

# 10X دبي

**WEEKLY SPEED  
READ**

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

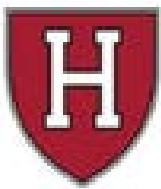
**Jul 23, 2017; Volume 16**

# 10X PREDICTION

Almost all cars produced in  
10 years will be autonomous.

Source: Futurism

## DISRUPTIVE COMPANIES #TAGGED



### #Harvard University

First ever movie stored in DNA



### #MIT University

Researchers engineer bionic spinach to detect bombs



### #Icelandair

Flight attendants go to stage school to perform in-flight theatre



### #Wall Street

Predicts bitcoin will reach \$55,000 in 5 years



### #NASA

Studying fungus to take to Mars



### #Moley Robotics

World's first fully robotic kitchen

# GOVERNMENT HACKS



## Poland

Volunteer 'astronauts' to simulate a Mars colony for 2 weeks



## China

AI could take over half of its doctors' workload



## Mauritius

Blockchain tech hub extends to Asia and Africa



## Luxembourg

First European country to pass space mining law



## China

World's first quantum communication network (for defense, finance)



## Portugal

World's first hydroelectric-solar power plant



## USA

First approved gene-altering treatment for leukemia

## Governments Need to Regulate AI before They Start Killing

#Regulation #Security #Tech



Elon Musk told the US National Governors Association this week that AI poses an "existential threat" to human civilization, and calls for precautionary, proactive, government regulation before "it's too late" and AI kills people, because the risks are too high.

>> [Read More](#)

Pain point addressed

When to regulate AI - or not.

Key insights

Musk is asking for the same level of oversight on aircraft, cars, and drugs. Some governors expressed skepticism about regulating a technology that's still in development but Musk says the first step would be for governments to gain insight into the actual current research. (Ray Kurzweil has another strategy and says AI is a reflection of societal values so if we make sure we have good values, an AI won't 'end up as a jerk.')

# Robotic Landers Could Start Mining the Moon as Early as 2020

#Space #Manufacturing #Economic Growth



Moon Express, a Google Lunar XPRIZE winner and raised over \$45million, plans to mine moon rocks and return them to the Earth by 2020, with their first expedition this year. This article discusses regulatory frameworks towards private mining.

**>> Read More**

Pain point addressed

Searching for new economic development sources.

Key insights

Who owns the moon? Because the laws about resources in space are vague, a profit-driven mission could cause international controversy. Most other nations don't have clear laws. Luxembourg just passed a space mining law (with R&D) to support long-term economic development, ensuring that private operators can be confident about their rights on resources they extract from space. Especially with the Emirates Mars Mission in 2021, could Dubai consider this potential economic development?

# How Can Creative Industries Benefit from Blockchain

#Arts #Tech #Business Model #Payments



As YouTube and Spotify increase, artists complain that they receive smaller cuts of revenue and have less say over how their creative works are priced, shared or advertised. Ryo Takahashi, from World Economic Forum, says blockchain can be the answer.

**>> Read More**

Pain point addressed

An ecosystem that supports artists.

Key insights

With Dubai's leading blockchain tech vision and d3 developments, blockchain can hold enormous potential to create more efficiency, greater accountability, lower costs and increased remuneration for artists. Examples include: 1) Smart contracts helping artists manage digital rights and revenue shares. 2) Transparent P2P transactions. 3) Efficient, dynamic pricing according to demand (so it's not mispriced). 4) Allowing snippets of songs, using blockchain. 5) Preventing from gaming the system.

# It Will Take Human-Machine Teams to Fight Cybercrimes

#Security #HR #Strategy #Tech



Machine learning can help governments quash cybersecurity threats, but it can't do it without the help of humans. That's the crux of a new report by security giant McAfee, saying that agencies need to re-think how humans and machines work together.

**>> Read More**

Pain point addressed

Addressing ever pervasive cyber-attacks/ cyber-crimes.

Key insights

An idea model is using AI to hand threat reports off to humans, who then work on a response plan (by investigating threat types, impact, motivation). That requires governments to hire more skilled IT talent instead of automating cybersecurity entirely. With many officials pointing to widespread cybersecurity personnel shortage, they will need to work through procurement processes and cycles at speed.

# Climate Change Will Change Business and the Workforce

#Climate Change #Business Model #HR #Health



When we think of climate change, we think of rising sea levels, temperatures, and melting glaciers. But experts say that may be only the tip of the iceberg. In this article, we focus on the shocking effects on industries, including finance, insurance, retail, and health, and its impact of the skills of the future workforce.

**>> Read More**

Pain point addressed



College graduates are not fully prepared for work.

Key insights



There is another consequence of climate change: what it means to your career. Everyone is going to need to understand climate change the same way we had to understand computers 20 years ago. Our workers haven't been trained to deal with climate change in their jobs, (e.g. preparing for larger rainfalls; by 2100, Abu Dhabi being hotter than any city on Earth today) but companies are realizing workers need training.



# MORE DISRUPTIVE TRIGGERS...



**Wearable Tech – What’s Coming Next for Clothing & Health (Infographic)**



**Climate Change’s Revenge on the Aviation Industry**



**How ‘Poshtels’ Are Reinventing the Budget Accommodation Sector**



**How Concrete Can Act as a Sponge for Air Pollution**



**Smart Fridge: How Food is Changing as Fast as our iPhones**

## Genius Problem-Solving Method Elon Musk Learned from Aristotle

True innovation only occurs when we don't constrain ourselves with others' present-reality thinking. Erase what is assumed, and ask questions based on your desire for what is possible.



1. Identify the problem you want to solve.
2. Make a list of all of the reasons you think you can't solve this problem.
3. Make a list of any and all obvious solutions that you think would solve the problem, but that don't solve the problem adequately.
4. Ask yourself: "If the problem didn't exist and I could create a solution that was based on a desire, what would that solution be?"



## **Goal for hiring cybersecurity**

**professionals:** To keep up with the volume of cyber crimes, government can create a goal of how many cybersecurity professionals needed to hire in order to build human-machine teams.



## **Blockchain developments for artists:**

Strengthen the supporting ecosystem for artists by leveraging and developing blockchain tech applications.



## **Climate change training for workforce:**

Support the efforts of training workforces across industries about how climate change will affect their jobs, e.g., new building codes, or preparing for rising sea levels.



**Gene-altering treatments:** Become an early adopter of gene-altering treatments to chronic diseases, e.g. leukemia.

## 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](mailto:Dr. Sayd Farook)

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