



Technology

Earth Science Technology Program

*Presentation to the
Earth Science Technology Subcommittee
Washington, DC*

April 13, 2004

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Topics

- Update on ESTO / Recent Activities.
- Review Technology Subcommittee comments from the last TSC meeting (November 5, 2003).
- Response to the first TSC comment.
- Overview of Agenda for this TSC meeting.



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Recent/Upcoming Events

- Technology Strategy Team meeting March 23-24, 2004.
 - Review of Technology Development Plan
 - Making progress on technology roadmaps

- Next Incubator Instrument NRA is expected to be released in May 2004.
 - Coordination with Science Division on narrowing technology call

- 4th Annual Earth Science Technology Conference (ESTC) will be in Palo Alto, CA June 22-24, 2004.
 - See ESTO homepage (<http://esto.nasa.gov>) for online registration

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TSC Comment #1

(November 5)

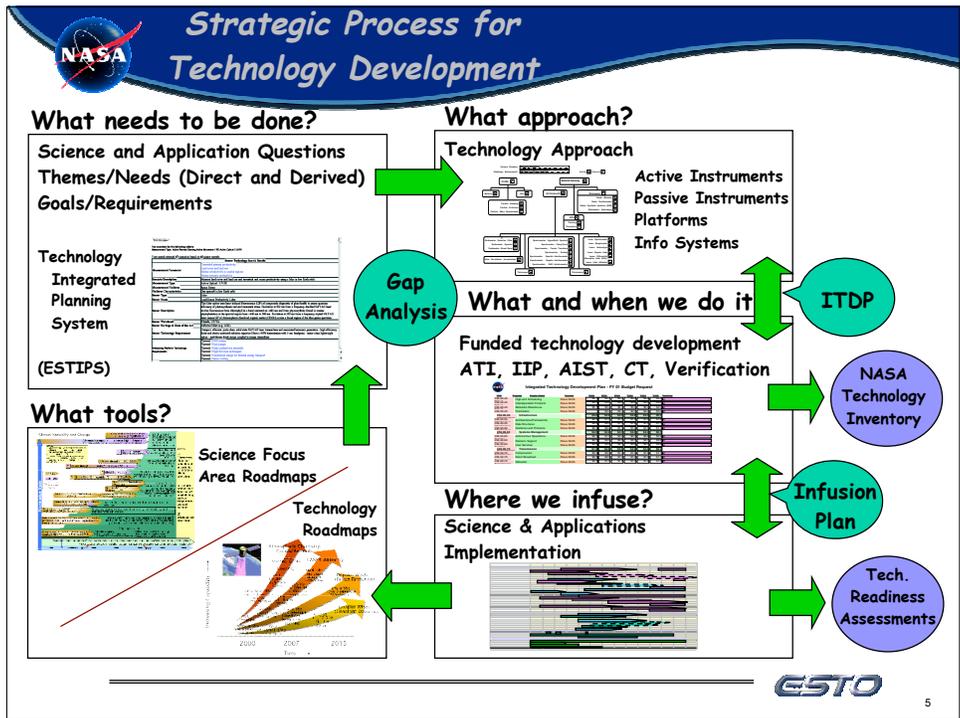
1. As with many of NASA's technology programs, there is a struggle to balance the following sets of considerations:
 - Maintaining balance between supporting core competencies within the agency *versus* investing in out-of-house technology developments in industry and academia.
 - Maintaining balance in technology portfolios *versus* integrating technologies developed by other agencies.
 - Maintaining balance between industry state of the art (SOA) and state of practice (SOP) *versus* university and other government laboratories SOA and SOP.

TSC is not aware of the process by which NASA manages to balance the above considerations or, if such a process exists. Hence, TSC requests a briefing from ESTO on this topic at the next TSC meeting.

(Note: Comments 2-6 will be covered in later presentations).

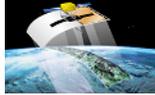
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NASA Technology Challenges

Challenges to Enable Future Science

- Active remote-technologies to enable atmospheric, cryospheric and earth surface measurements 
- Large Deployables to enable future weather/climate/natural hazards measurements 
- Intelligent Distributed Systems using advanced communication, on-board reprogrammable processors, autonomous network control, data compression, high density storage 
- Information Knowledge Capture through 3-D Visualization, holographic memory and seamlessly linked models. 

ESTO 6



Active Projects Portfolio (FY03-04)

