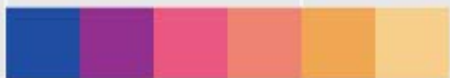


Festschrift for Jørgen Randers

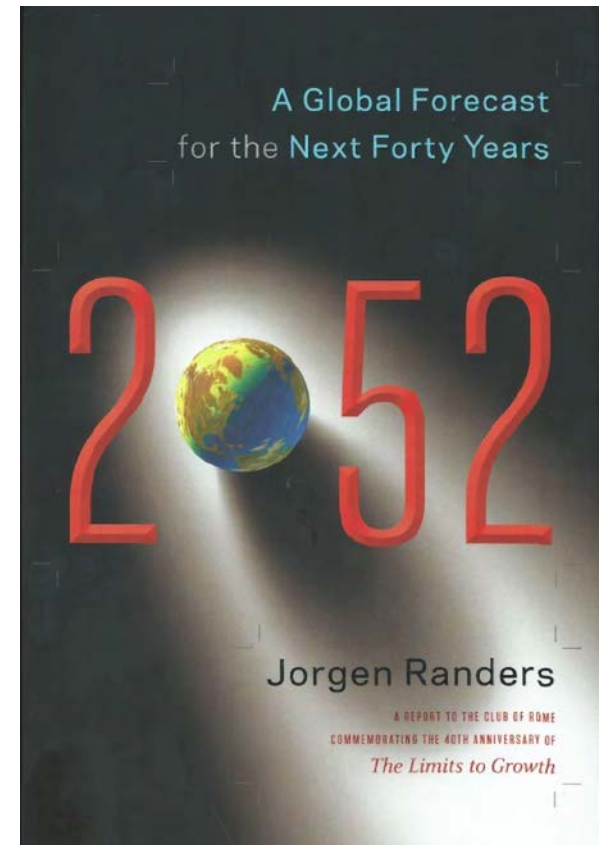
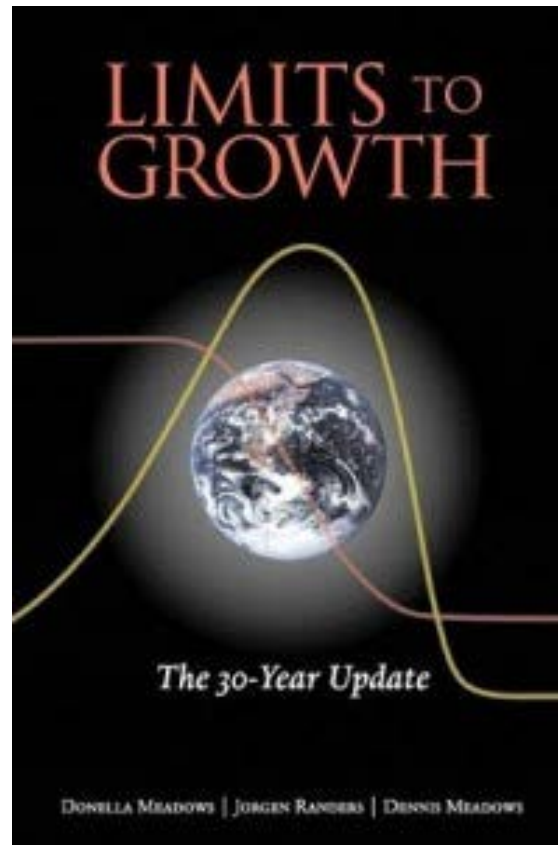
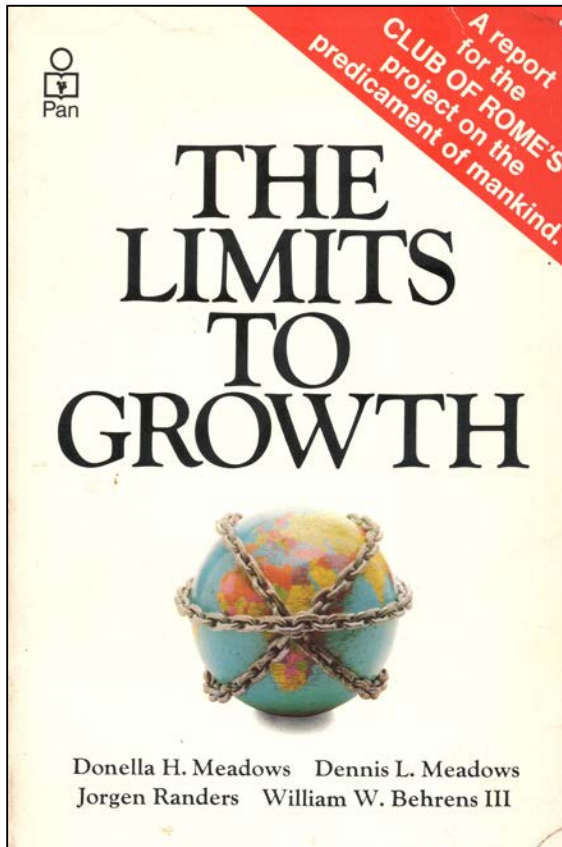
@ BI Green Economics Seminar, Oslo, 21 May 2015

THE BREAKTHROUGH DECADE

2016-2025



Releasing memes: Limits and Beyond



Releasing eels: 2052 of them



VOLANS



1. **BREAKDOWN OR BREAKTHROUGH?**

V1

V2

V3

V4

V5

V6

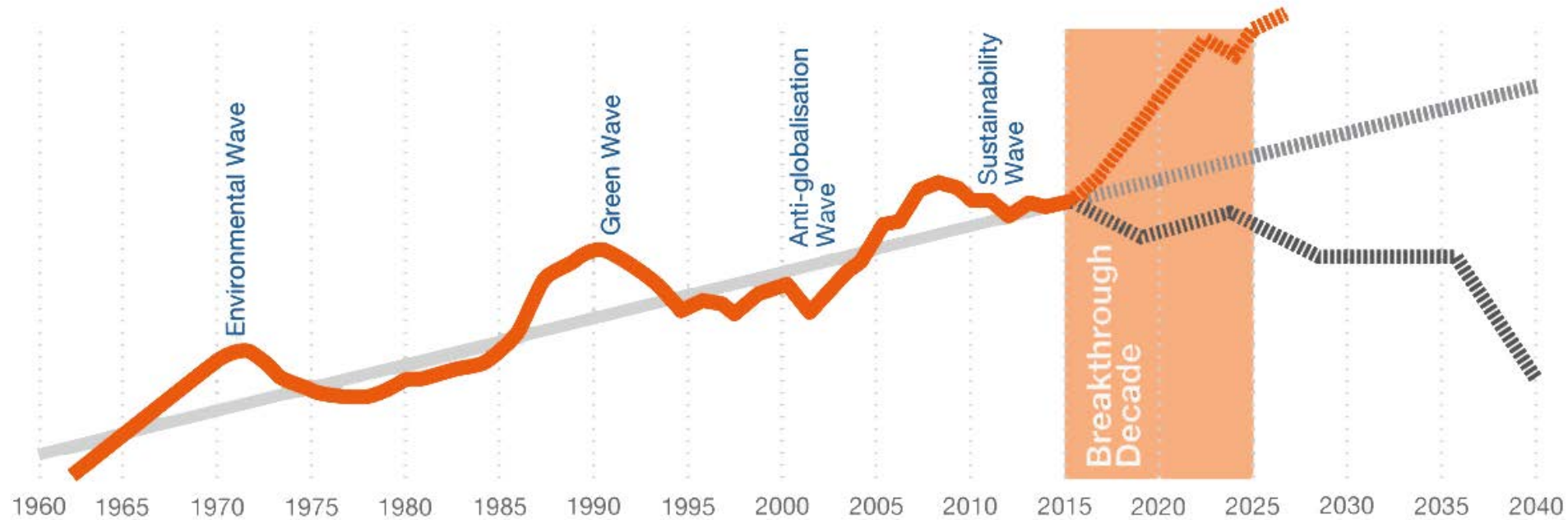




Tweet by Alex Steffen of worldchanging.com, 10 May 2014:

'What happens in next 40 years [is] critical for all humanity for centuries to come. What happens in next 10 years sets [the] range of what's possible.

Breakthrough Decade, 2016-2025



“Either we throw away capitalism and start again, or we **transform capitalism.**”

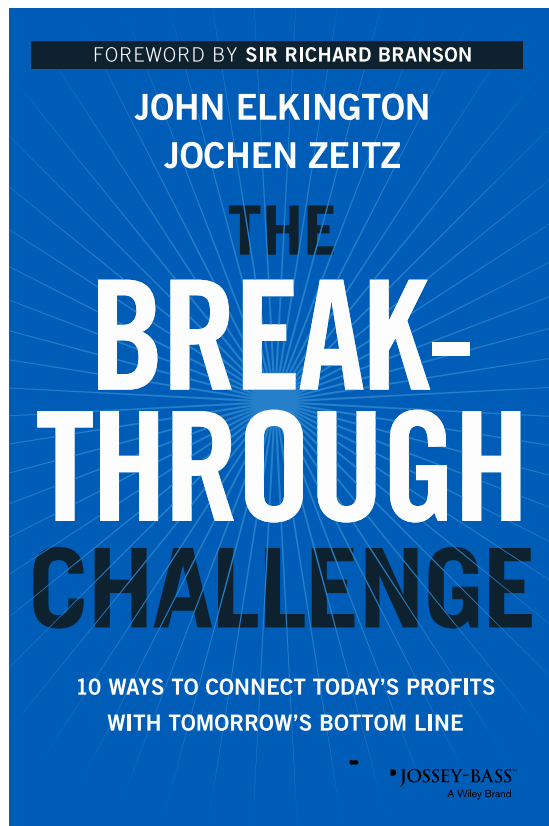
Peter Bakker, President, WBCSD, quoted in *The Breakthrough Challenge*



Breakthrough: Tomorrow's Bottom Line



THE B TEAM



- .. place a higher value on **ambition**, **longer time-scales** and **stretch targets**
- ... track novel forms of **value**, using numbers & algorithms that would seem alien to today's CFOs, CPOs and financial analysts
- ... be part of efforts to level **playing field**—upwards
- ... favor businesses that **learn from nature** and play into emerging **circular economy**

Breakthrough: The Sustainability Barrier



‘The day before something is a breakthrough, it’s a crazy idea.’

Peter Diamandis, The X Prize Foundation



2. WHAT'S THE STRETCH AGENDA?

V1

V2

V3

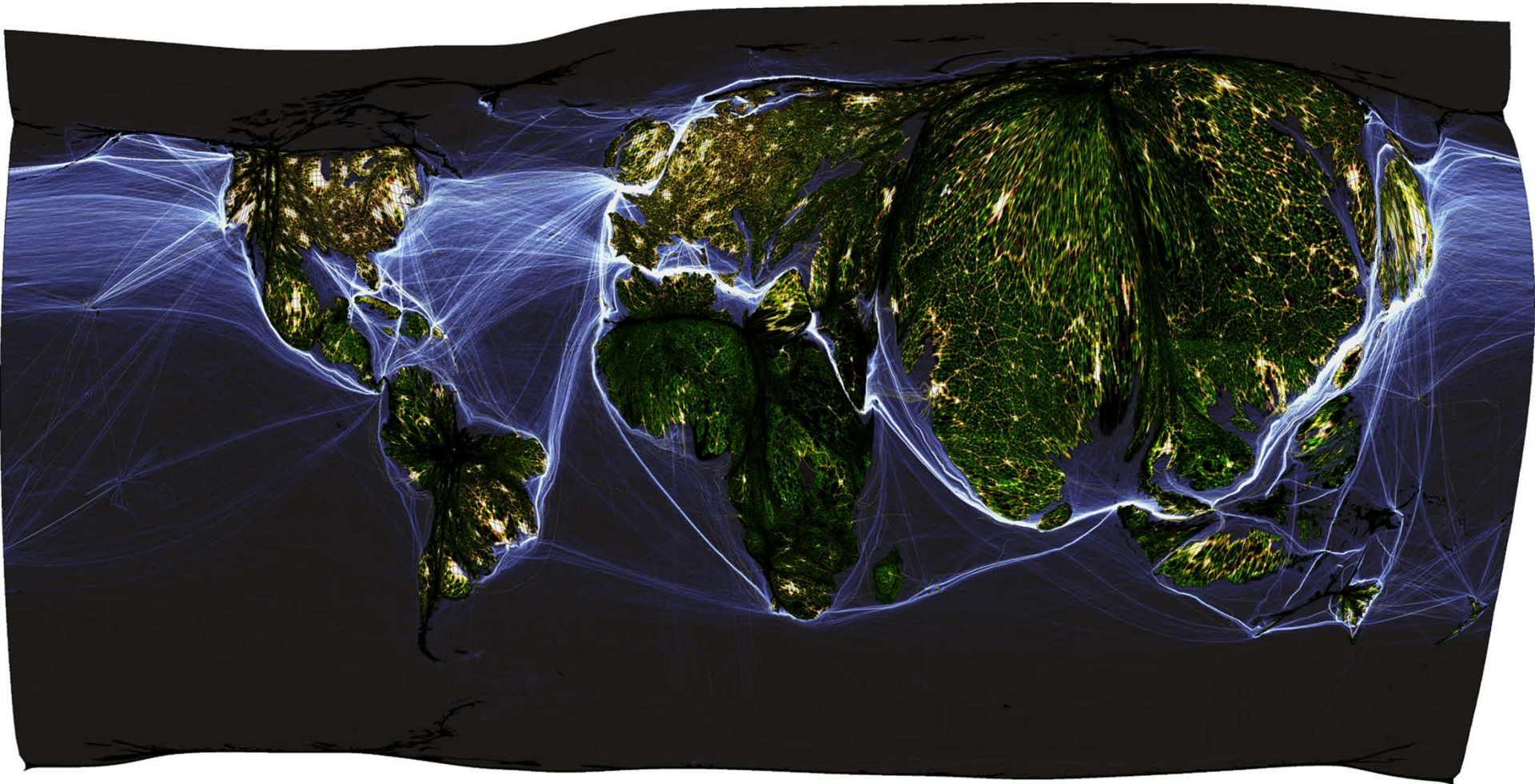
V4

V5

V6



New Normal: **The Anthropocene**



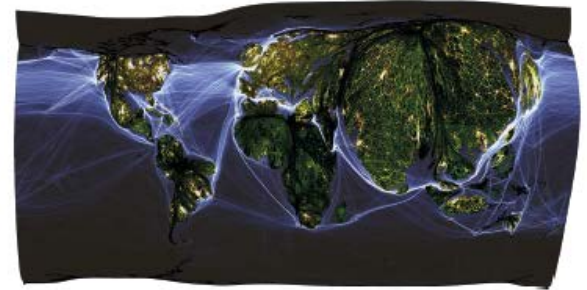
Make-or-Break: **Global C-Suite**



Image source: iStock; Volans

The Stretch Agenda

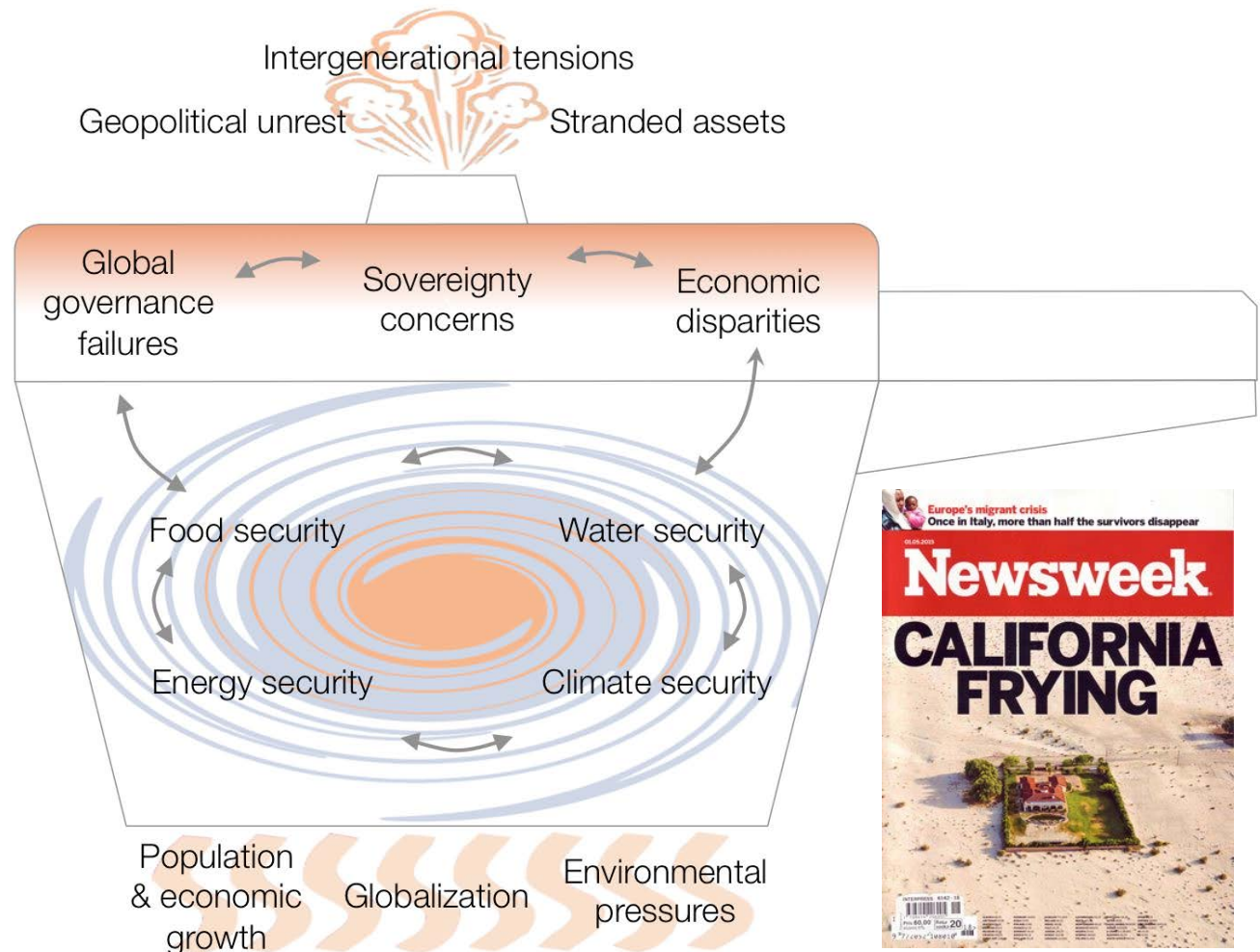
Breakthrough in the Boardroom



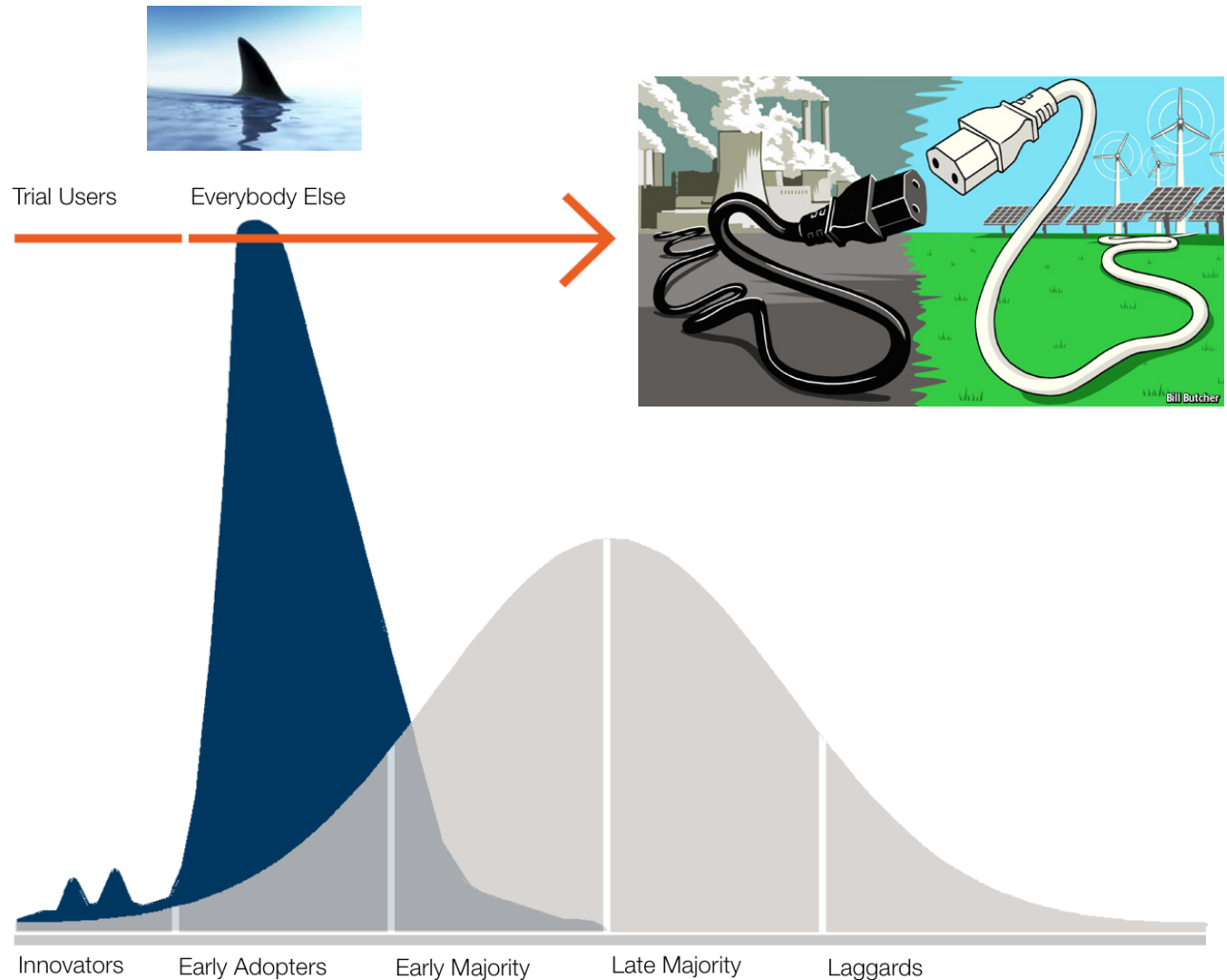
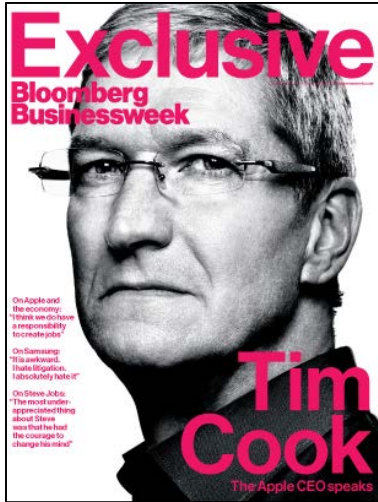
generation
foundation



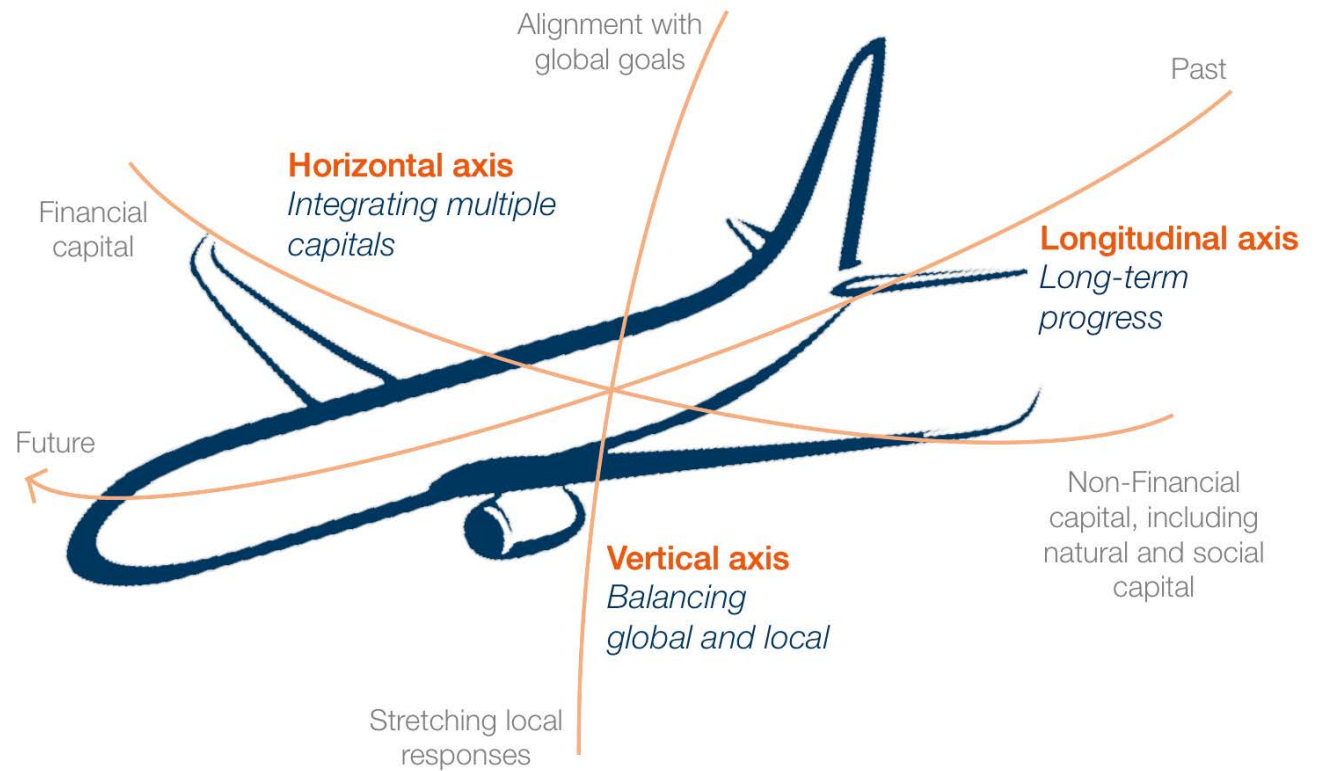
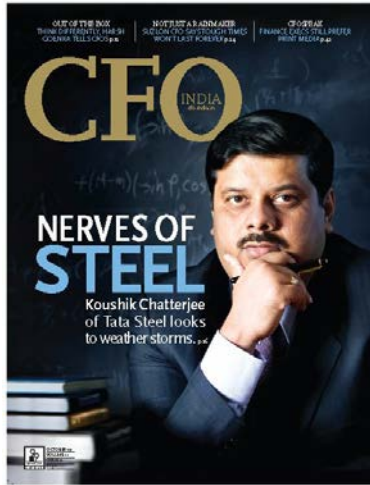
Stretch Agenda: **Chair/Diane Tracker**



Stretch Agenda: **CEO**/Frank Jansen



Stretch Agenda: **CFO**/Dieter Schmidt



VOLANS

3. IS IT JUST DARK CLOUDS?

V1

V2

V3

V4

V5

V6



I don't like what I see!



Markets: Breakthrough Forecast/1



القمة العالمية للإقتصاد الأخضر
WORLD GREEN ECONOMY SUMMIT

22 - 23 April 2015 ٢٢-٢٣ إبريل، ٢٠١٥
Dubai, United Arab Emirates دبي، الإمارات العربية المتحدة



Since 2007, **\$6.22 trillion** invested in Green Economy; what will markets be worth by 2025?

The Breakthrough Forecast
Market Sweet Spots to 2025



generation
foundation

Version 1.0



Markets: Breakthrough Forecast/2

- ... 3D Printing
- Artificial Intelligence
- Autonomous Vehicles
- Batteries
- Biomimicry
- Big Data, Little Data
- Cooling Technology
- Desalination
- Drones
- Genomic Testing
- Geoengineering
- Internet of Things
- Modeling & Visualization
- Nanotechnology
- Robotics
- Sensors
- Smart Infrastructure
- Space Commercialization
- Synthetic Biology ...



