Physics at the Terascale

**Physics Analysis**
- Data Analysis
  - Understanding LHC Detectors
  - Physics at the LHC
  - The path to the ILC
- Analysis Tools
  - Algorithms and Techniques
  - Simulation Tools
- Theory/Phenomenology
  - Monte Carlo Generators
  - Precise Predictions
  - New Models

**Grid Computing**
- Improved Grid
  - Virtualization
  - Application-driven monitoring
  - Development of NAF tools
- Data Storage + Retrieval
  - Mass storage
  - Data Access

**Detector Science**
- ILC Detectors
  - Vertex Detector
  - Tracking
  - Calorimetry
  - Forward Detectors
- (s)LHC Detectors
  - Vertex Detectors
  - Tracking
  - Trigger
  - Luminosity Monitor

**Accelerator Science**
- Optimizing the ILC
  - Acceleration Technology
  - Sources
  - Beam Dynamics

**Work Packages**
- Analysis Network
  - Alliance Working Groups
  - Monte Carlo Group
  - Virtual Theory Institute
- Virtual Computing Centre
  - Tier 2
  - National Analysis Facility
  - High performance network
- Virtual Detector Lab
  - VLSI & Electronics
  - Support Sensor Design & Characterization
  - Detectors Systems Support

**Training and Exchange**
- R&D on Grid Tools:
  - Mass storage
  - Collaborative & Interactive tools
  - User friendliness
- Grid Training
- R&D Projects

**Backbone Activities**
Management – Young Investigator Groups - Fellowships – Equal Opportunities – Outreach – Interim Professorships
International Advisory Board

Institute Assembly
1 vote per institute

Co-Chair: Ex. Co-Chair: Th.

Project Board Analysis
Chair
Project Board Grid Computing
Chair
Project Board Detector
Chair
Project Board Accelerator

Management Board

Scientific Manager

PB chairs + 4 external members

2 Scientific Coordinators

Administrative Coordinator

reports
advises

elects
reports

elects

elects

elects