

# Tesla, Google, Apple: is Silicon Valley the future of the US car?

February 22 2015, by Luc Olinga

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The Apple logo is seen in this September 2012 file photo at the Yerba Buena Center for Arts in San Francisco

Is the future of the US car industry in Silicon Valley?

After Tesla and Google, Apple appears to be readying for a plunge into the industry long rooted far away in the steel belt of the US upper Midwest.

According to various media reports, the maker of iPhones and iPads has created a special unit baptized "Titan" with hundreds of staff to begin developing an electric car, with 2020 the target date.

Apple remains silent on the project, but the reports were partially backed up by a lawsuit filed against the tech giant. Battery maker 123 Systems has accused Apple of aggressively poaching its staff.

But it puts Apple in line with Tesla, the current champion of the electric car, and Google, the online giant which is focused on the self-driving, also-electric Google Car.

The Big Three US automakers—General Motors, Ford and Chrysler (now a part of Fiat Chrysler Automobiles, FCA)—are taking the threat from the Detroit outsiders seriously.

"Given the company's (Apple's) tremendous capabilities, that is no surprise to anyone," GM spokesman Dan Flores told AFP.

At Chrysler, spokesman Eric Maynes said: "We can't comment on something we haven't seen."

Ford too had no comment on Apple's plans, but the number two automaker recently opened a research center in Palo Alto, the heart of Silicon Valley, as it looks to the future of self-driving automobiles.

Bill Visnic, an analyst at industry specialist Edmunds.com, said that given the seven-year average time frame to develop and bring a car to the mass market, the Detroit giants are not under serious pressure yet.

Even with the unexpected success of Tesla, for instance, the company still sold less than 35,000 cars last year in a national market of more than 16 million units. And Tesla's cars are confined to a very high-end

niche market.

"Apple is not an immediate threat to the US auto industry. I don't think you'll see the volume there, the number of cars won't really begin to approach anything like Detroit is making right now at any time soon," said Visnic.

Alec Gutierrez, a market analyst at Kelley Blue Book, said Apple's strength is its role as a "disruptor" in industries, and that the "comprehensive ecosystem" of its popular consumer electronics could be extended to an "Apple car".



A worker pushes his machine past a 2014 Tesla P85s on display at the LA Auto Show in November 2014

**Money to spend**

Apple has the money to put into a new car—some \$180 billion in capital built up to invest in new projects.

Even so, said Gutierrez, given the costs and competition in the auto industry, "it's fraught with risk."

"The automotive space is so highly competitive today, and margins in new car sales are extraordinarily thin, which is something Apple is not used to."

"How many companies have totally failed into trying to enter the automotive industry? It's a tough thing and it's very expensive," added Brett Smith, program director at the Center for Automotive Research.

He pointed to Tesla continuing to lose money despite its success in marketing its luxury cars with battery systems superior to any offered by Detroit.



People walk on the Google campus in Mountain View, California, on February 20, 2015

And the major automakers are all working hard on making more and better hybrid and all-electric vehicles.

That sets a high bar for any new entrant, notes Smith.

"Does Apple have better technologies than Mercedes or Ford or GM or Toyota to build a car? I really doubt it."

What Apple could bring to the industry is what Google brings: ways to process and use data.



This January 2015 file photo shows the Chevrolet electric concept car Bolt EV at

the North American International Auto Show in Detroit, Michigan

Google is focused not on the physical car itself but on the technology that will allow cars to run themselves. Its self-driving vehicles, in the guise of various car models, have already driven hundreds of thousands of miles (kilometers) on California roads in test runs.

Apple already has something to offer the industry, notes Visnic. It could become a key supplier of connectivity technology for cars, putting its operating systems up against Google's Android, already being installed in many car models.

"For Apple, they have proven to be phenomenally good at user experience," Smith told AFP.

"The car for them will become another user experience device, and that will differentiate them."

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