



1

00:00:00,750 --> 00:00:04,780

The robot consists of two snowmobile tracks and two solar panels.

2

00:00:06,300 --> 00:00:12,170

It's not a robot for the sake of building a robot. But it's a robot for science.

3

00:00:15,230 --> 00:00:18,250

The climate is changing and snow is really important

4

00:00:18,270 --> 00:00:23,280

because it reflects a lot of the energy and heat from the sun.

5

00:00:23,300 --> 00:00:28,300

Places like Greenland which are covered in snow are very important.

6

00:00:28,320 --> 00:00:32,330

It's a large area of the earth's surface that's reflecting energy.

7

00:00:34,370 --> 00:00:40,400

Our main concern and main motivation to come over here was to be able to test it in the extreme environment,

8

00:00:40,420 --> 00:00:45,370

and temperature is definitely one of the most difficult issues.

9

00:00:45,390 --> 00:00:49,510

One thing is to be testing it in a controlled environment

10

00:00:49,530 --> 00:00:54,530

in a university, and a completely different thing is to come up here.

11

00:00:58,590 --> 00:01:08,650

When you get up here at -30 Celsius the wires, they just break in the cold, their so brittle.

12

00:01:13,680 --> 00:01:16,730

Biggest challenge was definitely trying to

13

00:01:16,750 --> 00:01:20,100

solve problems in the field.

14

00:01:20,120 --> 00:01:24,860

Out here when something breaks five miles out in the middle of the ice,

15

00:01:24,880 --> 00:01:28,890

it's very difficult to get the tools out and stay warm

16

00:01:28,910 --> 00:01:31,230

enough to be able to perform the repairs.

17

00:01:31,250 --> 00:01:36,960

We had to kinda go in shifts, work for a little bit, and then put your hands

18

00:01:36,980 --> 00:01:40,180

back in the gloves, or swing them, or put them in your armpits, or something.

19

00:01:40,200 --> 00:01:42,300

Warm them up, take a break.

20

00:01:42,320 --> 00:01:48,020

A repair that would take 10 minutes in normal conditions in a warehouse or a shop,

21

00:01:48,040 --> 00:01:53,110

it would take hours out there.

22

00:01:53,130 --> 00:01:57,180

What else could it be?

23

00:01:57,200 --> 00:02:01,240

Quick test - backwards first.

24

00:02:05,320 --> 00:02:10,360

Yes, we could have failed but we made it.

25

00:02:10,380 --> 00:02:13,400

It was kind of magic, to see it happen

26

00:02:13,420 --> 00:02:19,120

to see GROVER moving, every single time he went. It was great.

27

00:02:19,140 --> 00:02:22,840

GROVER represents the ability to collect an enormous amount of data.

28

00:02:22,860 --> 00:02:26,170

It would really revolutionize how much information