

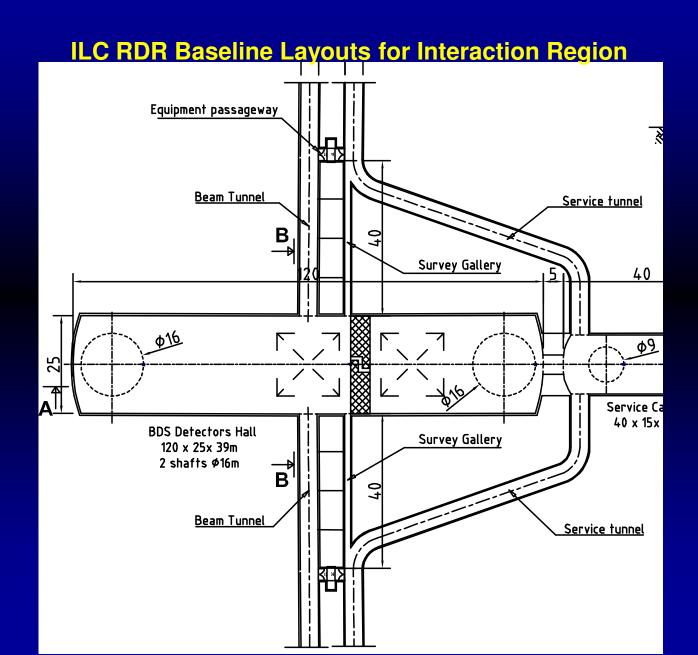
## ILC experimental area

- How to 'develop' CFS details for TDP (cavern size, number of shafts, HVAC, EL spec etc)?

- KEK site specific issues

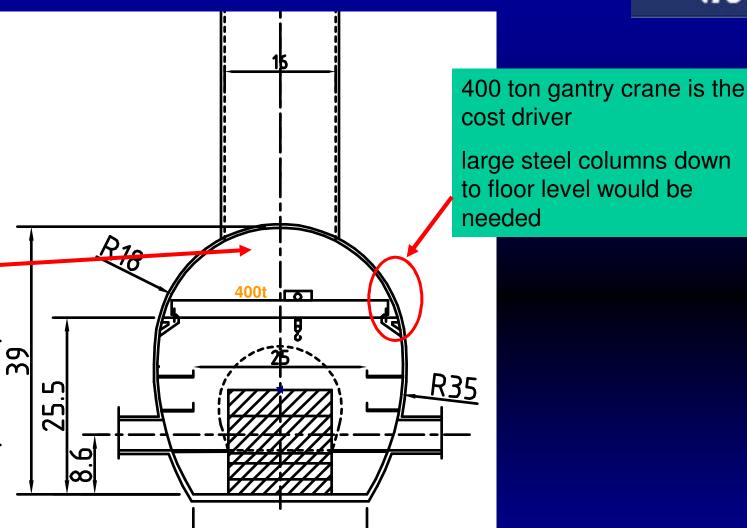
CFS V.Kuchler FNAL, A.Enomoto KEK, J.Osborne CERN ILC-GDE Beijing March 2010





#### **RDR Baseline for IR cavern**

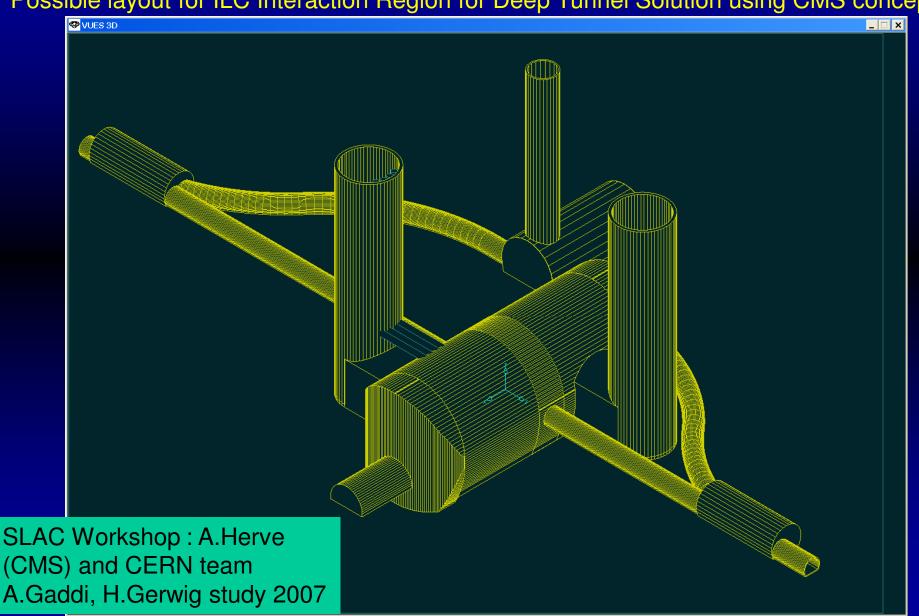




Lot of lost space

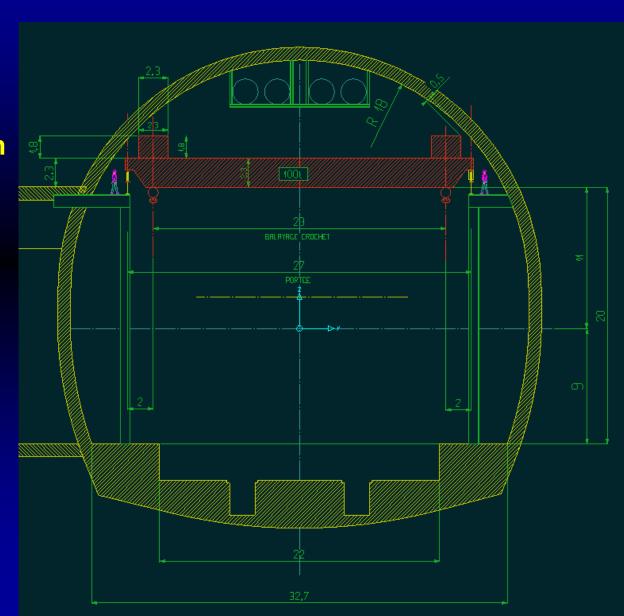


Possible layout for ILC Interaction Region for Deep Tunnel Solution using CMS concept



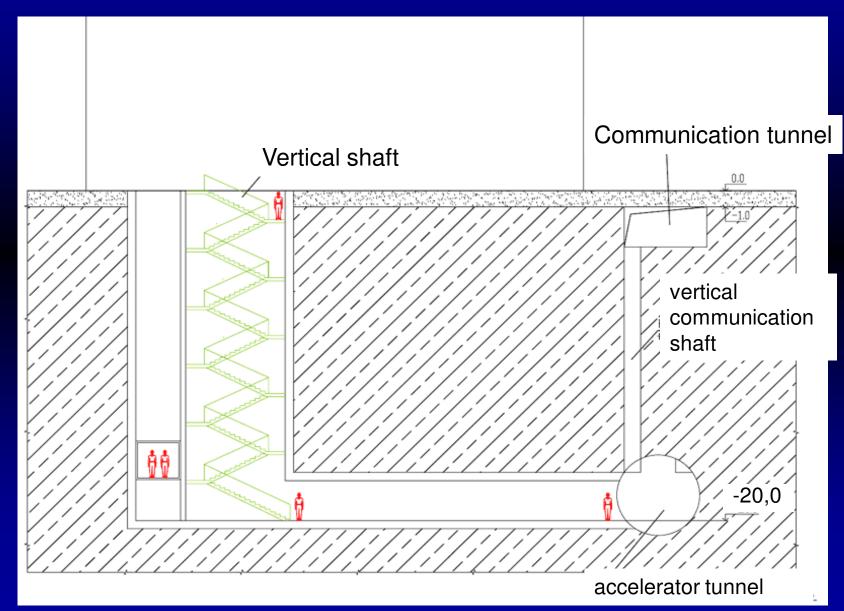


# Proposed new cross section for ILC Interaction Region



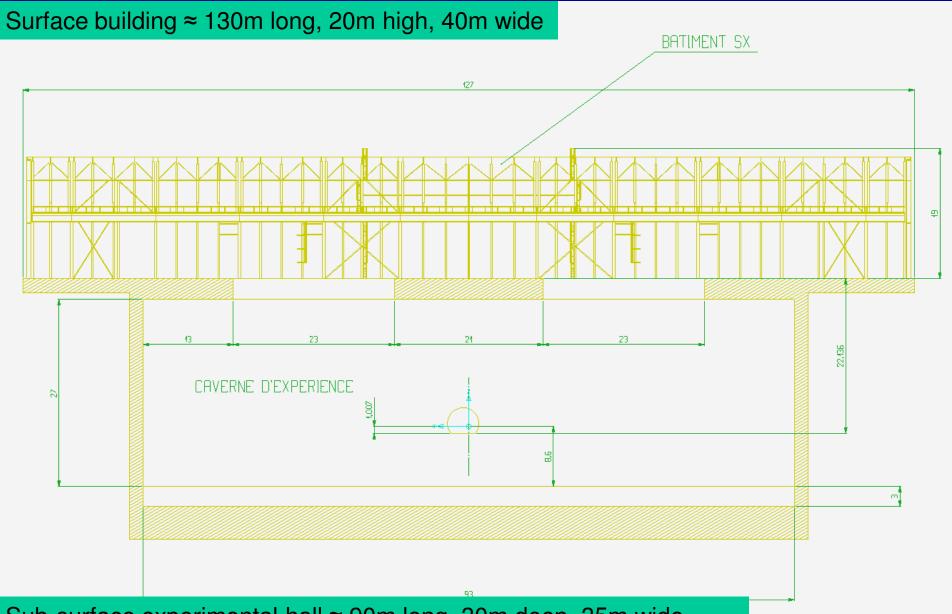


#### Proposed Dubna typical cross section Beam tunnel 20m below surface



#### **Proposed Dubna Solution**

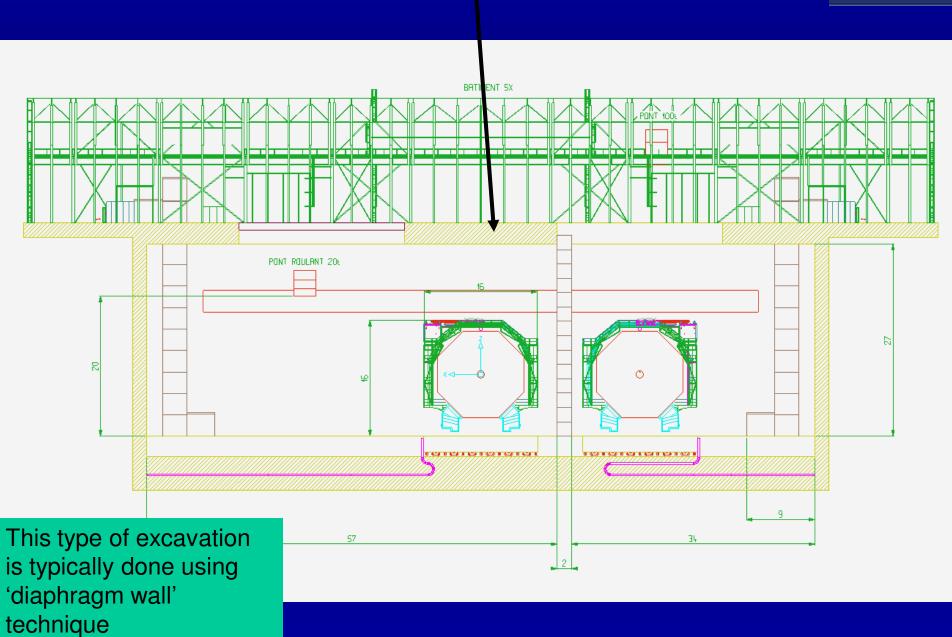


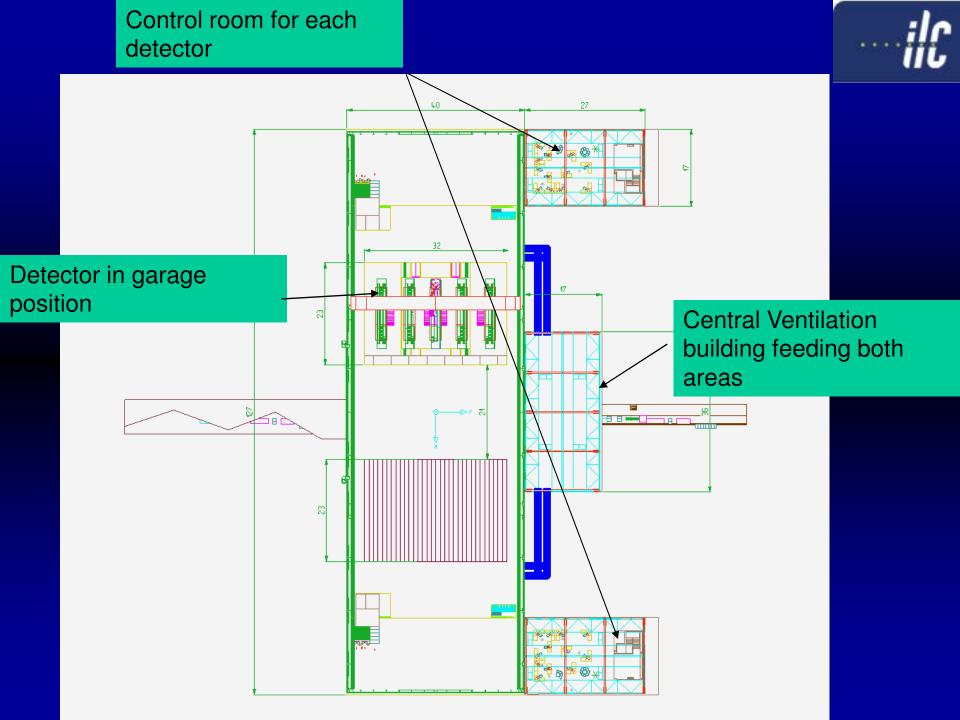


Sub-surface experimental hall ≈ 90m long, 30m deep, 35m wide

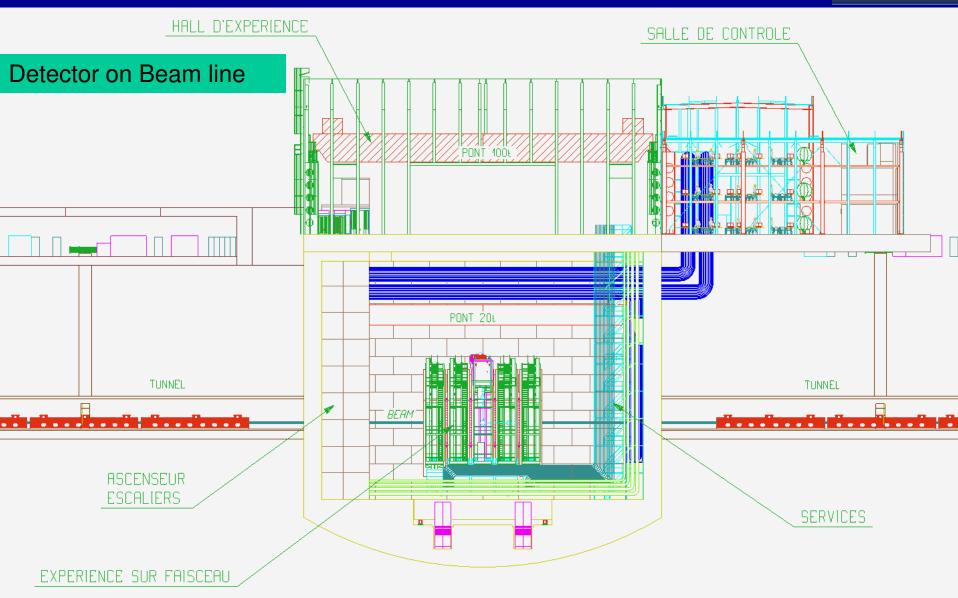
Permanent central propping needed due to large span via concrete slab



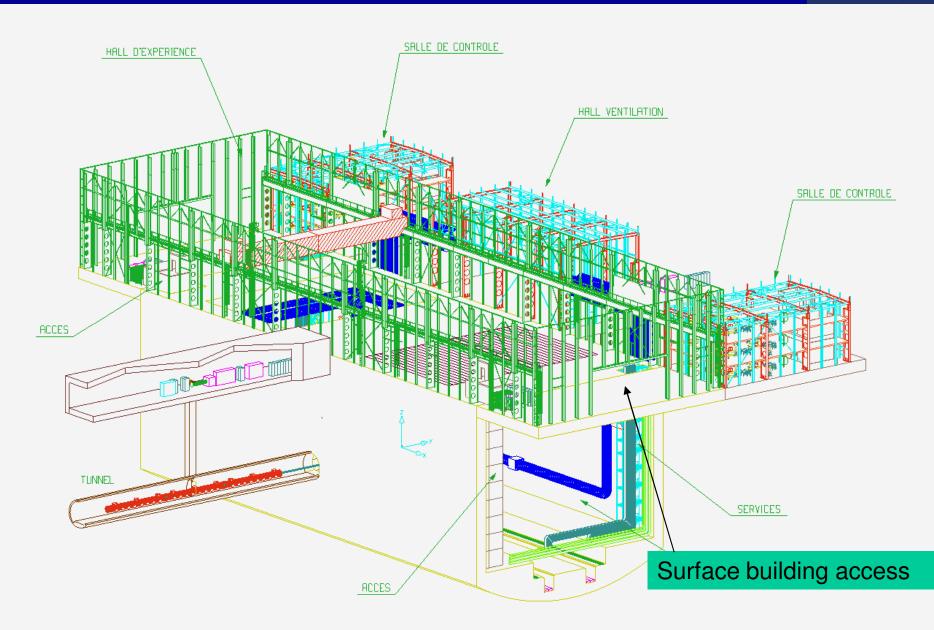


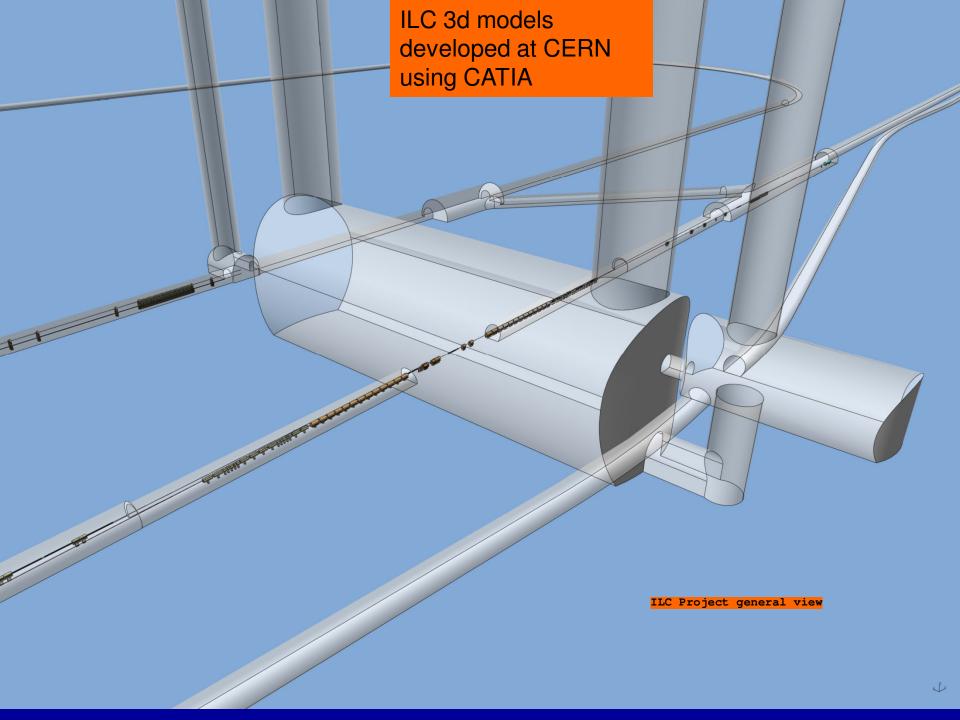






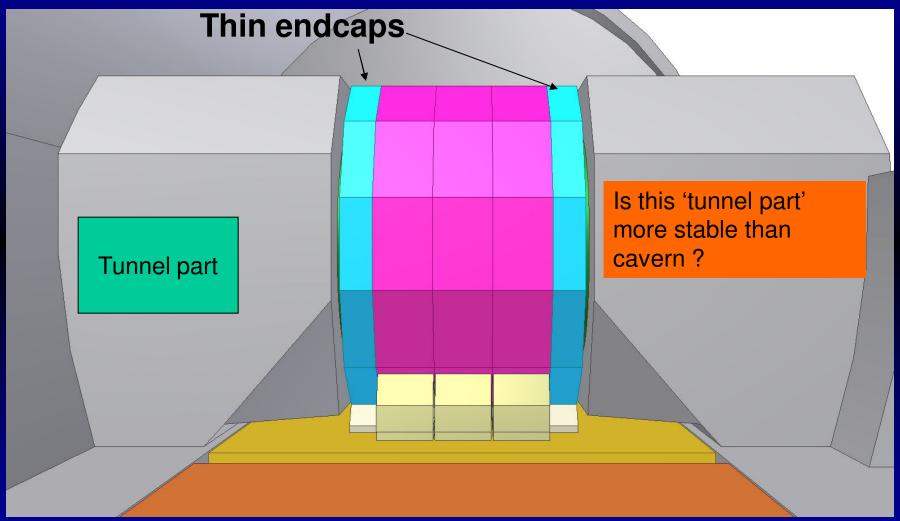








"Tunnel is at least ~ 10 times more stable than detector" (A. Seryi, CLIC08)









### **CFS Questions**

- •Is 'CMS' installation concept adopted for both detectors?
- •Who are CFS points of contact BDS/MDI and Detectors?
- Can CLIC and ILC experimental hall layouts be identical at this stage?
- Costing required for CLIC CDR & ILC TDP for all technical infrastructure
- •Dedicated CFS workshop in 2010 to gather required information ? (1/2 June KEK ?)