Director's Review of the Project X Cost Range Estimate: Instrumentation & Controls *Overview & Charge*

Manfred Wendt
Project X Director's Review
March 16, 2009

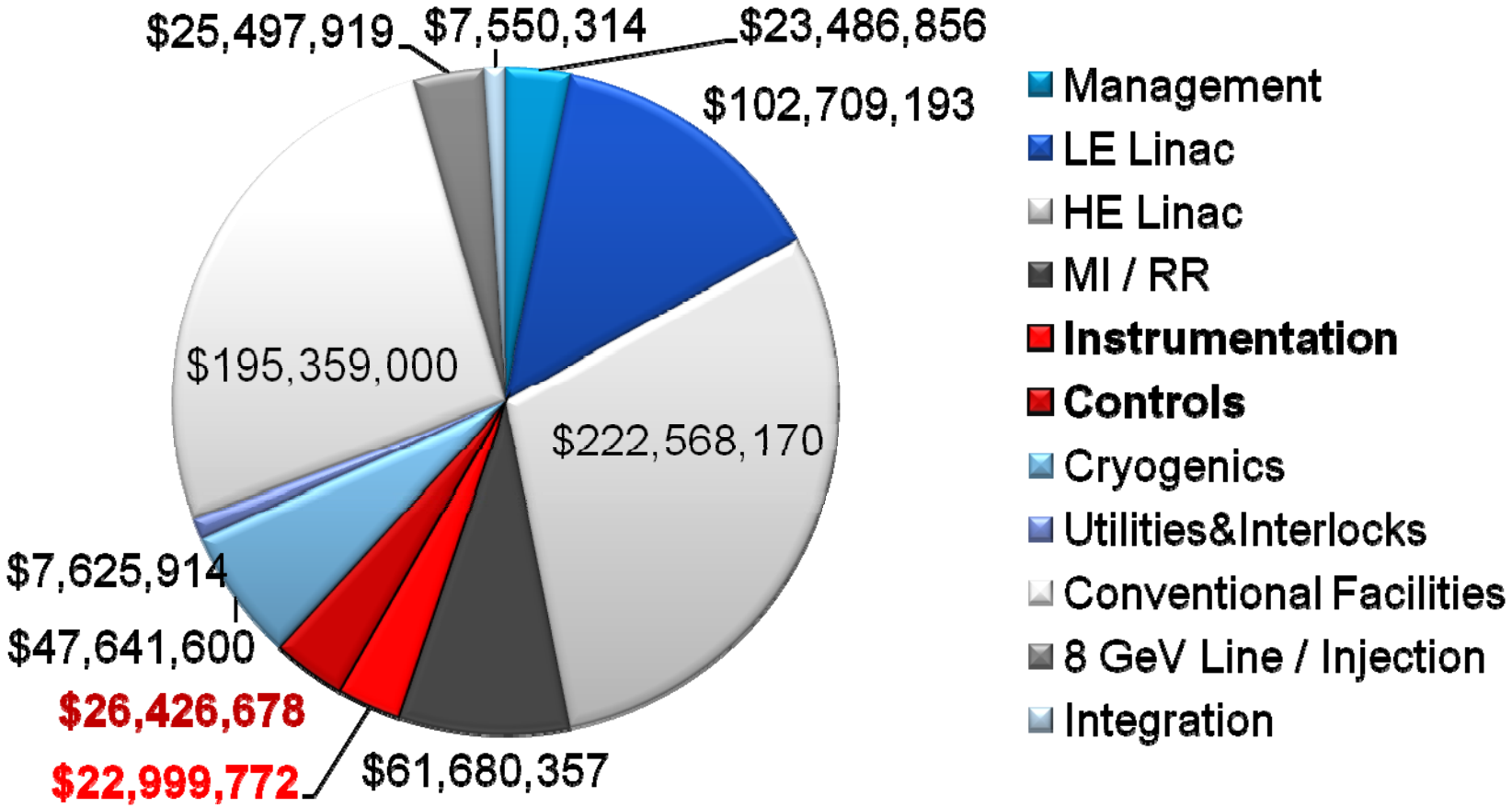
Participants

- **Wim Blokland (ORNL / SNS – Instrumentation), reviewer**
- Sharon Lackey (Fermilab, AD-Controls)
- Jim Patrick (Fermilab, AD-Controls)
- Vic Scarpine (Fermilab, AD-Instrumentation)
- **Mike Spata (Jlab, Operations, AARD), reviewer**
- Randy Thurman-Keup (Fermilab, AD-Instrumentation)
- Greg Vogel (Fermilab, AD-Controls)
- Manfred Wendt (Fermilab, AD-Instrumentation)

Project X

Charge

- Is the cost range estimate complete?
- Has the cost range estimate been prepared using a sound estimate methodology?
- Is the schedule set forth reasonable?
- Are the labor estimates reasonable?
- Are the materials and services estimated those needed to deliver the facility?
- Are the estimates for the M&S reasonable at this early stage of the project?
- *Is the estimated technical contingency appropriate / adequate?*
- Are there ways the cost could be reduced?
- (Is the Project Engineering and Design (PED) funding profile adequately defined to support a request for PED funds later this year?)

Overview

Project X Total Costs: $743,545,773 (M&S, manpower)