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00:00:18,140 --> 00:00:20,300

\h Tom Simon/NASA's Commercial Crew Program: The Commercial Crew Program is really approaching

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00:00:20,300 --> 00:00:23,810

\h human spaceflight in a brand new way. For years and decades,

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00:00:23,810 --> 00:00:30,260

\h we've been approaching it as a government-managed, government-owned processes to

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00:00:30,260 --> 00:00:34,490

\h set up systems to meet the government's needs.

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00:00:34,490 --> 00:00:37,530

\h Now we're working with industry to help industry to be able to develop their own

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00:00:37,530 --> 00:00:42,110

\h systems to meet our needs and the needs of other users of those systems.

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00:00:42,110 --> 00:00:44,360

\h So, this means that we'll be able to get our people to space,

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00:00:44,360 --> 00:00:53,660

\h but also other people will be able to get to space on those same systems.

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\h Tom Simon/NASA's Commercial Crew Program: For the last few years, NASA has been investing

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00:00:56,420 --> 00:01:03,390

\h in industry to develop the capabilities for companies to be able to, with their own systems,

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00:01:03,390 --> 00:01:05,370

\h take people to low-Earth orbit.

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00:01:05,370 --> 00:01:08,730

\h And now we're beginning a phase where we're looking to reap the benefits from that

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00:01:08,730 --> 00:01:19,620

\h investment and be able to take our astronauts to the International Space Station.

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00:01:19,620 --> 00:01:20,860

\h Tom Simon/NASA's Commercial Crew Program: There's a lot of exciting research

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00:01:20,860 --> 00:01:23,440

\h being done on the International Space Station.

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00:01:23,440 --> 00:01:25,010

\h I like to think about it as two different groups.

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00:01:25,010 --> 00:01:30,290

\h The first group of being looking in a microgravity environment at the kind of things

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00:01:30,290 --> 00:01:36,140

\h happen with you mix different chemicals or you look at different materials form and crystals,

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00:01:36,140 --> 00:01:40,570

\h to help us really understand the fundamental science behind a lot of the things that

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00:01:40,570 --> 00:01:44,490

\h we use every day and the things that we use to build the things that we need.

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00:01:44,490 --> 00:01:47,460

\h And by that fundamental science, it will help us to make new medicines,

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00:01:47,460 --> 00:01:50,630

\h be able to make materials to make lighter products or

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00:01:50,630 --> 00:01:54,910

\h stronger things that we can use in airplanes, cell phones, anything.

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00:01:54,910 --> 00:01:58,920

\h And the other group of the things that we're doing on the space station is

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00:01:58,920 --> 00:02:02,660

\h getting ready to explore beyond low-Earth orbit.

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00:02:02,660 --> 00:02:07,770

\h It is studying the effects of microgravity on our astronauts and also trying out new technologies

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00:02:07,770 --> 00:02:19,980

\h that we can use for years in space before we venture all the way to Mars or something like that.

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00:02:19,980 --> 00:02:23,540

\h Tom Simon/NASA's Commercial Crew Program: Going to space is not like walking down to the park.

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00:02:23,540 --> 00:02:28,660

\h It's a dangerous endeavor, but with brave astronauts and working with the companies'

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00:02:28,660 --> 00:02:33,430

\h innovative solutions that are making the systems good enough to meet our needs

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00:02:33,430 --> 00:02:40,050

\h that are not pushing the envelope in either reducing safety or making things so

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00:02:40,050 --> 00:02:45,090

\h fancy we can't afford it anymore, so the balance we're striking

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00:02:45,090 --> 00:02:55,440

\h now gives us a lot of confidence that we'll be able to make this work.

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00:02:55,440 --> 00:02:58,310

\h Tom Simon/NASA's Commercial Crew Program: I'm very confident we're going to be

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00:02:58,310 --> 00:03:01,740

\h able to not only produce these systems to meet our needs, but they will be safe.

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00:03:01,740 --> 00:03:09,360

\h We've worked to come up with our safety requirements to help set what it is that we need in terms of sa

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00:03:09,360 --> 00:03:13,060

\h And we're allowing industry to address those needs in whatever way they can come up with

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00:03:13,060 --> 00:03:25,200

\h unleashing American ingenuity to come up with the right ways to meet those safety requirements.

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00:03:25,200 --> 00:03:28,010

\h Tom Simon/NASA's Commercial Crew Program: The Commercial Crew Program has the near-term

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00:03:28,010 --> 00:03:33,580

\h benefit of helping to get our crews to and from the space station.

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00:03:33,580 --> 00:03:38,670

\h But it fits into the overall big picture for NASA's exploration plan by allowing industry

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00:03:38,670 --> 00:03:45,520

\h to take the lead on a lot of the getting cargo and crew to and from low-Earth orbit.

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00:03:45,520 --> 00:03:50,980

\h It's going to allow NASA to push beyond low-Earth orbit and to accomplish exploration objectives,

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00:03:50,980 --> 00:03:53,580

\h whether it's to the moon, to asteroids, Mars.

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00:03:53,580 --> 00:03:58,230

\h With industry helping to shoulder the burden and take advantage of a