



## NASA's Mars Sample Return Program

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Recently, NASA's Perseverance Rover, nicknamed Percy, created the **first “sample depot on another world”** by putting down **ten rock sample tubes** that were supposed to be returned to Earth as part of the **Mars Sample Return Campaign**.

- However, the plan is **too expensive** costing \$11 billion, and will only be executed by the **year 2040**.
- **Perseverance rover:**
  - It is a **robotic explorer** part of NASA's Mars 2020 mission.
  - Launched in July 2020, it **landed on [Mars' Jezero Crater](#)** in February 2021.
  - It is a **Mars rover** about the size of a car but weighs only about **1,025 kilograms** with all instruments on board.
  - It **collects rock and soil samples, encasing them in tubes** for a future return to Earth.
  - A **Multi-Mission Radioisotope Thermoelectric Generator**, which uses heat from plutonium decay to generate electricity, acts as the power source for the rover.

**Read more:** [Perseverance Rover, Mars](#)

PDF Reference URL: <https://www.drishtias.com/printpdf/nasa-mars-sample-return-program>