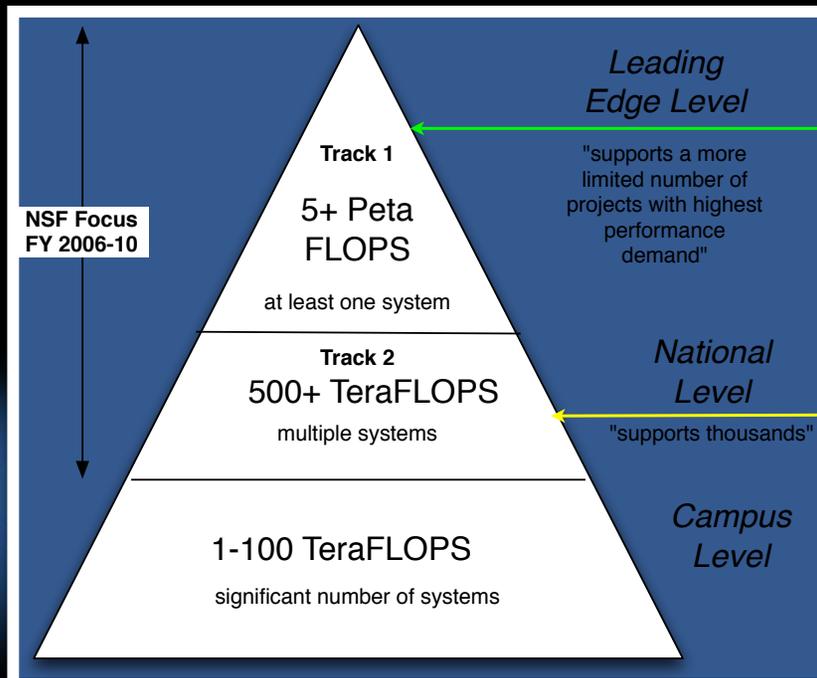


HPC Multi Track Strategy



Track 1: One solicitation funded over 4 years: \$200M acquisition + additional O&M cost.

Track 2: Four solicitations over FY06-09: \$30M/yr acquisition + additional O&M cost.



HPC Roadmap

Petascale Software Development

Track 1: 2007-2011 Petascale Acquisition (UIUC/NCSA)

\$200M*

2007-2009 HPCOPS
TACC, NCSA, SDSC

Track 2A: 2006-2011 TACC

\$30M*

Track 2B: 2007-2012 UTK

\$30M*

Track 2C: 2008-2013 PSC

\$30M*

Track 2D: 2009-2014 Award #4

\$200M*

Track 2

TACC - Texas Advanced Computing Center, Austin.

UTK - Univ. of Tennessee, Knoxville, Joint Institute of Computational Science.

NCSA - National Center for Supercomputer Applications, Univ. of Illinois, Urbana-Champaign.

SDSC - San Diego Supercomputer Center, Univ. of California, San Diego.

PSC - Mellon-Pitt Carnegie/Pittsburgh Supercomputing Center

* plus O&M



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Acquisition Strategy

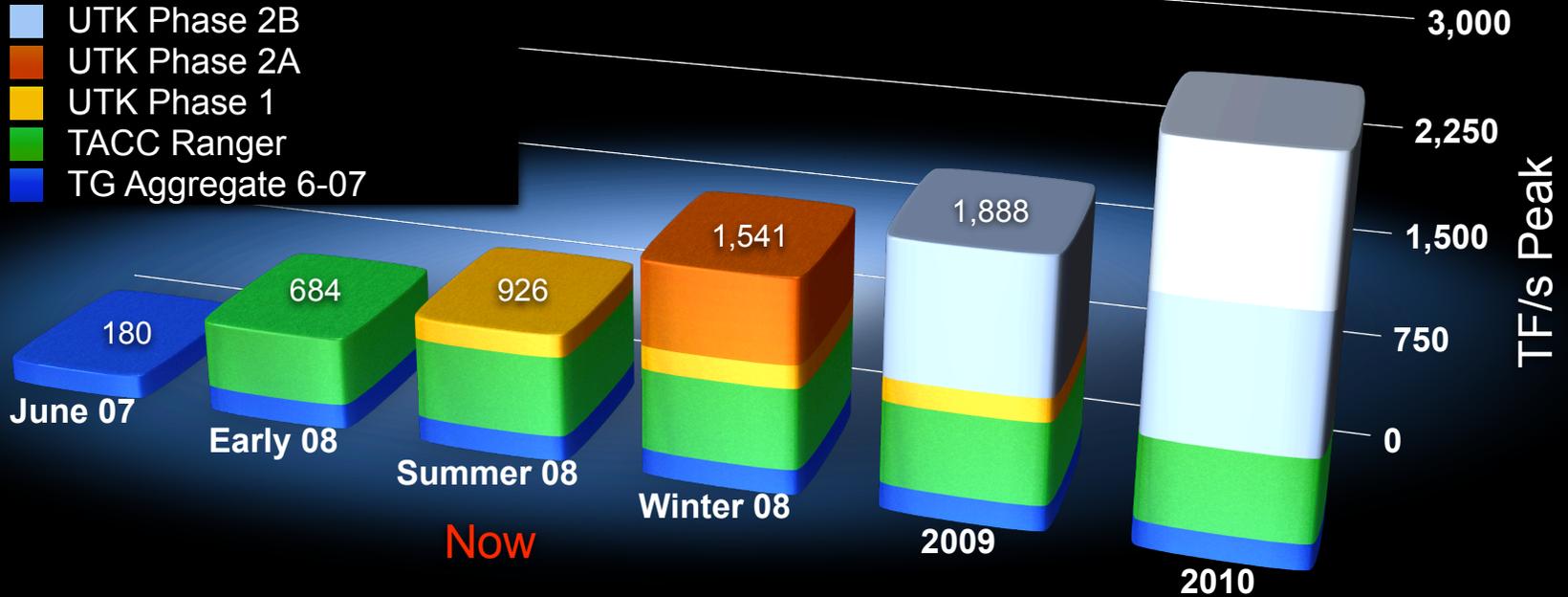
- Science-driven - *buying impact on science*; not just technology. Proposals must include benchmark and model program performance commitments.
- Fixed-cost agreements: Track 2 - approx. \$30M, Track 1 approx. \$200M. (plus O&M)
- Cooperative agreement between NSF and Awardee. NSF supports awardee but does not participate in negotiations with vendors.



Track-2 Impact

Greatly expanding capacity of the TeraGrid for digital exploration with reduced oversubscription and queue wait times.

- PSC-Phase 2
- UTK Phase 2B
- UTK Phase 2A
- UTK Phase 1
- TACC Ranger
- TG Aggregate 6-07



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