1
00:00:00,679 --> 00:00:04,049
SpaceX-3 also is launching the Vegetable Production System

2
00:00:04,049 --> 00:00:06,970
(Veggie for short) to the space station.

3
00:00:06,970 --> 00:00:11,130
This is a plant growth system that will provide the necessary lighting and

4
00:00:11,130 --> 00:00:15,820
nutrient delivery for plant growth in space, supporting a wide range of uses,

5
00:00:15,820 --> 00:00:20,600
from research to education to a fresh food source for astronauts.

6
00:00:20,600 --> 00:00:24,990
The Veggie system will be the simplest plant growth system on the space station to date

7
00:00:24,990 --> 00:00:29,520
but will provide the largest surface area yet to grow plants.

8
00:00:29,520 --> 00:00:34,070
The first that will be grown is lettuce, which will be harvested and returned

9
00:00:34,070 --> 00:00:38,020
to Earth for nutrient and microbial analysis to determine their

10
00:00:38,020 --> 00:00:39,940
fitness as food.

11
00:00:39,940 --> 00:00:43,890

The system can be deployed and stowed as needed
on the space station, and can run

12
00:00:43,890 --> 00:00:46,870
on less power than a desktop computer.

13
00:00:46,870 --> 00:00:50,450
The plants are grown in individual “pillows”
that act as little pods of

14
00:00:50,450 --> 00:00:54,480
nutrients and root matting for each plant.

15
00:00:54,480 --> 00:00:58,640
In addition to plant growth for producing
edible crops, scientists are also

16
00:00:58,640 --> 00:01:02,760
exploring the future research that looks at
behavioral impacts of plant