Some Issues on Detector (and MDI) R&D

EURO-GDE Meeting

DESY May 10 2006

Future of Detector R&D

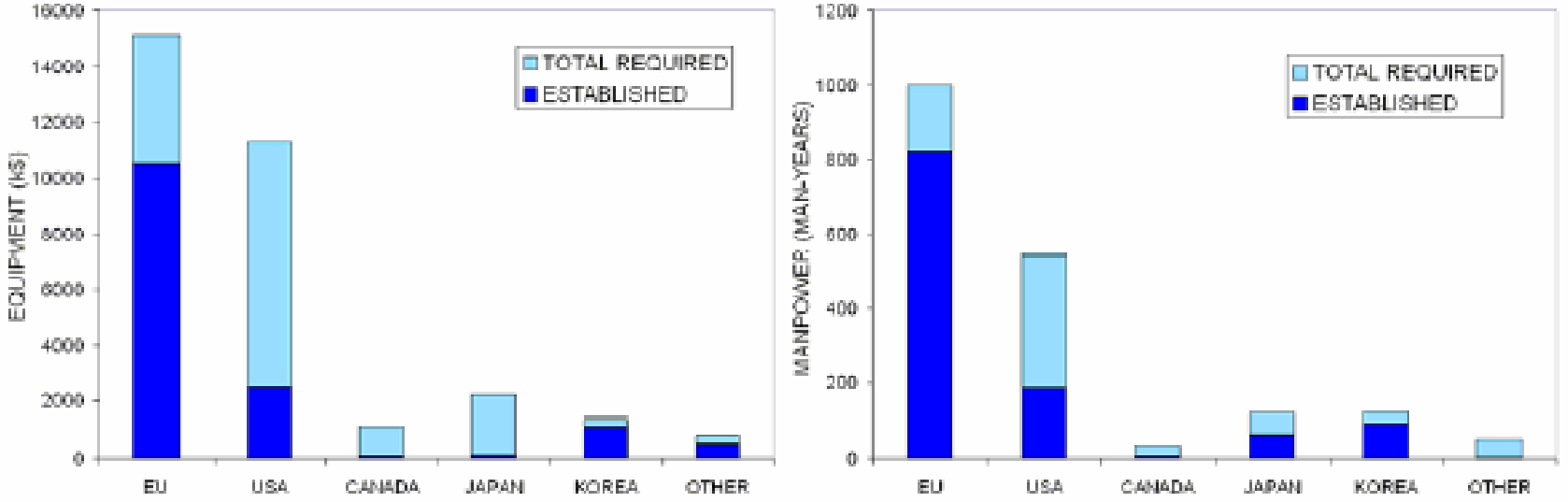
- Europe is clearly ahead at present (except for KOREA)
- Resources for detector R&D have to grow if we enter the TDR phase:

  e.g. Module 0 for calorimeters will be costly to reach a certain level of realism

-> funding authorities should be aware of that, EUDET will not suffice

R&D panel Report

- 3/5 years budget (3 for expensive parts)



Recent News

- In the US 60M$ asked for ILC in 2007
  How much for detector R&D ?

  They receive already 5-7 M$ through big labs 80% is personnel
- In Japan 4 okuen (~3.7M$), over 5 y
  1 okuen is overhead 1/3 personnel
- Recall that EUDET is 7M€ on 4 years, for ~20 participants ~50% for investment

MDI to ESGARD

- Growing implications of HEP physicists in MDI, interest e.g. for ATF2

  -> new resources needed when EUROTEV will stop

- **E.G. LoI for a JRA on "Positron Polarized Sources" sent to ESGARD**

  List of interested institutes: LAL Orsay, INFN Frascati, CERN, DESY Zeuthen, IPN Lyon, BINP Novosibirsk, NSC KIPT Kharkov, Universite de Paris XI, KEK (Associate Japanese Institute), Waseda University, Kyoto University as Associate

Some Political Issues WWS-GDE

- Should detector R&D be merged with machine R&D in the RDB within the GDE ?
- No, but some international mechanism is needed to regulate R&D
- How should ‘tough' decisions be taken ?

  1-2 IR, 1 TeV roadmap, duration of construction…
- ILCSC: only these decisions which affect the Scope document need to be discussed with WWS and decided by ILCSC

Conclusions

- European detector R&D is in good shape, no immediate EU prospects
- Next steps (TDR) will depend on politics and will request increased funding
- MDI activities will need refuelling soon
- Not yet an accepted instrument to set, internationally, the R&D priorities
- ILCSC: encourage the Damerell panel to give recommendations , indicate missing items