



1  
00:00:37,750 --> 00:00:35,510  
we the people own hubble

2  
00:00:40,709 --> 00:00:37,760  
it's a part of our culture and we

3  
00:00:45,750 --> 00:00:42,709  
when there was a possibility that this

4  
00:00:47,750 --> 00:00:45,760  
servicing mission might not happen there

5  
00:00:50,229 --> 00:00:47,760  
was a huge outcry

6  
00:00:52,310 --> 00:00:50,239  
not just from the scientists but from

7  
00:00:54,389 --> 00:00:52,320  
the members of the public themselves

8  
00:00:56,470 --> 00:00:54,399  
people who are not scientists

9  
00:00:59,110 --> 00:00:56,480  
they are the ones who wrote letters and

10  
00:01:01,830 --> 00:00:59,120  
made phone calls and sent faxes to try

11  
00:01:03,510 --> 00:01:01,840  
to get that changed

12  
00:01:05,189 --> 00:01:03,520  
hubble has revolutionized our

13  
00:01:06,870 --> 00:01:05,199

understanding of the cosmos and they've

14

00:01:09,270 --> 00:01:06,880

given our children

15

00:01:11,750 --> 00:01:09,280

a much clearer and newer view than we

16

00:01:13,510 --> 00:01:11,760

had when we were children but with this

17

00:01:15,910 --> 00:01:13,520

servicing mission we're going to be

18

00:01:17,749 --> 00:01:15,920

expanding our vision even further giving

19

00:01:19,510 --> 00:01:17,759

all of our children a bigger and more

20

00:01:29,670 --> 00:01:19,520

fascinating universe

21

00:01:34,149 --> 00:01:32,230

so if i had to think of three words that

22

00:01:36,789 --> 00:01:34,159

i would use to characterize the legacy

23

00:01:39,510 --> 00:01:36,799

of hubble for all of us in the future

24

00:01:40,710 --> 00:01:39,520

those words would be vision

25

00:01:42,149 --> 00:01:40,720

hope

26

00:01:44,789 --> 00:01:42,159

and triumph

27

00:01:46,550 --> 00:01:44,799

you know hubble's not just a machine

28

00:01:48,469 --> 00:01:46,560

it's more than the telescope and more

29

00:01:52,469 --> 00:01:48,479

than the cameras and the equipment it's

30

00:01:54,950 --> 00:01:52,479

a vast network of people who conceived

31

00:01:57,990 --> 00:01:54,960

and built and operate and appreciate

32

00:02:00,069 --> 00:01:58,000

this incredible tool

33

00:02:02,149 --> 00:02:00,079

it's the spacecraft builders not only

34

00:02:05,510 --> 00:02:02,159

the scientists but the engineers the

35

00:02:07,030 --> 00:02:05,520

technicians bureaucrats politicians and

36

00:02:08,949 --> 00:02:07,040

everybody who work together to make

37

00:02:12,070 --> 00:02:08,959

hubble a reality and to keep it a

38

00:02:14,390 --> 00:02:12,080

reality they had to have vision

39

00:02:16,390 --> 00:02:14,400

they had to have hope

40

00:02:18,390 --> 00:02:16,400

and ultimately there was the triumph of

41

00:02:20,470 --> 00:02:18,400

seeing it come to fruition

42

00:02:22,710 --> 00:02:20,480

astronomers from all around this globe

43

00:02:25,030 --> 00:02:22,720

use the telescope

44

00:02:28,869 --> 00:02:25,040

scientists from everywhere have the hope

45

00:02:33,670 --> 00:02:30,790

it's a triumph of hubble that it can

46

00:02:34,710 --> 00:02:33,680

probe all aspects of science from the

47

00:02:38,630 --> 00:02:34,720

planets

48

00:02:39,830 --> 00:02:38,640

to the cosmos to galaxies to everything

49

00:02:42,790 --> 00:02:39,840

in between

50

00:02:45,030 --> 00:02:42,800

star formation galaxy formation the

51  
00:02:47,589 --> 00:02:45,040  
tools on hubble have given us the vision

52  
00:02:50,710 --> 00:02:47,599  
needed to study this but these images

53  
00:02:52,470 --> 00:02:50,720  
are transformed in our imaginations

54  
00:02:58,470 --> 00:02:52,480  
and they have captured the imagination

55  
00:03:03,509 --> 00:03:01,750  
ordinary people love hubble the hubble

56  
00:03:05,830 --> 00:03:03,519  
story resonates with people because it's

57  
00:03:08,869 --> 00:03:05,840  
the story of humanity it's a story of

58  
00:03:15,750 --> 00:03:08,879  
hope it's the story of darkness

59  
00:03:21,030 --> 00:03:18,790  
and of course the astronaut corps not

60  
00:03:24,390 --> 00:03:21,040  
just the astronauts but the support

61  
00:03:26,789 --> 00:03:24,400  
staff the shuttle engineers thousands of

62  
00:03:29,589 --> 00:03:26,799  
individuals who contributed in myriad

63  
00:03:32,149 --> 00:03:29,599

ways to making this program a success

64

00:03:34,789 --> 00:03:32,159

their vision of a successful mission

65

00:03:37,910 --> 00:03:34,799

their hope of complete accomplishment

66

00:03:40,309 --> 00:03:37,920

have led to many triumphs in the past

67

00:03:42,869 --> 00:03:40,319

servicing missions the efforts of all of

68

00:03:46,229 --> 00:03:42,879

these people culminate in the atlantis

69

00:03:50,949 --> 00:03:48,229

the hubble space telescope has already

70

00:03:53,750 --> 00:03:50,959

earned its place in history as a triumph

71

00:03:56,390 --> 00:03:53,760

of science in our modern era yet there

72

00:03:58,949 --> 00:03:56,400

is more to see more to learn

73

00:04:01,910 --> 00:03:58,959

more to ponder and more to wonder at

74

00:04:04,710 --> 00:04:01,920

this mission will give hubble the tools

75

00:04:07,030 --> 00:04:04,720

for a marvelous swan song

76

00:04:09,830 --> 00:04:07,040

one more opportunity to probe this vast

77

00:04:11,990 --> 00:04:09,840

universe and all that lies within it

78

00:04:14,470 --> 00:04:12,000

as a scientist as a long-time user of

79

00:04:16,390 --> 00:04:14,480

hubble as a public citizen and as a

80

00:04:18,870 --> 00:04:16,400

parent i'm going to be watching this

81

00:04:20,710 --> 00:04:18,880

final mission with hope for the future

82

00:04:23,189 --> 00:04:20,720

i'll be marveling at the vision and

83

00:04:25,749 --> 00:04:23,199

triumph that hubble represents