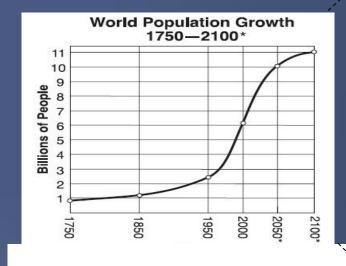
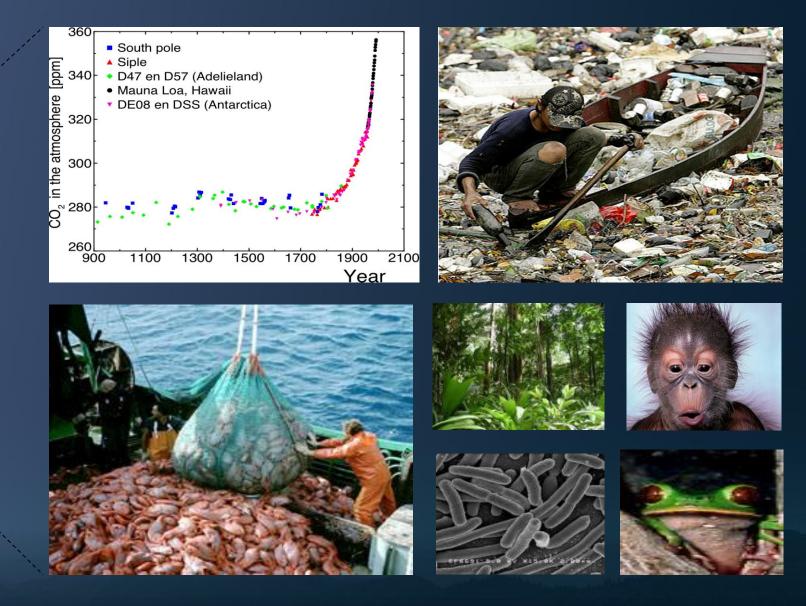


Creating 'green solutions' implies that we have the answers.

Our real value is to develop tools to **ENABLE** solutions.





ITS ALL CONNECTED

Technology Tools

Performance of Hardware, **Unlimited Storage**



Digitization of the Economy Breakthroughs, Natural User Interface

Broadband, Mobility, New Devices, Form Factors, High Fidelity Displays









Healthcare



Communication



Science & Engineering

Entertainment





Education



Energy & Environment

LONG-CYCLE TRENDS DRIVE INNOVATION

Responsible Environmental Stewardship Accelerate Research Breakthroughs

New Collaboration Across Borders







HOW WE THINK ABOUT THE CHALLENGE



Evolution of the disappearing datacentre

1989-2005 2007 2008 2010+

Generation 1



Colocation



Capacity ~2 PUE 20 year Technology

Generation 2



Density



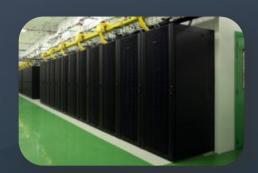
Rack

Density and Deployment 1.4 – 1.6 PUE Minimized Resource Impact

Generation 3



Containers



Containers & Pods

Scalability and
Sustainability
1.2-1.5 PUE
Air & Water Economization
Differentiated SLAs

Generation 4



Modular



ITPAC (Pre-Assembled Components)

Reduced Carbon, Rightsized 1.05-1.20 PUE Faster Time to Market

Driving to a Simplified Datacenter

From Science Project







ITPACs: built recycled materials. PUE 1.05 – 1.20. Garden hose of water

Microsoft partnership with UNEP and UN Habitat in Nairobi



ICTs to accelerate development, adaptation and mitigation





Microsoft















 4.4 jobs new per member 1,500 Enablis entrepreneurs networking and learning together from eleven chapters across Africa located in South Africa, Kenya, Tanzania, Rwanda and Ghana.



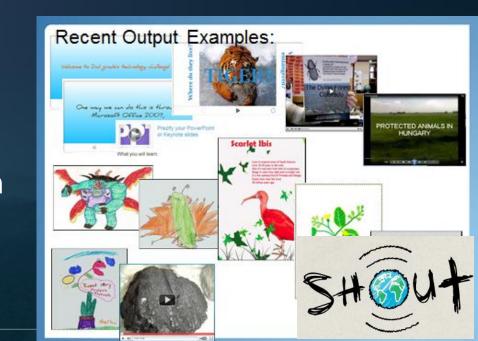
World Wide Innovative Education Forum 2010 Winner

Innovation in Community

Best Practice: Samuel Avornyor (Ghana), "Rural Food

Processing Industries

Shout launched November 2011 in S. Africa currently around 5000 classrooms participating teaching children about their local environment



Reducing e-waste





There is a decades-old practice of overbuilding computer systems. Many companies will miss the opportunity to make their IT operations more agile, cost effective, and sustainable, which can lead to massive reductions of cost, energy and material wastage in their data centres.





Microsoft