



1
00:00:00,020 --> 00:00:04,030

Future interplanetary internet will extend our interconnected network into the solar system and beyond.

2
00:00:04,030 --> 00:00:08,050

Spacecraft must communicate over great distances and do not always have a link available.

3
00:00:08,050 --> 00:00:12,070

NASA leads the development of a technology, Disruption Tolerant Networking, to overcome these challenges.

4
00:00:12,070 --> 00:00:16,080

No end-to-end connection necessary.

5
00:00:16,080 --> 00:00:20,090

So, how does it work? Computers talk to each other via IP addresses.

6
00:00:20,090 --> 00:00:24,100

If the connection is interrupted the data is lost and must be resent from the original source.

7
00:00:24,100 --> 00:00:28,120

Disruption Tolerant Networking allows for interruption.

8
00:00:28,120 --> 00:00:32,130

By storing data until the connection to the next hop is established.