The Private Space Race

This week, American astronauts returned to earth. Their trip to the space station was the first manned launch from the U.S. in 10 years.

By NASA? No. Of course, not.

This space flight happened because government was *not* in charge.

An Obama administration committee had concluded that launching such a vehicle would take 12 years and cost \$36 billion.

But this rocket was finished in half that time—for less than \$1 billion (1/36th the predicted cost).

That's because it was built by Elon Musk's private company, Space X. He does things faster and cheaper because he spends his own money.

"This is the potential of free enterprise!" explains aerospace engineer Robert Zubrin in my newest video.

Of course, years ago, NASA did manage to send astronauts to the moon.

That succeeded, says Zubrin, "because it was purpose-driven. (America) wanted to astonish the world what free people could do."

But in the 50 years since then, as transportation improved and computers got smaller and cheaper, NASA made little progress.

Fortunately, President Obama gave private companies permission to compete in space, saying, "We can't keep doing the same old things as before."

Competition then cut the cost of space travel to a fraction of what it was.

Why couldn't NASA have done that?

Because after the moon landing, it became a typical government agency—over budget and behind schedule. Zubrin says NASA's purpose seemed to be to "supply money to various suppliers."

Suppliers were happy to go along.

Zubrin once worked at Lockheed Martin, where he once discovered a way for a rocket to carry twice as much weight. "We went to management, the engineers, and said, 'Look, we

could double the payload capability for 10 percent extra cost.' They said, 'Look, if the Air Force wants us to improve the Titan, they'll pay us to do it!'"

NASA was paying contractor's development costs and then adding 10 percent profit. The more things cost, the bigger the contractor's profit. So contractors had little incentive to innovate.

Even NASA now admits this is a problem. During its 2020 budget request, Administrator Jim Bridenstine confessed, "We have not been good at maintaining schedule and...at maintaining costs."

Nor is NASA good at innovating. Their technology was so out of date, says Zubrin, that "astronauts brought their laptops with them into space—because shuttle computers were obsolete."

I asked, "When (NASA) saw that the astronauts brought their own computers, why didn't they upgrade?"

"Because they had an entire philosophy that various components had to be space rated," he explains. "Space rating was very bureaucratic and costly."

NASA was OK with high costs as long as spaceships were assembled in many congressmen's districts.

"NASA is a very large job program," says Aerospace lawyer James Dunstan. "By spreading its centers across the country, NASA gets more support from more different congressmen."

Congressmen even laugh about it. Rep. Randy Weber (R-Texas) joked, "We'll welcome (NASA) back to Texas to spend lots of money any time."

Private companies do more with *less* money. One of Musk's cost-saving innovations is reusable rocket boosters.

For years, NASA dropped its boosters into the ocean.

"Why would they throw it away?" I ask Dunstan.

"Because that's the way it's always been done!" he replies.

Twenty years ago, at Lockheed Martin, Zubrin had proposed reusable boosters. His bosses told him: "Cute idea. But if we sell one of these, we're out of business."

Zubrin explains, "They wanted to keep the cost of space launch high."

Thankfully, now that self-interested entrepreneurs compete, space travel will get cheaper.

Musk can't waste a dollar. Space X must compete with Jeff Bezos' Blue Origin, Richard Branson's Virgin Galactic, Boeing, Lockheed Martin, and others.

The private sector always comes up with ways to do things that politicians cannot imagine.

Government didn't invent affordable cars, airplanes, iPhones, etc. It took competing entrepreneurs, pursuing profit, to nurture them into the good things we have now.

Get rid of government monopolies.

For-profit competition brings us the best things in life.