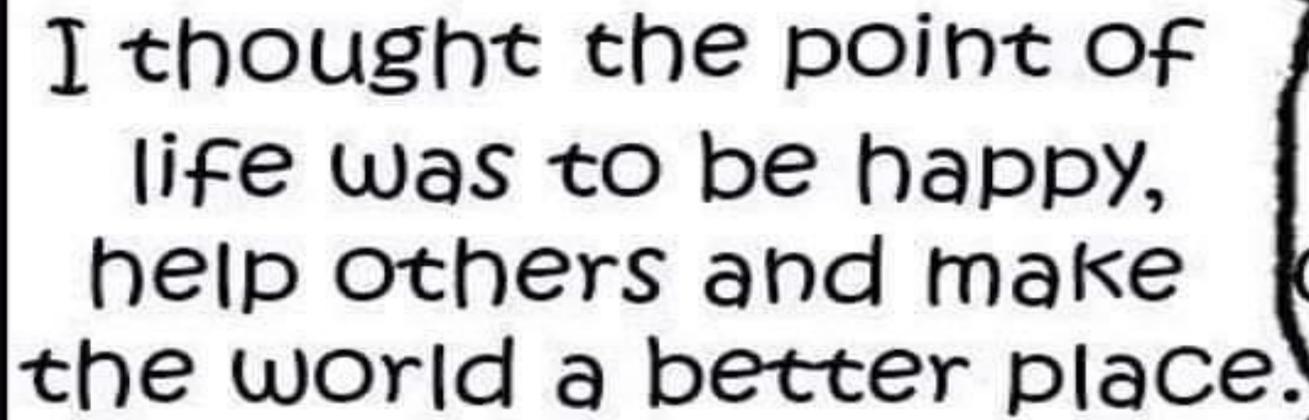




# Leverage technology

---

And add value



I thought the point of life was to be happy, help others and make the world a better place.

I guess you're right, but we all can't become teachers.





# Technology

---

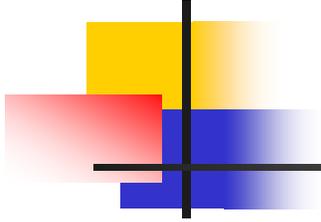
What it is doing and how that will affect us



# The Future of Education

## Sugata Mitra





So, what do we  
need teachers?

**We don't.**

“47% of jobs are at risk of being automated in the next 20 years”

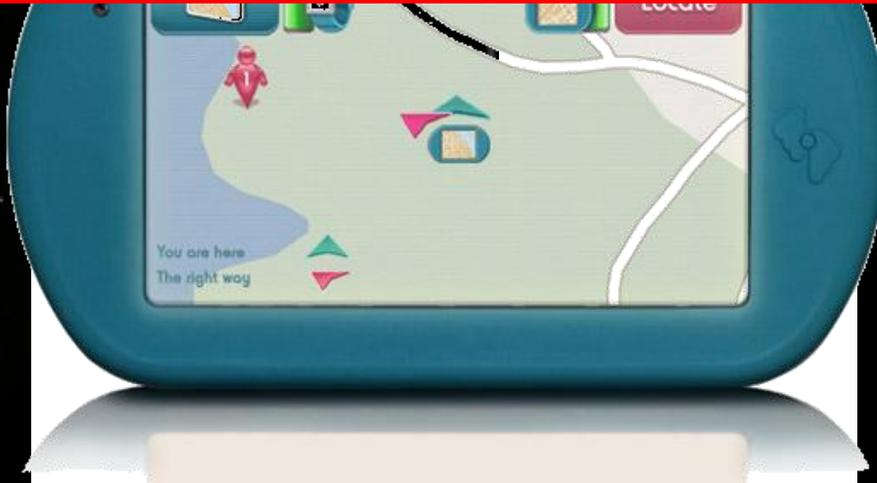
Carl Frey & Michael Osborne, Oxford University

“The future of employment and how susceptible are jobs to computerization”



# Imagination

CONTRAST:  
SE:2  
IM:42  
10:14:52



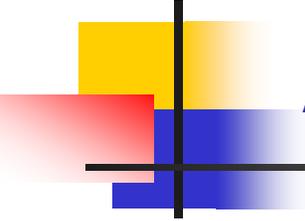
L  
1  
3  
1

DFOV250  
TILT:0  
-62.25  
1.25mm

1001806

A178

CONTRAST:  
SE:2  
IM:44  
10:14:53



# AI –Artificial Intelligence

---

1. Machine learning will replace humans in repetitive work
2. IBM Watson gives legal advice in seconds, with 90% accuracy versus 70% accuracy of humans
3. IBM Watson diagnoses cancer 4 times more accurately
4. Self-driving cars & trucks & homes on solar energy

**Millions of jobs will be lost because our education is redundant**

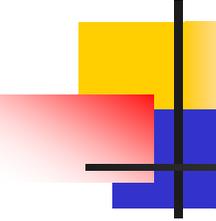
# Global changes

1. Robotic manufacture, agriculture, insect protein – **Reflect on this! Thanks to this!**
2. Medicine: Device that fits into your phone, takes retina scan, blood sample, etc. into it. It then analyses 54 biomarkers to tell you if you have any disease.
3. Advanced biotechnology will allow you to make or replace organs. Life expectancy will be around 115 to 125 years

**Does our education prepare us for this new world?**

# Nigerian Teenagers





# What we must empower URGENTLY

---

1. Imagination, innovation, creativity, curiosity, disagreeing respectfully, risk taking, freedom
2. Integrity (no plagiarism), kindness, responsibility
3. Change testing method: From random-access memory, to understanding and application

**We must change and re-learn first or risk redundancy**

Regurgitating undigested food is called vomit. Regurgitating undigested information is called passing exams.

*Yaman Baig*

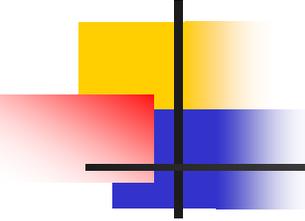
# Today's skewed tech link

1. Maximize margins & slash costs
  1. Maximize productivity
  2. Minimize costs
2. Human jobs that will be eliminated

**Who Pays?**

“...rise up before robots do.”

Ray Macafee, 'The Second Machine Age'

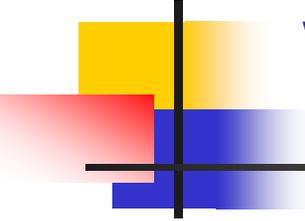


# Essence of it all

---

1. Faster and easier access to information
2. Hugely enhanced computation power, information storages and hugely fast searches
3. Potential to forecast scenarios, prepare for eventualities, predict outcomes, options
4. Potential to control, influence, track, help, network, leverage, surveillance, security, share, empower and earn

**Benefits only for those who can learn**

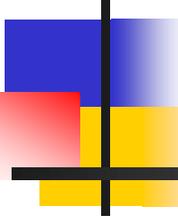


# What will change?

---

1. Huge convenience in all areas and cheap services
2. Loss of jobs for all generalists in all areas
3. Current education is redundant already
4. What we teach and how we teach must all change
5. Empower imagination, curiosity, self-learning, interpersonal skills, decision making, responsibility

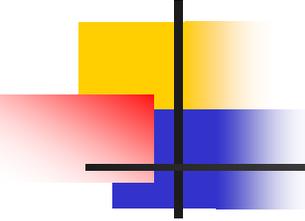
**Above all, empower kindness**



# What will change in teaching?

---

Danger & Opportunity

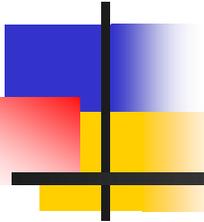


# Coping with change

---

1. Anything that can be automated, will be
2. Knowledge is freely accessible – no entry barriers
3. Value-add to what students can learn on their own
4. Change testing methods – focus on application, not memory alone
5. Be role models of ethics and values – earn respect

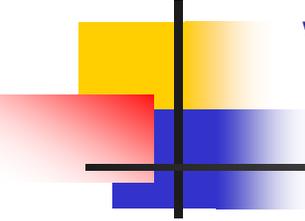
**Asking the right questions is our only role**



# Teach through Projects

---

Because knowledge and people  
are holistic

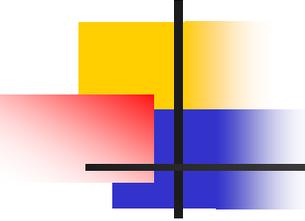


# Why Projects?

---

1. Projects are a wonderful way to teach because they encourage participation from students
2. Choose a topic; then teach multiple subjects with that topic as the base
3. Let them explore and discover – just ask the right questions

**Make learning practical and applicable**



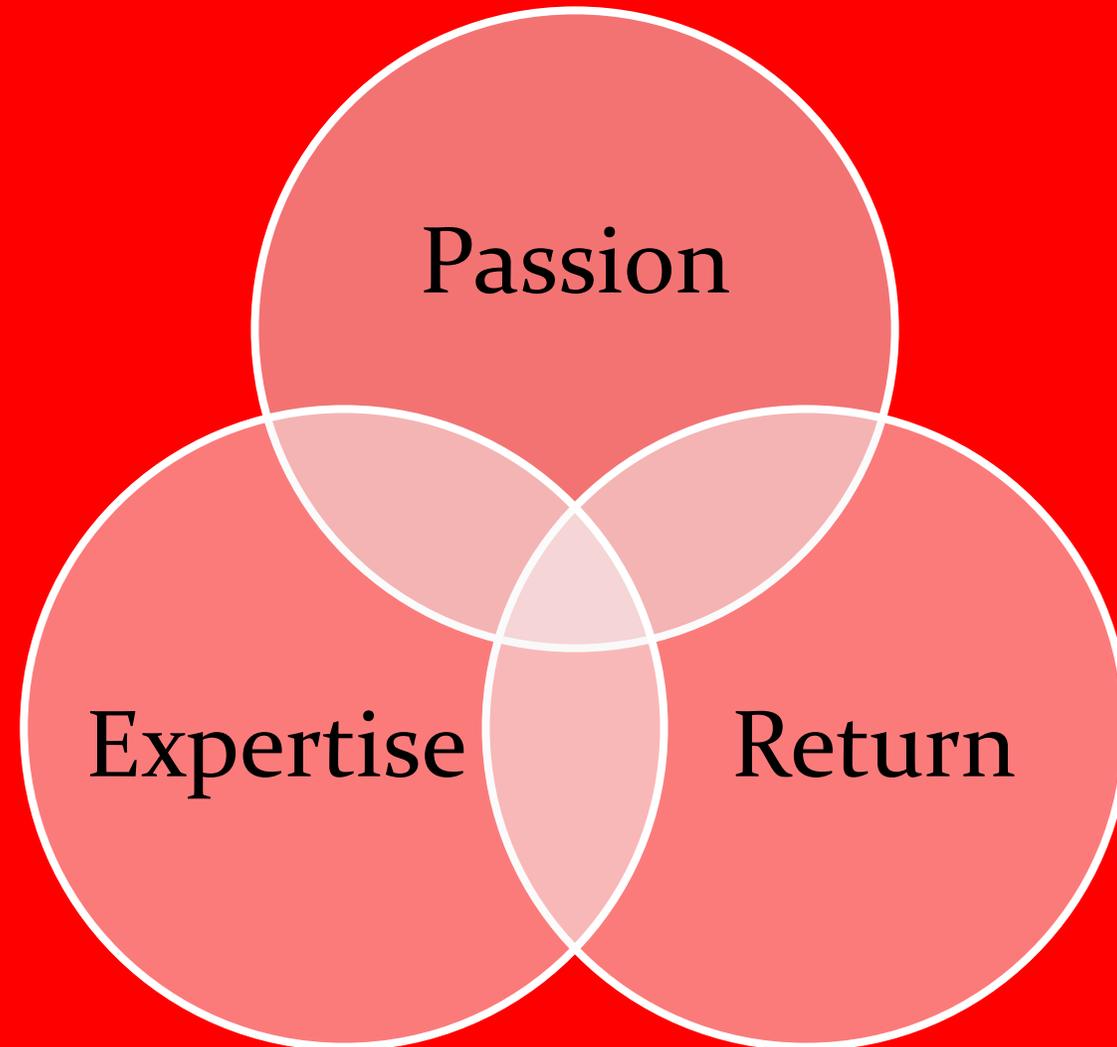
# Project: Oceans

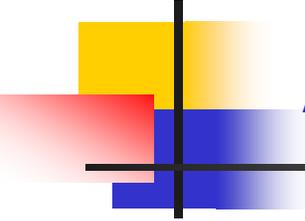
---

1. Biology: Marine plants & animals
2. Physics: Displacement floats ships
3. Chemistry: Why is sea water salty?
4. Tides, effect of the moon
5. Wave energy, desalination
6. Trade: Routes, goods, cultural & population change
7. Geography: Navigation: Orienteering, sailing,
8. History: Maritime history of nations

Go sailing, make salt, catch fish, camp by the sea

Success is where opportunity meets  
preparedness

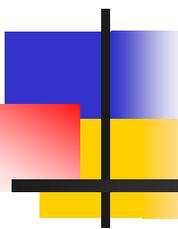




# Action Plan

---

1. How would you use technology to enable students to learn better, research deeper and design and test application ideas?
2. Please suggest three action steps that you can take to enable this in your institutions
  - 1.
  - 2.
  - 3.



Glad to hear from you

---

[www.yawarbaig.com](http://www.yawarbaig.com)

[yawarbaig@gmail.com](mailto:yawarbaig@gmail.com)