



Maven Space Challenge

Missions
4629

Success

4161 89.9%



Failure

357 7.71%



Partial Failure

107 2.31%



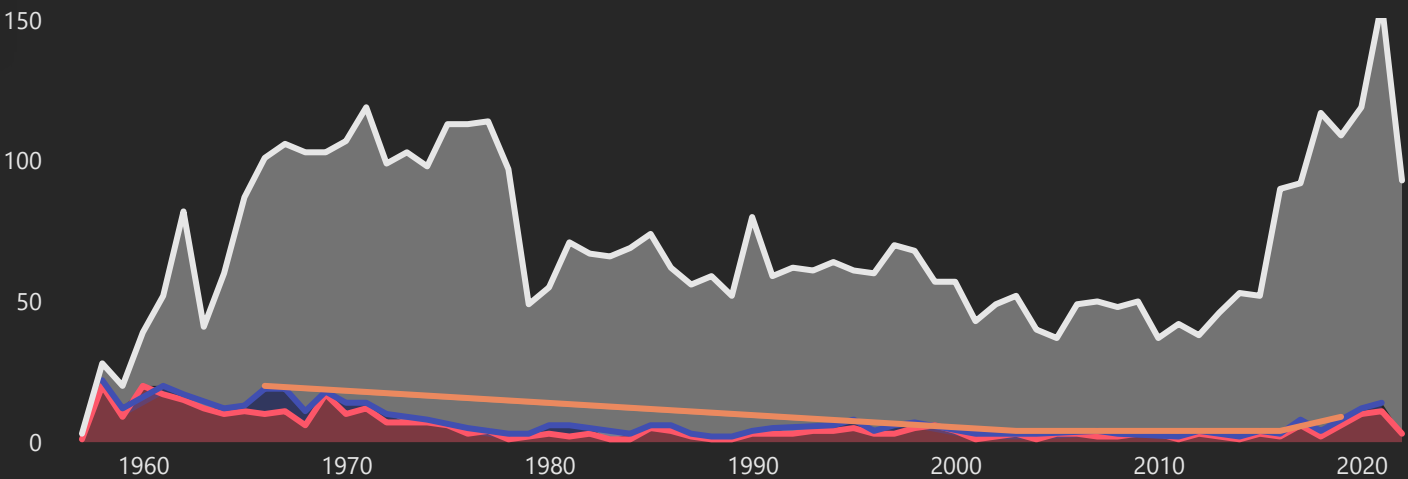
Prelaunch Failure

4 0.09%



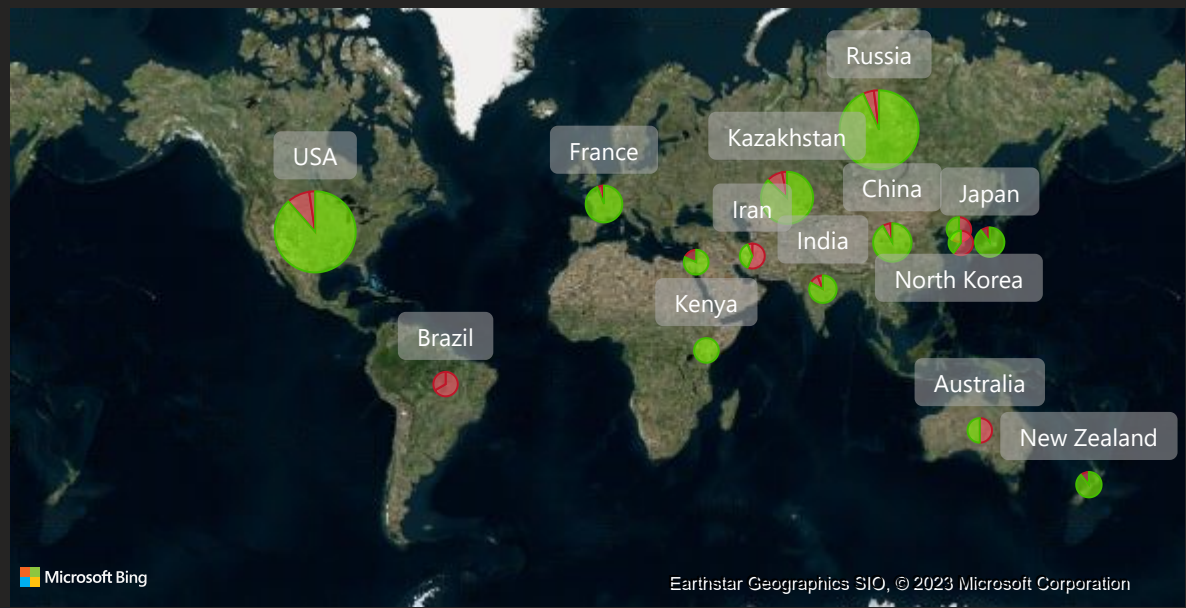
Missions by Year

● Failure ● Partial Failure ● Prelaunch Failure ● Success



- **2021** had the highest number of missions (157).
- **1957** had the lowest number of missions (3).
- **1983** had the highest success rate with 98.5%.
- **1958** had the lowest success rate with 21.4%.
- there were two peaks. one between **1961:1978** because of **Russia**, second between **2015:2022** because of **USA and France**.

Missions by Country



- The highest countries in the number of missions and successful missions were **USA** 1467 (1298), **Russia** 1416 (1323), and **Kazakhstan** 719 (625).
- **Kenya** and **Shahrud missile test sites** had the highest success rate = 100 %.
- in the 90's **Russia and Kazakhstan** decreased their missions while **China** (especially from 2015) and **France** took the lead with USA.
- **Brazil** and the **pacific missile range facility** had the lowest success rate.
- **Iran** had a bad success rate with only 37.5 % with 10 failures in 16 total missions.

Countries

22



Active

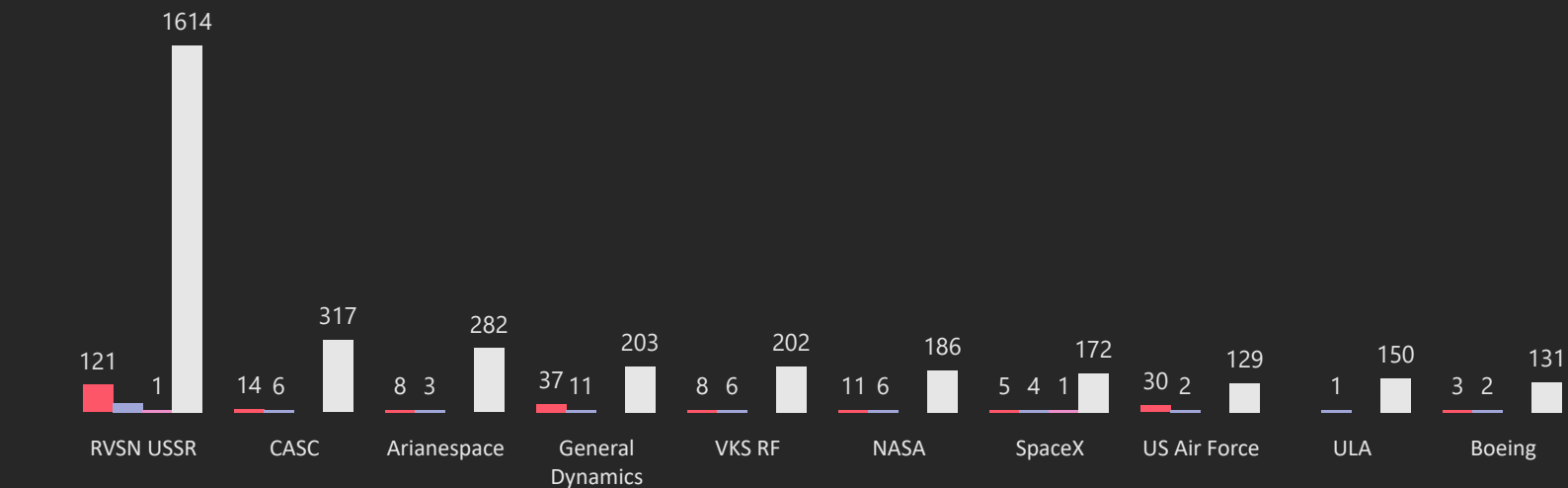
10



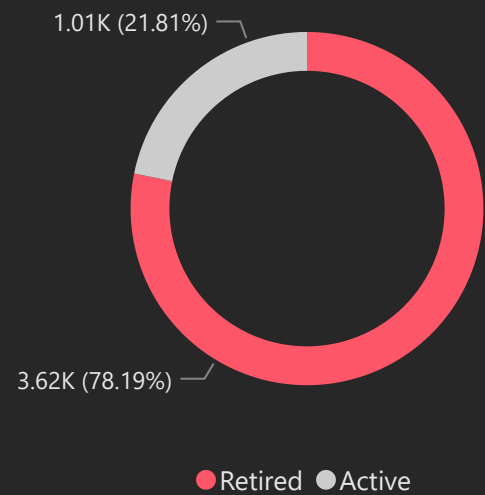
- **RVSN USSR** had the highest number of missions (1777) with **90.8 % success** rate using 38 different rockets (**100 % retired**) but the last mission was in **1998**.
- **ULA** had the highest success rate among the top 10 companies per number of missions (99.3%) but only with **151 missions**.
- **CASC** had the highest active rocket rate among the top 10 companies by a number of missions with 83.14 % by 37 different rockets, and also the **highest number of missions** from 2010 until now.
- there were some companies with a 100 % success rate but the only one to be considered is **Blue Origin** had 21 successful missions.
- **US Navy** had the lowest success rate with only (11.8%) with 15 failures in 17 total most of them in 1958.

Missions Per Company

● Failure ● Partial Failure ● Prelaunch Failure ● Success

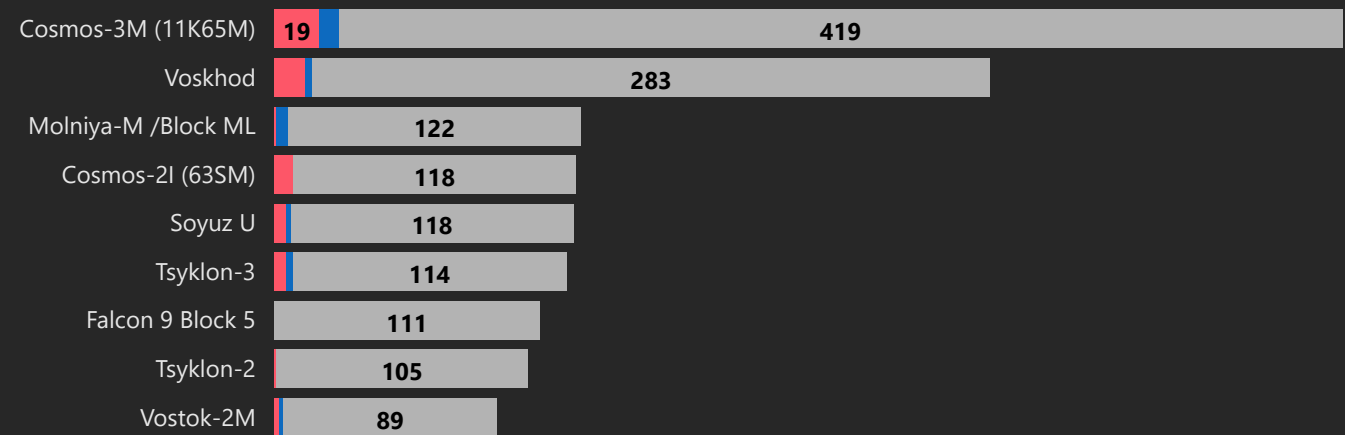


Rocket Status



Missions Per Rocket

● Failure ● Partial Failure ● Success



- **Comos-3m** had the highest number of missions but their last mission was in 2010.
- **Falcon 9 block 5** had the highest number of missions among the active rockets.
- there were many rockets with a 100 % success rate but the only one to be considered is **Falcon 9 block 5** with 111 missions.
- **Safir - 1B +** had the lowest success rate with only (16.7%).