

Executive Summary: Global Space Exploration Dashboard

Key Performance Indicators (KPIs)

- Total Missions: 3,000
- Average Budget: \$25.43 Billion
- Average Success Rate: 74.99%
- Average Mission Duration: 181.48 Days

These figures reflect a robust global commitment to space missions with consistent funding and promising success rates across nations.

Mission Duration by Country

- Top Contributors: China, UK, Israel, and France lead in total mission durations, indicating a strong presence in long-term space exploration.
- Germany shows relatively shorter mission durations, which may reflect either focused short-term missions or limited involvement.

Budget Trends Over Time

- The Budget vs Year line chart indicates fluctuating investments, with peaks suggesting landmark projects or increased international interest during certain periods.
- A recent dip may suggest budget reallocations, mission completions, or economic factors.

Global Collaboration

- The Map Visual highlights extensive international collaboration, particularly concentrated in Europe, Asia, and North America.
- This points to space exploration as a globally shared endeavor with geopolitical alliances shaping mission

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partnerships.

Environmental Impact vs. Technology

- Technologies like Reusable, Solar, and Nuclear Propulsion show varied environmental impacts.
- Reusable and Solar technologies are trending towards lower environmental footprints, supporting greener mission planning.
- Traditional methods tend to carry higher environmental costs.

Budget vs. Success Rate

- A clear positive correlation exists: higher budgets tend to yield higher success rates, reinforcing the importance of adequate investment in R&D and mission planning.

Interactive Filters

Users can drill down insights using filters like:

- Country
- Year
- Technology Used

These filters support focused analysis and help stakeholders tailor insights to specific strategic objectives.

Conclusion

This dashboard delivers an insightful, data-driven narrative of how countries invest, innovate, and collaborate in space missions.

With increasing focus on environmental sustainability and technological advancement, global space

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exploration is poised for more efficient and impactful growth in the coming decades.