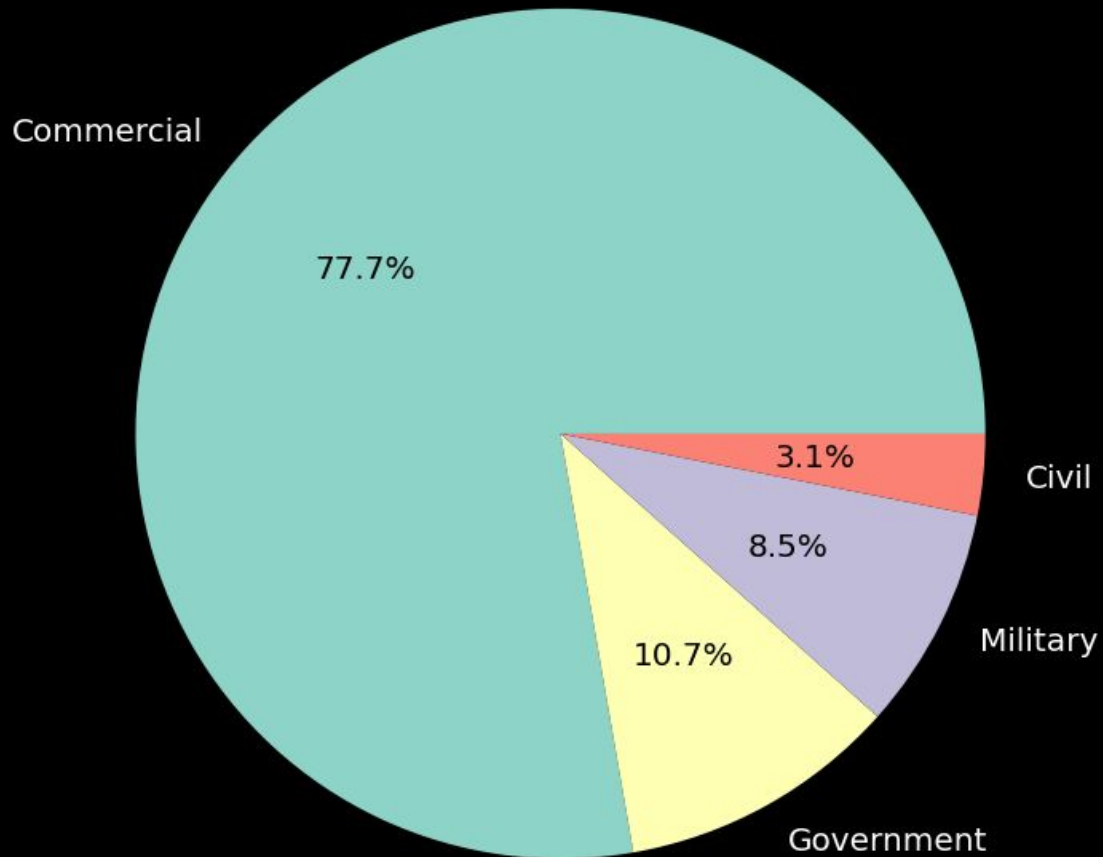


Satellites

Blake Rayvid

Flatiron School 6/21/24

Satellite purpose by sector



What are satellites used for?

Technology Demonstration

Earth Science

Space Science

Communications/Technology Development

Space Observation

Technology Development

Communications

Earth Observation

Communications/Navigation

Mission Extension Technology

Earth Observation/Technology Development

Navigation/Global Positioning

Navigation/Regional Positioning

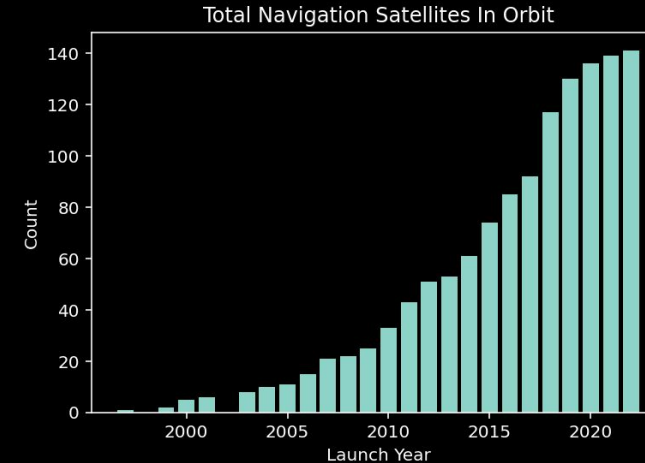
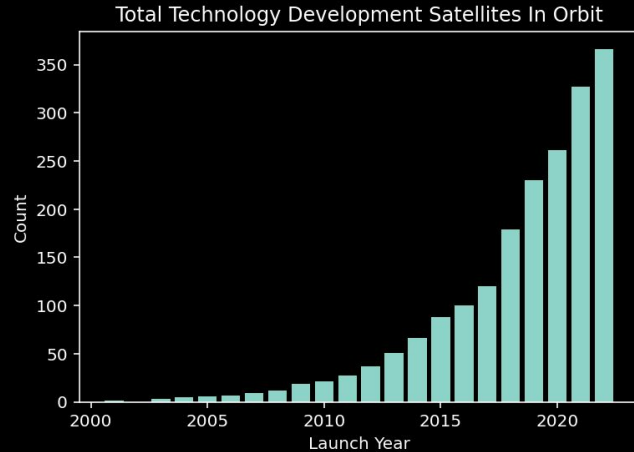
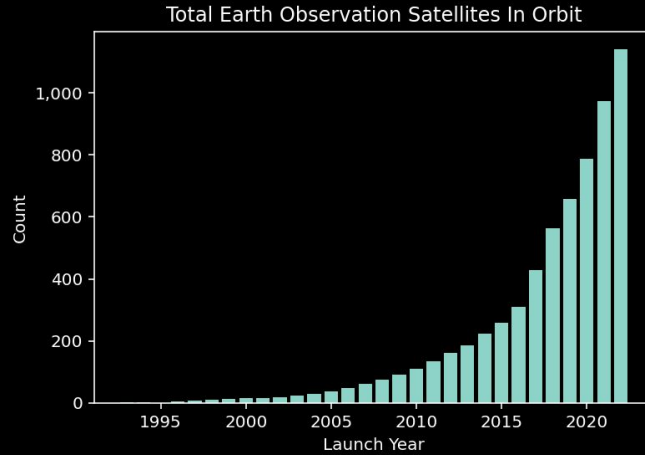
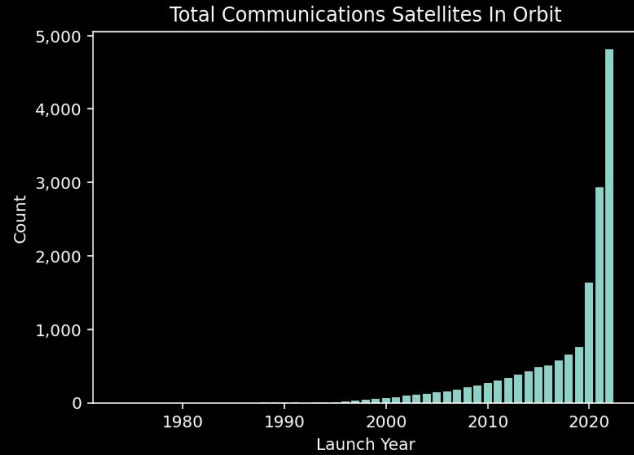
Earth Observation

Earth Observation/Communications

Earth Observation/Communications/Space Science

Surveillance

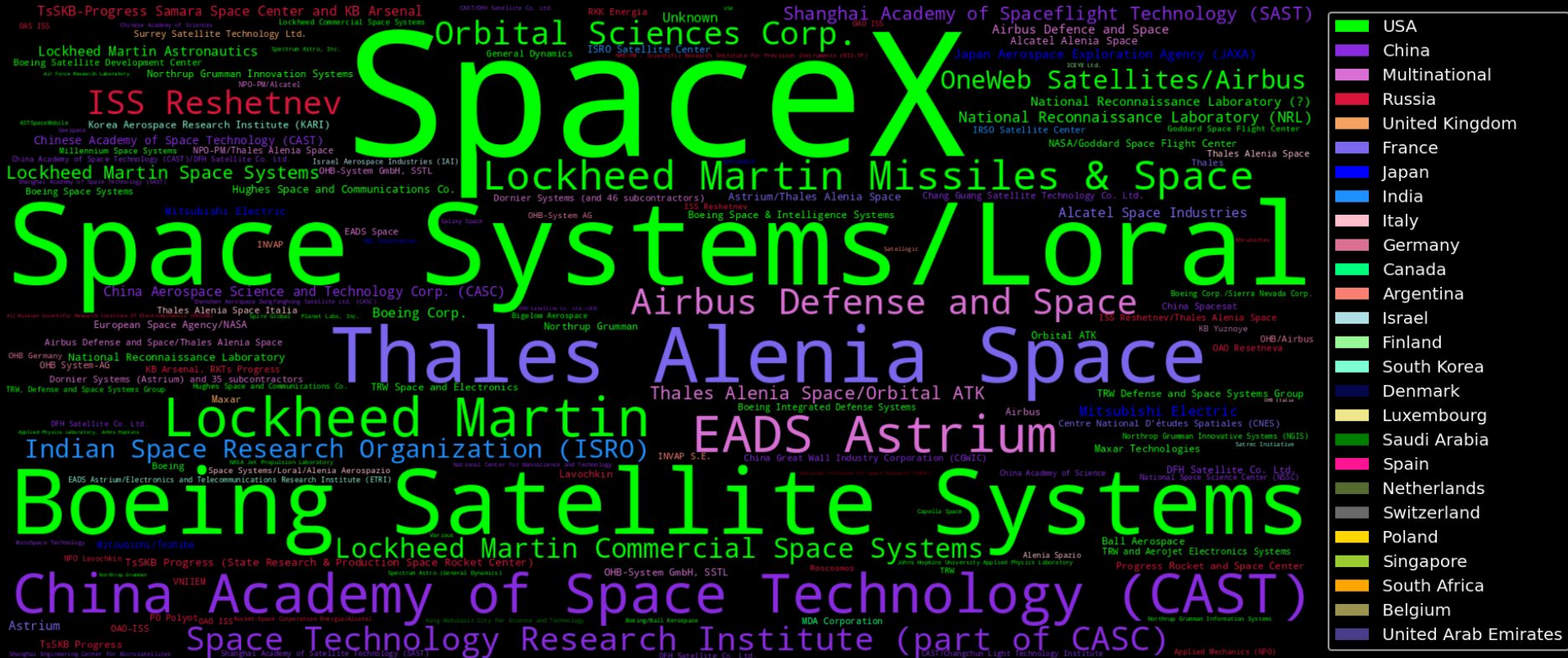
How many are up there?



[illegible]

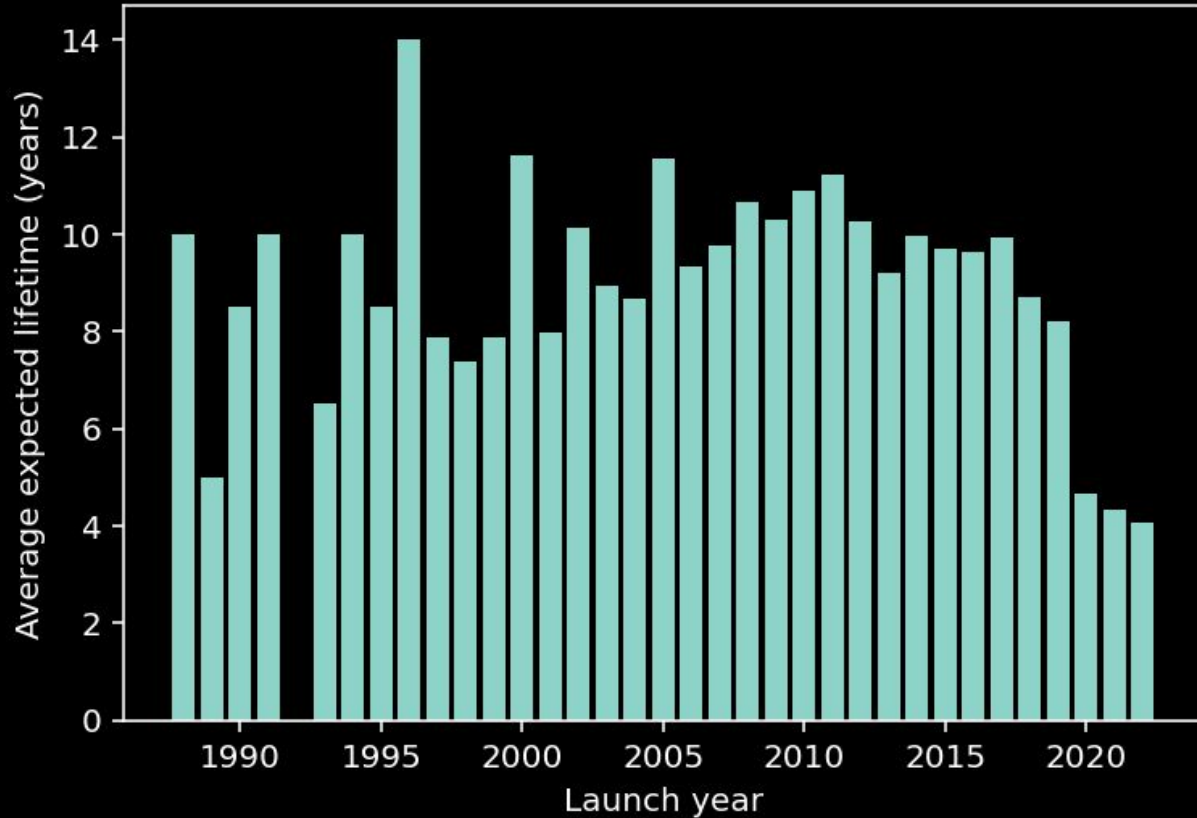
- (scaled by total mass)

Who manufactured them?



(scaled by total mass)

How long are satellites made to last?



Recommendations

DODGE

Enhance collision avoidance systems.

DE-ORBIT

Promote de-orbiting mechanisms for satellite end-of-life.

DEVELOP

Invest in R&D for satellite durability and longevity.