



1
00:00:01,020 --> 00:00:02,990

Narrator: NASA Administrator Charlie Bolden was

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00:00:02,990 --> 00:00:05,730

recently joined by local United States Congressman

3
00:00:05,730 --> 00:00:08,820

Mike Honda to see cutting edge technology being

4
00:00:08,820 --> 00:00:10,810

developed at NASA's Ames Research Center

5
00:00:10,810 --> 00:00:13,030

in Silicon Valley.

6
00:00:13,030 --> 00:00:14,830

The first stop was to inspect a model of a

7
00:00:14,830 --> 00:00:16,750

commercial aircraft in the test section of the

8
00:00:16,750 --> 00:00:19,280

Unitary wind tunnel at Ames.

9
00:00:19,280 --> 00:00:21,690

The model is part of NASA's effort to develop

10
00:00:21,690 --> 00:00:23,460

green aviation solutions by

11
00:00:23,460 --> 00:00:26,060

increasing fuel efficiency.

12
00:00:26,060 --> 00:00:28,140

A theme that was shared during the day is that

13
00:00:28,140 --> 00:00:30,910

NASA is with you when you fly, both in the air

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00:00:30,910 --> 00:00:32,790

and on the ground.

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00:00:32,790 --> 00:00:35,480

Charles Bolden: Your Ames family here will continue

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00:00:35,480 --> 00:00:37,990

to play a critical role in leveraging these

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00:00:37,990 --> 00:00:40,370

investments to help ensure that America

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00:00:40,370 --> 00:00:43,960

remains "Number 1" in aeronautics.

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00:00:43,960 --> 00:00:45,880

Narrator: The tour then showcased the virtual air

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00:00:45,880 --> 00:00:49,550

traffic control tower called FutureFlight Central.

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00:00:49,550 --> 00:00:52,180

Ames researchers demonstrated advanced software

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00:00:52,180 --> 00:00:54,770

designed to improve ground traffic efficiency at

23

00:00:54,770 --> 00:00:57,420

airports, meaning less time idling and

24

00:00:57,420 --> 00:01:00,490

taxiing on the ground.

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00:01:00,490 --> 00:01:03,060

Bolden and Honda took a ride in a prototype of a

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00:01:03,060 --> 00:01:05,600

Nissan driverless car.

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00:01:05,600 --> 00:01:07,720

Ames' partnership with the automobile company

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00:01:07,720 --> 00:01:10,280

brings together Nissan and NASA researchers

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00:01:10,280 --> 00:01:12,220

to share expertise in the development

30

00:01:12,220 --> 00:01:14,940

of autonomy technology.

31

00:01:14,940 --> 00:01:17,730

The tour then showcased new developments in NASA's

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00:01:17,730 --> 00:01:20,460

robotic vehicle technology and control systems

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00:01:20,460 --> 00:01:23,050

at the Ames Roverscape.

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00:01:23,050 --> 00:01:25,130

The technologies being developed here will help

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00:01:25,130 --> 00:01:28,880

future robotic missions explore the solar system.

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00:01:28,880 --> 00:01:31,500

Bolden took over the joystick for a rover called

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00:01:31,500 --> 00:01:34,040

K-REX and quickly discovered how fast and

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00:01:34,040 --> 00:01:36,390

effective it was at covering ground and climbing

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00:01:36,390 --> 00:01:37,940

over obstacles.

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00:01:37,940 --> 00:01:40,780

Crowd: (Laughter)

Bolden: Whew!

41

00:01:40,780 --> 00:01:42,290

Narrator: The tour concluded with a chance to

42

00:01:42,290 --> 00:01:45,930

visit NASA's Arc Jet facility at Ames.

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00:01:45,930 --> 00:01:48,990

This unique facility recreates the extreme heat

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00:01:48,990 --> 00:01:51,220

spacecraft encounter when plunging through

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00:01:51,220 --> 00:01:53,650

a planet's atmosphere, and is a key part

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00:01:53,650 --> 00:01:57,070

of preparing for a journey to Mars.

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00:01:57,070 --> 00:01:59,380

An innovative concept was on display for a

48

00:01:59,380 --> 00:02:02,280

deployable heat shield that opens similarly to an

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00:02:02,280 --> 00:02:05,430

umbrella, but is made using a special carbon-based

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00:02:05,430 --> 00:02:07,720

flexible fabric.

51
00:02:07,720 --> 00:02:10,040
The tour of Ames was an important chance for

52
00:02:10,040 --> 00:02:12,260
Bolden and Honda to see how Silicon Valley

53
00:02:12,260 --> 00:02:16,400
innovation is helping NASA's missions.