

# 10X دبي

## WEEKLY SPEED READ

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

**Sep 24, 2017; Volume 22**

# 10X PREDICTION

**A 1-in-20 chance climate change will cause a complete societal collapse (5°C).**

The money is there to limit global warming to below 2°C, but USD \$1 trillion/year is needed.

Source 1, 2

## GOVERNMENT HACKS



### **Germany**

Plans for world's largest EV charging station



### **Russia**

Proposed 13,500km railway connecting London to Russia and Tokyo



### **China**

Signed a \$300 million lab-grown meat deal



### **Finland**

Using blockchain to help refugees pay bills and lend money



### **China**

To build nearly 300 eco-cities



### **Pakistan**

Discovers fungus that eats plastic

# DISRUPTIVE COMPANIES #TAGGED



## #Google

App for India sends money using sound



## #Nordstrom

Stores with no inventory, immersive experience instead (manicures, coffee)



## #California Institute of Technology

Fast, low-cost medical tech to replace ultrasounds and X-rays



## #University of Waterloo

AI can detect texting while driving



## # Zoological Society of London

IoT tackles global animal poaching



## #Harper Adams University

Robots planted, tended, and harvested an entire crop of barley



## #Northeastern University in Boston

End-of-life chatbot helping with difficult final planning

## Re-Imagining Public Sector Labs

#Labs #Policy #Process # Innovation #Bureaucracy



Ahead of the UNDP-Nesta conference, Nesta takes a look at current lab practice, identifies needs and suggests actions to reimagine public sector labs. A recent survey suggests labs are increasingly struggling to deliver in transforming government operations or tackling big picture challenges.

### >> Read More

Pain point addressed

How do we re-imagine labs to mandate change in how governments operate?

Key insights

Potential solutions: 1) Better understand the power dynamics for key policy issues. 2) Redefine what evidence actually leads to policy change. 3) Widen the lab scope to consider methods and structures needed to change systems. 4) Form meaningful alliances to build more political capital. 4) Collaborate better with mainstream bureaucrats. 5) Move beyond single institutions for addressing one challenge to movements solving complex issues together.

# How Are Countries Regulating Cryptocurrency?

#Finance #Regulation #Currency #Trade



Joshua Klayman, who heads the Blockchain + Smart Contracts Group, points out that governments are enacting new regulatory policies in response to the growing popularity of cryptocurrencies and ICOs. In the long run, he thinks two different styles of regulating will emerge.

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Pain point addressed

Should we regulate cryptocurrencies or embrace them?

Key insights

1) Countries with a huge capital market presence will be more in compliance with US guidance, and they tend to say that investing in ICOs can be risky (some come out with strong warnings (China) or classify some as securities, seeking to regulate them (Malaysia)). 2) Others, smaller jurisdictions, will want to be a destination for cryptocurrency trade, and will be less regulated, because they have different incentives. **As UAE's currency is pegged, what will be the desired future of currency for Dubai?**

# 1 of These 4 Ideas Will Win \$100 million From MacArthur Foundation

#Innovation #Social Challenges #Social Protections



In June 2016, the MacArthur Foundation launched an XPRIZE for philanthropy called 100&Change, promising USD \$100,000 million to the best solution in improving humanity. They even let contestants define the world's most vexing problems. Here are there 4 finalists' big ideas:

**>> Read More**

Pain point addressed

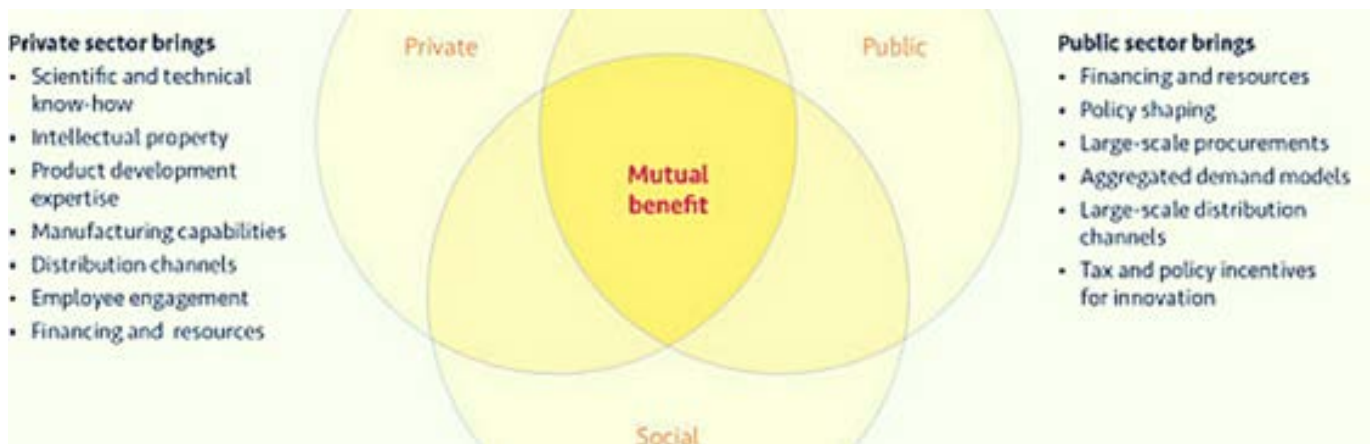
Inspiration for innovative solutions to most vexing problems.

Key insights

1) Remake orphanages to operate as a family-centric style of care. 2) Boost farmer incomes by enabling them to grow bio-fortified crops in Africa, reaching 100 million people. 3) Neonatal care tech that's adaptable to low-resource settings, saving a half million newborns annually. 4) Use Sesame Street to promote learning among refugee children, reducing toxic post-war stress. Could Dubai create similar prizes to discover local innovative ideas?

# The Right Models for Public-Private-Social Partnership Success

#Public-Private Partnerships #Business Models



Stanford Social Innovation believes that success of public-private-social partnerships ultimately depends on whether organizations can draw on a wide portfolio of collaborative models to work together in different combinations through different types of relationships and engagements that shift to fit specific goals.

**>> Read More**

Pain point addressed

How can we partner best to turn great ideas into affordable solutions, in short timeframes?

Key insights

Less than 10% of 1400 public-private partnerships in the US lasted 5 years. The key is to move beyond applying a single model to a specific project and move towards a portfolio approach: using the right tools at different phases of the product lifecycle and responding to different risks per project. Each partner must gain executive support, invest time to work across multiple divisions, & designate a relationship manager.

# The Future Is About Empathy, Not Coding

#Education #Workforce #Job Reforms



With the advancement of tech and fear of automated jobs, some are trying their luck with coding, thinking we will need more IT. Dr. Bertalan Mesko, PhD in Genomics, believes that professionals should rather master soft skills if they truly want to prepare for the upcoming decades.

>> [Read More](#)

Pain point addressed

Guiding citizens to acquire important future job skills.

Key insights

Social skills - creativity, empathy, compassion, paying attention to each other - coupled with sound digital literacy might be more important than coding. E.g. In healthcare, could robots effectively talk to patients with empathy about the risks of an operation? While schools have incorporated coding, the author suggests students focus on more voluntary work in helping the elderly or groups in need. **How can social skills be further embedded in the New Emirati School Model announced?**



# MORE DISRUPTIVE TRIGGERS...



**Could We Store Carbon Dioxide As Liquid Under the Sea?**



**How Your Digital DNA Could Help You Make Better Health Choices [VIDEO]**



**Starting a Robotics Company? Sell a Service, Not a Robot**



**Focusing on Happiness Can Make You Unhappy - 4 Solutions [VIDEO]**



**A Spiraling Future Where a Few Tech Companies Control Our Lives**

## Winning Smart Services Will Fulfil Residents' Emotional Needs Instead

When thinking about designing government services, the key is to design experiences around residents' emotional value rather than rational value.

**Rational value:** Measurable and quantifiable: steps taken, calories burned, or tasks completed.

*X Smart scale:* "Looks like you've gained a few pounds. Let's get you back on track!"

*X Smart coffee mug:* Tracks nutrition and hydration, based on what and how much I drink.

**Emotional value:** Less literal; it's more subtle, more complex, and often less immediate. It's how an experience makes us feel about ourselves or our relationships with others.

✓ *Smart coffee mug:*

The mug learns from my phone's location data that I tend to forget it and backtrack for it, and sends me subtle or funny reminders. As we develop a relationship, it learns how to nudge me to stay hydrated without getting on my nerves.

Reference: [Nextgov](#)



**Portfolio approach to multi-sector partnerships:** Seek long-term success for public-private-social partnerships by using a flexible portfolio approach: the right engagement model, tools, alliances, and risk profile for each project.



**Drastically reduce plastic in landfills and oceans:** Partner with researchers in Pakistan to reduce plastic in landfills and in oceans, with a new 'plastic-eating' fungus.



**Fast, low-cost medical diagnostics:** Invest in bringing more fast, low-cost medical diagnostics to hospitals, e.g. detecting cancer in minutes; replacing ultrasounds and X-rays in some cases.



**World's Leading Compassion with Technology University Program:** Given the cited research on importance of future soft-skills (compassion, empathy and creativity), establish the world's leading research and education university program.

**LATERAL THINKIN'**  
helps build the innovative mindset

You have two hourglasses: one measures exactly 4 minutes and one measures exactly 7 minutes. They don't have any markings indicating individual minutes or fractions of minutes (just 4 and 7). You wish to measure exactly 9 minutes. Both hourglasses have been standing upright for a long time. How would you use these two hourglasses to measure 9 minutes?



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