

What do we mean by “Achieving Sustainable Development Goals through Science, Technology and Innovation”?

Jonathan Wong

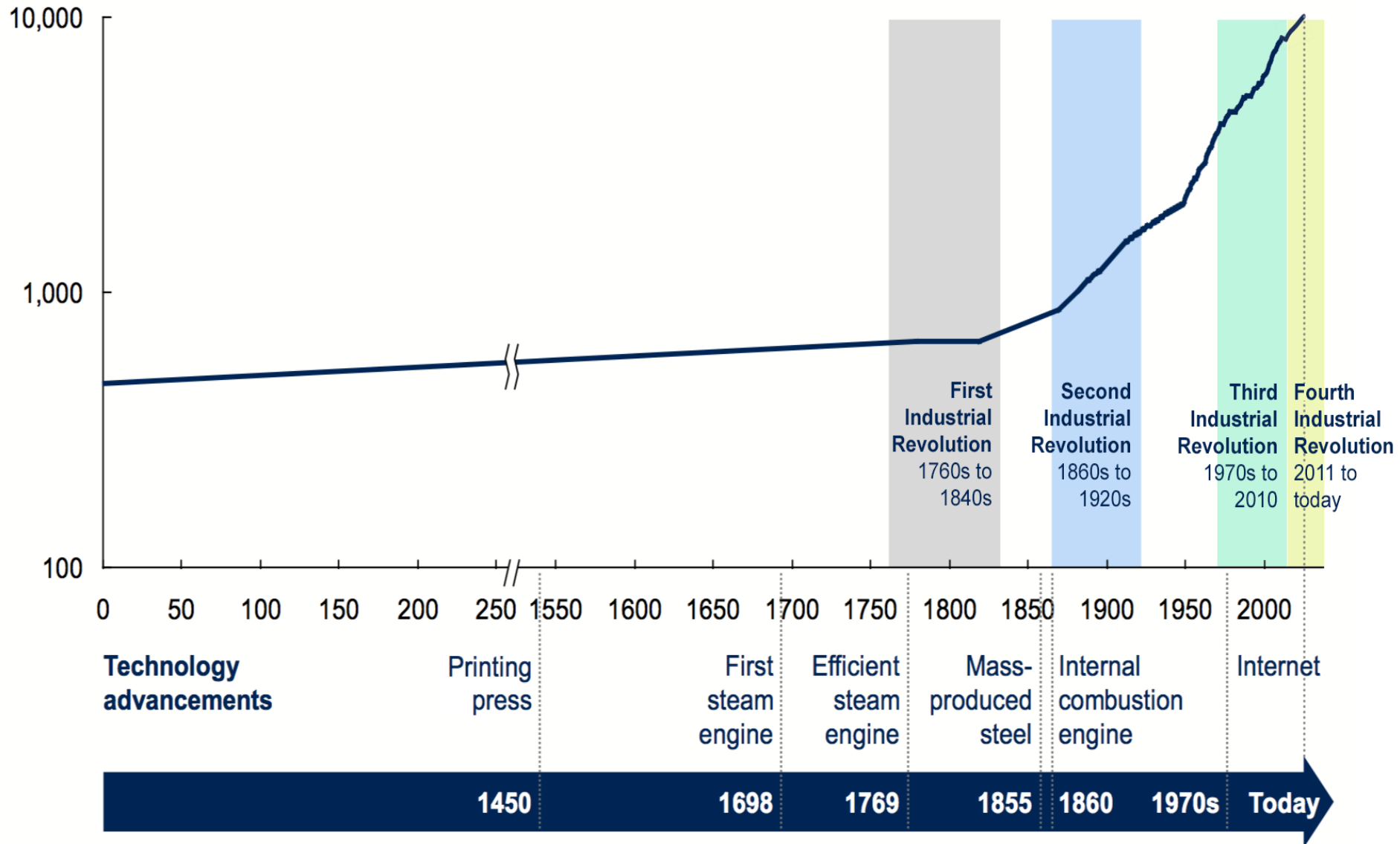
Chief of Technology & Innovation

United Nations Economic and Social Commission for Asia and the Pacific

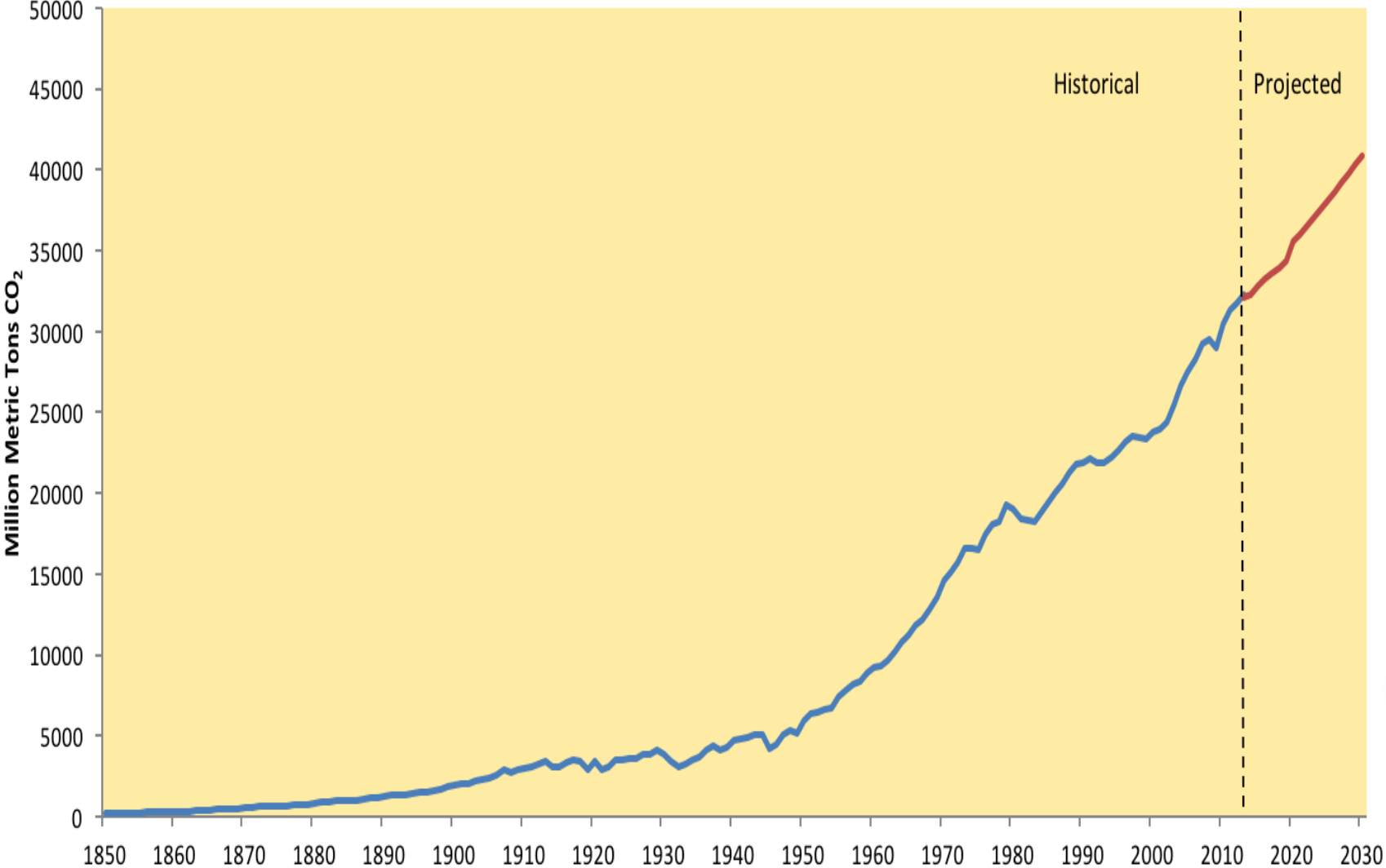
Twitter: @UN_JonathanWong

***STI for SDG's must positively impact
society and environment as well as
economy***

History has told that STI has been instrumental in economic growth

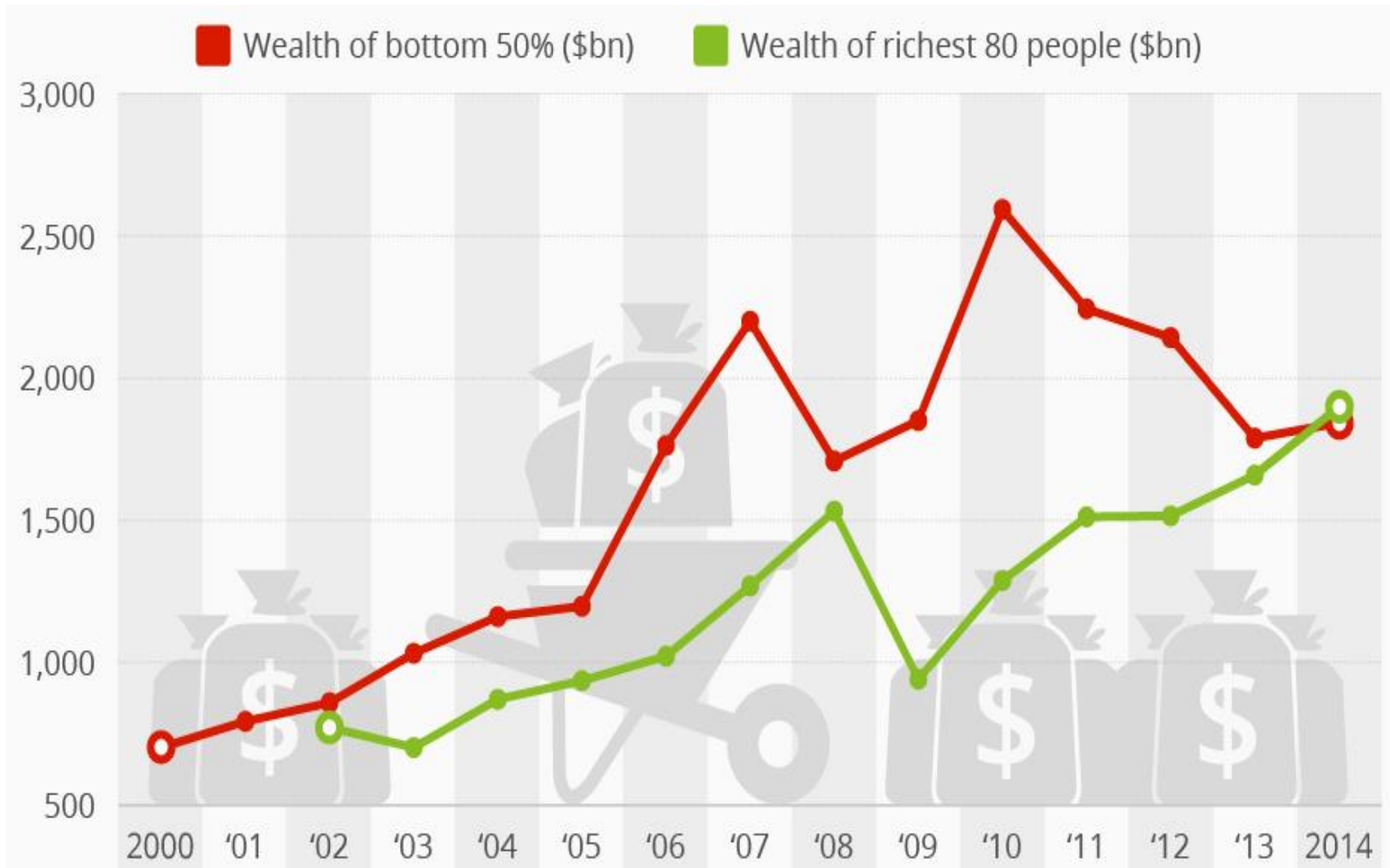


Global Carbon Dioxide Emissions 1850 to 2030



Source: Centre for Climate and Energy Solutions

World's 80 richest people have same wealth as poorest 50%



Sources: Oxfam, WEF, Forbes



SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

Society

Economy

Sustainable
Development

Environment





Book of Japan's Practices for SDGs

- Creating Shared Value by STI, Business
and Social Innovation -

(Winter 2018)

SUSTAINABLE
DEVELOPMENT
GOALS



HARNESSING SCIENCE,
TECHNOLOGY AND INNOVATION
FOR INCLUSIVE AND
SUSTAINABLE DEVELOPMENT
IN ASIA AND THE PACIFIC

UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific



INNOVATIVE FINANCING FOR DEVELOPMENT IN ASIA AND THE PACIFIC

Government Policies on Impact Investment
and Public Finance for Innovation

UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific



ST-PI

STI for SDG's must be inclusive

Inclusive innovation is the inclusion of marginalized people in the innovation process, and the development of products and services for marginalized people

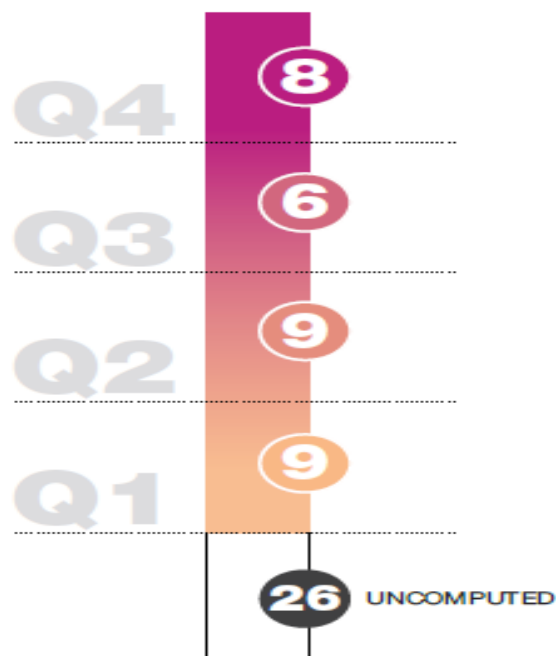


Mitticool was founded by a potter living in rural Gujarat who lacked formal education.

The company has grown nationally as well as internationally and is now trading in UK, US, Singapore and across Africa.



ASIA-PACIFIC IS DOING WELL BUT THERE IS GREAT DISPARITY AMONG DIFFERENT ECONOMIES



**GLOBAL INNOVATION INDEX 2015 Rankings:
Distribution of all Asia-Pacific countries**



**2014 ASIA-PACIFIC SHARES
FIXED-BROADBAND SUBSCRIPTIONS
8 COUNTRIES
OUT OF 51 ESCAP MEMBERS
ACCOUNT FOR
OVER 50%**

Impact and effectiveness

Collaboration not competition: could this be the future of development?

Amplify is the UK's Department for International Development's attempt to bring a truly innovative and collaborative approach to aid. Will it work?



627 2

Anna Leach

@avleachy

Tuesday 14 April 2015 10:11 BST



Research around the viability of an idea for improving women and girl's safety in Delhi, submitted for Amplify's first challenge. Photograph: Amplify

What's the best way to get fresh new ideas for development problems? If the collaboration between the UK government and a Californian tech company has got it right, we need to be encouraging different sectors to work together, rather than against each other.

"DfID has traditionally used competition as a driver for innovation," says Jonathan Wong, who is taking the lead on the project at the UK's Department for International Development (DfID). "Now the intention is to form interesting collaborations." He believes that innovation happens when different people with different perspectives work together. The aim is that this project will bring development professionals together with the private sector, tech startups, local experts and anyone else who has an idea and interest in solving the challenges.

How might we make low-income urban areas safer and more empowering for women and girls?



Do you want to get involved in this challenge?

We follow a process with phases. Currently we are in the Impact phase. You can participate by adding stories on the impact of this challenge.



PARTICIPATE IN IMPACT
2,584 days left

ATTACHMENTS (6)

[View more](#) ▾

WomensSafetyChallenge_InterviewToolkit.pdf

Interview Toolkit

CHALLENGE TEAM (1)

[View more](#) ▾



SPONSORED BY

AMPLIFY



The Amplify Program

Funded Ideas

Congratulations to our Women's Safety's Challenge Funded ideas and to our entire community for your efforts creating, collaborating, building and refining throughout the challenge! Funded ideas were selected by the [Amplify Team](#) and a panel of subject-matter experts reviewed each idea on the [Shortlist](#), to select a handful of initiatives based on where the program's support can have the greatest catalysing effect. Read more about the [Funded Ideas](#).

3 CONTRIBUTIONS

SORTED BY RANDOM



Engaging Men in Urban Slums in the Fight Against Gender-Based Violence

A peer-to-peer education campaign to encourage men and boys in Kenya about preventing gender-based violence. The curriculum will be delivered through soccer...



Community Concierge Program

Working together with an organization in Nepal, this project seeks to identify and train female leaders, who in turn provide information and guidance to other women in...



Kidogo: Child Care Franchises in Urban Slums

A 'business-in-a-box' that helps women in Kenya launch their own in-home childcare business – providing a safe space for children in the community and steady employment fo...



How might we apply new technologies to make agriculture and water systems more resilient in the face of climate threats?

SPONSORED BY



GoodCompany Ventures, Comcast machineQ



How might we combat health threats like Zika, SARS, Ebola and Malaria in bold, imaginative ways?

SPONSORED BY



USAID: Combating Zika and Future Threats Grand Challenge



How might we use technology to inspire all socioeconomic and multicultural groups to lead healthier lives?

SPONSORED BY



NBCUniversal, NBCUniverso and Telemundo

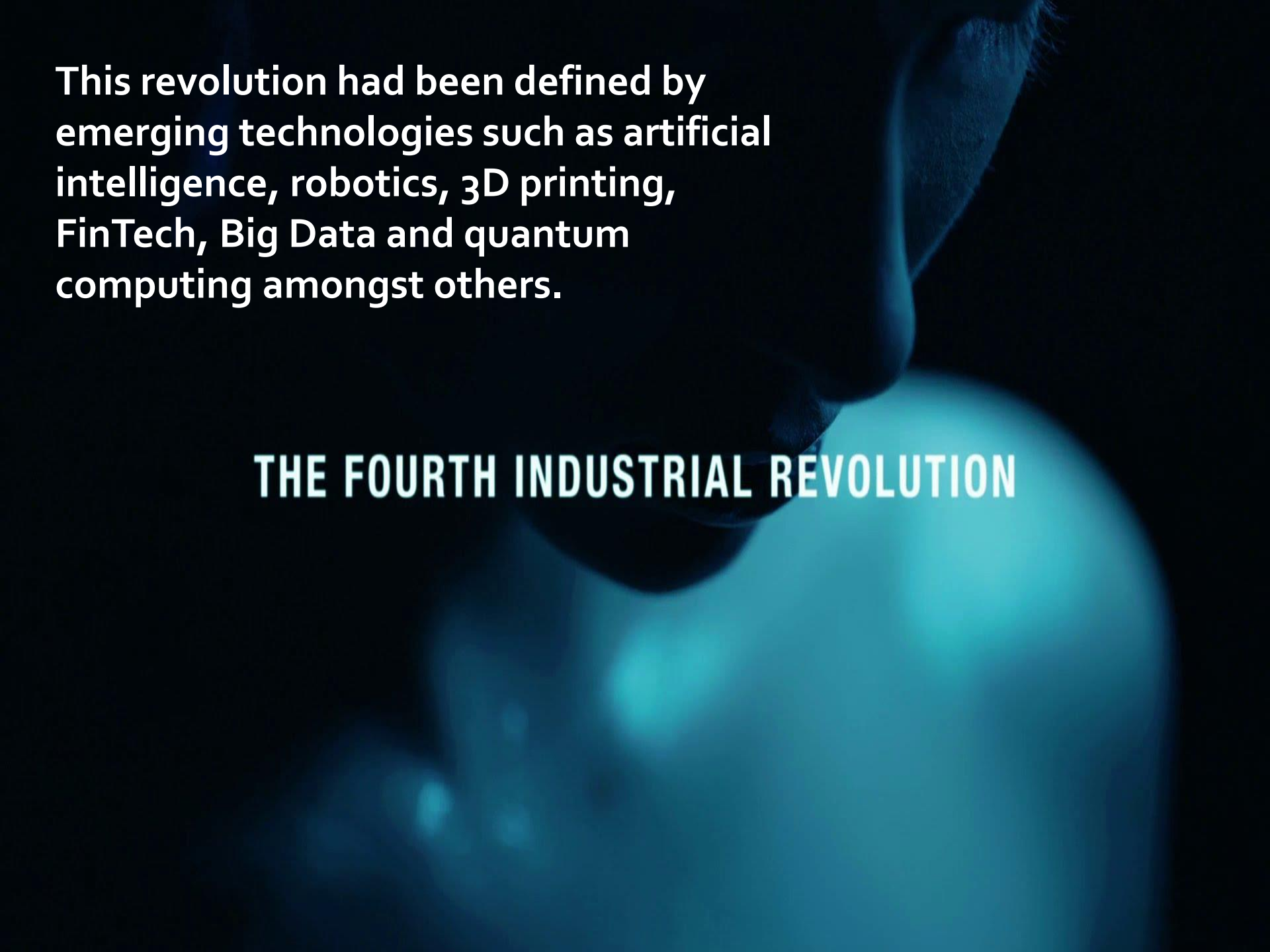


How might mobile technology help improve access to healthcare?

SPONSORED BY



Sandoz



This revolution had been defined by emerging technologies such as artificial intelligence, robotics, 3D printing, FinTech, Big Data and quantum computing amongst others.

THE FOURTH INDUSTRIAL REVOLUTION

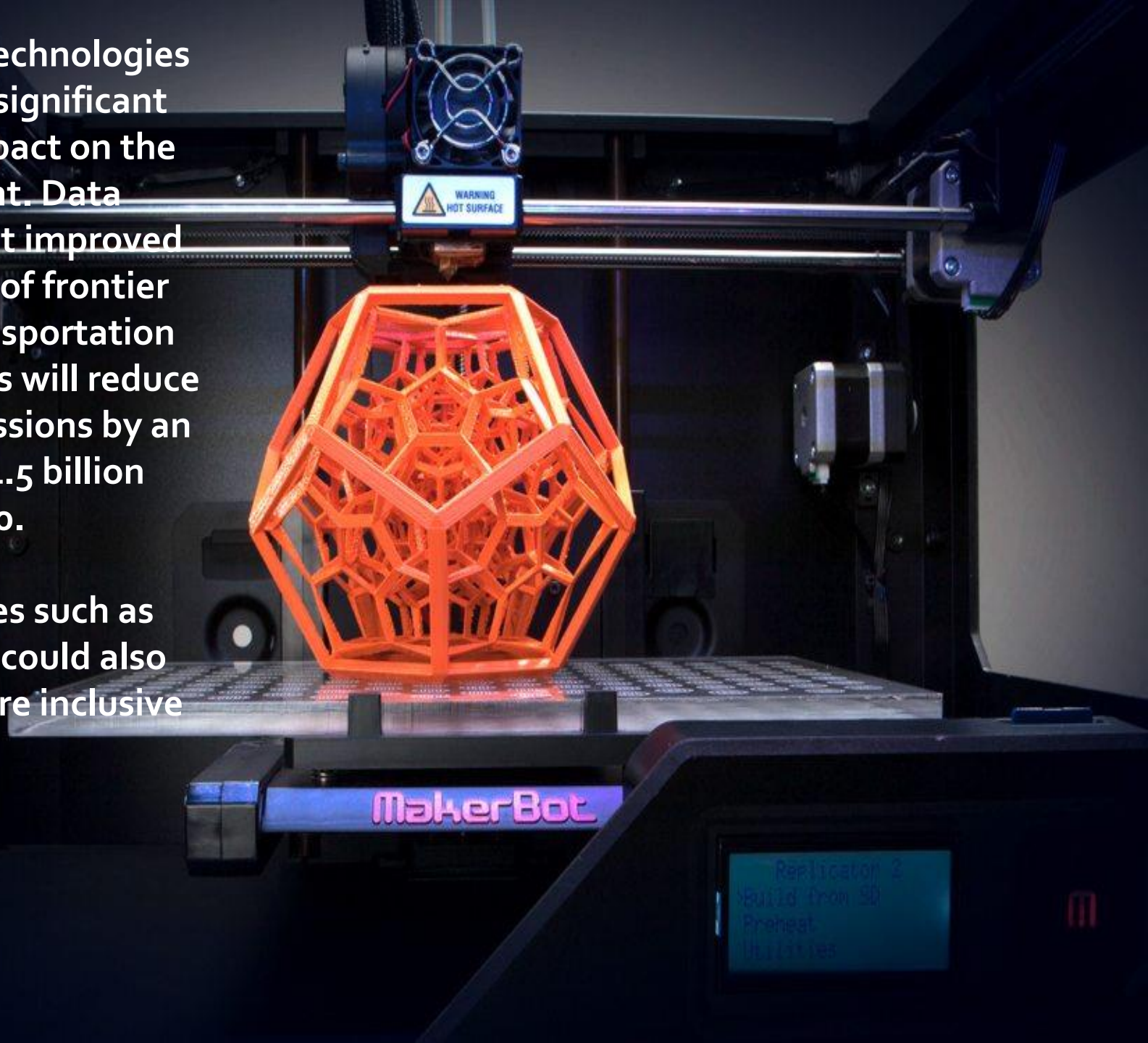


In considering only 15 major developed and emerging economies, the World Economic Forum predicts that emerging technological trends will lead to a net loss of over 5 million jobs by 2020.

Worldwide, this number will almost certainly be much higher.

Emerging technologies could have significant positive impact on the environment. Data suggest that improved application of frontier tech to transportation and logistics will reduce carbon emissions by an estimated 4.5 billion tons by 2020.

Technologies such as 3D printing could also support more inclusive trade.



What does a next generation technology and innovation policy look like for a 4IR future?

- Laying the foundations for frontier technological development;
- Developing a workforce fit for a 4IR future;
- Developing innovative regulatory frameworks;
- Incentivizing responsible frontier technology development in the private sector;
- Catalyzing the role of government in frontier technologies' evolution; and
- Creating a platform for multi-stakeholder and regional cooperation.

Key Policies Shifts – STI for SDGs

- STI for economic imperative versus socio-economic and environmental imperative.
- Access to privileged versus access to all.
- Competitive approaches to innovation to be complemented by open forms.
- National innovation system policies to be complemented by next generation technology policies fit for a 4IR future.

Role of UN ESCAP

- STI Think Tank
 - Policy advice
 - Platform for sharing regional and global expertise
 - Bespoke support for governments
 - STI Policy Network
-
- Innovation challenges linked to SDG's
 - Investment funds for women entrepreneurs and technologists



There is rich expertise in the region and UN
ESCAP stands ready to facilitate regional
collaboration and support ASEAN STI
efforts!!

Thank you!!

Email: jwong@un.org

Twitter: @UN_JonathanWong