# **TV TIME**

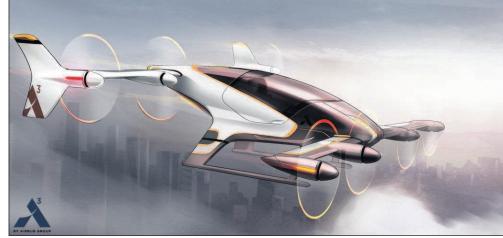
# **Entrepreneurs race to develop flying cars**

WASHINGTON (AP) -Even before George Jetson entranced kids with his cartoon flying car, people dreamed of soaring above traffic congestion. Inventors and entrepreneurs have long tried and failed to make the dream a reality, but that may be changing.

Nearly a dozen companies around the globe, including some with deep pockets such as European aircraft maker Airbus, are competing to be the first to develop a new kind of aircraft that will enable commuters to glide above crowded roadways. A few of the aircraft under development are cars with wings that unfold for flight, but most aren't cars at all. Typically they take off and land vertically like helicopters. Rather than a single, large main rotor, they have multiple small rotors. Each rotor is operated by a battery-powered electric motor instead of a conventional aircraft piston engine.

It's no sure bet that flying-car dreams will turn into reality. There are many obstacles, including convincing regulators that the aircraft are safe, figuring out how to handle thousands of new low-flying aircraft over cities without collisions and developing batteries that will keep them aloft long enough to be useful.

But entrepreneurs are moving forward. They see a vast potential market for "air taxis" and personally owned small aircraft to transport people from the fringes of



Airbus via AF This artist rendering provided by Airbus shows a vehicle in their flying car project.

works.

metropolitan areas to city centers as urban areas grow more congested and people spend more time stuck in traffic. They envision tens of thousands of one- or two-person flying taxis delivering passengers to the rooftops of office buildings in city centers and other landing pads during rush hours.

"In as little as 10 years, products could be on the market that revolutionize urban travel for millions of people," said Zach Lovering, the leader of Airbus' project to develop an autonomous flying taxi called the Vahana. The name means the mount or vehicle of a Hindu deity.

Uber released a 98-page report in October making the business case for air taxis, which the company sees as the future of on-demand transportation. Uber doesn't have any plans to develop a flying car itself, but the online transportation network



Research published on Monday shows that even in one's 70s and beyond, simple activities including web-surfing, playing bridge and socializing can stave off mental decline.

# Games, crafts, other activities may safeguard aging brain

is advising several companies that have aircraft in the "The role we want to play

is as a catalyst for the entire industry," said Nikhil Goel, an Uber project manager for advanced programs.

Some of the aircraft are

## **Tuesday Morning**

drones that passengers will be able to program for flight using a smartphone. Others will be operated from the ground or a command center, and some are designed for human pilots.

It's unclear yet how much the aircraft will cost, although prices are likely to vary significantly. Some of the aircraft are designed to be individually owned, while others are envisioned more for commercial use. Designers hope that if demand is high, prices can be kept affordable through economies of mass production.

Several recent developments could make these aircraft possible. Advances in computing power mean the rotors on multi-copter drones can be adjusted many times per second, making the aircraft easy to control. Drones have also benefited from advances in battery and electric motor technology. Some companies, like Chinese dronemaker EHang, are scaling-up drones so that they can carry people.

Another aircraft under development, Santa Cruz, California-based Joby Aviation's S2, looks more like a conventional plane except that there are 12 tiltrotors spread along the wings and tail. And some, like the Vahana, a cockpit mounted on a sled and flanked by propellers in front and back, don't really look like any aircraft in the skies today.

"In terms of what you can make fly in a reliable manner, the solution speed gateway that (computer) chips have gone through recently have literally opened the door to a whole new world of flying machine possibilities," said Charles Eastlake, an Embry-Riddle Aeronautical University professor emeritus of aerospace engineering.

But he also cautioned: "My best engineering guess is that people actually using autonomous air taxis in the next 10 or 15 years is possible, but definitely not certain. The challenges are big."

# January 31, 2017

	STATION		6 ам	6:30	7 ам	7:30	<b>8</b> AM	8:30	9 ам	9:30	10 ам	10:30	11 ам	11:30	
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5	KOIN	19	KOIN 6 News at 6 a.m. CBS This Morning (N)						Let's Make a Deal		The Price Is Right		Young & Restless		
ñ	(25)KNDU	6	Wake Up Northwest Today Show Marcia Gay Harden (N)						Today Show II (N)		Today Show III (N)		Million?	Million?	
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ñ	(42)KVEW	4	Northwest	Northwest	Good Morn	ing America	(N)		Live! With Kelly (N) The View		Paid	Middle			
AE	KATU	5	KATU News	Morning	Good Morning America (N)			AM Northwest		The View		Live! With Kelly (N)			
ß	(31) KTNW		Stretch	W.L.Yoga	SplashB.	Jet Go!	Nature Cat	Peg + Cat	D.Tiger	Thomas	Sesame St.	DinoTrain	SplashB.	Sit and Fit	
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### **AFTERNOON**

	STATION		12 рм	12:30	1 рм	1:30	2 рм	2:30	3 рм	3:30	4 рм	4:30	5 рм	5:30
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BS	(19) KEPR	2	NameG.	Bold & B.	The Talk (N	)	Let's Make	a Deal	Deal Dr. Phil (N)		Judge Judy	Judge Judy	News	News
5	KOIN	19	News	Bold & B.	The Talk (N	)	The Doctors (N)		Dr. Phil (N)		KOIN 6 News at 4 p.m.		News	News
ñ	(25)KNDU	6	TMZ	Paid	Days of Our	· Lives	Hot Bench Hot Ben		Wendy Williams		Ellen DeGeneres (N)		News	NBC News
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ŝ	<b>31</b> KTNW		Charlie Ros	e	TestK	FestK Art S		C.George	Speaks	WordGirl	Arthur	Odd Squad	Wild Kratts	Business
ä	(59) <b>OPB</b>	13	Art	Jazzy Veg.	Charlie Ros	<b>e</b> (N)	Nature Cat	Bob Build	Cat/ Hat	Jet Go!	Speaks	WordGirl	Odd Squad	Wild Kratts

#### **EVENING**

	STATION		6 рм	6:30	7 рм	7:30	8 PM	8:30	9 PM	9:30	10 рм	10:30	11 рм	11:30
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# By LINDSEY TANNER AP Medical Writer

CHICAGO (AP) — Even in your 70s and beyond, simple activities including web-surfing, playing bridge and socializing can stave off mental decline, new research says.

Benefits were greatest in computer users and in those without a gene variation linked with Alzheimer's disease. But even among seniors with that trait, mental decline that sometimes precedes dementia was less common among those who engaged in mind-stimulating activities.

The results don't apply to costly, computer-based games that purport to keep the brain sharp — those were not studied. The benefits were found from activities that many seniors have access to.

"They don't have to spend their life savings" on fancy gadgets, said Dr. Yonas Geda, the study's senior author and a neurologist at the Mayo Clinic's Scottsdale, Arizona, campus.

The study was published Monday in the journal JAMA Neurology. The researchers noted that the statistical link they found with reduced risk does not prove the activities were responsible.

Still, said Heather Snyder of the Alzheimer's Association, the results support the idea that "being engaged mentally is good for brain health.

The study looked at five types of activities that are thought to help keep the mind sharp: computer use; making crafts; playing games including chess or bridge; going to movies or other types of socializing; and reading books. The idea was to see if these activities could help prevent mild cognitive impairment. That condition involves problems with memory, thinking and attention that don't interfere much with daily life but which increase risks for developing Alzheimer's disease and other types of dementia.

Almost 2,000 adults aged 70 to 93 without any memory problems participated. They lived in Minnesota's Olmsted County, where the Mayo Clinic in Rochester is located. They were asked whether they had engaged in any of the five activities during the previous year and if so, how often. They were tested for the condition in mental exams at the beginning and every 15 months for about four years. During that time, 456 study participants developed the mild impairment.

Analysis found а protective effect from each activity except for reading books. Study participants who engaged in any of the other activities at least once weekly were 20 percent to 30 percent less likely to develop the condition over the four years than those who never did those activities.

and you say "Don't Shout?"										
	J.		SOUND ADVANTAGE HEARING CENTER							
	V		541-567-4063 405 N. 1st St., Suite #107, Hermiston							
Verna Taylor, HAS	Ric Jones, BC-HIS	Forrest Cahill, HAS	541-215-1888 246 SW Dorion, Pendleton							

When they say "It's cold out!"

## **NIGHT OWL**

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