



ILC Polarized e- source RDR Cost Overview

A. Brachmann



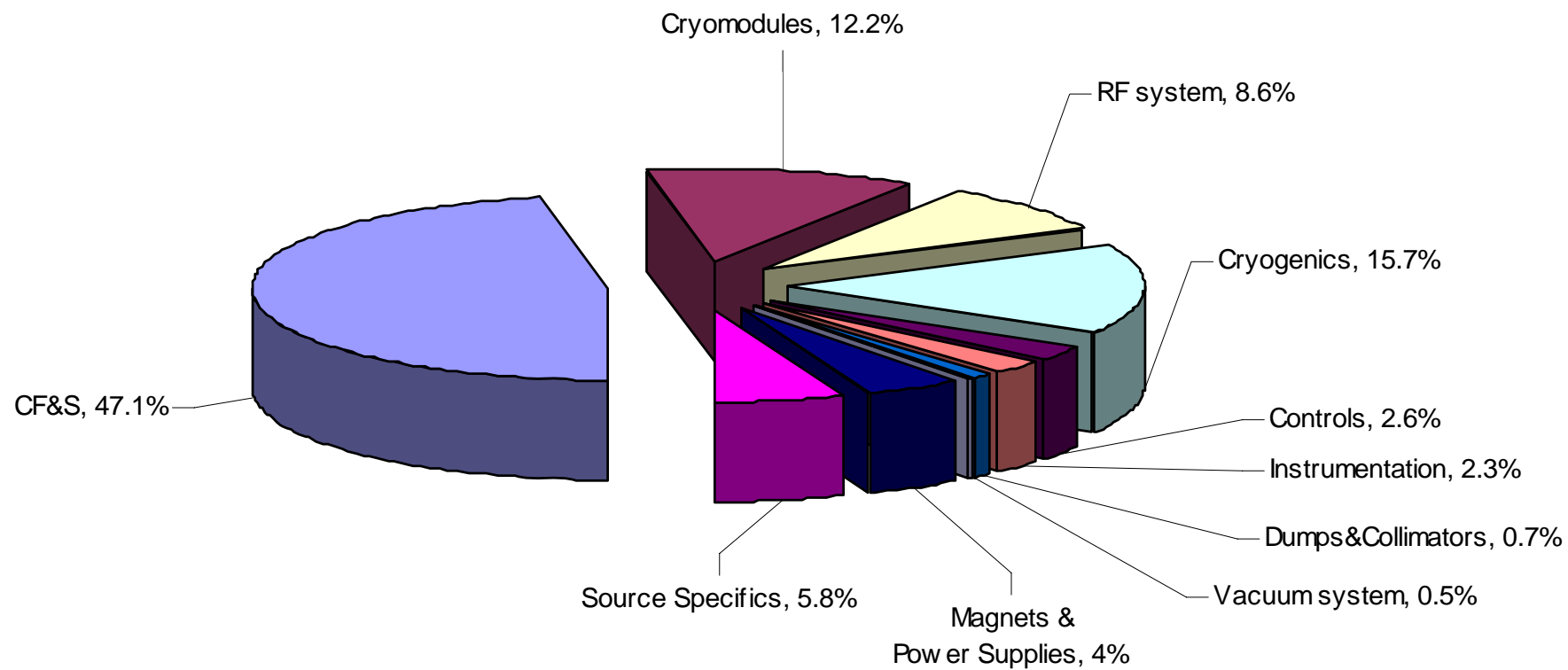
Overall estimate

- We are using Peter Garbincius roll up spreadsheet from June 11 2007.
- Regional and Average Estimates

	k\$
– Total Americas Estimate	145,821
– Total European (CERN) Estimate	201,365
– Total Asian Estimate	148,302
– Total Average Estimate	165,163

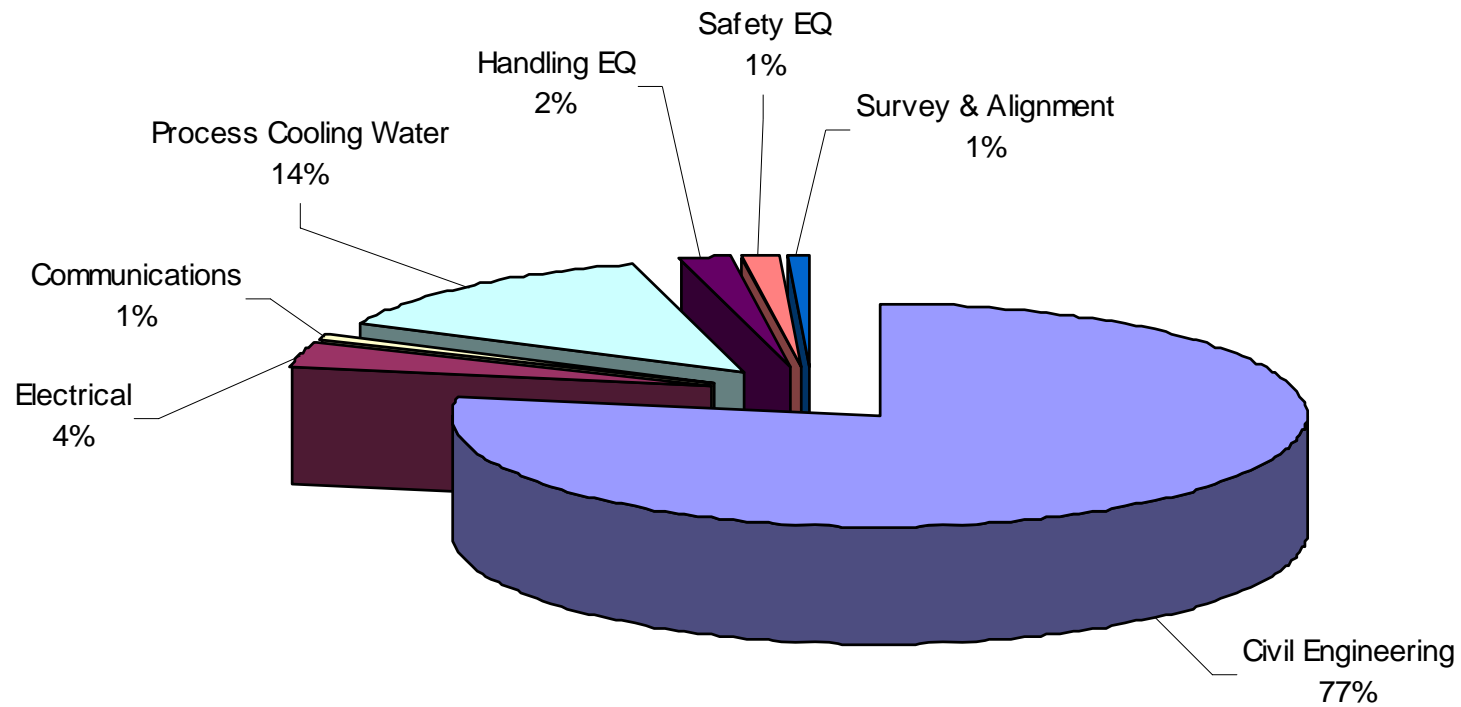


Cost distribution





CF&S Cost distribution





RDR costing philosophy

- As much as possible we used identical systems for e+ and e- source
 - Vacuum chambers
 - NC structures
 - L-band bunchers
 - TW pre-accelerator
 - NC magnets (NC preacceleration, eLTR)

Cost Reduction

- ~~Eliminate redundancy~~
 - ~~– Eliminate one gun~~
 - ~~– Eliminate one laser system~~
 - ~~– Eliminate 3 cryomodules~~
 - ~~– Eliminate spare klystron for RF compression~~
- ~~Total saving will be less than 10%~~

- Value Engineering
 - Magnet system – reduced apertures (optimize magnets for e-)
 - NC structures – reduced apertures
 - Revisit cooling water needs
 - R&D, Design, Engineering of source specifics (laser, gun)
- Total saving will be most likely > 10%