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Space Tactical Imaging DARPA Tech 2002

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Attributes of Space Tactical Imaging

Distribution Statement A. Approved for public release; distribution is unlimited.

Attributes of Space Tactical Imaging

- **Availability**
  - Tasked by battlefield commander
  - Quick results
- **Persistence**
  - Nearly continuous coverage of battlefield area
- **Flexibility**
  - Broad area surveillance
  - High-resolution imaging

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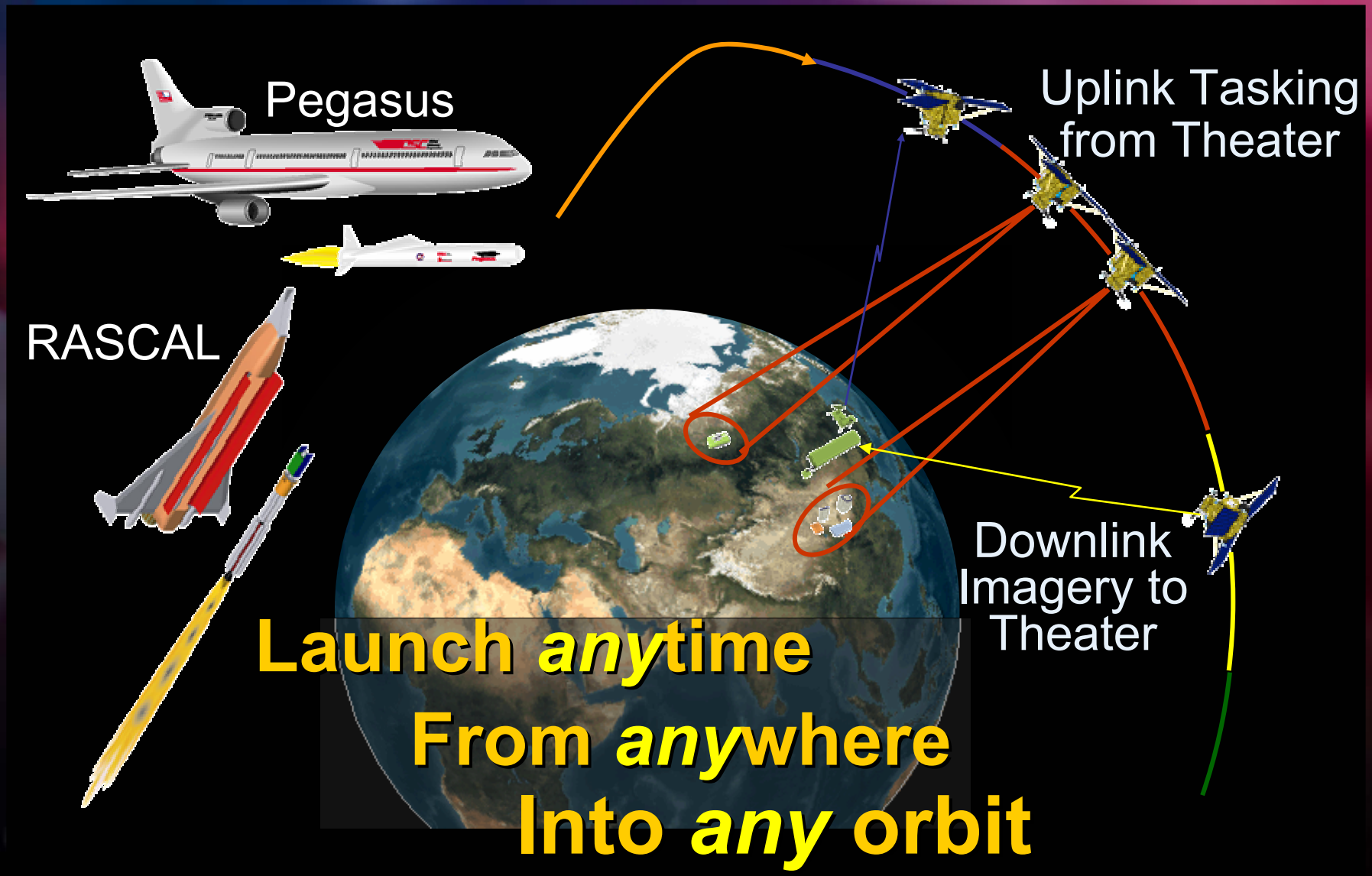
Low-Cost Tactical Imager (LCTI)



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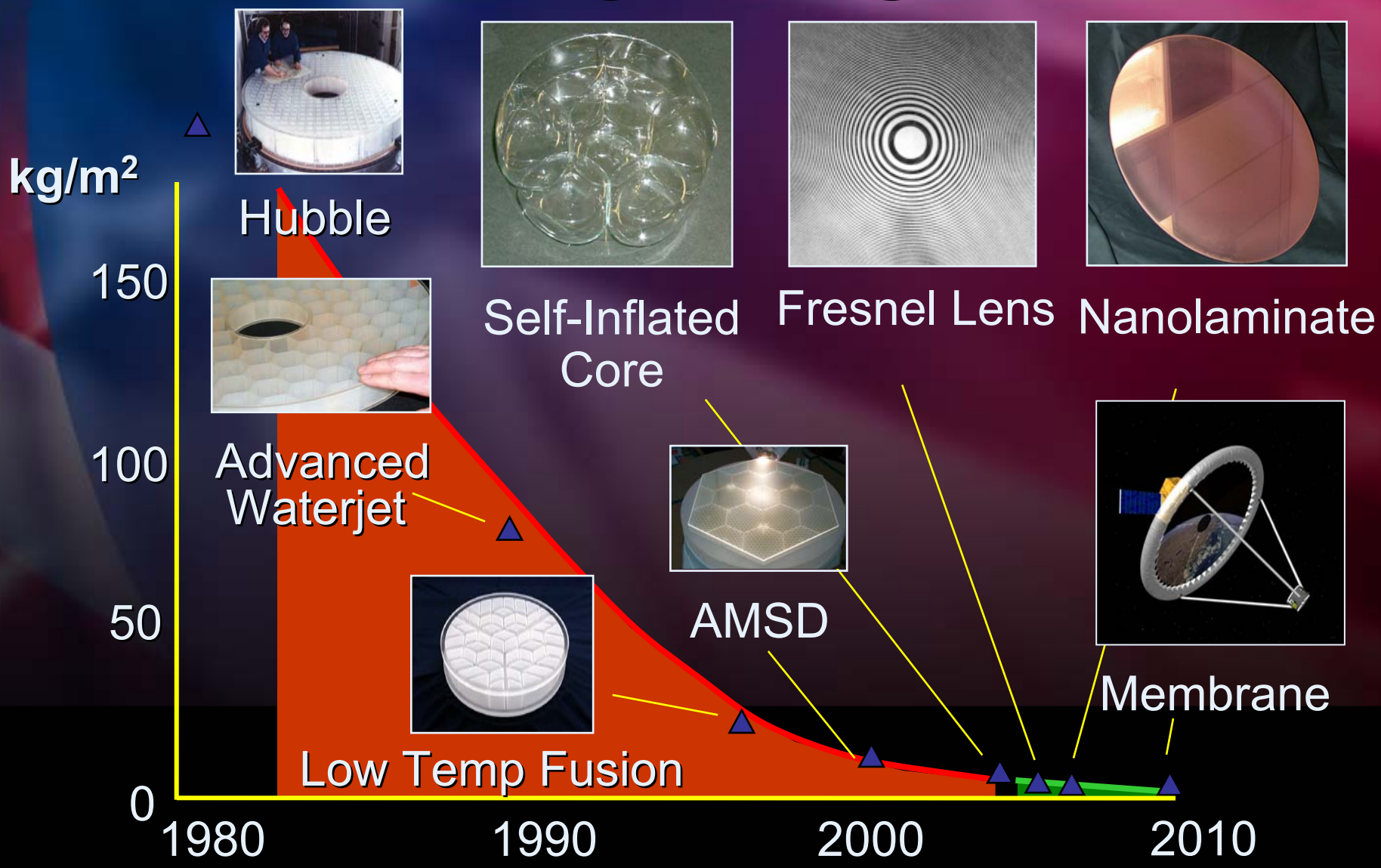
Lightweight Optics



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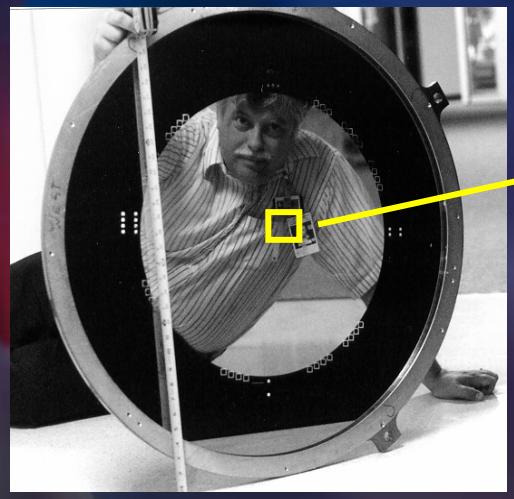
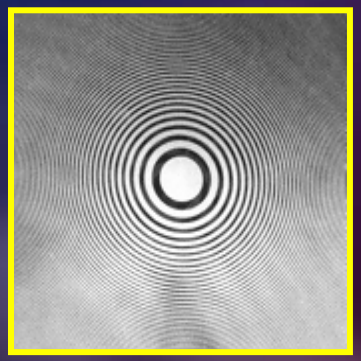
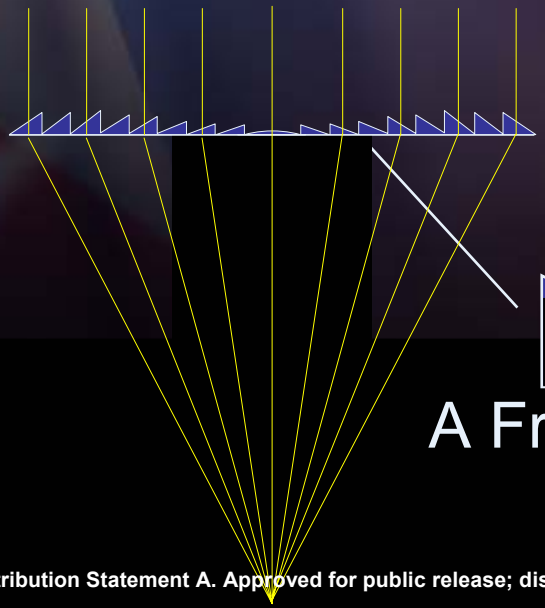
Lightweight Optics Challenges

Fresnel Diffractive Lens



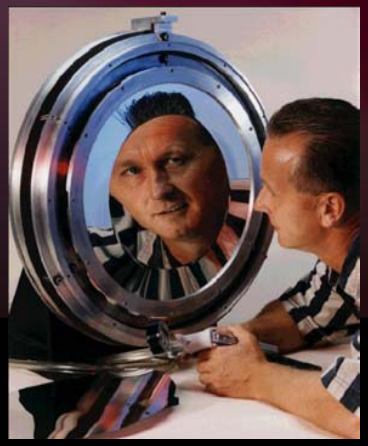




A Fresnel Zone

Membrane Mirror

Membrane in relaxed state



Membrane under vacuum

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