10X دبي

WEEKLY SPEED READ

Vision: Be 10 years ahead of all other cities

October 1, 2017; Volume 23

10X PREDICTION

In 20 years, people will live and work on Mars and the Moon, and we'll have 10,000 orbital satellites.

Satellites for communicating between Earth and those bases. (Today, we have 1,500 satellites in orbit.)

Source

GOVERNMENT HACKS

Holland
Testing floating mega islands, preparing for rising sea levels

China
First time robot performs dental surgery on human

New Zealand
Trialing electric vehicle priority passing lanes

Japan
Turbines harvest wave energy, protects coastlines from erosion

New Zealand
Recruits digital human for airline customer service team

#Wits University
Connected human brain to the internet for the first time

#Udacity
New online course on building self-driving and flying cars

#Microsoft, Facebook, and Telxius
Subsea cable connecting US, and Spain (resilient connectivity planning)

 # Investor's Exchange
Using design thinking for a fairer (user-ethos) stock exchange

#Vntana and Satisfi Labs
Hologram concierge platform, combining AI and AR

 # AirportSherpa and AtYourGate
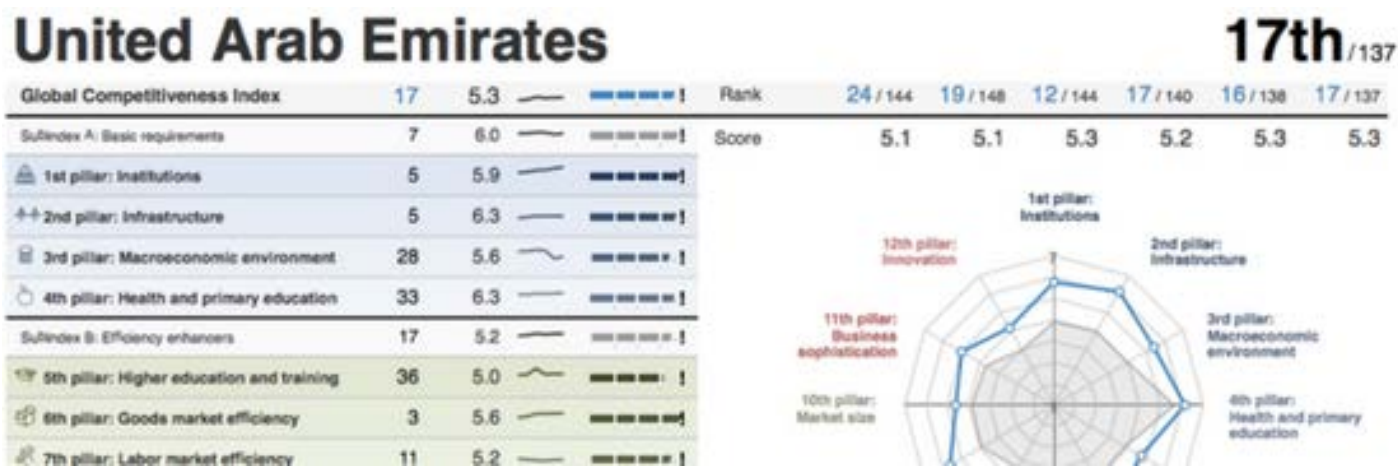Food delivery services moving into airports

#Archiblox
Carbon-positive efficient prefabricated houses

Global Competitiveness Report 2017
#Global Competitiveness #Benchmarking #Education

The latest WEF's Global Competitiveness Index ranks nations by their ability to sustain inclusive growth for citizens and the environment. Switzerland tops the list. Other top 10 include US, Singapore, Netherlands, Germany, Hong Kong, Sweden, UK, Japan, and Finland, with UAE in 17th place.

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Pain point addressed	Benchmarking economic competitiveness to other nations.
Key insights	The UAE improves its absolute assessment and continues to lead the region, weathering lower oil and reduced global trade. Non-oil growth is expected to pick up, suggesting that the diversification strategy is bearing fruit. UAE will have to upgrade education (36th) - tertiary and primary enrolment rates. Adopting innovations (i.e. number of patents and quality of scientific research institutions) is critical to economic progress.

What is Blockchain's Role in the Public Good?

#Transparency #Corruption #Process #Public Trust

A non-profit focused on government transparency, National Democratic Institute, is partnering with Bitfury, a blockchain tech company in a 'Blockchain Trust Accelerator' to pilot blockchain projects that benefit the public good. So far, this has worked in Georgia and the UK.

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Pain point addressed	Increase public trust of their governments.
Key insights	They are investigating ways where the ledger system could be used to ensure that the public trusts their governments. We can build more secure and transparent records, processes, and contracts that are more easily accessible and resistant to corruption, e.g. secure votes, protect property deeds from being adjusted, storing licences in a blockchain ledger. These would be a natural next step for Dubai's blockchain government goal.

Sustainable Development Impact Summit: Multi-Sector Partnerships

Over 700 leaders came together on the ambitions of the UN SDG and Paris Climate Agreement. The Summit showed how public and private actors can cooperate, applying creative tech solutions to benefit all. Over 25 global initiatives and alliances were formed for sustainable development impact.

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Pain point addressed	How can we work towards global prosperity together?
Key insights	Highlights: 1) Global Battery Alliance to clean up global battery supply chains. 2) Fourth Industrial Revolution for the Earth, to fund and scale new ventures and tech for the environment. 3) Disaster Risk Innovation Fund for mobile tech to help people in humanitarian emergencies. There are investors who know there will be returns on sustainability, but data is currently scattered and hard to find.

How a Video Game Might Help Us Build Better Cities
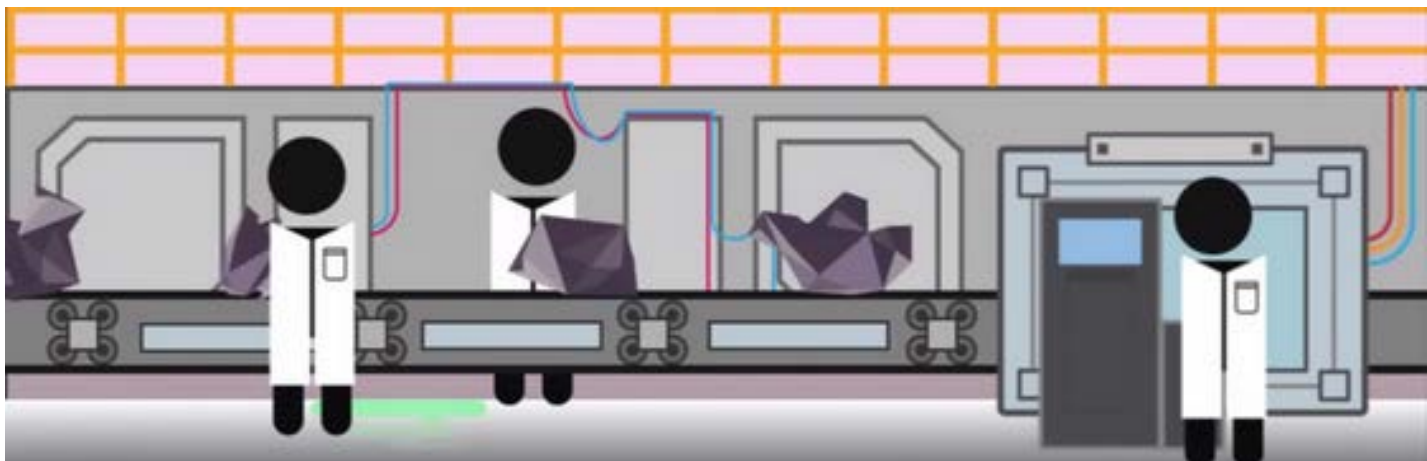
#Urban Planning #Prototyping #Innovation

Part game, part urban planning sketching tool, tools such as SimCity and Cities: Skylines encourages people to rethink the cities of tomorrow. Karoliina Korppoo shows us how governments can use this tool to further civic engagement. 3.5 million people have played the game, creating and sharing cities.

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Pain point addressed	Citizen-engaging prototyping tools to dream of the city of tomorrow.
Key insights	Some urban planners are using gaming tools - if something works in the game, it may work in the real world. E.g. A Finnish city has held a contest about a new area in the city they wanted to develop. They made a map of the city with the new area blank . Anyone can download it, play the game, build the area, and submit their creations to the city council. **How about encouraging UAE grant-scheme students a chance to build part of the city?**

Asteroids Need to Be Mapped to Mine

#Economic Growth #Space #Natural Resources

Resources that could be used on space missions and Earth could potentially be mined from asteroids. A new paper details best practices for mining asteroids - a result of the ASIME conference, convening the best minds working in space. The main reason to mine asteroids is that they contain all the materials we need to live.

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Pain point addressed	Nurturing new industries for large economic growth.
Key insights	A key economic development priority is to map known near-Earth asteroids so that miners have a better idea of the location of their targets - and better access to relatively large telescopes is necessary. It is thought that billions, or trillions of dollars worth of metals like platinum, nickel, and gold are in asteroids. **With UAE's new Martian City in the desert, space mining would be an excellent related industry.**

The Future of Transportation May Be About Sharing Batteries, Not Cars

Energy From Evaporated Water Could Rival Wind and Solar (Enormous Electricity)

How 73 Cities are Using Innovative Climate Action to 'Future-Proof' Themselves

Impact Investors and a Capital Ecosystem for the Creative Sector

Researchers Show How AI is the End of Passwords

How Microsoft CEO Disrupted the Existing Culture of Senior Managers

At a corporate retreat for only the most senior managers, Microsoft CEO Satya Nadella wanted to refresh the existing culture of poking holes into each other's ideas.

Here's what he did:
- Invited young, innovative new hires (pushing managers to be better).
- Made senior managers schedule onsite customer visits.
- Assigned seating at dinner with remixed groups (describing their day).

These strategies forced senior managers to get out of their usual circles, and think with fresh perspectives.

Reference: Quartz

New team solely focused on space industries: A new entity or sub-entity focused solely on for-profit space enterprises (e.g. mining, supply chains). Also, sponsor the next space mining conference to be held in Dubai.

Residents help build the city, with video gaming: Create contests for residents in building parts of the city, using urban sketching video gaming tools, such as SimCity and Cities: Skylines.

Create courses for building self-driving and flying cars: Partner with Udacity and local universities to provide students with courses on the latest tech - how to build and repair self-driving, flying, and electric cars.

Floating mega islands: Create simulating floating mega island that would prepare for rising sea levels.

LATERAL THINKIN'

helps build the innovative mindset

A girl was born in the summer, but now her birthday is in the winter. How could this happen?
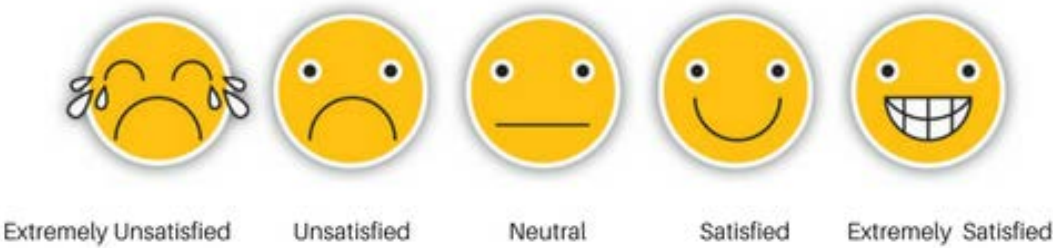
Source   Solution

ABOUT this *WEEKLY SPEED READ*

- This Weekly Speed Read is to inspire and inform Dubai's 10X teams on latest disruptive developments and enablers from around the world

How satisfied are you with this newsletter?

Extremely Unsatisfied   Unsatisfied   Neutral   Satisfied   Extremely Satisfied

- **Contact:** For any questions or feedback on this newsletter please email: Dr. Sayd Farook