Wednesday discussion

David Silva (NOAO)
Science with Giant Telescopes
2008 June
Next steps – I

- Generate meeting report
  - Key audiences: Decadal Survey, NSF, general community
  - Moderators to coordinate with speakers to write summaries of discussions
  - Use cases: 18 July (will contact you with format details by end of week)
  - NOAO to collect and produce report
Next steps – II

• National GSMT Design Reference Mission (DRM)
  – As requested by NSF
  – NOAO project with GMT/TMT collaboration as necessary
  – Work-in-progress
  – Summaries of technical capabilities
  – Exposure Time Calculators (not instrument simulators)
  – Description of key science cases
    • With System perspective as appropriate
  – Operations Concept Definition Document
    • Define community needs, desires, costs
    • With community participation (TBD)
  – Mock call for proposals?
    • Input for Design Reference Science Plan (DRSP)
Possible discussion topics
What issues have we not discussed yet?

• At what level does US community outside of GMT and TMT partnerships support US federal involvement in one or more ELT projects?

• Assuming finite GSMT operations funding, what is right mix of science operations and development to maximize science impact over life-time of observatory?

• What is acceptable level of GSMT science operations services?
  – What is acceptable level of data products and archive services?

• What GSMT operations mode(s) are most important?
  – Classical, remote, delegated, queue/service, other?

• What percentage of GSMT public access time be devoted to Large Programs?
  – 0, 10, 30, 100?

• What is optimal System balance between small (2 - 4m), mid (6 - 10m) and large aperture (GSMT) telescopes?
  – Public access? Integrated?