

## Panel Discussion

# FROM DIGITAL EVOLUTION TO ROBOT REVOLUTION?

HUMANITY, COMMUNICATION, ETHICS

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## **Scott E. Fahlman**

Scott E. Fahlman is Research Professor in Carnegie Mellon's School of Computer Science (SCS). Scott is a Fellow of the Association for the Advancement of Artificial Intelligence (AAAI).

Scott accidentally founded what we call as a smiley today, the world's simplest and the most powerful communication brand today.





## **Annalisa De Luca**

Annalisa De Luca is the Digital Transformation Lead at the Italian Olympic Committee, the national governing body for sports, and at the Rome Tennis Masters where she is responsible for digital and social media strategies, with a focus on fan engagement, data culture and content.

She co-lectures Sports & New Media and she is the author of several publications.





## **Evgeny Kuznetsov**

Evgeny Kuznetsov is a renowned Russian expert in communications and PR campaigns

He is the Deputy CEO - Director of Project Management Office at RVC, a government fund of funds and a development institute of the Russian Federation, one of Russia's key tools in building its own national innovation system.





## **Vidhu Shekhar**

Vidhu Shekhar is a PHD Fellow Student at Indian Institute of Management Kolkata, India's oldest and most prestigious business school.

He is a passionate Economist who has been working on deconstructing the very basics of interaction between economics and society across several topics such as Herd Behaviour, Communications and Strategy, Polity, Inequality and Developmental Economics.



# #digitalevolution #digitaldrivers

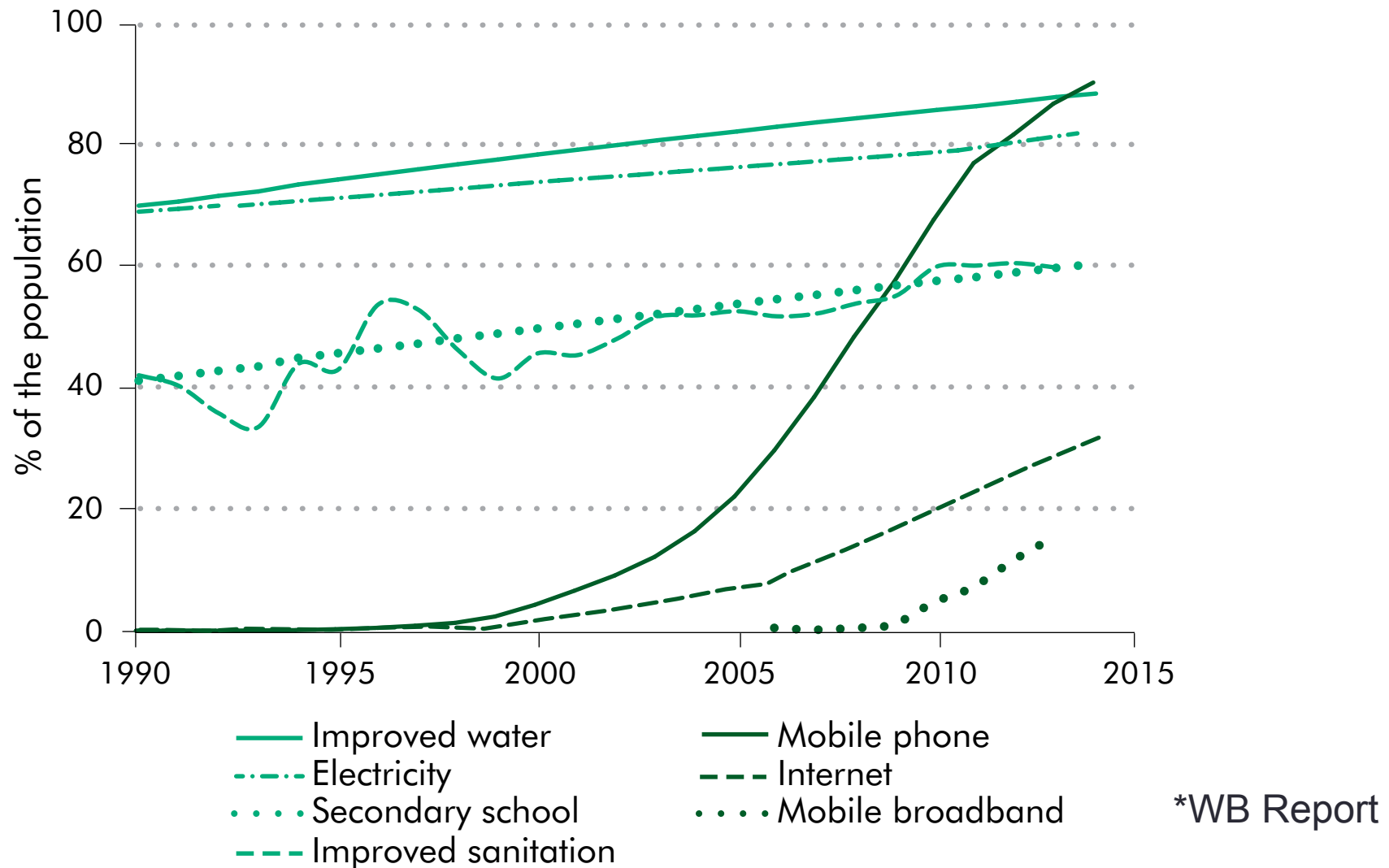
The key underlying drivers and barriers that govern a country's evolution into a digital economy

**Demand, Supply, Institutional Environment and Innovation.**

# **#digitalevolution #thenextbillion #digitaldivide**

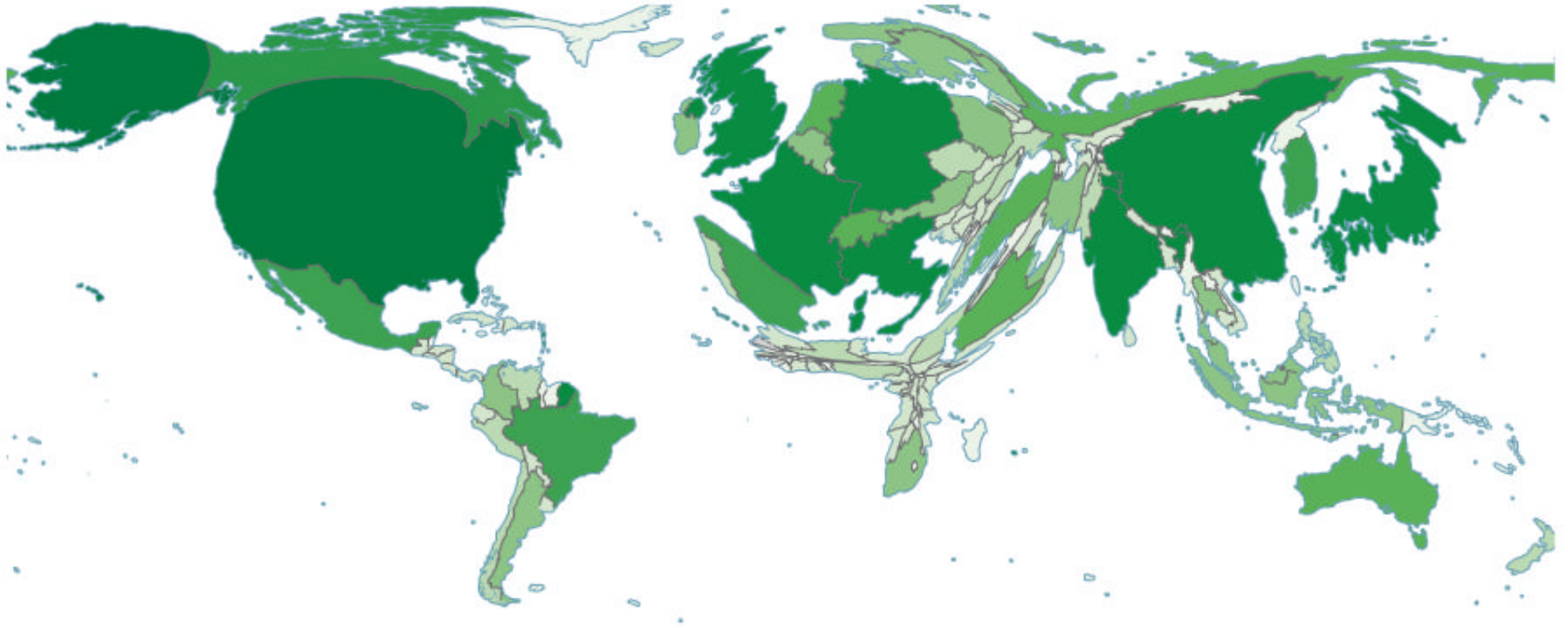
The next billion Internet users, logging on in an era of near-universal mobile connectivity, offer promise of greater economic growth and increased business opportunities.

## Digital technologies are spreading rapidly in developing countries



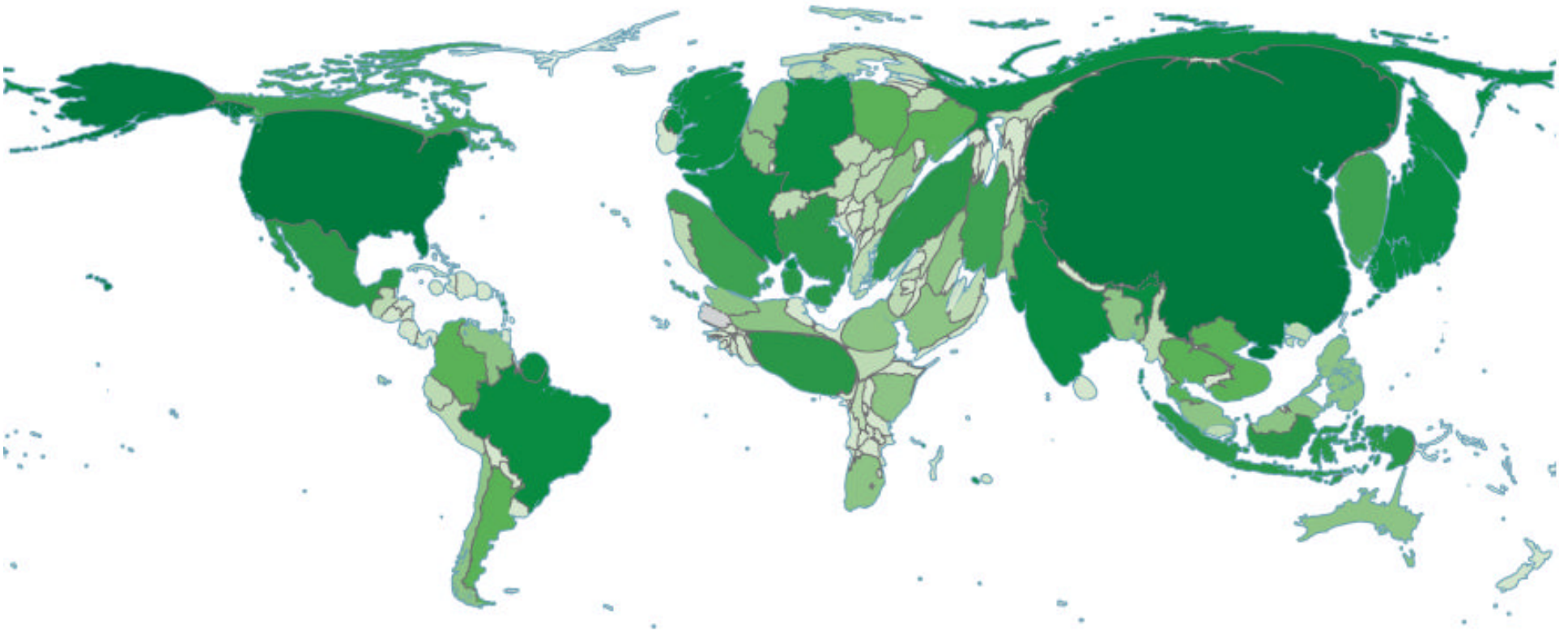


## The Internet is more evenly spread than national income



Based on national income 2014

## The Internet is more evenly spread than national income



Based on internet population 2014



**#digitalevolution #socialmedia #identity  
#bigdata #digitalmoney**


## **Four Big Enablers of Digital Evolution**

Digital Finance

Social Media

Digital Identity

Data Revolution



Robotics today are what the internet  
was 20 years ago.

**#robotrevolution #industry4.0 #iot  
#communication #ethics #artificial intelligence**

## **Four Big Enablers of Robot Revolution**

Industry 4.0

Knowledge Economy


Internet of Things

Communication and Ethics

A hungry man is an  
angry man



A research done at Columbia Business School showed judges in a court of law tend to be more draconian in the run up to lunchtime and more lenient once they have eaten.



The odds of an inmate receiving a favorable decision started at 65%, first thing in the morning, then steadily dropped to roughly zero just before the snack break. Favorable rulings popped back up to 65% when the judge returned, then slid down to zero again just before lunch. The same pattern appeared post-lunch.



## #robotrevolution #industry4.0

Enthusiasts for the rise of robots argue that they can overcome the foibles and fallibilities of human workers.

The use of robots  
in a number of industries  
**has more than tripled**  
in the past five years.





# RISE OF ROBOTS

## WHAT THE FOUNDATION FOR RESPONSIBLE ROBOTICS SAYS:

- ▶ We are rushing headlong into the robotics revolution
- ▶ No consideration for the many unforeseen problems

## CONCERNS:



**WARFARE:** Rise in automated weapons. Should machines be allowed to kill humans?

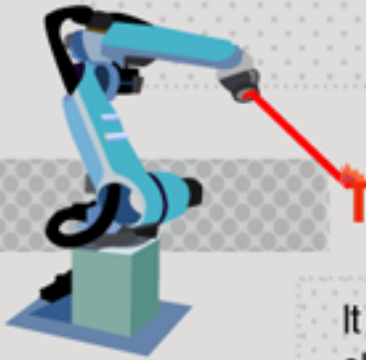


**HOUSEHOLD TERROR:** Rise in service robots can lead to neglect, vulnerable to cyber-attacks



**JOB JOLT:** Mass use of robots will inevitably lead to mass job cuts

**Vital Fact:** International Federation of Robotics says 31 million so-called “service robots” expected by 2018.



## THEY TOOK OUR JOBS!

It is estimated that by the year 2025, robots will have taken over nearly one-half of all jobs in the United States. In certain job sectors, robots may even completely replace human workers. Here are a few industries that would be hit the hardest:

INDUSTRY USE:



### AUTOMOTIVE

**13 MILLION** JOBS  
LOST TO ROBOTS



### MANUFACTURING

**22 MILLION** JOBS  
LOST TO ROBOTS



### FOOD SERVICES

**9 MILLION** JOBS  
LOST TO ROBOTS

**#WCFDavos2025 #robot revolution  
#communication #artificialintelligence**

Out of 300 participants at the WCF, there are 100 robots out of which 20 are participating as speakers.

Will they replace us as well?

# #digital evolution #robotrevolution

While digital evolution is fast integrating the world, the robot revolution could be responsible for disintegrating it.



**#robotrevolution #humanrobotinteraction  
#communication #artificial intelligence**

Can communication solve the problems of the future,  
caused by disruptive technological innovation?

How will humans communicate within themselves and  
how will they communicate with machines?

## **#robotrevolution #communication**

**The need for better quality of communication is greater than ever. There is more quantity today than quality.**

The biggest challenge perhaps would be that humans would have to teach robots how to communicate like humans.

# #robotrevolution #communication

A research shows that large portions of the miscommunication in human robot interaction can be attributed to ill-timed, lacking or irrelevant feedback from the robot.

**But that's not too different from human to human communication.**



# #robotrevolution #ethics #morality

Would humans be willing to accept robots that question their moral judgments and take their advice?

**In the race to built robots to perform human jobs, the bigger risk could be humans not robots.**

## **#robotrevolution #humanrobotinteraction**

Communication will evolve from Human Human Interaction (HHI) to Human Robot Interaction (HRI) and Robot Robot Interaction (RRI).

**Imagine your personal robot having her own Facebook account to improve its social skills, or a social media designed for robots.**



**#robotrevolution #karma #smartphonerobots  
#service robots**

**There are only three kinds of people/robots in this world:**

Those who work (Service Robots, Karma!)

Those who talk (Interactive Robots, Smartphone Robots)

Those who do both (Humans or Robots?)

धन्यवाद

감사합니다 Natick

Grazie Danke Ευχαριστίες Dalu

Thank You Köszönöm

Tack

Спасибо Dank Gracias

谢谢 Merci Seé  
ありがとう

Obrigado



# THANK YOU

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