

ببی 10X

WEEKLY SPEED READ

**Vision: Be 10 years
ahead of all other
cities**

August 20, 2017; Volume 19

10X PREDICTION

Airlines and airports are likely to look wildly different in 10 years.

Supersonic, electric, Uber-elevate, vertical takeoff, Hyperloop, on-demand, and self-piloted aircraft

Source

GOVERNMENT HACKS



China

Will experiment with using blockchain to collect taxes



Japan

Self-driving wheelchairs tested in Tokyo's airport



Russia

Hack with ships may suggest first use of cyber warfare capabilities



Kansas

Commercial and recreational drone operators to share data for safe airspace



UK

Will require electric chargers at all major fuel stations



China

Builds one of the world's largest geoengineering research programs

DISRUPTIVE COMPANIES #TAGGED



#IBM

AI makes treatment plan for cancer in 10 minutes (takes doctors 160 hours)



#LUT University

Developed method to produce food using electricity and air



#Andrew Ng

Training a million AI experts



#Whatsapp

To introduce payments feature



#Inspire

Flat-rate energy bill (renewable energy)



#Google

AI journalist produces 30,000 news/month



#Neurable

First brain-controlled VR game



#Open AI (Elon Musk)

AI beat world's best e-sport players



#University of Nevada

Hotel rooms that can be transported by Hyperloop

DISRUPTION TRIGGERS

The Digital Future of Work: Policy Implications of Automation (Video)

#Workforce #Automation #Policy #Education



McKinsey shares their thinking on how to help people move from one sector to another, one occupation to another, or one skillset to another, as jobs dramatically change. Imagine fewer jobs and all tasks, e.g. in one day a person drives a ride-share service, walks dogs, and works on a project, finding all of these tasks on a mega data platform.

[>> Read More](#)

Pain point addressed

Innovative policies to tackle disruptive job changes.

Key insights

With this nature of work, how will a person afford a house, or school for his child? We will need portable benefits, a different type of safety net with a tremendous infusion of education and retraining (e.g. to understand the output of an analytical algorithm rather than do the calculations), and new type of education businesses. **Will Dubai need to invest in a sophisticated mega-task work platform to facilitate this change?**

Four Takeaways From The 2017 Resilient Cities Summit

#Resilience #Climate Change #Big Data #Public-Private



The 2017 Resilient Cities Summit in Vermont, USA, included sessions on identifying funding sources, prioritizing equity in resilience planning, and motivating support for resilience investment. Here are four key takeaways from the summit:

[>> Read More](#)

Pain point addressed

Potential disastrous climate change effects to the region.

Key insights

1) Have an outlook for the next 20, 30, or even 50 years. 2) Finance resilience with new, innovative funding sources. 3) Low-income communities most vulnerable to extreme weather. Gathering reliable data, e.g. GIS mapping. 4) Collaborate with banks, utilities, insurers, business leaders, community groups, and cities nearby (regional approach).

How will Dubai manage increasingly world-breaking hot temperatures over the next 20 years?

Could We Use Space to Pay for a Universal Basic Income?

#Social Protections #Tourism #Manufacturing #Space



Universal basic income (UBI), where every citizen receives money, has clear benefits, but how do governments pay for it? While some propose taxing robots or polluters or cut spending, others, according to the Boston Globe and Futurism.com, say we should use the booming space trade to pay for UBI.

[>> Read More](#)

Pain point addressed

A Universal Basic Income can be very expensive for governments.

Key insights

Just US\$10,000 per person per year would cost up to \$3 trillion for 300 million people. What if we use the space economy. Space tourism is set to explode and it won't be long before it is commercial. Companies will charge for the luxury of zero-gravity and staying in space hotels. Space mining (e.g. asteroids) also has the potential to be a big industry. Why not tax these companies? An **Emirati high school student** is already examining DNA to keep astronauts healthy during long missions to space and Mars.

Ways to Fill Cyber Workforce Gaps in a Generation

#Cybersecurity #Workforce #Education



The global cybersecurity workforce shortage is projected to reach 1.8 million by 2022. Governments are often much less secure because salaries in the private sector lure many away, according to USA's National Institute of Standards and Technology. How do we close the gap in cyber defenders?

[>> Read More](#)

Pain point addressed

Not enough government cyber security employees.

Key insights

Highlights: 1) Work experience/ aptitude over certifications. 2) Vocational colleges to offer a cybersecurity curriculum. 3) Forgive loans. 4) Retrain military workers. 5) Give private sector employees short-term tours in government. 6) Measure adequately, e.g. with increased internet-connected devices. **Can Dubai initiate programs to help people move mid-career to cybersecurity?**

How AI Could Create a World of Haves and Have Nots

#Inequality #Workforce #Economy #Policy #Economy



Will AI create a world of haves and have-nots? Blue collar automation is not likely to cause major policy changes, but these workers will have few alternatives to pivot towards. Ed Sappin of Sappin Global Strategies, takes a look at what this means for the 10, 10-20, and 20 + years.

[>> Read More](#)

Pain point addressed

Preventing extreme rise of income inequality.

Key insights

We need 'soft-landing' programs for blue-collar workers, and we will see major societal changes after white-collar jobs are automated by late 2020s. But it's the haves who work for companies that control the best AI (or are in countries like USA and China). One option, besides UBI and taxing, is to make AI modules available to all so that citizens can create small businesses that leverage the growth of AI. This requires strong governmental intervention but could avoid taxing.

MORE DISRUPTIVE TRIGGERS...



These 5 Countries Are Killing It in the Battle Against Climate Change



Humanitarian Innovation Labs Around the World (Interactive Map)



U.S. Army Discovers New Large Energy Source, With Nanomaterials



The Human Gene Editing Era is Here - Next Steps are Critical



US Wants Robots Watching Twitter, to Thwart Attacks



[TEDx] The New Normal in the Water Sector: Water Reuse (Regulation)

Are Legacy Talent Hiring Approaches Blocking Your Innovation Efforts?

Difficulty finding the right people to drive innovation efforts was found to be the number one constraint to innovation success. Selecting talent for innovation requires a whole new approach and innovation skills.



8 innovation skills that correlate with real world innovation business results:

- **Drive:** ambition, persistence, initiative
- **Disrupt:** boundary breaking, thriving in uncertainty
- **Create:** problem-solving, uncommon connections
- **Connect:** team-building, social intelligence
- **Control:** competitiveness, financial orientation
- **Think:** rapid pattern recognition, reflection
- **Deliver:** resourcefulness, goal-orientation, adaptability
- **Give:** benefiting others, making the world better

Reference: [Innovation Management](#)

X-LAB MOONSHOT IDEA BANK



Blockchain for VAT: Experiment by using blockchain to collect VAT.



Cancer treatment plans in 10 minutes: Use AI e.g. IBM Watson to help doctors create cancer treatment plans in 10 minutes, rather than 160 hours.



Train 100,000 people to become AI experts: AI will create the haves and have nots. Create a custom program for 100,000 students or mid-career professionals to become AI experts.



Electric rockets: Going beyond electric cars, or planes. Invest in building electric rockets to enter the space tourism frontier (for new and massive economic growth).

The spacecraft, Seeker 2, crashed into a hostile planet. The whole surface was solid rock. Where did they bury the survivors?

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](#)