FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION OF HIGHER EDUCATION NOVOSIBIRSK STATE TECHNICAL UNIVERSITY

SPACEX

DMITRIY MOSIENKO

PS-62

THE AIRCRAFT FACULTY

03.03.2018



HEADQUARTERED IN HAWTHORNE, CALIFORNIA





SPACEX IN 2002



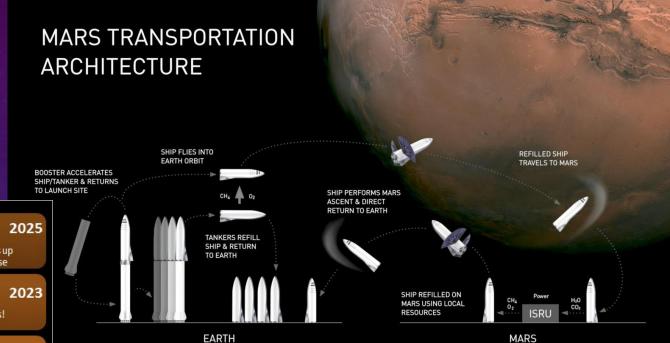


THE GOAL OF SPACEX



mages: Mars One, Nasa, Shutterstock/1971yes, SergeyDV

mulation of Mars base on Earth



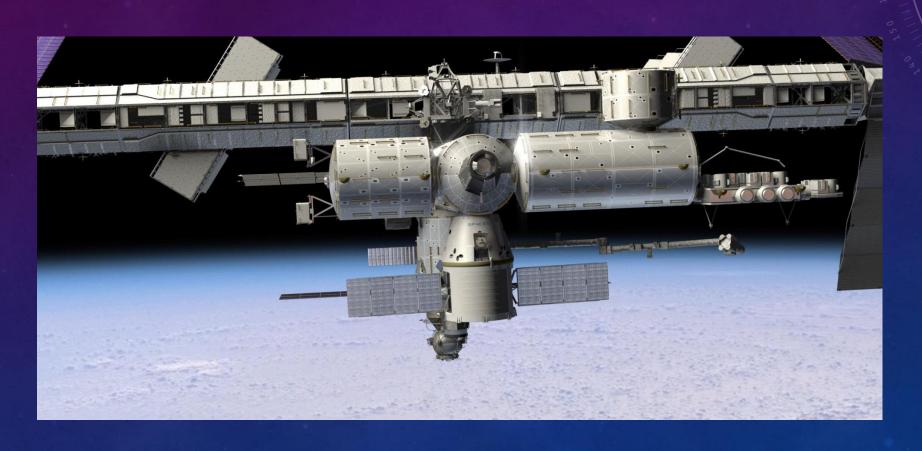
SEPTEMBER 2008
FALCON 1 BECOMES THE FIRST PRIVATELY DEVELOPED LIQUID FUEL ROCKET TO REACH EARTH ORBIT.



DECEMBER 2008

NASA AWARDS SPACEX \$ 1.6B COMMERCIAL RESUPPLY SERVICES

(CRS) CONTRACT.

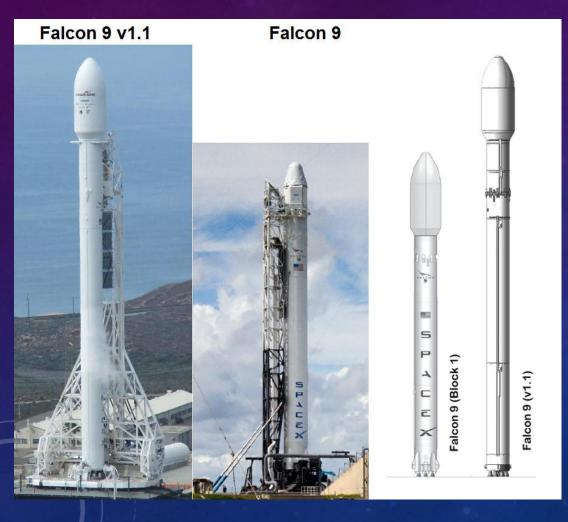


JULY 2009 FALCON 1 FLIGHT 5 BECOME THE FIRST PRIVATELY DEVELOPED LIQUID FUEL ROCKET TO DELIVER A COMMERCIAL SATELLITE TO EARTH ORBIT





JUNE 2010 FALCON 9 FIRST FLIGHT.





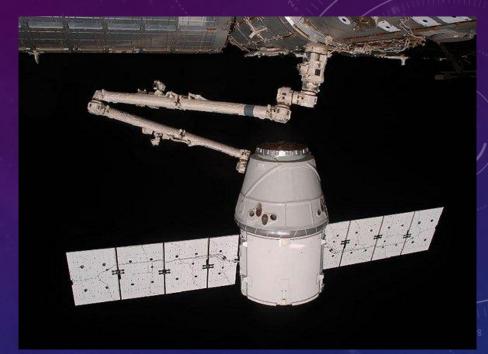
DECEMBER 2010 SPACECRAFT DRAGON RETURNS FROM EARTH ORBIT.





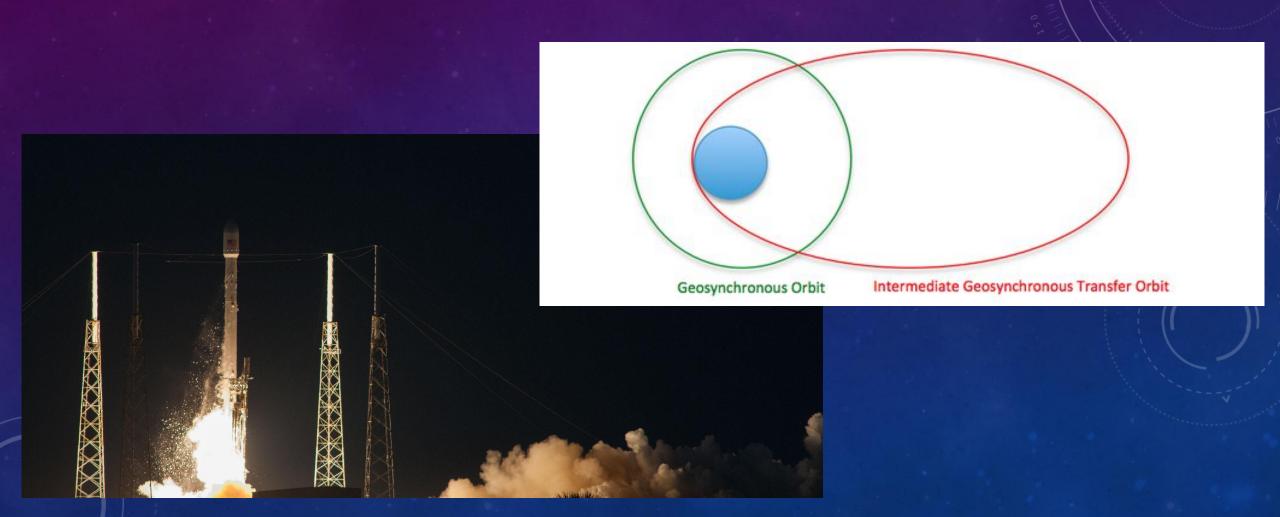
MAY 2012 DRAGON VISITED THE SPACE STATION.







DECEMBER 2013 FIRST FLIGHT OF FALCON 9 TO GEOSYNCHRONOUS TRANSFER ORBIT.



APRIL 2014 FALCON 9 FIRST STAGE SUCCESSFULLY LANDS IN ATLANTIC OCEAN.





DECEMBER 2015 THE FALCON 9 ROCKET DELIVERED 11 COMMUNICATIONS SATELLITES TO ORBIT, AND THE FIRST STAGE RETURNED AND LANDED AT LANDING ZONE 1.





APRIL 2016
DRONESHIP LANDING
THE FALCON 9 ROCKET LAUNCHED THE DRAGON SPACECRAFT TO THE
INTERNATIONAL SPACE STATION, AND THE FIRST STAGE RETURNED AND LANDED
ON THE DRONESHIP.





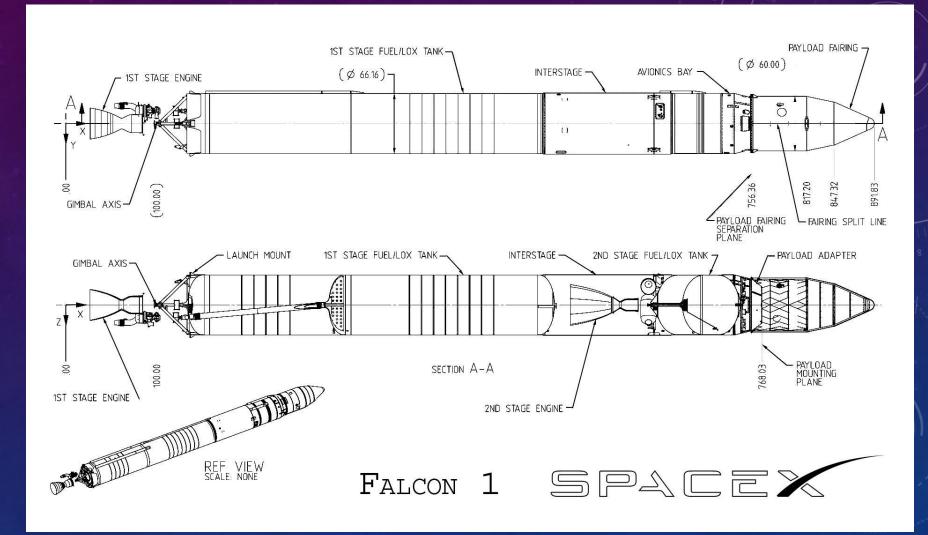
MARCH 2017
FIRST REFLIGHT
SPACEX ACHIEVED THE WORLD'S FIRST REFLIGHT OF AN ORBITAL CLASS ROCKET.
FOLLOWING DELIVERY OF THE PAYLOAD, THE FALCON 9 FIRST STAGE RETURNED
TO EARTH FOR THE SECOND TIME.





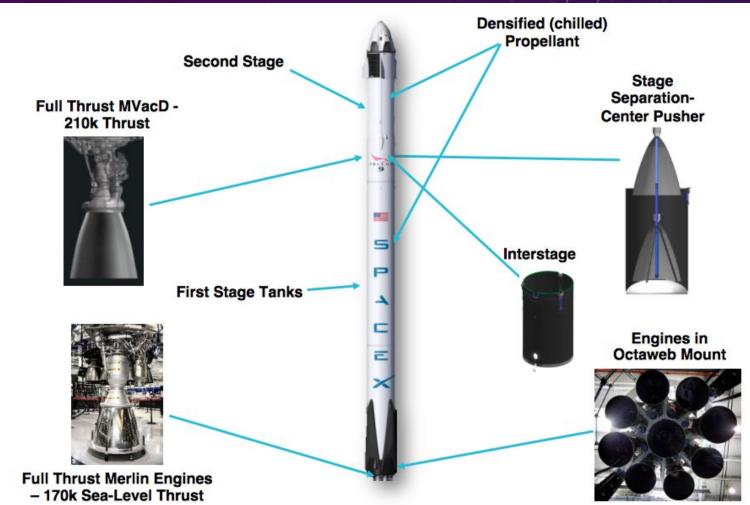
FALCON 1





FALCON 9





FALCON HEAVY





CAPABILITIES & SERVICES

PRICE	FALCON 9
STANDARD PAYMENT PLAN (2018 LAUNCH)	\$62M Up to 5.5 mT to GTO
DESTINATION	PERFORMANCE*
LOW EARTH ORBIT (LEO)	22,800 kg 50,265 lbs
GEOSYNCHRONOUS TRANSFER ORBIT (GTO)	8,300 kg 16,300 lbs
PAYLOAD TO MARS	4,020 kg 8,860 lbs







FALCON HEAVY

PROTON

DELTA IV HEAVY

TITAN IV-B

5 ES

20,000 kg

ATLAS V 551

JAPAN H2B

CHINA LM3B

PAYLOAD TO LOW EARTH ORBIT (LEO)

LAUNCH VEHICLE

63,800 kg 140,660 lb

24,000 kg 53,790 lb

SPACE

SHUTTLE

23,000 kg 50,710 lb

22,560 kg 49,740 lb

21,680 kg 47,800 lb

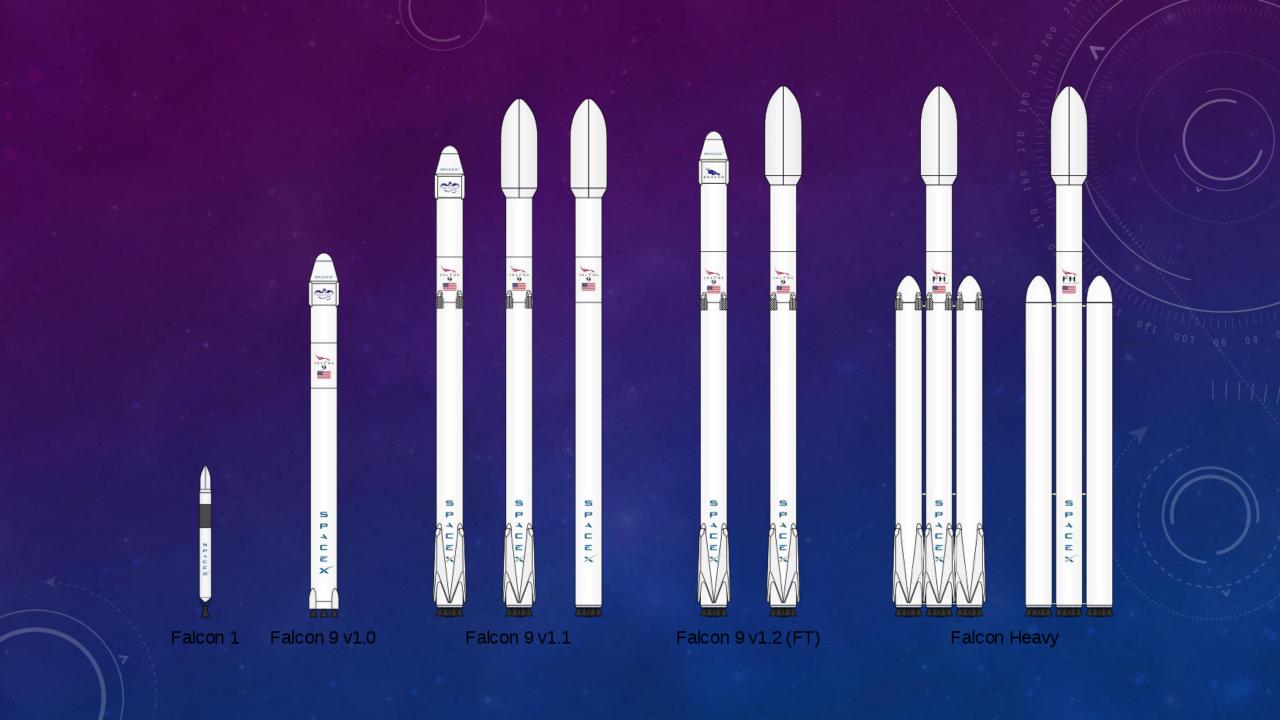
44,090 lb

ARIANE

18,510 kg 40,810 lb

16,500 kg 36,380 lb

11,200 kg 24,690 lb



DRAGON









GEOGRAPHY OF THE COMPANY





THE COMPANY HAS HEADQUARTER IN HAWTHORNE, CALIFORNIA







A ROCKET-DEVELOPMENT FACILITY IS IN MCGREGOR, TEXAS







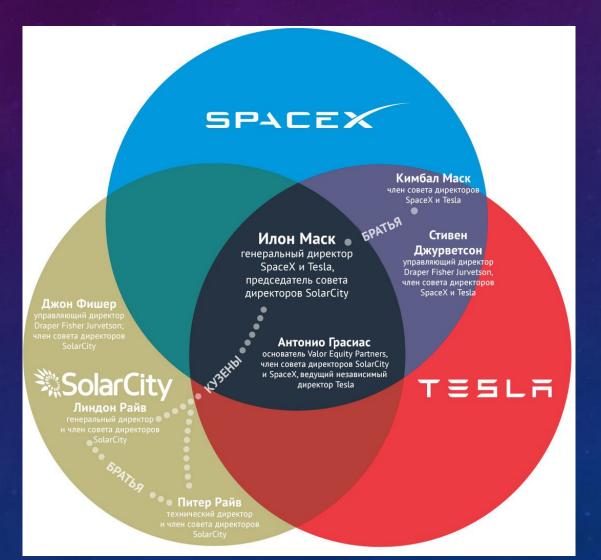
LAUNCH FACILITIES AT CAPE CANAVERAL AIR FORCE STATION, FLORIDA, KENNEDY SPACE CENTER, FLORIDA, AND VANDENBERG AIR FORCE BASE, CALIFORNIA.





SPACEX IS A PRIVATE COMPANY. THE COMPANY'S SHARES ARE NOT SOLD ON THE STOCK. MAIN SOURCES OF MONEY IS PRIVATE CAPITAL AND GOVERNMENT

CONTRACTS.



CHIEF EXECUTIVE OFFICER AND CHIEF TECHNICAL OFFICER OF THIS COMPANY IS ELON MUSK. HE OWNS 70 PERCENT OF THE COMPANY.

GWYNNE SHOTWELL IS CHIEF OPERATING OFFICER.









MANUFACTURING AND PRODUCTION - ENGINEERING





THANK YOU FOR ATTENTION

