

10X دبي

WEEKLY SPEED READ

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

August 13, 2017; Volume 18

10X PREDICTION

**85% of jobs that will exist in 2030
haven't been invented yet.**

Get ready for a globalized workforce and lifetime of retraining.

Source

GOVERNMENT HACKS



Australia

2000km highway for electric vehicles & charging points



France

Becomes no.1 for soft power



USA

World's' first weapon to take out drones, ships, potentially missiles



China

World's biggest recognition system rolling out



South Korea

Robot assistants answer queries/guide people to their gate



Alberta

Emerged as a role model for smart city water reuse

DISRUPTIVE COMPANIES #TAGGED



#Masayoshi Son

\$100bil to build computer chip with an IQ of 10,000



#BioFabUSA

Organ-building institute for 21st century biomanufacturing



#Google

20mil mosquitoes released to stop diseases (Zika)



#Imaginuity

Lets cities add citizen queries/info to Alexa



#Meta 2 AR Headset

This cool AR office is coming soon.



#BioHax International

Microchip implants for employees to get around the facility



#Oregon Health and Science University

First human embryos edited to improve DNA



#Tesla

To triple the no. of electric superchargers worldwide

Why Don't Gov'ts and Businesses Promote LifeLong Learning More?

#Education #Workforce #HR #Public Budget Allocation



The recent publication, "WEF: Accelerating Workforce Reskilling for the Fourth Industrial Revolution" highlights the importance of learning at a time when AI/robotics threatens white and blue collar jobs. Countries could easily provide more training opportunities for adults, but they need to be pushed.

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Pain point addressed

Adults need retraining to keep up with an automated workforce.

Key insights

Dubai's workforce needs qualitative change. Gov'ts supporting life-long learning helps overcome inequality and old-age dependency, and improves well-being. Solution? 1) Early participation in adult learning 2) Budget allocation in the education budget. 3) Better data on adult achievement. 4) Moving away from the model of all investment is in early years learning towards a life-long learning model. Singapore's Skills Future Initiative provides a powerful example.

Using Minecraft to Engage the Public and Plan Better Public Spaces

#Public Spaces #Citizen Engagement #Participatory Model



Trupti Vaitla, CEO of Mumbai Environmental Social Network, used a UN Minecraft participatory design tool after struggling through a first attempt at revitalizing an open space where nearly a million of Mumbai's poorest and resettlers reside. Dwellers were asked to design their dream gardens and playgrounds.

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Pain point addressed

Struggling to involve residents in revitalizing open spaces.

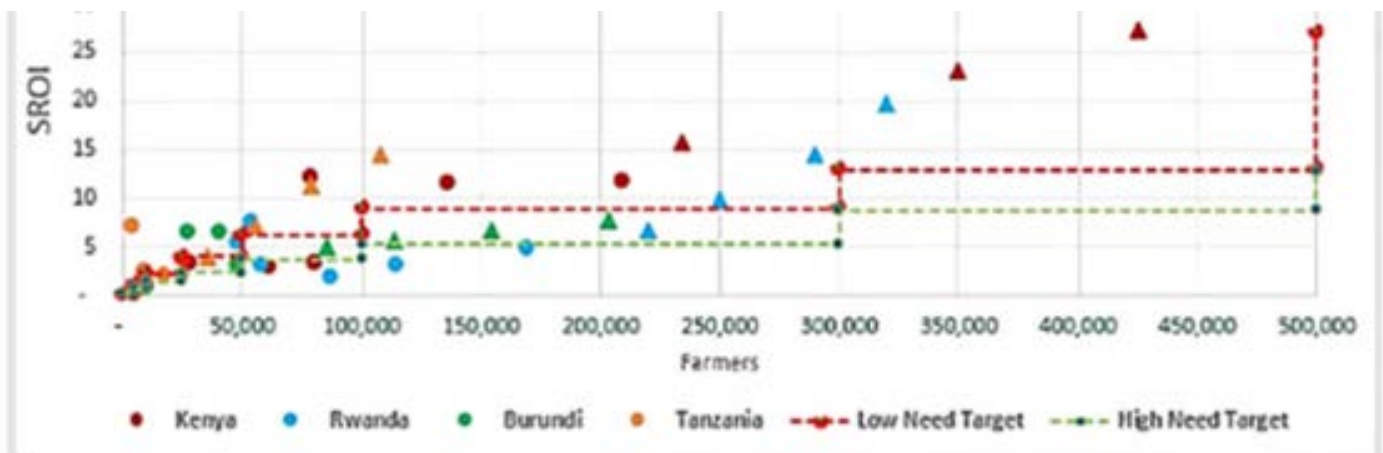
Key insights

Residents couldn't visualize what they wanted and their ideas were limited but they didn't want to draft ideas for them. Minecraft became a powerful as an urban planning tool because it was engaging, especially for young people, and trees, benches, and other features can easily be designed.

Traditionally hard-to-engage groups, such as women, began to share what they wanted for parks and playgrounds.

Social Institutions Can Drive Healthy Growth Using an SROI Index

#Social Innovation #Process Innovation #Government Metrics



Determining how to allocate resources is a monumental challenge, especially because data-driven decision-making remains elusive for many NGOs. One Acre Fund has created social return on investment (SROI). - a powerful tool for org leaders to make tough resource allocation decisions.

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Pain point addressed

Measuring the effectiveness of social institutions.

Key insights

SROI is the total impact generated divided by the net cost required to create that impact (e.g. \$4 profit from farmers for every \$1 on program spend). There are two other factors: 1) A 'healthy growth path' to compare programs that are at different maturity and scale levels fairly, and 2) 'Needs adjustment' (e.g. supporting poorer farmers is more impactful than other farmers.) With the UAE in the top 10 in the world for community innovation, could we use SROI to measure and support social institutions?

We're Thinking about Cybersecurity All Wrong

#Security #Tech #Business Model



Obama's former cyber advisor and current president of the Cyber Threat Alliance - a nonprofit team of cybersecurity companies building a platform for sharing information about common threats - Michael Daniel, gives us his thoughts on overhauling the way we manage the new "tool for statecraft."

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Pain point addressed

Being more effective at fighting organized cybercrime.

Key insights

1) We need to have shared pools of data and compete on "I can do better things with my data" instead. 2) Shared data can disrupt the bad guys across their entire business process. So, how can we innovate policy to enable this private/public sector collaboration - and have them optionally 'opt-out' instead? Cybersecurity goes across borders - can we borrow from other models, e.g. natural disaster response model?

How Think Tanks and Universities Can Collaborate More

#Education Ecosystem #Innovation #Policy



Collaboration between think tanks and universities can lead to stronger research outputs, enhanced credibility, and better decision-making. But, hurdles such as unreliable funding and informal collaboration present challenges. Think Tank Initiative shares its solutions in this series, after studies in Africa, S. Asia, and L.America.

>> Read More

Pain point addressed



Strong collaboration needed to solving complex societal problems.

Key insights



Key takeaways for collaboration: 1) Clearly defined roles. 2) Agreed-upon agenda. 3) Flexible, core, long-term funding, allowing for collaboration on complex societal problems, e.g. legislation requires companies to invest 2% of profits to social responsibility. 4) Research agenda not determined by donors. 5) Hire employees just for this collaboration so it doesn't burden current staff. Which think tank-university collaborations can strengthen Dubai entities, e.g. new DEWA R&D facilities?

MORE DISRUPTIVE TRIGGERS...



The 5 Most Innovative Renewable Energy Sources (Algae Included)



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



Simulator Helps Cities Test Future of On-Demand Transit



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



US Wants Robots Watching Twitter, to Thwart Attacks



Why is France So Interested in Switzerland's Direct Democracy Model?

Service Journey and Prototyping Mapping Cheat Sheet

Once you have a potential solution (prototype), use the User Journey Cheat Sheet and Prototype Cheat Sheet to help you walk through testing your solution.



Service Journey:

What will people be doing? Where? Who with?
What resources will they need and who will provide them? What happens if there is a problem?

Prototype Journey:

What are you testing? Who are you testing it with?
Why are you testing it? How will you know it is successful?

Reference: [Nesta](#)



National lifelong learning initiative: To curb an increasingly automated workforce, launch a long-term campaign, with an official education budget allocation, to provide reskilling opportunities for adult workers. Consider private sector collaboration, e.g. 1% of corporate profits goes to reskilling employees.



Minecraft as a citizens' participatory tool: Use UN's Minecraft initiative to engage residents and/or cocreate public open spaces. Minecraft provides an easy, and engaging way, especially for young people, to dream and build gardens, parks, buildings etc.



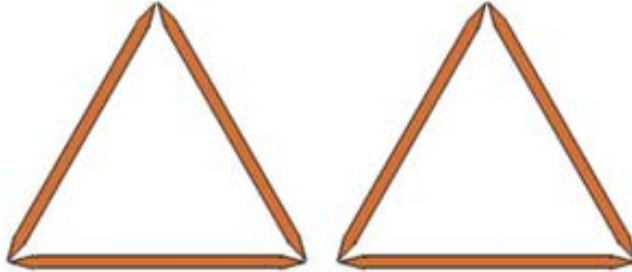
New cybersecurity model: Make an alliance with other cities or countries to share cyber security data, along with official collaborations with the private sector. This will enable better results in disrupting the entire business operations.



SROI metric for social institutions: Encouraging social institutions to use a Social Return on Investment Index to help them measure their bottom line, invest in budget allocation, and make informed decisions across multiple programs.

LATERAL THINKIN'
helps build the innovative mindset

Here are two identical triangles made from six toothpicks. Rearrange the six toothpicks so that they form four triangles the same size and shape as the two pictured.



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