Welcome to GSAW2004!

Steve Burrin

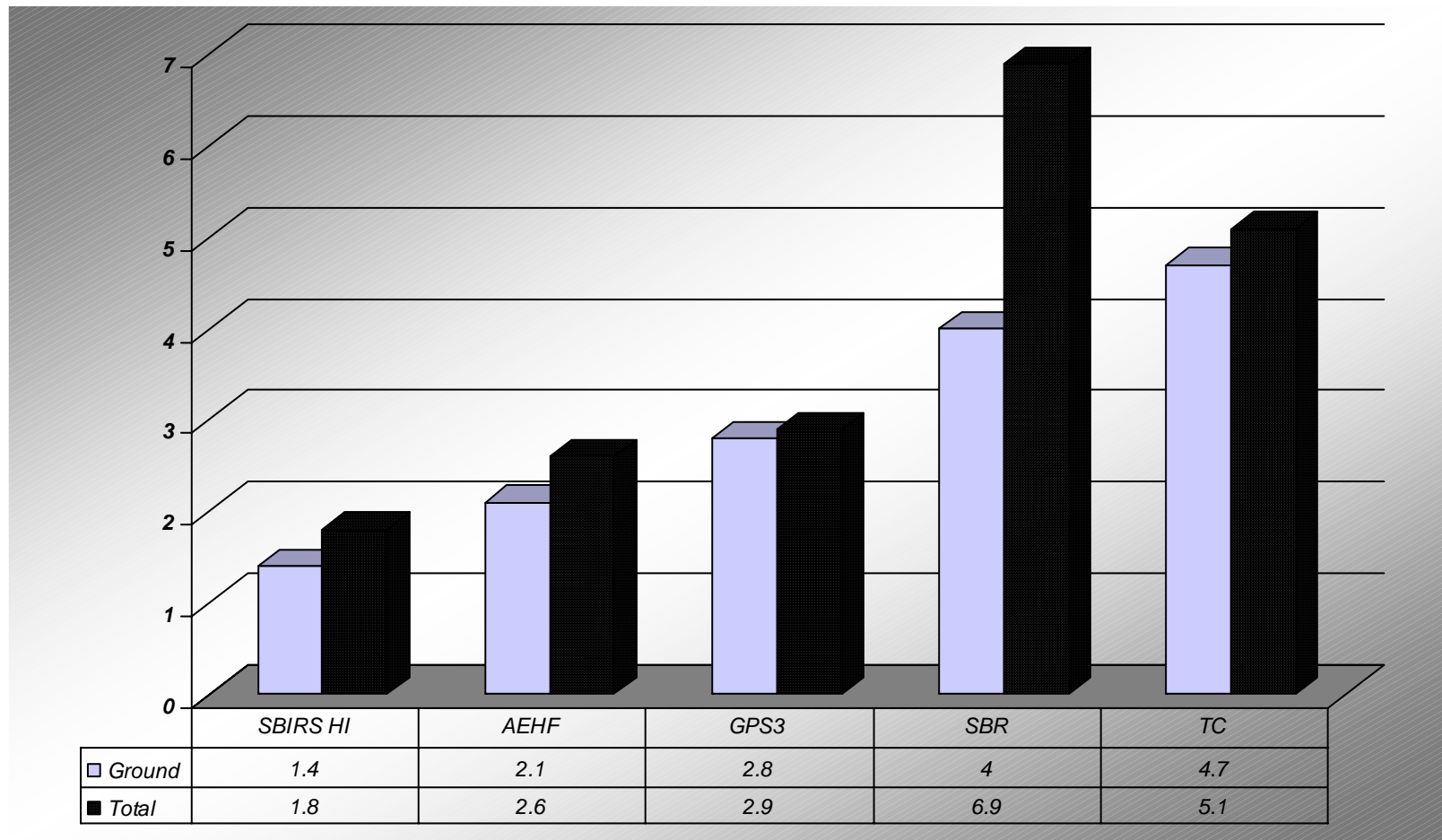Vice President, Space Program Operations

The Aerospace Corporation

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Ground – Space System Software

- **Large** software-intensive systems
  - SLOC order of magnitude
    - $10^6 - 10^7$ on the ground
    - 10^5 onboard
- **Complex and Critical**
  - Unprecedented / low technology readiness
  - Multiple ground elements, frequently worldwide
  - Multi-satellite constellations
  - Combinations of hardware and software
  - External and internal interfaces
  - High reliability and integrity requirements

Software Growth in Space Systems Current and Projected

	SBIRS HI	AEHF	GPS3	SBR	TC
Ground	1.4	2.1	2.8	4	4.7
Total	1.8	2.6	2.9	6.9	5.1

ESLOC (M) - Equivalent Source Lines of Code (Millions)

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