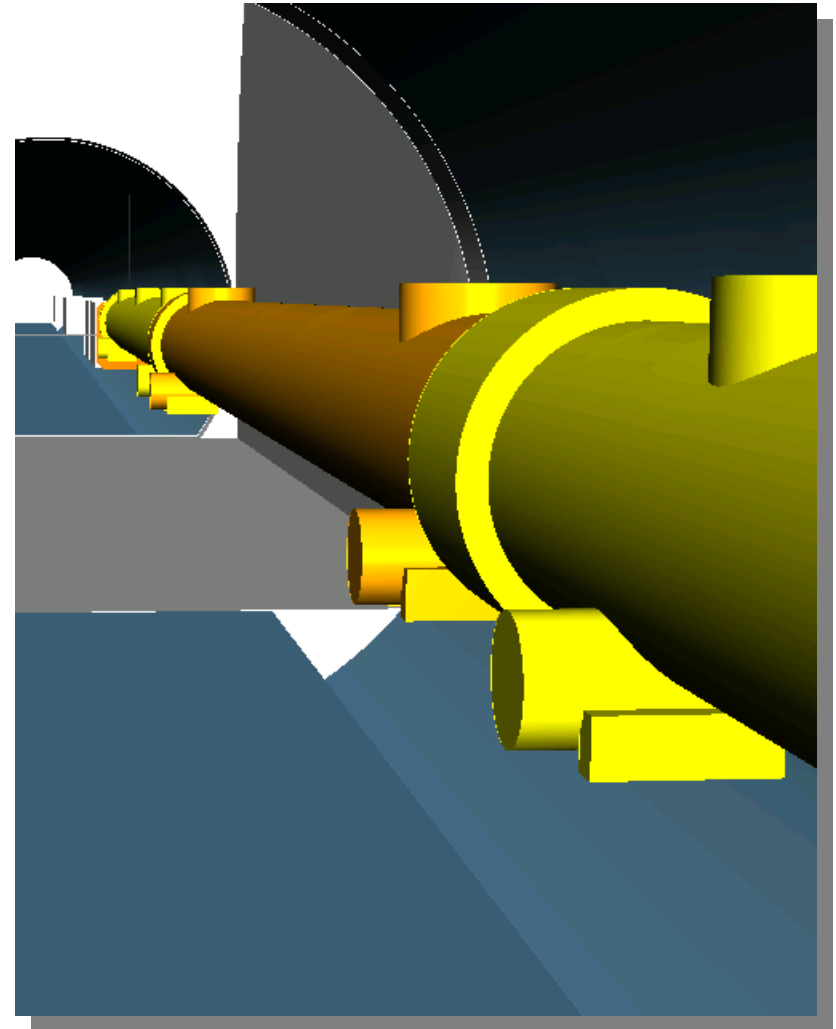
This Summary

- Technical Systems have just reported, therefore I will report only on first and last topics which are 3D CAD and overall plans for work towards a possible re-baseline



Objective

- Provide 3D visualization of conceptual design models enabling e.g.
 - **collision checks** – will facilities fit into tunnel?
 - **interface compliance checks**
 - **studies and animation**, e.g. safety concept, installation procedures
- Establish unified design process and platform
 - **integrate contributions from TAG design eng's**
 - **demonstrate feasibility at TILC09**





3D CAD Collaboration Team

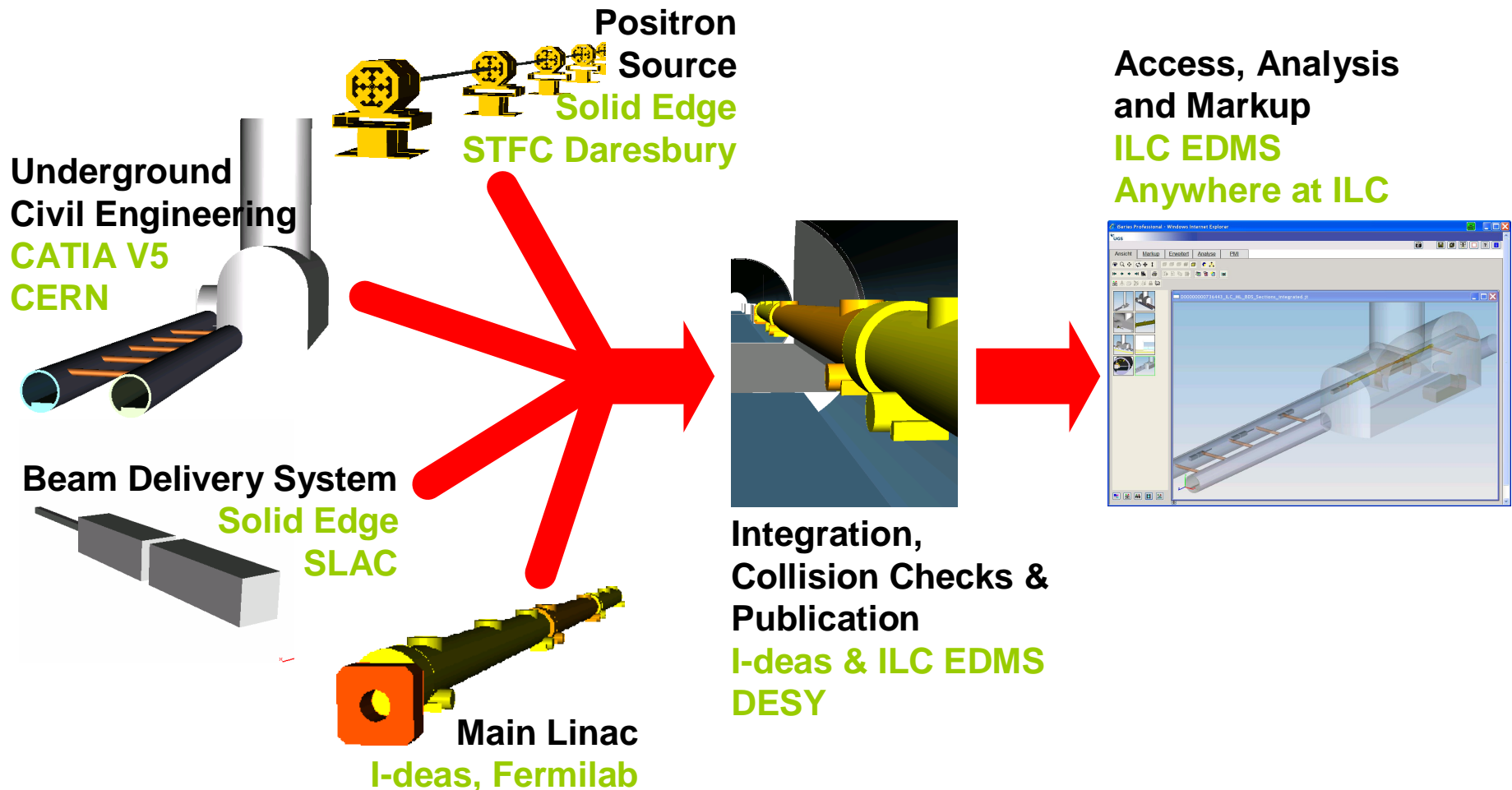
- **3D CAD models for Civil Underground Engineering**
John Osborne, Antoine Kosmicki, Claude Hauviller (CERN)
- **3D CAD models for Beam Delivery System**
John Amann (SLAC)
- **3D CAD models for Main Linac**
Don Mitchell (FNAL)
- **3D CAD models for Positron Source**
Norbert Collomb (STFC)
- **Model integration and analysis**
Nils Bergel, Lars Hagge (chair), Andreas Herz, Stefan Sühl, Norbert Welle (DESY)
- **Lattice development**
Nick Walker, Dirk Krücker (DESY)
- **Liaison with Project Management**
Ewan Paterson (SLAC)
- **Liaison with CFS**
Vic Kuchler (FNAL)



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3D CAD Collaboration Test Scenario



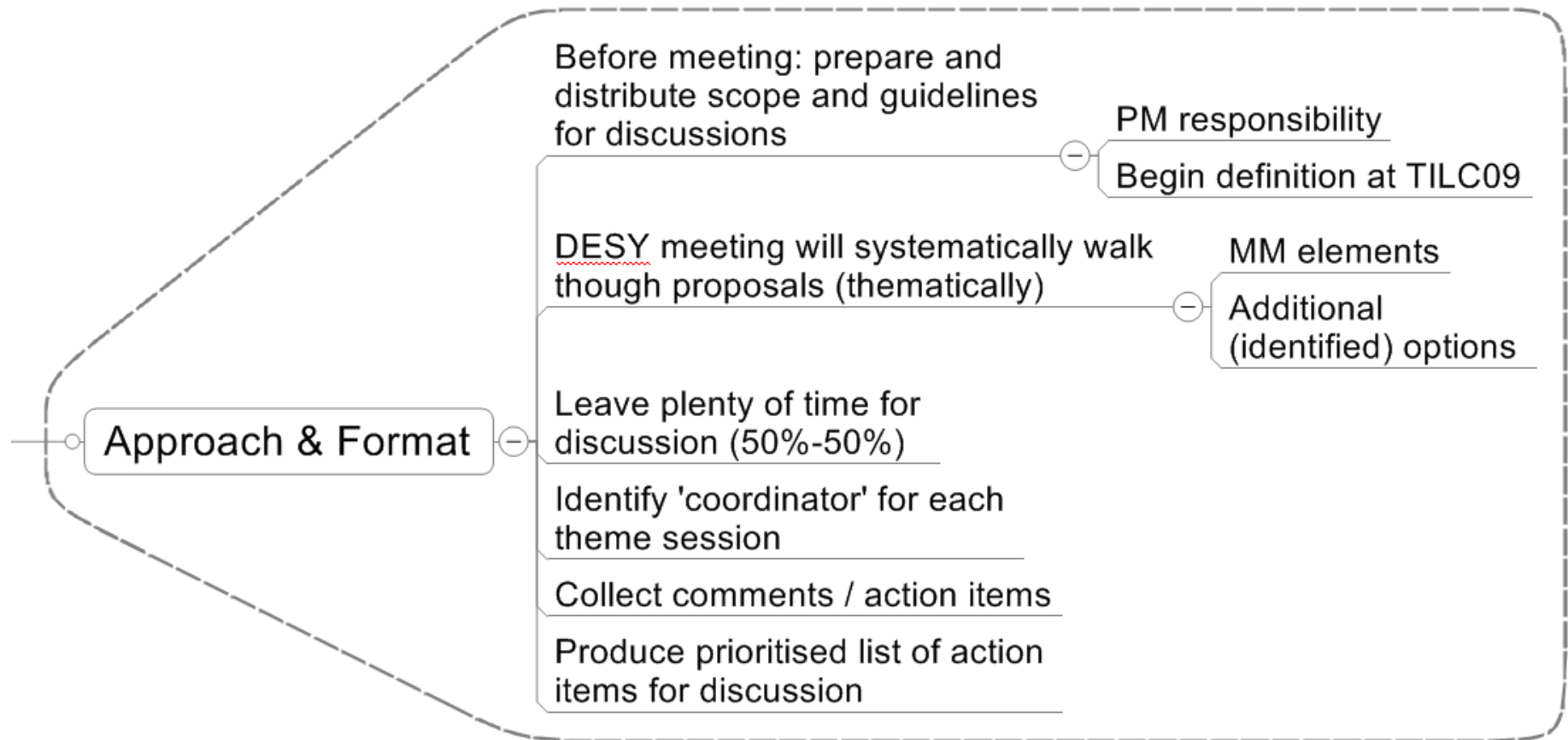


Proposing the Updated Baseline

- **Project Management will drive re-baseline design**
- **Core “design & integration” team**
 - TAG leaders
 - Cost Management Group
 - Few key (specialist) additions

} ~30 people
- **Series of face-to-face meetings foreseen**
 - DESY 28-29.05
 - ALCPG GDE meeting (Albuquerque) 29.09-03.10
 - (Possible meeting in early December – tbc)
- **Produce proposed baseline early 2010**
 - Review process → consensus → sign-off
- **Mechanisms for transparency and communication during process needs to be defined**
 - Particularly true for Physics & Detector groups

DESY Meeting



• Tentative structure on InDiCo

- <http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=3526>



What are we aiming for

- **A list of modifications to the RDR**
 - MM document will provide many
 - Others can be proposed (within the guidelines TBD)
- **We may not arrive at a single baseline**
 - We must discuss the implications of regional constraints
 - Possibility of supporting (costing) multiple variants
- **But we must constrain the number of variants to an absolute minimum**
 - CFS global resources are critical!
 - Minimise parallel effort