

0/22
53

Nasa's DART gives hope that tech. advancement can prevent extra terrestrial threats. Explain

The same the world experiment of the NASA demonstrated the asteroid deflection through its DART mission (double asteroid redirection test). The DART mission will provide insights to handle extra terrestrial threats.

DARTing the asteroid

The DART mission is a part of AIDA asteroid impact and deflection assessment as a hazard mitigation measure to deflect an asteroid.

Didymos' moonlet Dimorphos was the target at 11 million km. The deflection will be ensured by ESA (European space Agency) from mission. Yet, Nasa observed the orbital time and deduced that the revolution time of Dimorphos decreased from 11hrs:55m to 11h:23minutes

Takeaways from DART

① Technology — such as kinetic impactor can be put to use for civilian purposes. The space craft can be used for deep space research and threat from solar flares.

② Impact The Chicxulub crater in Mexico was impacted by an asteroid 66 million years ago. wiping out 75% of flora and fauna. ~~A~~ DART's influence can prevent such catastrophe.

③ Asteroid mining — the 16 Psyche asteroid houses tonnes of gold, iridium, platinum, rhodium & deflection experiment can help harvest the asteroid worth \$10,000 quadrillion

The extraterrestrial threats are limited mainly to meteor strikes, asteroids and solar flares. The real threat of biodiversity erosion, climate change and invasive species must be addressed.