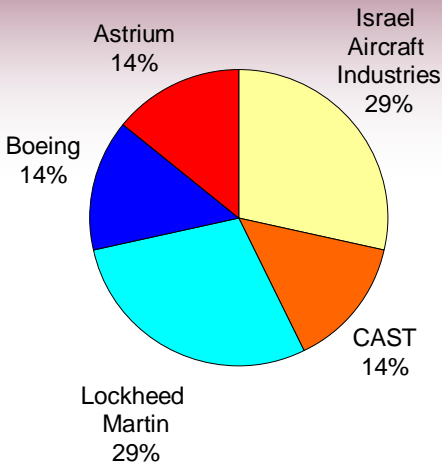




Futron Satellite Manufacturing Report

August 2002

2002 Newly Announced Commercial GEO Communications Satellite Orders



Futron defines a satellite "order" as the announcement of a satellite award to a specific manufacturer. Therefore, satellites that have been awarded but have not been publicly announced are not counted until they have been announced.

Commercial GEO* Communications Satellite Manufacturer	Announced Orders	Satellite Name(s)
Israel Aircraft Industries	2	HKSat-1, HKSat-2
Chinese Academy of Space Technology	1	Sinosat 2
Lockheed Martin	2	AMC 15, AMC 16
Boeing Satellite Systems	1	Thuraya 3
Astrium	1	Hellas-Sat***
Total Announced Orders	7	

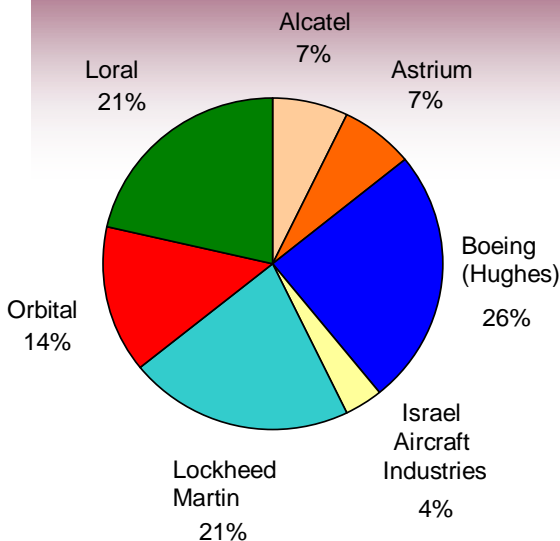
*Teledesic ordered 2 NGSO satellites from Alenia Spazio.

**Vinasat previously announced, award still pending.

***Previously announced award to Boeing in 2001 not confirmed; ordered from Astrium in 2002.

Procurement Update
Globalstar's intent to purchase 4 GEO satellites from Space Systems Loral was announced in July 17, 2002.
PT Telekomunikasi Indonesia announced intent to sign a contract with Orbital Sciences Corp. in July 2002 for construction of Telkom 2.
ISRO announced intent to build 7 new satellites before 2007: Insat 4A through 4H with 4D as spare.
Alcatel announced delivery contract for Eutelsat W5, which was originally awarded as Eutelsat W1 in a prior year.
Afro-Asian Satellite Co. announced intent to purchase Agrani 2 (Thaicom 4) from Alcatel.
SES Americom intends to award AMC 23 to Alcatel. A market study is underway.

2001 Newly Announced Commercial GEO Communications Satellite Orders



Commercial GEO Communications Satellite Manufacturer	Announced Orders	Satellite Name(s)
Alcatel	2*	StarOne, Apstar VB
Astrium	2	Eutelsat W3A, Amazonas
Boeing (Hughes)	7	E Bird, Galaxy VIII R, NSS 8, Horizons, Hellas-Sat (2)***, Superbird 6
Israel Aircraft Industries	1	Amos 2
Lockheed Martin	6	Cablevision, Nimiq 2, GE 10, GE 11, GE 18, Alpha Space Com**
Orbital	4	Panamsat C-Band (3), Bsat 2C
Space Systems/Loral	6	Apstar V, Telstar 9, DirecTV 7S, Hisdesat (2), MBC
Total Orders	28	

*GE Americom's order for 3 satellites was canceled.

** Order is unconfirmed.

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