

The logo features the word "NASA" in a large, white, stylized font. The letters are bold and blocky, with a slight shadow effect. The word "CENTENNIAL CHALLENGES" is written in a smaller, white, sans-serif font, centered horizontally across the middle of the "NASA" letters. The background is a dark blue gradient with a subtle pattern of white stars and a faint, glowing circular shape behind the text.

NASA
CENTENNIAL CHALLENGES
NASA

1

00:00:01,820 --> 00:00:06,620

We need autonomy because we are going deeper into the solar system. We need

2

00:00:06,629 --> 00:00:11,130

this kind of technology. After we won the NASA Centennial Challenge we have now

3

00:00:11,130 --> 00:00:15,420

started working in collaboration with NASA JPL on a new project. Our fast

4

00:00:15,420 --> 00:00:19,800

traverse rover. We are going to take everything that we've learned from the

5

00:00:19,800 --> 00:00:23,400

Centennial Challenge and make future Mars rovers more autonomous. We were

6

00:00:23,400 --> 00:00:28,590

funded by NASA EPSCoR program to develop a fast traverse capability for future

7

00:00:28,590 --> 00:00:33,359

Mars rovers. We're adding shock resistance and an active suspension

8

00:00:33,359 --> 00:00:37,050

system. This rover needs to be able to autonomously navigate over long

9

00:00:37,050 --> 00:00:41,339

distances. Travel kilometers at a time, without human input, making its own

10

00:00:41,339 --> 00:00:46,289

decisions for obstacle avoidance. Robot have to decide everything by itself.

11

00:00:46,289 --> 00:00:50,670

The NASA Centennial challenge really opened the door, it gives us the credibility as

12

00:00:50,670 --> 00:00:54,640

a research group as, "we've already
achieved this, here's how we're going to