



# Technology Considerations: The First Steps

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## *The Current Environment*

- U.S. interest in space technology is increasing
- NASA funding appears to be steady
- New environment within NASA
  - New Administrator
  - Decadal Surveys for all Space Science areas
  - Roadmaps are being kept current



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### *Establishing Science Requirements/Advocacy*

- Clear Scientific Objectives are Essential
- Focused vs. General Science/Mission Objectives
- Community Support
- Public Support
- NASA Support



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## *Identifying Technology Needs*

- Pointing Control System
- Critical Deployments
- Instrument types and capabilities
- Hardware vs. Software
- Power Systems



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## *Developing Mission Concepts*

- Mission Architecture
- Location in Space
- Capability in Space and/or on the Ground
- Importance of Early Cost Estimates
- Planning the Community Interface to the Mission



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## *Conclusions*

- Strong scientific justification and support is essential
- Early planning should precede a mission cost estimate
- Advocacy for the supporting technologies is needed early
- Advocacy for the mission concept must have broad community support