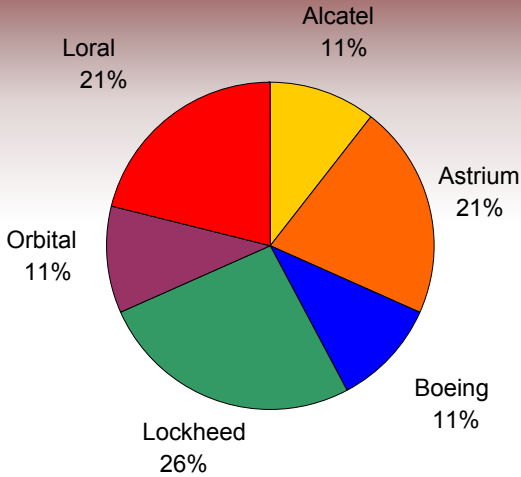


### 2003 Commercial GEO Communications Satellite Orders

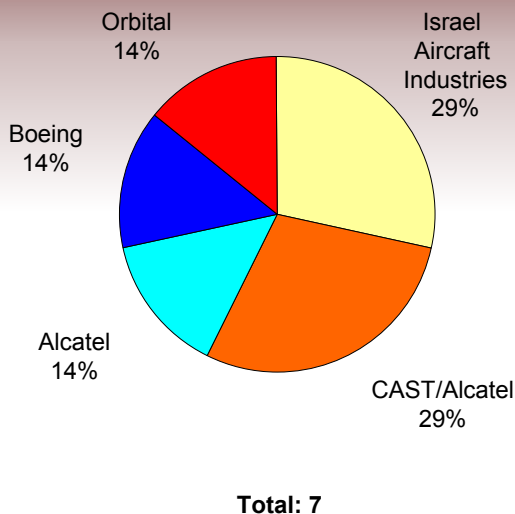


Commercial GEO Communications Satellite Manufacturer	Announced Orders	Satellite Name(s)
Alcatel	2	RascomStar, Hotbird 7A
Astrium	4	Anik F1-R, Hotbird 8, Arabsat 4A, Arabsat 4B,
Boeing	2	Measat 3 , XM-4
LMCSS	5	JCSAT 9, Astra 1K-R, Astra 1L, EchoStar 10, AMC 14
Orbital	2	Optus D1, Optus D2,
Loral	4	DirectTV 8*, DirectTV 9S*, Galaxy 16, Intelsat (unspecified)**
<b>Total Announced Orders</b>	<b>19</b>	

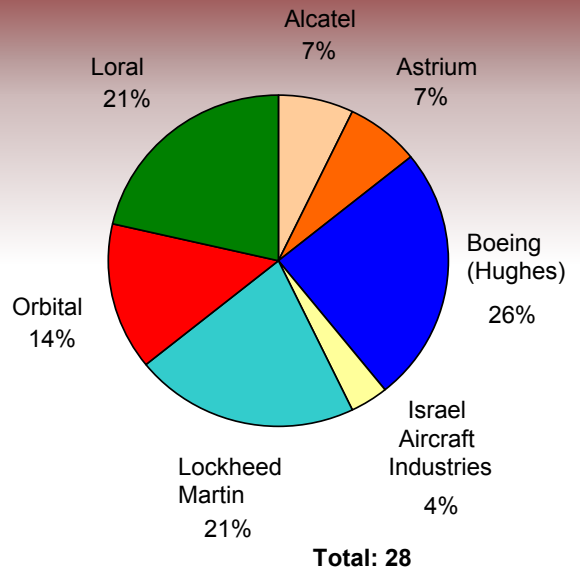
\* Authority to Proceed was issued by DirectTV, contingent upon completion of DirectTV 7S.  
 \*\* Intelsat agreed to order an additional satellite contingent upon the approval of its acquisition of Loral's US satellites.

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.

### 2002 Commercial GEO Communications Satellite Orders



### 2001 Commercial GEO Communications Satellite Orders



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