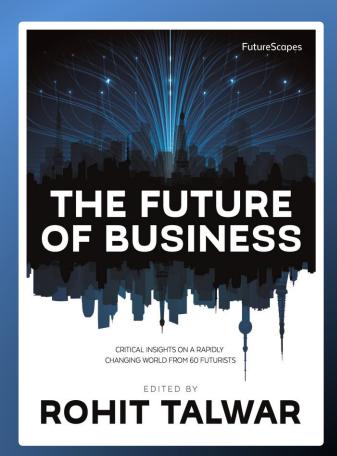




The Future of Business

- 60 Chapters
- 62 Contributors from 21 countries
- Critical insights into a rapidly changing world
- Project completed in 19 weeks
- Bringing "exponential thinking" to publishing
- www.fastfuturepublishing.com

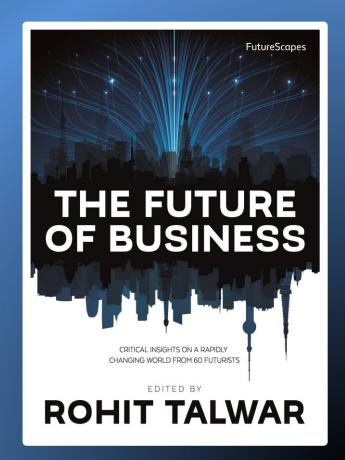


The Future of Business

- 60 Chapters
- 62 Contributors from 21 countries
- Delegate discount: 45%
 Coupon code: zf45
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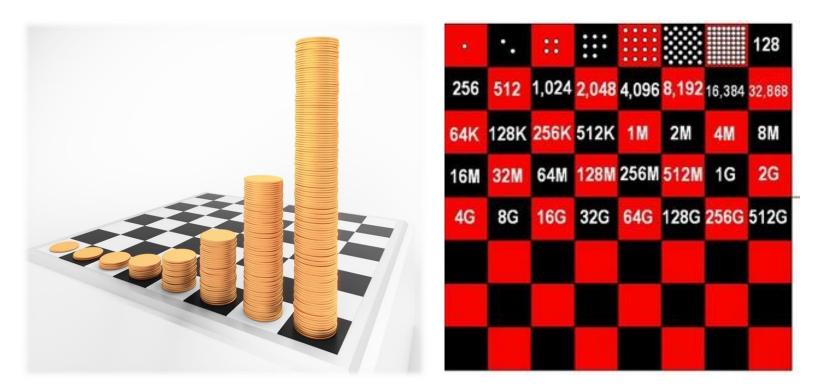
publishing

www.fastfuturepublishing.com





Exponential Organisations



Moore's Law – exponentiality in the physical world as well as in computing

Can we Change our DNA?

Play by the Rules of the Game

Create a
New Game

'Future Proofed' Organisations Work on 3 Horizons in Parallel







1-12 Months

Operational Excellence

1-3 Years

Search for Growth

4-10+ Years

Creating the Future

10 Key Disruptions Shaping the Global Business Environment, Driving Change, Creating Opportunity

- 1. Shift from Physical to Digital Mindsets
- Exponential Science and Technology Developments
 e.g. Internet of Things, Big Data, Artificial
 Intelligence and Robotics
- 3. Linear Versus Exponential Business Thinking
- 4. Human Versus Machine
- 5. Potential for Major Shifts in Employment Patterns
- 6. 'Financial Stress' Driving New Economic Thinking
- 7. Migration from Central Control to Distributed Digital Currencies, Blockchain and CryptoContracts
- 8. New Industries are Emerging
- 9. Desire for Trust and Transparency
- 10. Social Structures and Political Governance Models at the Crossroads





3D / 4D Printing

Nanotechnology /
Atomically Precise
Manufacturing

Artificial
Intelligence /
Conscious
Technology

New Computing Architectures

Food Chain
Transformation

Energy Innovation

Robotics / Drones

A Possibility Explosion from Exponential Science and Technology Developments

Hyperconnected Internet of Humanity

Immersivity /
Mixed Reality
Living

Brain Uploading

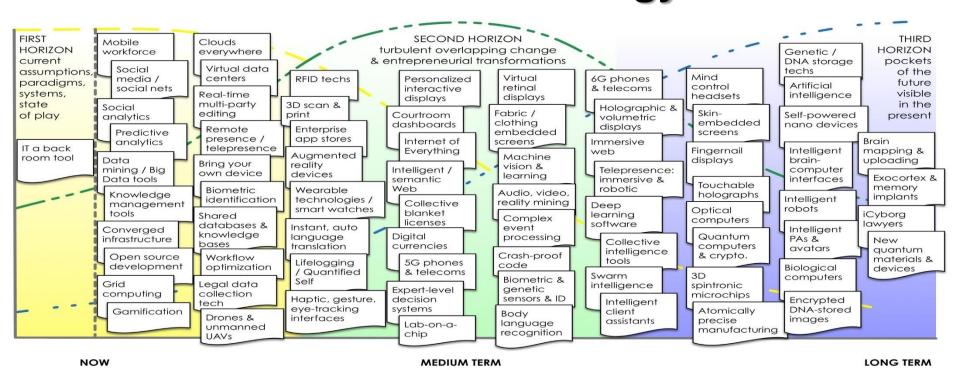
Healthcare Transformation

Human Augmentation

Synthetic Biology

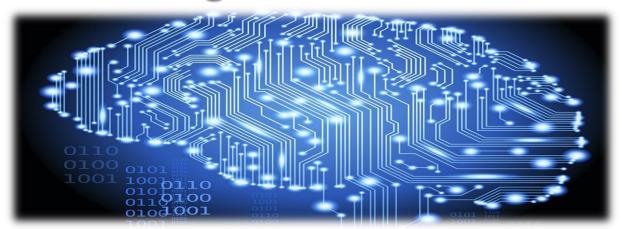
Blockchain Technology

What's Next in ICT? We can Anticipate at Least 60% of the Technology Timeline



It is Key to Understand the Core Trends...

'Magic' and Science are Blurring



Mapping and Uploading the Human Brain



Cognitive, Genetic, Physical and Electronic Enhancement of the Human Body

Understanding the Transformative Role of IT

Customer
Centric
'Hive Mind'

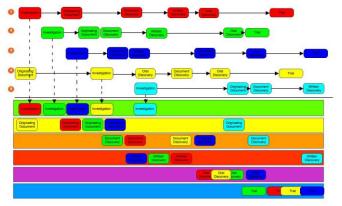




Talent:
Develop and
Leverage
Staff

Innovate to Differentiate





Re-engineer Processes

Our Technologies are Evolving & Merging













...Wearable...

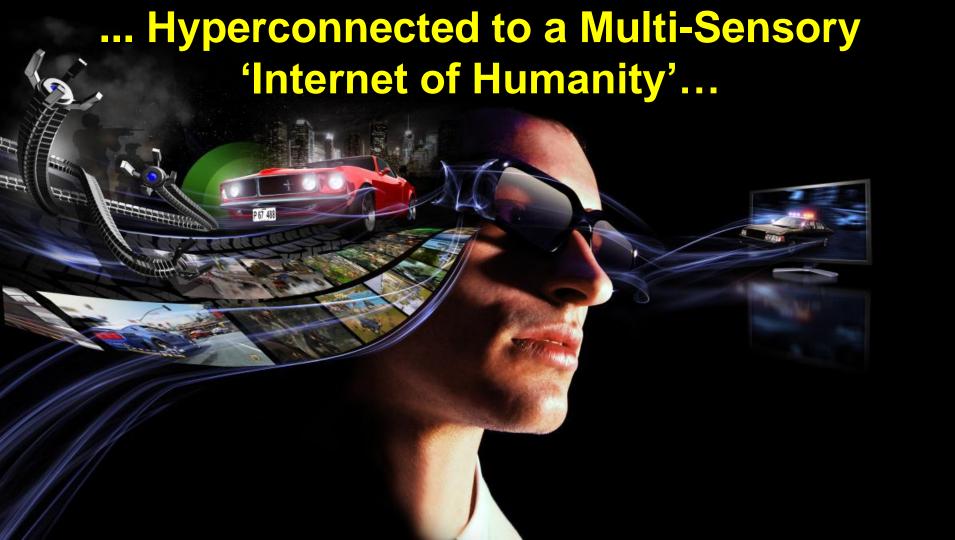




...Embedded...







Driverless Cars / Autonomous Vehicles



The Blockchain & Digital Currencies

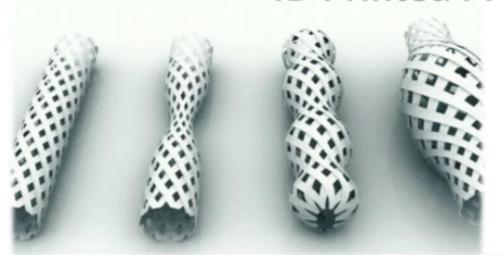






Strati – First 3D Printed Car (Local Motors)

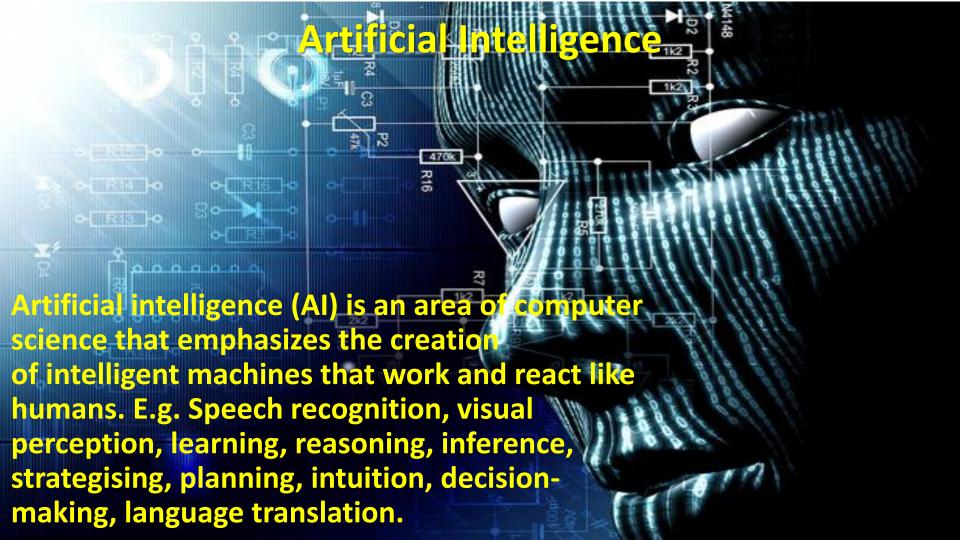
4D Printed Products



Objects that reshape themselves or selfassemble over time.









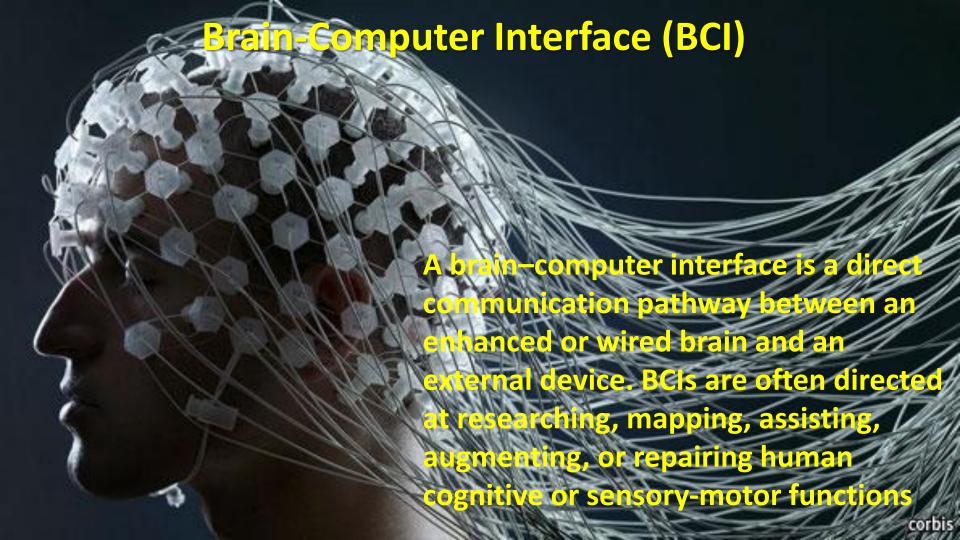
Robots are Entering the Workforce

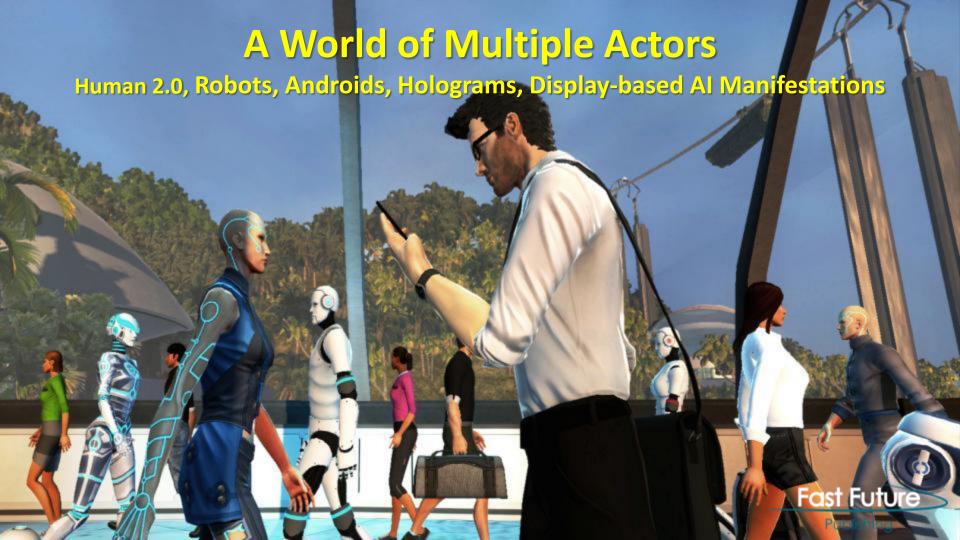














Case Studies: When Business Ignores the Signals

- Kodak ignored new market entrants and were over confident in its brand. Market share declined rapidly.
- Digital camera developed in 1975, but was dropped.
- ➤ 2013 emerged from Chapter 11 Bankruptcy Protection now Print Systems, Enterprise Inkjet Systems, Micro 3D Printing and Packaging, Software and Solutions, Film.
- K O D A K
- In 2000 Netflix proposed partnership to Blockbuster Netflix would run Blockbuster's brand online, Blockbuster promote Netflix in stores.
- Netflix advantages: no retail locations, lower costs, greater variety.
- Blockbuster unable / unwilling to alter business model.
- ➤ Blockbuster went bankrupt in 2010 and Netflix is now a \$28 billion dollar company.

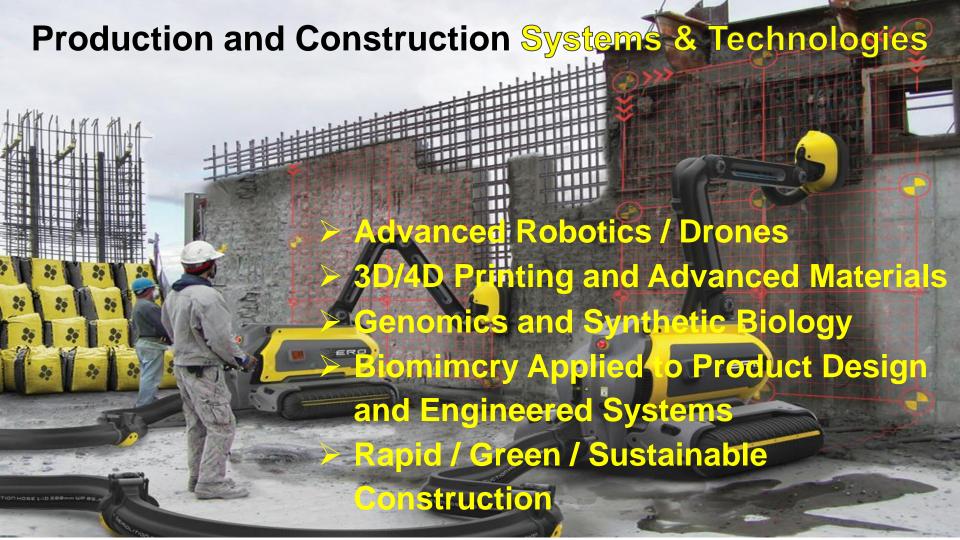


Information and Communications Technology

Mobile Internet - Devices, Services, Infrastructure, Commerce

- Next Generation Intelligent, Personalised Internet
- Cloud Based Applications, Infrastructure, Services
- Internet of Things / Internet of Everything / Internet of Humanity
- Big Data, Data Mining and the Automation of Knowledge
- > Al and Deep Learning
- Blockchain Systems and Distributed Autonomous Organisations



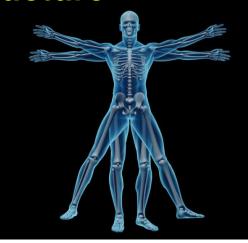


Citizen Services & Domestic Infrastructure

- > Healthcare and Caring
- > Smart Homes
- > Human Enhancement
- > Autonomous & Self Drive Vehicles
- **Education**
- Environmentally Friendly Technologies



- > Food & New Methods of Production
- > Economy & New Economic Models
- > Smart Cities
- > Transport
- > E-government





Industry Transformation

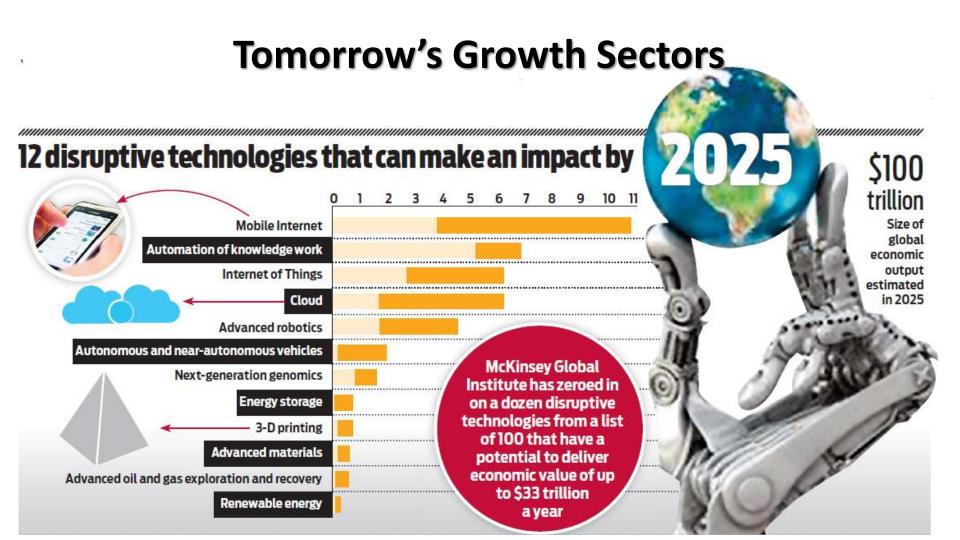
- ➤ Global Infrastructure Roads, Transport, Energy, Water
- ➤ Automation of Professional Services E.g. Accounting, Legal, Consultancy, and Architecture
- > Financial Services Technologies



Energy & Environment

- Renewable Energy
- > Advanced Oil / Gas Extraction
- Climate Change & Environmental Protection





Case Studies: When Business Disrupts Markets

- ➤ **UBER** founded as a transportation company that utilized licensed taxi drivers for ridesharing services.
- Integrate a mobile application to connect passengers with drivers of vehicles for hire within a specified geographical area.
- Uber is disrupting the market for taxi cabs and transportation in general.
- More customer oriented experience including track their vehicle as it is in route to them and new payment options.
- > The future: driverless cars, delivery, on-demand urban air transportation,
- Airbnb offers user-friendly site for discovering and booking accommodation.
- Curated listings more than "renting a spare room" about discovering cool/quirky/creative properties.
- Rentals generally 30-80% lower than available hotels. Free to list AirBnB charges 3% fee to process payments. Guests pay the service fee to AirBnB. Low entry barrier.
- Potential to transform the traditional model of a accommodation / space rental.





Rapid Execution e.g. Superfast Construction Ark Hotel - Dongting Lake - China



Pursuit of Exponential Growth

| AirBnB Hotels | 90x more listings per employee | | |
|--|--|--|--|
| GitHub Software | 109x more repositories per employee | | |
| Local Motors Automotive | 1000x cheaper to develop a new car model 5-22x faster to manufacture a car | | |
| Quirky Consumer Goods | 10x faster product development (29 vs 300 days) | | |
| Google Ventures Investments | 2.5x more investments in early stage start-ups 10x faster through design process | | |
| Valve Gaming | 30x more market cap per employee | | |
| Tesla Automotive | 30x more market cap per employee | | |
| Tangerine (formerly ING Direct Canada) Banking | 7x more customers per employee 4x more deposits per customer | | |

Exponential Market Cap Improvement

| | Age (yrs) | 2011 valuation | 2016 valuation | Increase |
|--------|-----------|----------------|----------------------|----------|
| Haier | 31 | \$19 billion | \$60 billion (2014) | 3x |
| Valve | 19 | \$1.5 billion | \$4.5 billion (2014) | 3x |
| Google | 18 | \$150 billion | \$533.4 billion | 3.6x |
| Uber | 8 | \$2 billion | \$62.5 billion | 31x |
| AirBnB | 7 | \$2 billion | \$25.5 billion | 12.8x |

\$ 500 million

\$ 25 million

\$ 50 million

(est.)

0

Gifthub

Waze

Qirky

Snapchat

6

4

\$2 billion

Closed

\$16 billion

\$1.15 billion (sold to

Google in 2013)

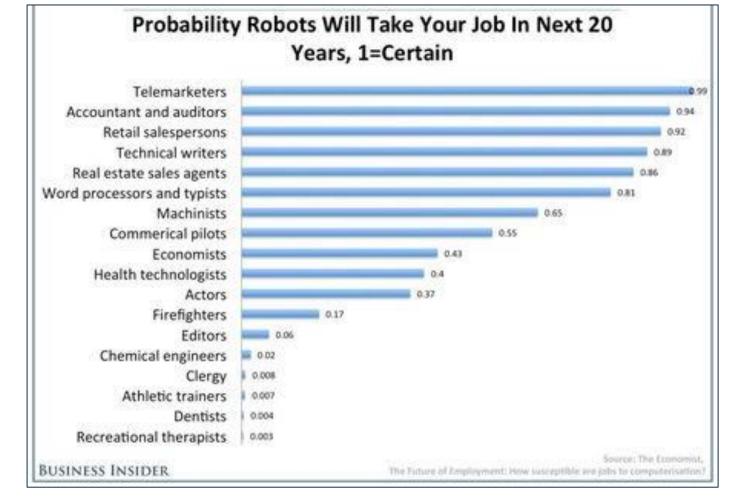
4x

46x

40x at peak

16,000x +





The Future Jobs Landscape —

The economic impact of robotic advances & Al

48% - robots & digital agents will displace significant numbers of blue- and white collar workers

inequality, significant numbers of unemployable people, breakdowns in the social order.

Will networked, automated, Al and robotic devices have displaced more jobs than they have created by 2025? 52% - technology
will not displace more jobs
han it creates. Lost jobs offset
by ingenuity creating new
occupations, & Industries.

Current social structures (e.g. Education) not preparing people for the skills needed in the future job market.

Opportunity to reassess society's relationship to employment?
Give time for leisure, self-improvement, or time with loved ones?

Source: Pew Research (2014)

The Future Jobs Landscape –

Which jobs are most vulnerable?

- → 47% of workers in USA had jobs at high risk of potential automation
 - Transport and logistics (taxi and delivery drivers)
 - Sales and services (cashiers, counter and rental clerks, telemarketers and accountants)
 - Office support (receptionists and security guards)
- > 35% of the workforce for UK, 49% Japan



"The impact of automation this time around is broader-based: not every industry was affected two centuries ago, but every industry uses computers today."

The Future Jobs Landscape — Automation of the global economy

- > 54 countries representing 95% of global GDP, 2,000+ work activities
- ➤ The proportion of jobs that can be fully automated by adapting currently demonstrated technology is less than 5%
 - > although for middle-skill categories could rise to 20%
- > 60% of all jobs have at least 30% activities technically automatable, based on current technologies
- ➤ Automation technologies could affect 49% of the world economy 1.1 billion employees and \$12.7 trillion in wages.
- hina, India, Japan, and USA—account for more than half of these totals.
- > Two+ decades before automation reaches 50% of all of today's work activities

Source: McKinsey Global Institute report (2016): Automation

The Future Jobs Landscape – Job Creation

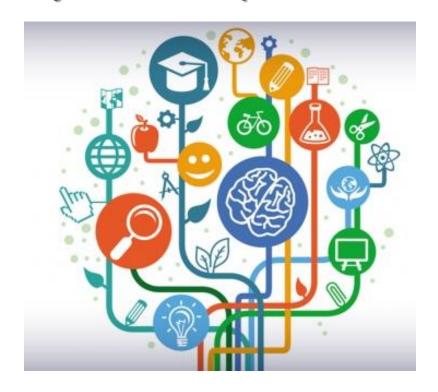
- Knowledge-enabled jobs become possible as machines embed intelligence and knowledge
- Accessible to less skilled workers
- Google India Internet Saathi (Friends of the Internet) program in which rural women are trained to use the Internet
- ➤ They become local agents providing Internet enabled services e.g. distributors for telecom products (phones, SIM cards, and data packs), field data collectors for research agencies, financial services agents, and para-technicians helping local people access government services



Source: McKinsey Global Institute report (2016)

The Future Jobs Landscape — An increasingly dynamic jobs landscape

- ▶ 65% of children entering primary school today will work in job types that don't yet exist
- ➤ 3.5 x as many jobs lost to disruptive labour market changes 2015–2020 than created
- Losses in routine white collar office functions, gains in Computer, Mathematical, Architecture, Engineering related fields
- ➤ Job categories and functions that they expect to become critically important by 2020:
 - data analysts leveraging big data and AI
 - specialized sales representatives commercializing and articulating propositions
 - senior managers and leaders to steer companies through the upcoming change and disruption

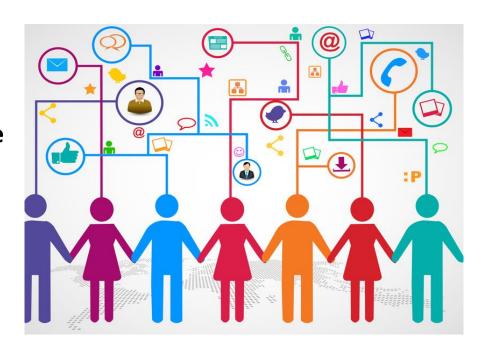


Source: WEF The Future of Jobs (2016)

The Future Jobs Landscape -

An increasingly dynamic jobs landscape

"By 2020, more than a third of the desired core skill sets of most occupations will be comprised of skills that are not yet considered crucial to the job today. Social skills — such as persuasion, emotional intelligence and teaching others—will be in higher demand across industries than narrow technical skills, such as programming or equipment operation and control."



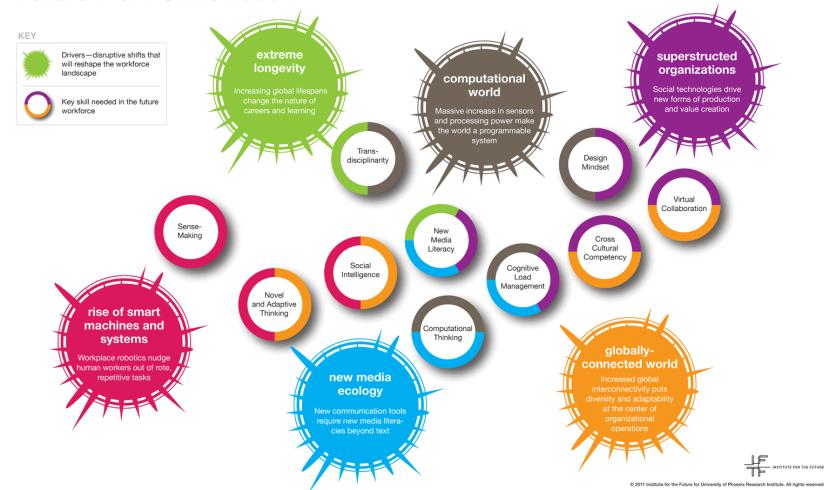
Source: WEF The Future of Jobs (2016)

21st Century Survival Skills



Future Work Skills 2020

While all six drivers are important in shaping the landscape in which each skill emerges, the color-coding and placement here indicate which drivers have particular relevance to the development of each of the skills.

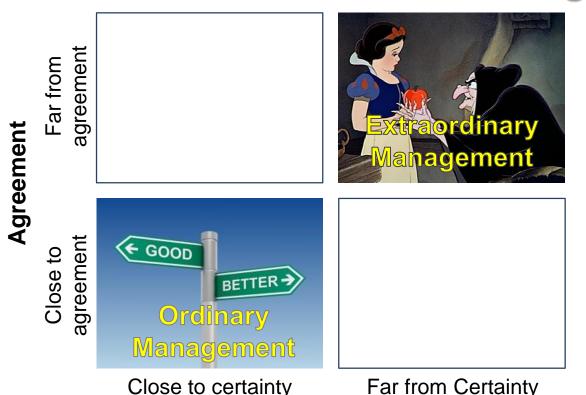


Characteristics of collaboration based upon the nature and clarity of the goals

Collective goals Nature of Goals COORDINATION **CO-CREATION** ndividual goals COOPERATION COMPETITION Uncharted & uncertain Clear & predictable

Clarity of Goals

The management style required when working in uncertain situations can be challenging



Certainty



What We Do

- Publishing books about the future
- Research tailored programmes and studies
- Consultancy strategy reviews, deep dives and capability development to build exponential organisations
- Inspiration speaking and leadership events
- Education future focused leadership development and executive coaching











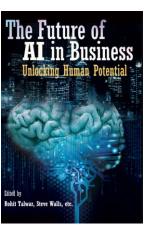
Publishing – Our Books



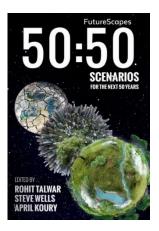
June 2015 19 Weeks 62 contributors 60 Chapters Top 5% of Business Books



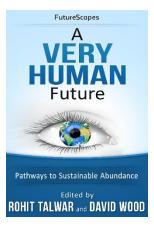
September 2016 12 Weeks Amazon Bestseller Within 2 Weeks



May 2017 25 Chapters



June 2017 50 Chapters



November 2017 25 Chapters

Contact: Steve Wells on +44 (0)7887 625310 steve@fastfuturepublishing.com www.fastfuturepublishing.com



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