



Cost/Effort Estimate Methods



- Effort estimated using analogy to similar activities in
 - Phase-I: LAr, TDAQ activities very similar to HL-LHC
 - Original ATLAS: Tile, Muon activities essentially the same for HL-LHC
 - HTT & LAr-BE: used as basis for LOMDT

System	Analogy	Institutes for Original ATLAS / Phase-I
LAr	<ul style="list-style-type: none">• Front End: Phase-I LTDB• Back End: Phase-I LDPS	<ul style="list-style-type: none">• Columbia, SMU, UT Austin• Arizona, Stony Brook
Tile	<ul style="list-style-type: none">• Main Board: original ATLAS• LVPS: original ATLAS	<ul style="list-style-type: none">• Chicago• ANL, MSU
Muon	<ul style="list-style-type: none">• sMDT: original ATLAS MDT• CSM: original ATLAS CSM• TDC: original ATLAS mezzanine• LOMDT: HTT, LAr DPS	<ul style="list-style-type: none">• Michigan• Michigan• Michigan• Chicago, Penn, Columbia
Trigger	<ul style="list-style-type: none">• GEP: Phase-1 gFEX Algorithms• HTT: Phase-1 FTK	<ul style="list-style-type: none">• BNL, Chicago, Indiana, MSU, Oregon, Pitt• ANL, Chicago, Illinois, Stanford

Institutes in red are participating in HL-LHC activities in this area