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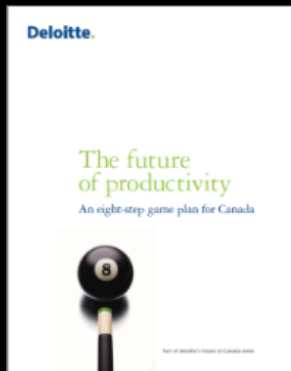
Navigating the Age of Disruption

TERRY STUART Partner, Chief Innovation Officer, Deloitte Canada



Our *Future of Canada Series* explores 5 Key Aspects of Productivity & Innovation

1
Risk Aversion
June 2011



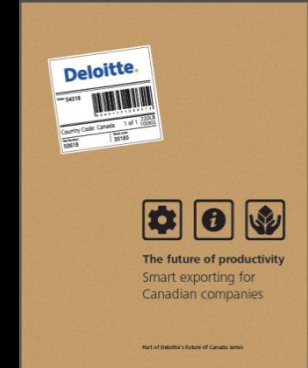
2
Growth
October 2012



3
Investment
June 2013



4
Exports
May 2014



5
Disruption
June 2015



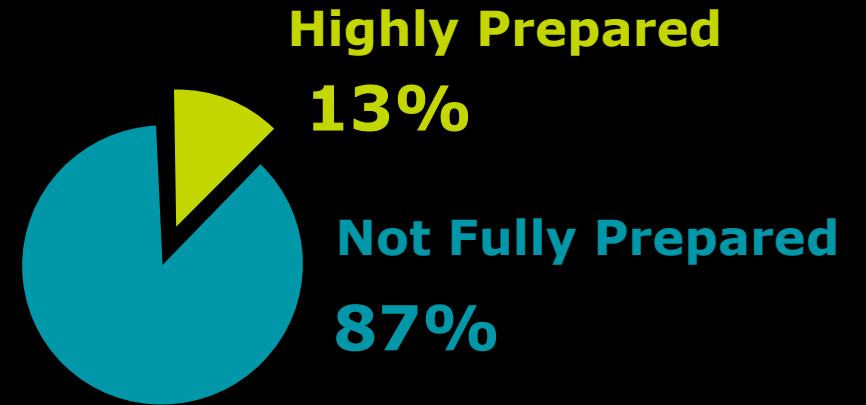
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Age of disruption

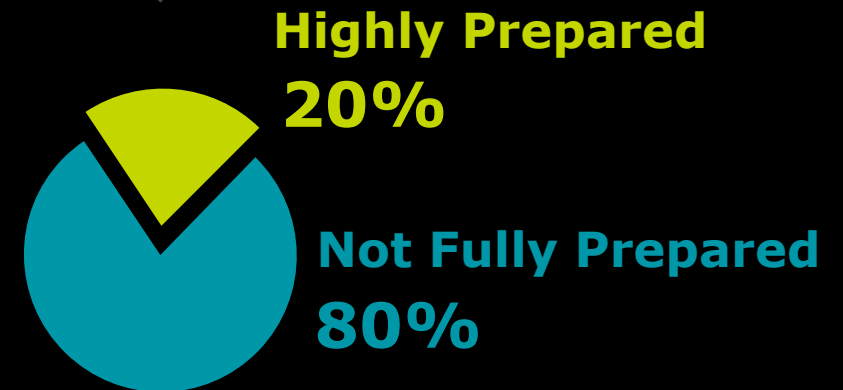
Are Canadian firms prepared?

Deloitte Future of Canada series

2015



TODAY



Canada's zombie problem

WHY?

Simon Pegg "Shaun",
Shaun of the Dead

More than, 16% publicly traded
companies in Canada are
ZOMBIES

zom-bie
zəmbē/

Adjective

A mature firm more than 10 years old that
lack sufficient revenue to cover interest
payments on their debt.

(OECD)

42%

say they're
investing in
innovative
solutions

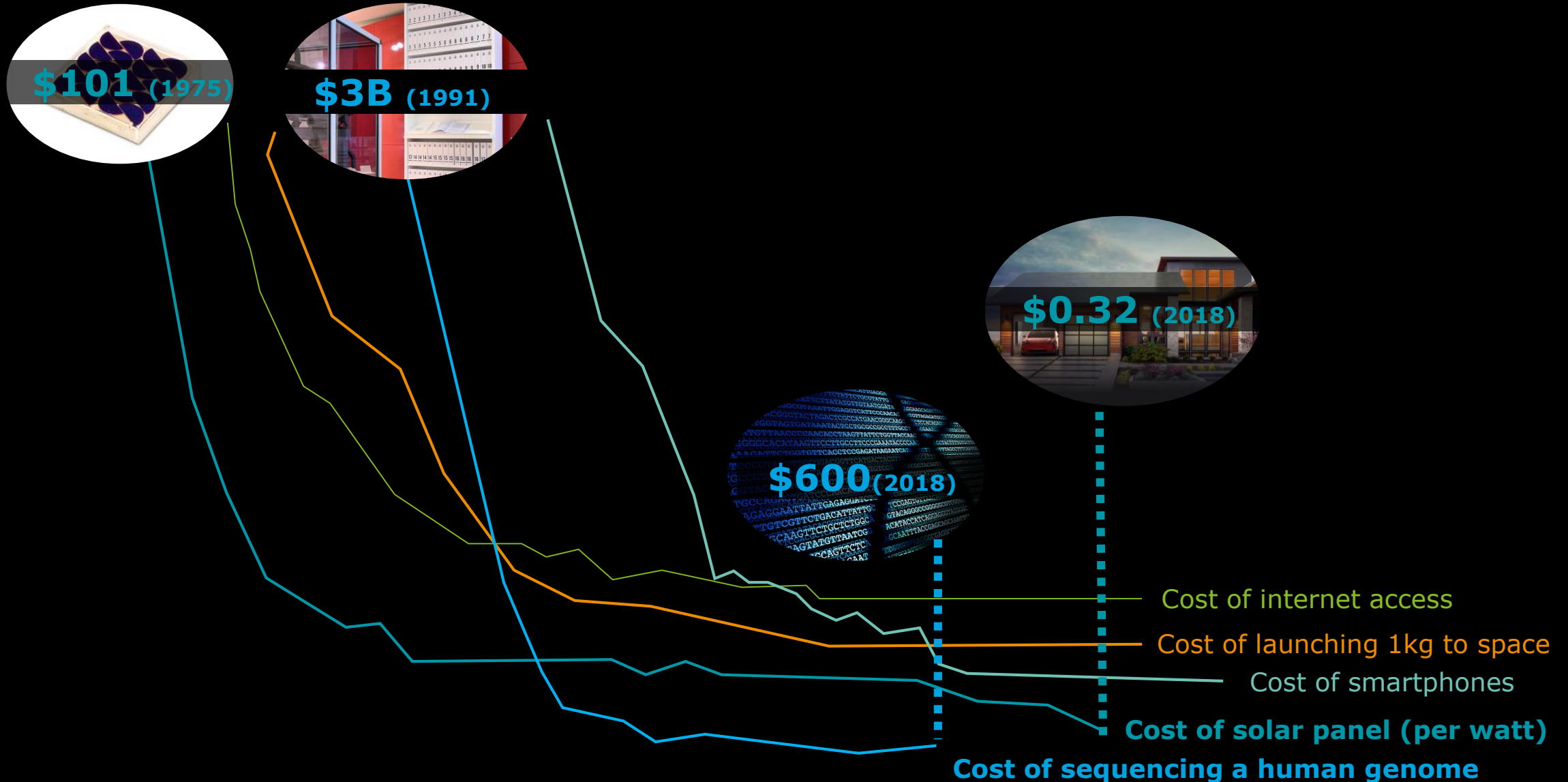
but only...

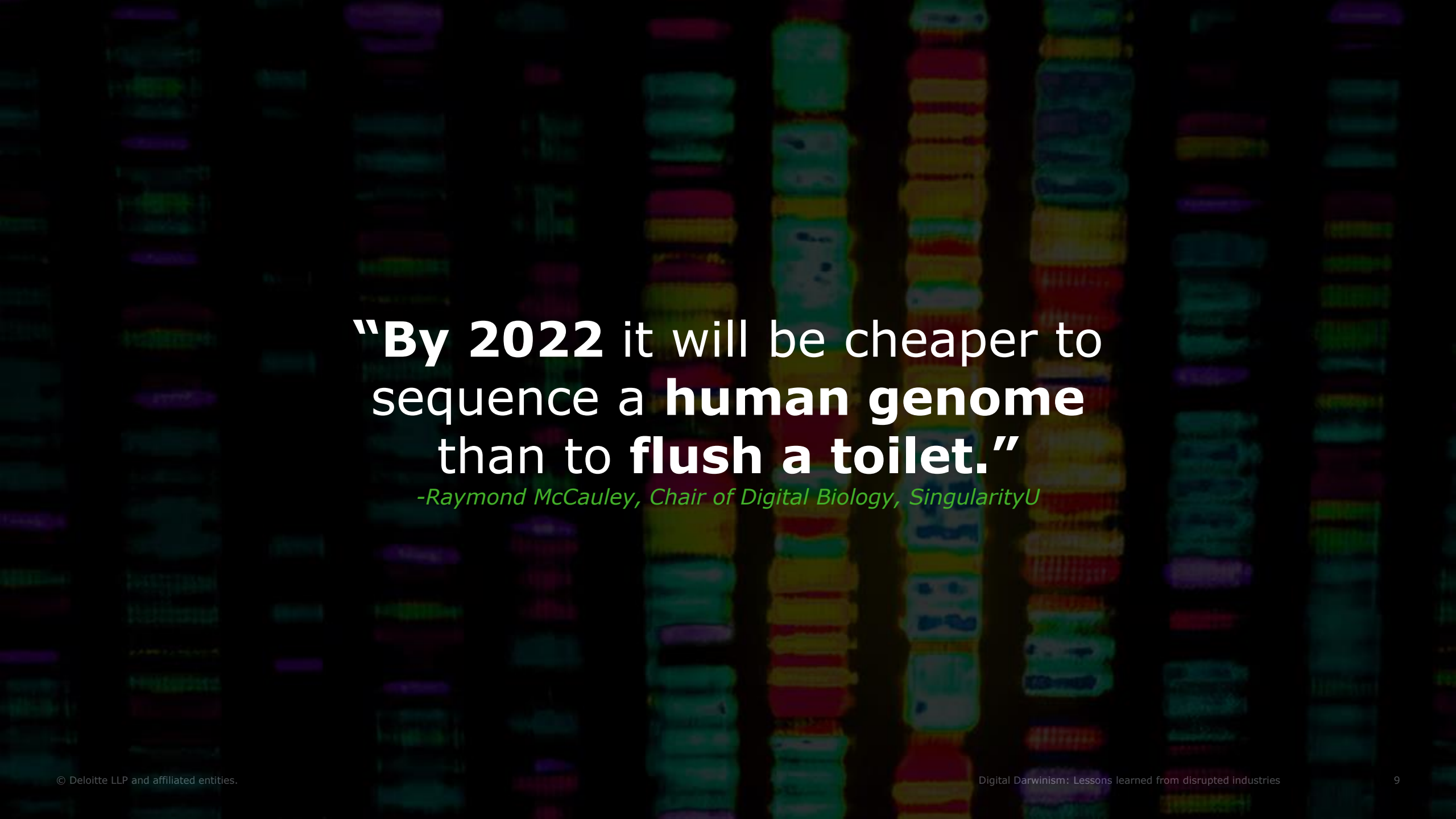
19%

actually have
processes in
place to **test**
and **scale**
innovations



Over the past few decades **information technology** has been **driving cost down** exponentially

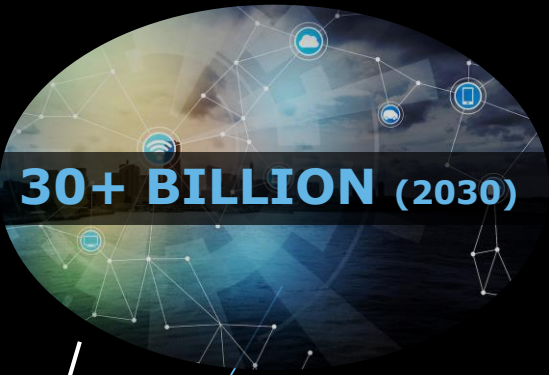




**“By 2022 it will be cheaper to
sequence a **human genome**
than to **flush a toilet.**”**

-Raymond McCauley, Chair of Digital Biology, SingularityU

As prices drop, **performance increases**

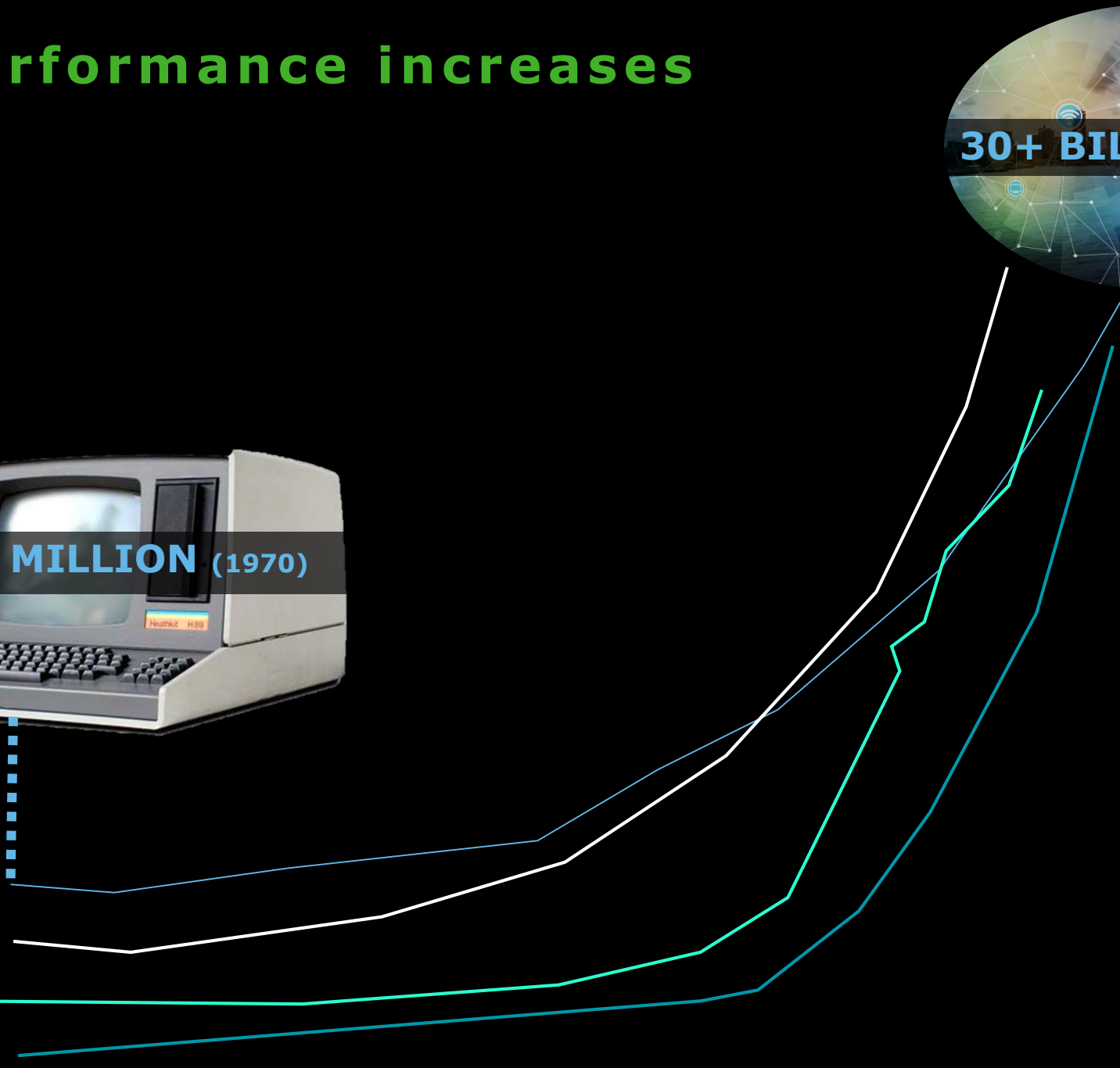


Online devices (IoT)

PB of generated Data

Internet users

Global Solar Panels



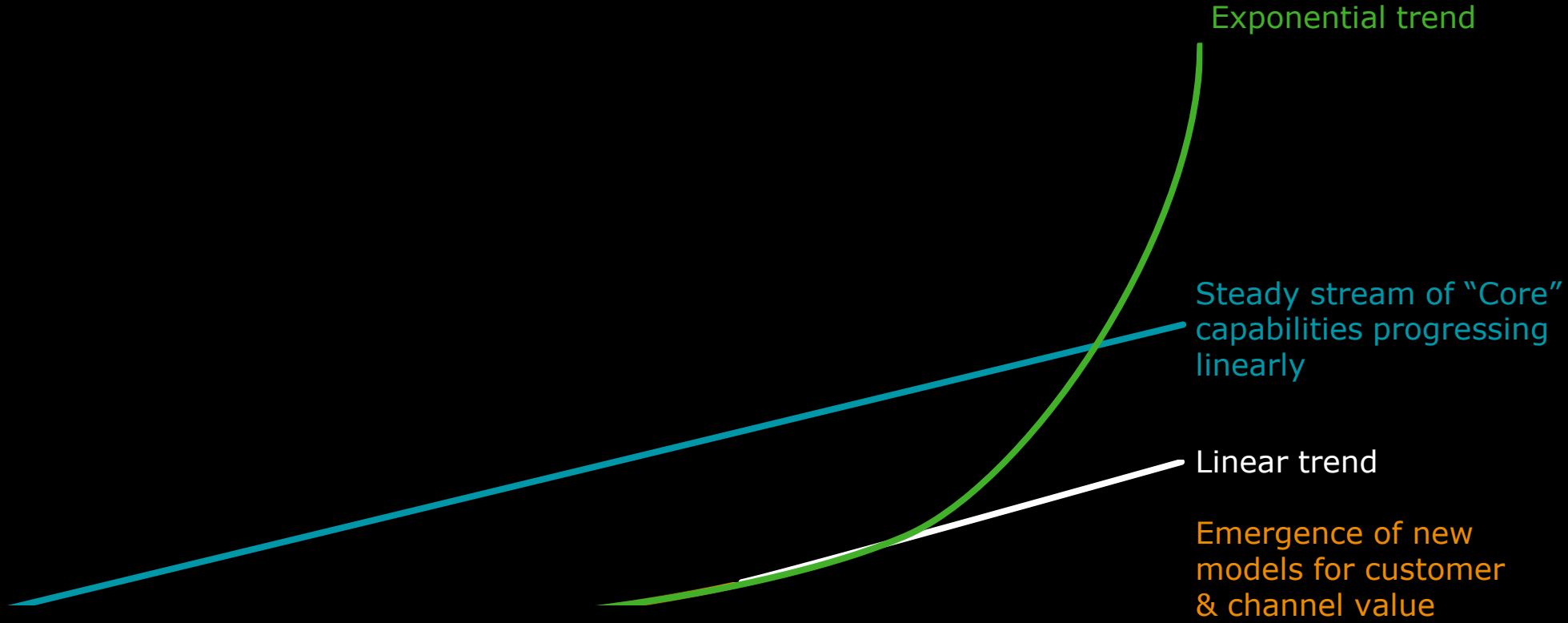
Changing industries and **creating new ones**

Exponential organizations

Opportunities
New innovations



TIME



Exponential trend

Steady stream of "Core" capabilities progressing linearly

Linear trend

Emergence of new models for customer & channel value

But first, we must understand the disruptive nature of exponential growth


If tip off is at 9pm...



9:40pm

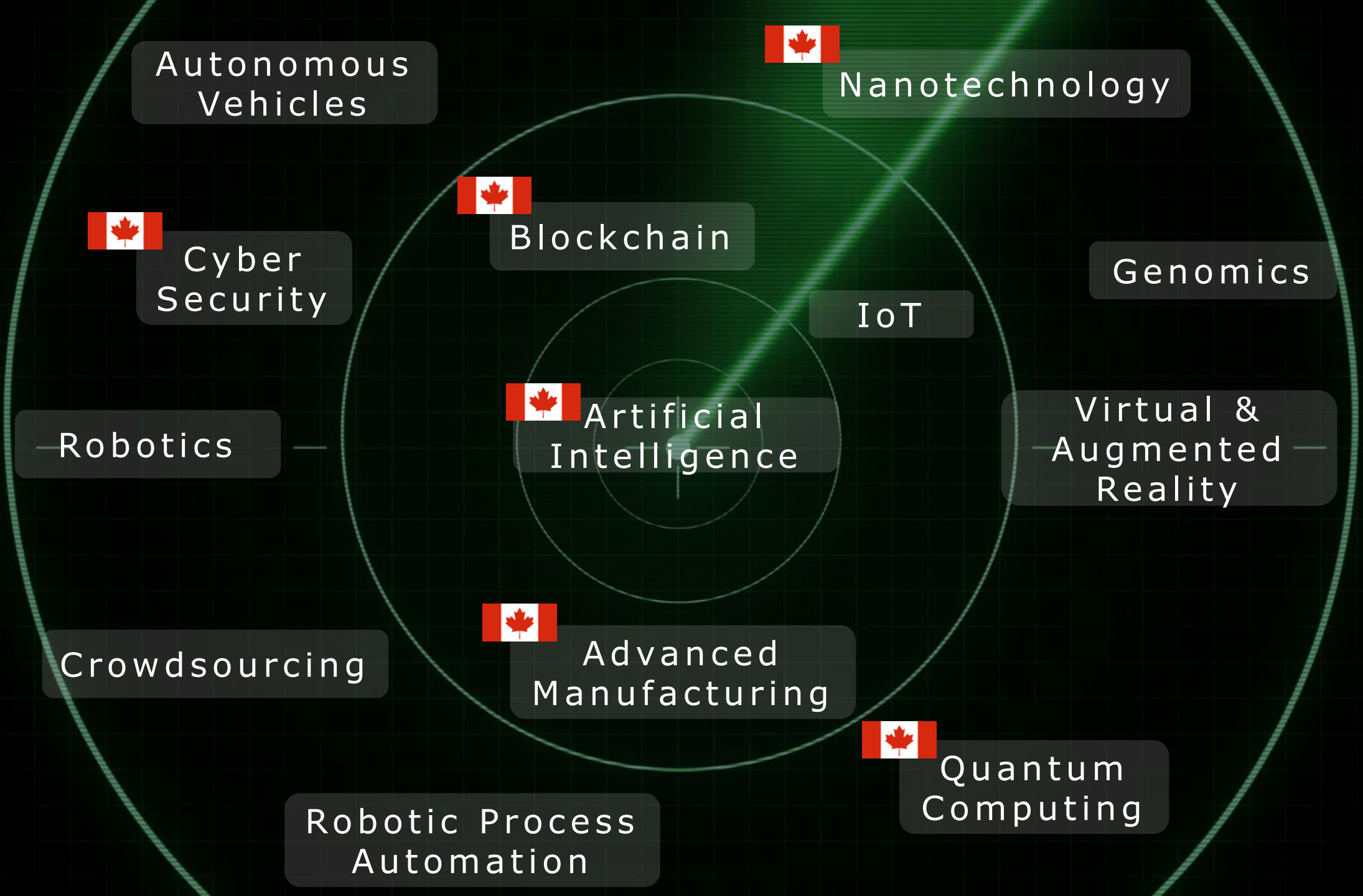
(That doesn't even get you through the second quarter!!)

At what time do you have to be out of the stadium because the water will have reached your seat at the very top?

 = 0.05 ml



= 61,780,500,000 ml



Autonomous Vehicles



Nanotechnology



Blockchain



Cyber Security

Genomics

IoT



Artificial Intelligence

Virtual & Augmented Reality

Robotics



Advanced Manufacturing

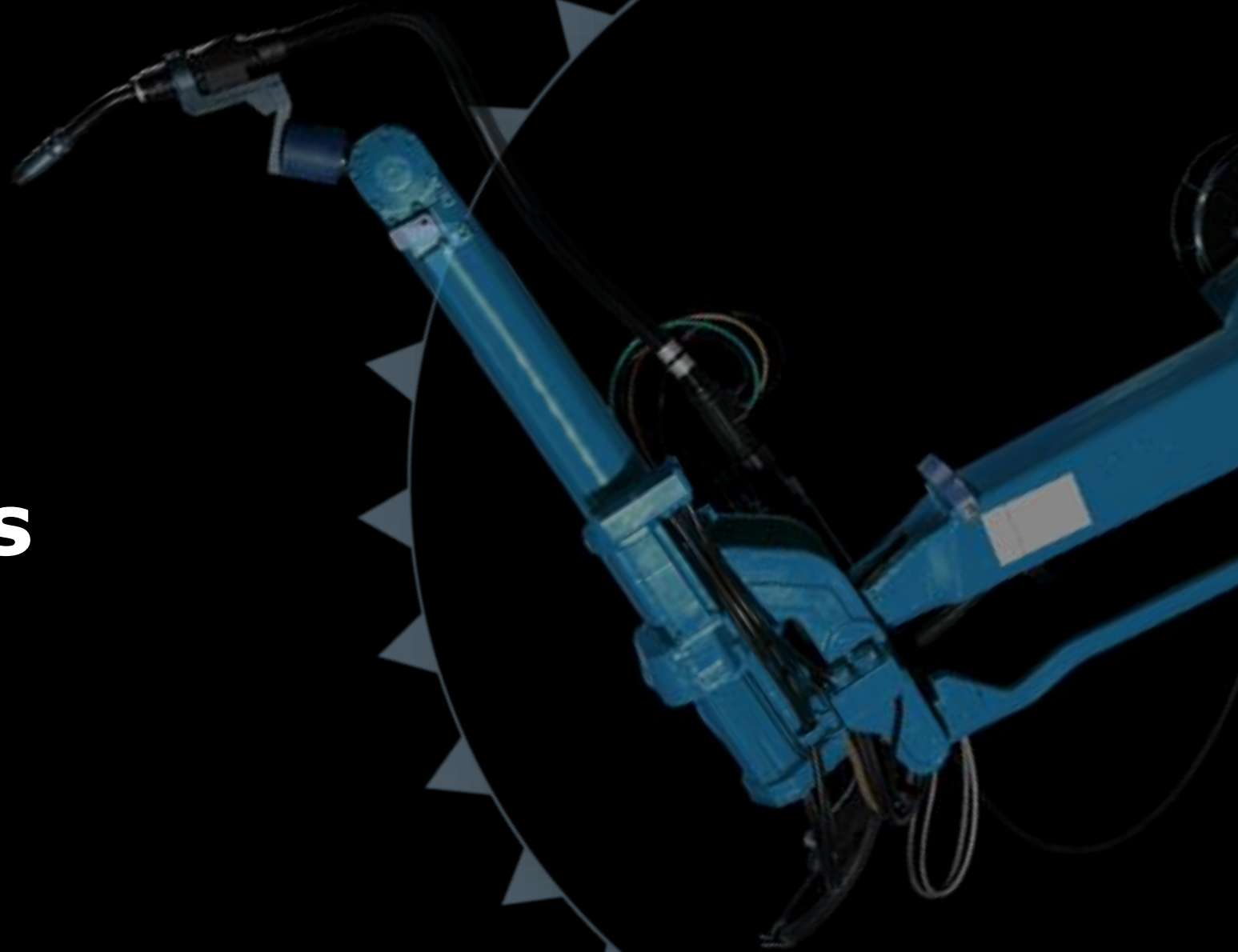
Crowdsourcing



Quantum Computing

Robotic Process Automation

Robotics



Meet Atlas...

HIGH VOLTAGE



23:36:40 05/06/2015 UTC



Boston Dynamics



Boston Dynamics

Now the world's most dynamic humanoid





Boston Dynamics

What vital industry is **experiencing disruption**?

Pizza robots could mean 5 min delivery

ZUME Pizza





Creating a platform for selling and licensing



Disrupting the food delivery model



Killer co-CEO combo

Julia Collins and Alex Garden



Softbank recently invested \$375M in Zume



Artificial Intelligence



Applications of AI

**Knowledge representation
and reasoning**

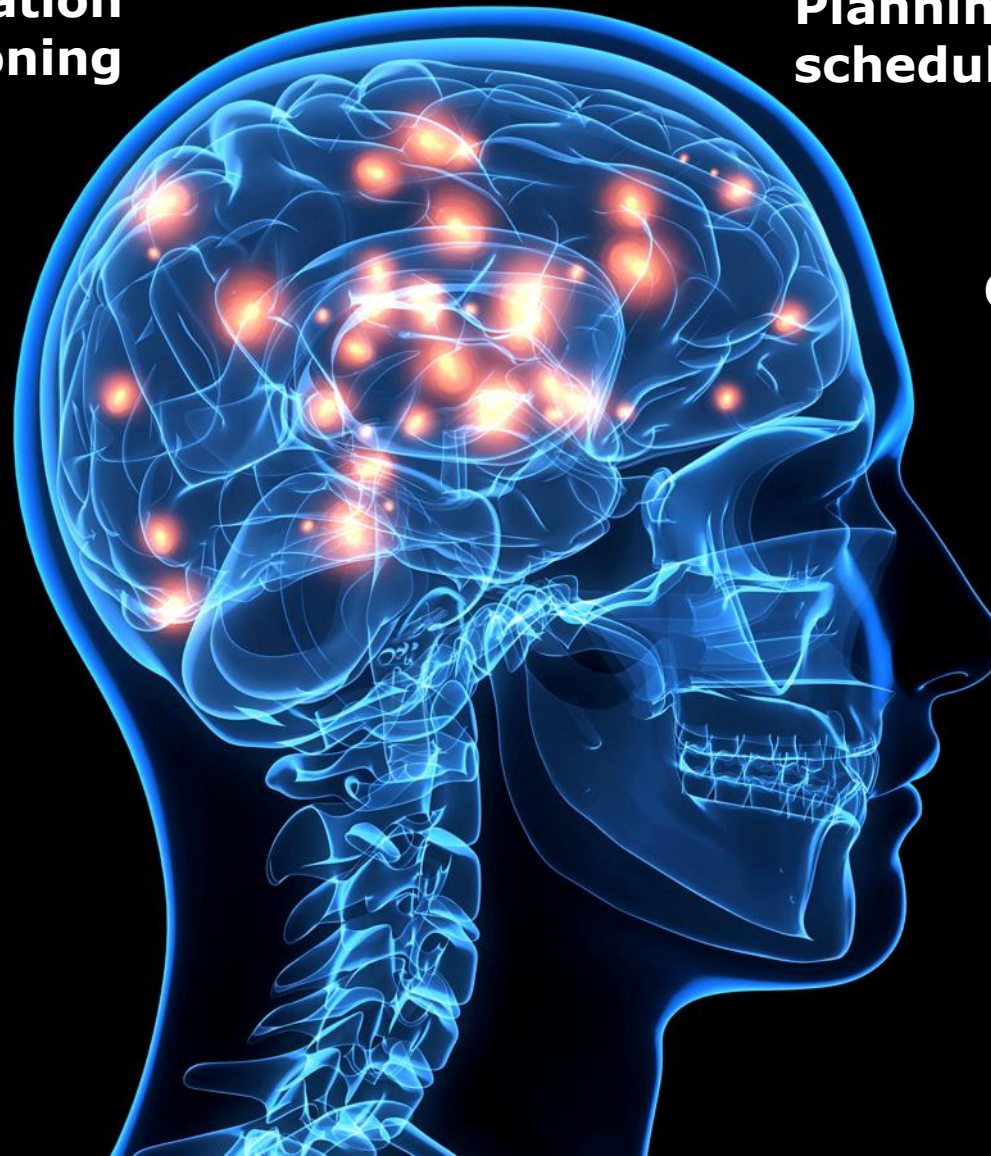
**Planning and
scheduling**

Speech recognition

Computer vision

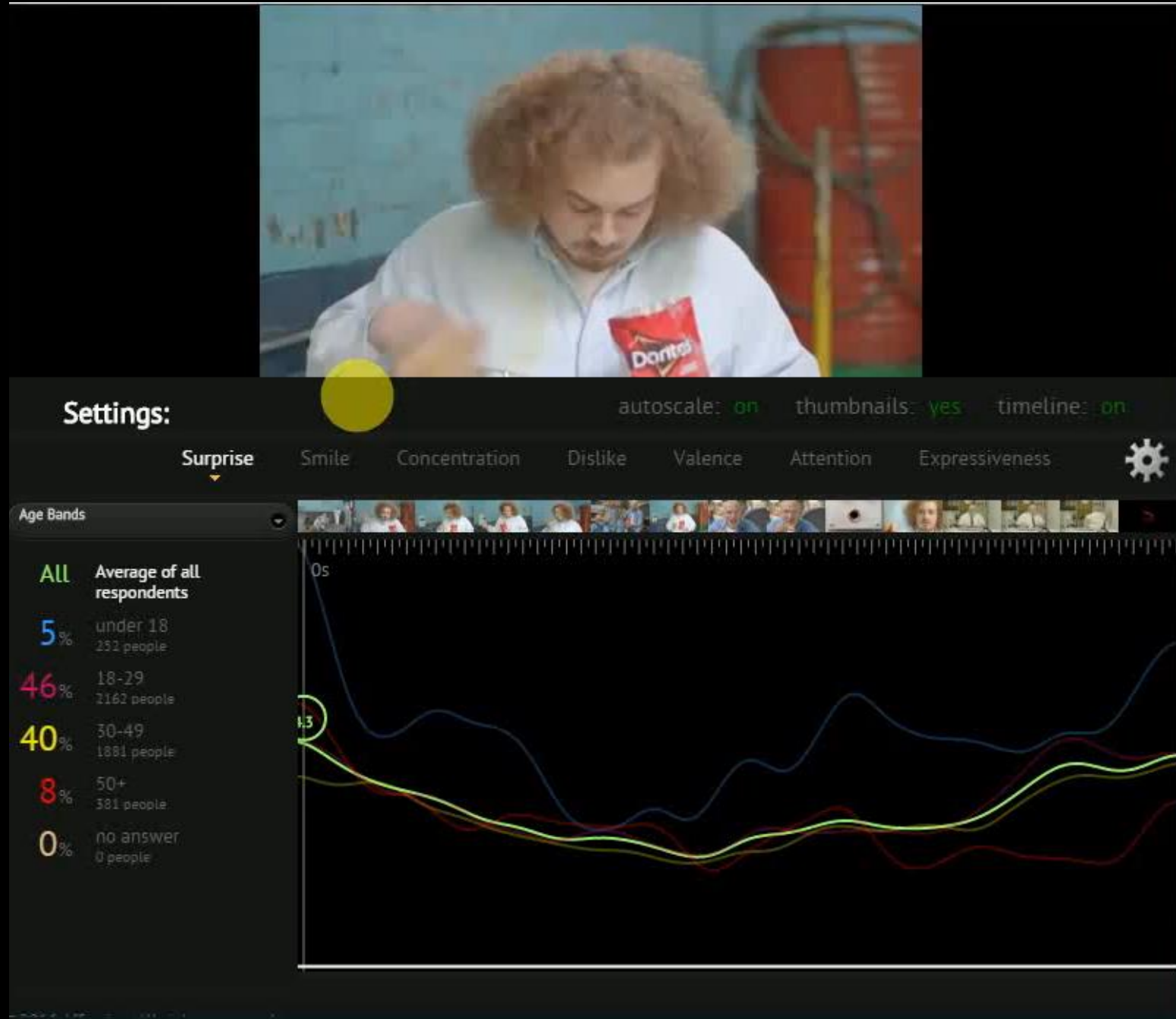
Robotics

**Natural language
processing**





Marketers are leveraging crowdsourcing and facial recognition like :) **Affectiva** to assess new commercials

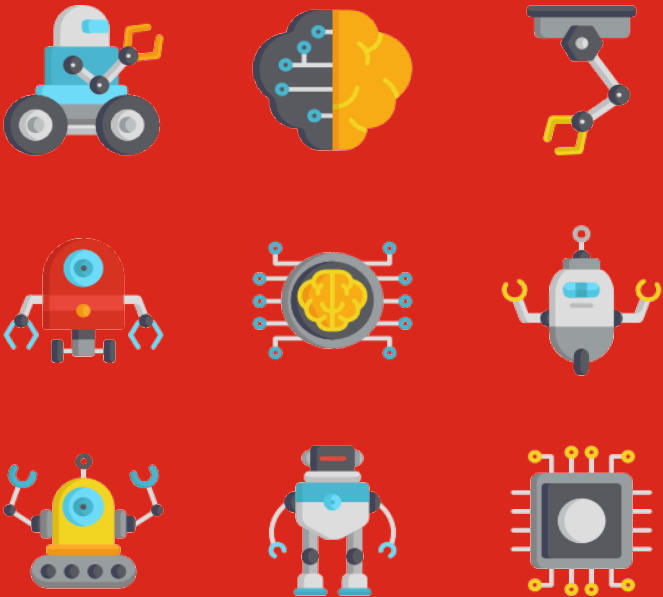


The inevitable...

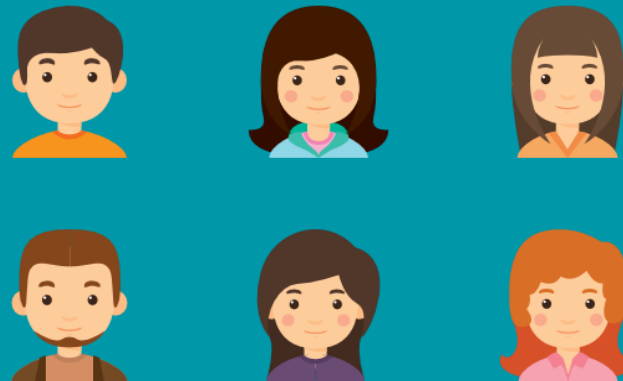


Technological advancement impacts the labour market through...

Destruction Effect



Productivity Effect



Past Industrial Revolutions have been **labour**

augmenting in the **Creation Effect** long term



Number of Jobs

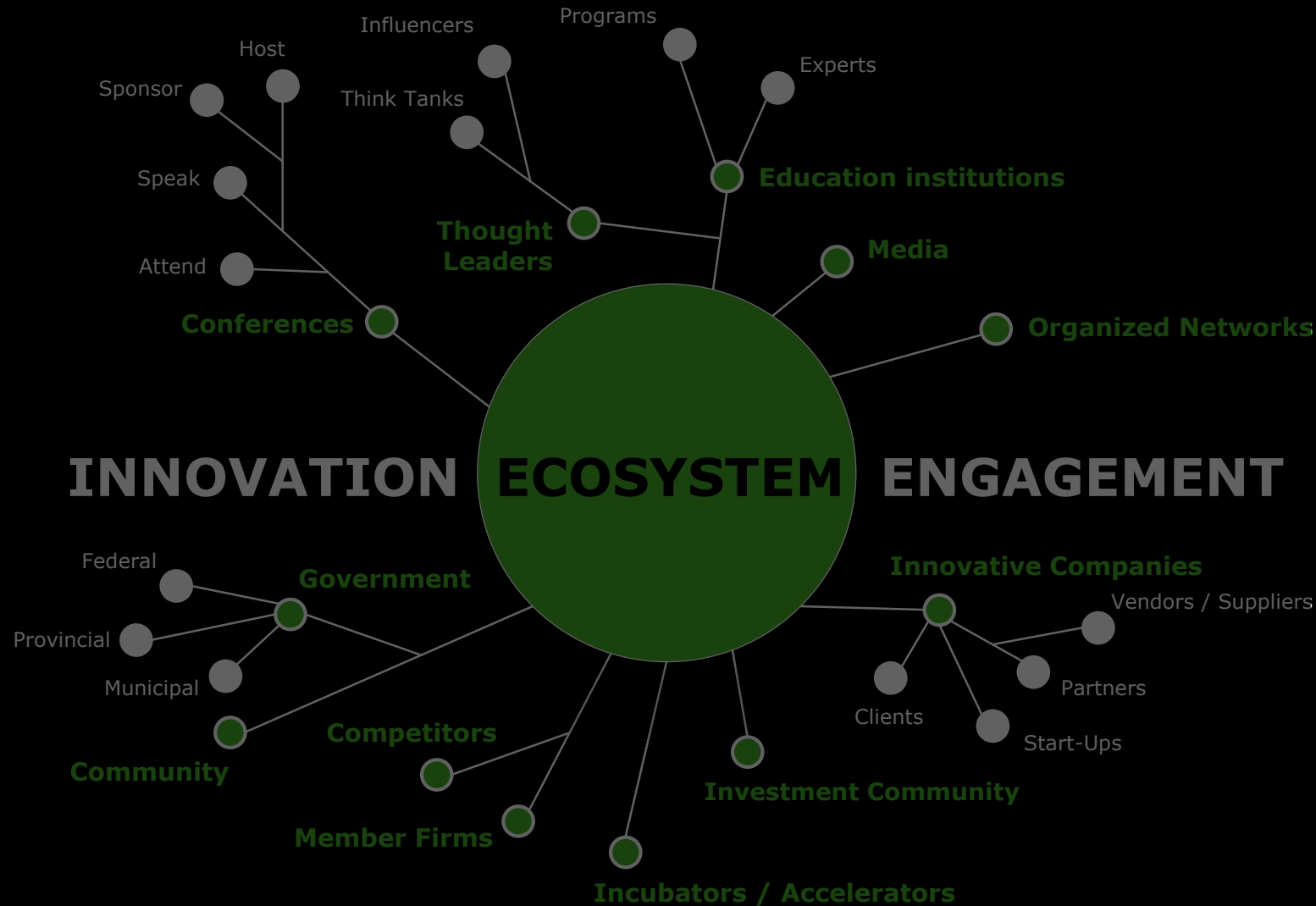
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MOTIVATION

IF A PRETTY POSTER AND A CUTE SAYING ARE ALL IT TAKES TO MOTIVATE YOU,
YOU PROBABLY HAVE A VERY EASY JOB. THE KIND ROBOTS WILL BE DOING SOON.

Be a leader. Invest in ecosystems.



Think exponential, ask yourself...

1

How do we prepare for the various policy changes that will result from exponential technologies?

2

How does my organization build a continuous sensing engine?

3

What are you, personally, and your organization doing to prepare for the future of work (e.g. digital literacy, human centric skills)?

4

How am I going to be more awake, purposeful and engaged in the work that I do?

Constructive disruptor roadmap



Buy smart glasses
from By North



Schedule a
test drive



Attend SingularityU
Global Summit
August 19-21st



Watch
Black Mirror



Buy an ecobee3
thermostat



Experience AI with
Google Quick Draw



Tour a start-up
incubator/
accelerator



Read Factfulness
by Hans Rosling

Thank you!

SEE THE PRESENTATION



AgeOfDisruption.xyz

Presentation code: InnovationConference