

# Land: Data center planned near Costco

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The initial stage of the data center project is estimated to cost \$200 million. Cox is funded by investors based on milestones reached in the project, including the sale of the property. He will have a 60-day due diligence period before buying the land.

Only 4.4 percent of jobs in the county are related to science and technology, Cox said, and 1.3 percent are related to computers. In subsequent stages, Cox envisions a complex where other technology companies can locate to take advantage of the high-speed internet the data center will require and a partnership with Clatsop Community College to train technology workers.

Cox referenced a report by Google that showed a \$1.8 billion investment in The Dalles related to the company's data centers and more than 1,000 temporary construction jobs.

Data centers have provided new economic vitality to rural communities, but have also driven up housing costs. In Prineville, a town of 9,200 home to several data centers for Facebook and Apple, construction workers have swamped the local housing market. Rents increased by 7.8 percent a year between 2011 and 2016, the second-fastest rate in the U.S. after Bend, according to



Agile Design

**A new data center and technology incubator proposed by Mark Cox would include artificial ponds to help cool computer servers.**

The Oregonian.

Chris Clatterbuck, the chief of resource management at Lewis and Clark National Historical Park, testified Wednesday before the Clatsop County Board of Commissioners as a private citizen. He asked commissioners to consider the aquatic impacts of data centers, which use circulated water to cool servers. He referenced a Wall Street Journal story that showed the average mid-sized data center can take 130 million gallons of water a year to operate, equivalent to 100 acres of almond trees.

"That water's coming out of the Lewis and Clark River, which is essential salmonid habitat, which also doesn't have a stream gauge on it," he said.

Wetlands make up more

than half of the 67 acres Cox hopes to develop. The hope is to build artificial ponds and collect rainfall to provide the water to cool servers, he said. The technology industry is also looking to make renewable energy sources the primary provider of power to such development.

Cox hopes to break ground in 2019. Dirk Rohne, a Port of Astoria commissioner and former county commissioner, has voiced his doubts about Cox's timeline because of federal permitting issues. Fort George Brewery purchased 10 acres south of Cox's site in early 2016 to build a distribution center but has yet to break ground because of wetland mitigation issues.

"That's probably going to add a couple years right out

of the gate, if they're lucky," Rohne said at a Port meeting on Tuesday. "I think it's a long shot, and I hope it works."

The county commission on Wednesday approved a 40-acre conservation easement on Sitka spruce swamp between Second and Ninth streets in Warrenton to offset 4 acres of wetland impacts at Fort George's development and for the construction of S.E. Bugle Avenue to the east.

"Hopefully, if we get the wetlands set-aside resolved, they can still begin construction this year," County Manager Cameron Moore said of Fort George's project.

County commissioners voted unanimously to sell the land in the business park to Cox for the data center.

# Pence outlines plan for Space Force by 2020

Associated Press

WASHINGTON — Faced with growing competition and threats from Russia and China, the White House on Thursday said it will create the U.S. Space Force as a sixth, separate military service by 2020.

Vice President Mike Pence told a Pentagon audience that the plan fulfills President Donald Trump's vow to ensure America's dominance in space — a domain that was once peaceful and uncontested that has now become crowded and adversarial.

"Now the time has come to write the next great chapter in the history of our armed forces, to prepare for the next battlefield where America's best and bravest will be called to deter and defeat a new generation of threats to our people, to our nation," said Pence. "The time has come to establish the United States Space Force."

Trump marked Pence's announcement with a tweet: "Space Force all the way!"

Trump has called for a "separate but equal" space force, a complicated and expensive move that requires congressional approval. On Thursday, Pence said that the administration will work with

Congress on the plan, and will outline a budget next year.

Defense Secretary Jim Mattis has endorsed steps to reorganize the military's space warfighting forces and create a new command, but has previously opposed launching a pricey, new service. A new branch of the military would require layers of bureaucracy, military and civilian leaders, uniforms, equipment and an expansive support structure.

The Pentagon proposal delivered to Congress Thursday lays out plans to consolidate the Pentagon's warfighting space forces and make organizational changes to boost the acquisition and development of leading edge technologies.

The Pentagon's role in space has been under scrutiny because of a recognition that the United States is increasingly reliant on satellites that are difficult to protect in space. Satellites provide communications, navigation, intelligence and other services vital to the military and the economy.

U.S. intelligence agencies reported earlier this year that Russia and China are pursuing "nondestructive and destructive" anti-satellite weapons for use during a future war.

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# TV SCHEDULE

THE DAILY ASTORIAN

Evening listings THURSDAY

THURSDAY EVENING		A - Charter Astoria/ Seaside - L - Charter Long Beach										AUGUST 9	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
2	KATU	(2) KATU News at 6 (N)		Jeopardy!	Wheel of Fortune	The Gong Show (N)		Match Game (N)		Take Two "All About Ava" (N)		KATU News (N)	(3:55) Jimmy Kimmel
4	KOMO	(4) KOMO 4 News (N)		Wheel of Fortune	Jeopardy!	The Gong Show (N)		Match Game (N)		Take Two "All About Ava" (N)		KOMO 4 News (N)	(3:55) Jimmy Kimmel
5	KING	(5) (5:00) KING 5 News			NBC News (N)	America-Talent "Road to Lives" (N)		Trial & Error (N)	Trial & Error (N)	Law & Order: S.V.U. "Service"		KING 5 News (N)	(3:55) Tonight Show
6	KOIN	(6) KOIN Local 6 (N)	Evening News (N)	Extra	Ent. Tonight	Big Bang Theory	Young Sheldon	Big Brother (N)		S.W.A.T. "Contamination"		News (N)	(3:55) Colbert
7	KIRO	(7) KIRO 7 News (N)	Evening News (N)	Ent. Tonight	Big Bang Theory	Young Sheldon	Big Brother (N)			S.W.A.T. "Contamination"		KIRO News (N)	(3:55) Colbert
8	KGW	(8) KGW News at 6:00 p.m. (N)		Tonight Cassidy	Inside Edition	America-Talent "Road to Lives" (N)		Trial & Error (N)	Trial & Error (N)	Law & Order: S.V.U. "Service"		KGW News (N)	(3:55) Tonight Show
9	KRCW	(9) Modern Family	Modern Family	The Goldbergs	The Goldbergs	Supernatural "A Most Holy Man"		Black Lightning		News at 10 (N)	Friends	Two and a Half	Two and a Half
10	KOPB	(10) Travelscope	Business (N)	PBS NewsHour (N)		Oregon Art Beat	Outdoor Idaho	Midsomer M.	(4:5) Midsomer Murders "Shot at Dawn"	(3:55) DCI Banks "A Little Bit of Heart"			
12	KPTV	(12) News (N)	Pre-game	NFL Football Pre-season Seattle Seahawks at Indianapolis Colts Site: Lucas Oil Stadium -- Indianapolis, Ind. (L)						Post-game	News (N)	News (N)	(3:55) MasterChef
13	KPDx	(13) Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	FOX 12's News (N)		9 O'Clock News (N)		Family Guy	American Dad!	The Game	The Game
13	KCPQ	(13) Gameday	Seahawks	NFL Football Pre-season Indianapolis Colts at Seattle Seahawks Site: CenturyLink Field -- Seattle, Wash. (L)						Post-game	Seahawks Gameday		MasterChef
20	TBS	(20) Family Guy	Family Guy	Seinfeld	Seinfeld	Seinfeld	Seinfeld	Big Bang Theory	Big Bang Theory	The Last O.G.	The Joker's Wild	Conan	
22	KZJQ	(22) Friends	Friends	Mom	Modern Family	Mom	Modern Family	Q13 News at 9 (N)		Big Bang Theory	Big Bang Theory	Two and a Half	Two and a Half
29	ESPN	(29) Baseball Little League World Series (L)				SportsCenter (N)		NewsCenter With Scott Van Pelt (N)		SportsCenter (N)		SportsCenter (N)	
30	ESPN2	(30) 30 for 30 "Kings Ransom"		CFL Football Edmonton Eskimos at British Columbia Lions Site: B.C. Place Stadium -- Vancouver, B.C. (L)						Nación ESPN (N)		First Take	
31	NICK	(31) The Loud House	The Loud House	The Loud House	The Loud House	Double Dare	Double Dare	To Be Announced				Friends	(3:55) Friends
32	DISN	(32) StuckM./Raven's	Stuck in Middle	Bunk'd	Bug Juice (N)	Andi Mack	Raven's Home	BigCity/ BigCity	Big City Greens	Bizaardvark	Bug Juice	Andi Mack	Stuck in Middle
34	FAM	(34) *** Oz the Great and Powerful (2013, Adventure)	Mila Kunis, Rachel Weisz, James Franco.	*** Charlie and the Chocolate Factory (2005, Adventure)	Freddie Highmore, David Kelly, Johnny Depp.							The 700 Club	
35	FMC	(35) (5:00) The Internship Vince Vaughn.	(20) ** The Internship (2013, Comedy)	Owen Wilson, Rose Byrne, Vince Vaughn.	(40) FXM Presents					*** Night at the Museum '06 (Com)	Robin Williams, Dick Van Dyke, Ben Stiller.		
36	LIFE	(36) Grey's A. "All I Could Do Was Cry"	Grey's Anatomy	"The Great Pretender"	*** Maid in Manhattan '02	Ralph Fiennes, Tyler Garcia Posey, Jennifer Lopez.	(05) *** Made of Honor '08	Michelle Monaghan, Patrick Dempsey.					
38	ROOT	(38) (5:00) MLB Baseball Seattle Mariners at Houston Astros (L)				Post-game	MLB Baseball Seattle Mariners at Houston Astros Site: Minute Maid Park -- Houston, Texas						Post-game
39	FS1	(39) (5:00) UFC 219				MLB Whiparound (L)		TMZ Sports (N)	Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.				NFL Films
43	SPIKE	(43) Mom	Friends	Friends	Friends	Friends	Friends	Friends Pt. 1 of 2	Friends Pt. 2 of 2	Amer. Woman (N)	*** Bad Teacher (2011, Comedy)	Jason Segel, Cameron Diaz.	
44	COM	(44) The Office	The Office	The Office	The Office	The Office	The Office	The Office	The Office	Detroiters (N)	The Daily Show (N)	The Office	
45	HIST	(45) Pawn Stars	Pawn Stars	Mountain Men	"Time and Tide"	Mountain Men	"Labor Pains"	Mountain Men	"Fight or Flight" (N)	(05) Alone "Starvation's Shadow" (N)	(05) Alone "Starvation's Shadow" (N)	(05) Night. (N)	(3:55) Live PD
46	A&E	(46) The First 48 "Bloodline"		Live PD: Patrol	Live PD: Patrol	Live PD: Patrol	Live PD: Patrol	Live PD: Patrol (N)	Live PD: Patrol (N)	PD Cam (N)	[Respond.		
47	TLC	(47) (5:00) 90 Day Fiancé "And So It Begins"		My 600-lb Life "Tara's Story"		My 600-lb Life "Benji and David's Story"				Dr. Pimple "A Lipoma Jackpot" (N)		My 600-lb Life "Benji and David's Story"	
48	DISC	(48) Naked and Afraid		Naked and Afraid		Naked and Afraid (N)						Naked and Afraid	
49	NGEO	(49) The Nile "Paradise Found"		Wild Turkey		Mystery Mummies of New Guinea		Mummies: Frozen in Time		Ocean "Ghost Ships of the Atlantic"		Mystery Mummies of New Guinea	
50	TNT	(50) Supernatural "Bloodlust"		Supernatural		*** Unknown (2011, Mystery)	Diane Kruger, January Jones, Liam Neeson.			A Walk Among the Tombstones '14	Liam Neeson.		
51	AMC	(51) (3:30) *** The Godfather II '74, Drama	Robert De Niro, Al Pacino.	*** Lethal Weapon (1987, Action)	Danny Glover, Gary Busey, Mel Gibson.					*** Lethal Weapon 2 '89, Act)	Danny Glover, Mel Gibson.		
52	USA	(52) Law & Order: S.V.U. "Parole Violations"	Law&Order: SVU "Devastating Story"	Law & Order: S.V.U. "Imposter"		Queen of the South "El Carro" (N)		Shooter "The Red Badge" (N)		The Sinner "Part II"			
53	FOOD	(53) Beat Bobby Flay	Beat Bobby Flay	Chopped "Truck Stop Stars"		Chopped "Fire It Up!"		FoodTruck "An Oasis in the Desert" (N)		Beat Bobby Flay	Beat Bobby Flay	Beat Bobby Flay	Beat Bobby Flay
54	HGTV	(54) Flip or Flop	Flip or Flop	Flip or Flop	Flip or Flop	Flip or Flop	Flip or Flop	Flip or Flop (N)	Flip or Flop	House Hunters (N)	House Hunters (N)	Risky Builders	House Hunters
56	FX	(56) (5:30) The Shallows '16, Thriller	Oscar Jaenada, Blake Lively.	*** Jurassic World (2015, Adventure)	Bryce Dallas Howard, Vincent D'Onofrio, Chris Pratt.					Snowfall "Jingle Bell Rock" (N)		Snowfall "Jingle Bell Rock"	
57	CNN	(57) Cuomo Prime Time		CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	Anderson Cooper 360				Cuomo Prime Time		CNN Tonight With Don Lemon	
58	FNC	(58) Hannity		The Ingraham Angle		Fox News @ Night		Tucker Carlson Tonight		Hannity		The Ingraham Angle	
61	CNBC	(61) Shark Tank		Leno Garage "Hard Work Pays Off" (N)	Jay Leno's Garage "In Harms Way"			Leno Garage "Original and Unrestored"		Jay Leno Garage "Hard Work Pays Off"		Paid Program	
63	BRV	(63) Below Deck "Mo' Euros, Mo' Problems"		Below Deck "Take This Job and Stew It"	Shahs "A Short Kiss Goodnight"			Shahs of Sunset (N)		Shahs of Sunset		Watch What (N)	Shahs of Sunset
64	TCM	(64) (5:00) The Odd Couple Walter Matthau.	*** The Fortune Cookie '66	Jack Lemmon, Cliff Osmond, Walter Matthau.	(15) *** The Taking of Pelham One, Two, Three '74	Walter Matthau.				*** Harry Potter and the Order of the Phoenix '07	Rupert Grint, Emma Watson, Daniel Radcliffe.	(15) Charley Varrick	Walter Matthau.
65	SYFY	(65) *** Harry Potter and the Goblet of Fire (2005, Adventure)	Emma Watson, Rupert Grint, Daniel Radcliffe.							*** Harry Potter and the Order of the Phoenix '07	Rupert Grint, Emma Watson, Daniel Radcliffe.		
68	RFD	(68) SF Machinery 1/2	Small Town	Rural "Holstein Association USA" (N)	Steve Lantvit	Rural Eve. News	Grown	GA Farm Monitor	SF Machinery 1/2	Small Town		Time Life Library	

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