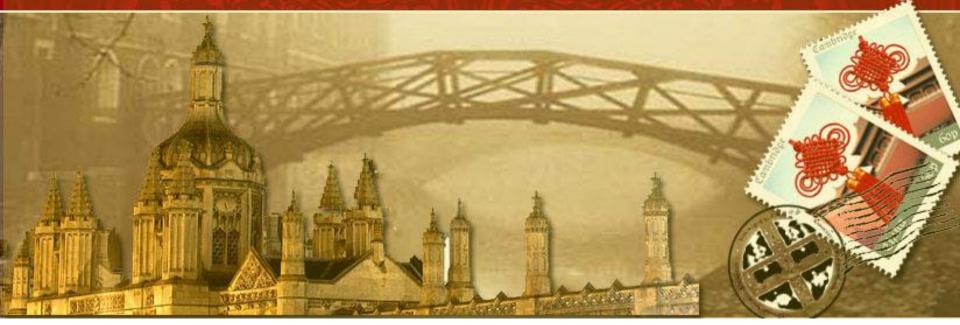
#### Chinese Students & Scholars Association in Cambridge



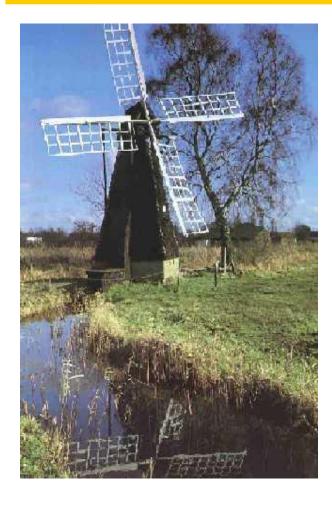
#### China and The World in the "Age of the Entrepreneur"

#### **Opportunities for Global Growth as** *East Meets West*

Professor Alan Barrell September 21<sup>st</sup> 2008 – Darwin College, Cambridge





















Trinity College's History and Scientific Development – Cambridge *Pride* 

- Trinity had a strong scientific tradition\*
- First use of the word
   "scientist" 1835 (Whewell)
- First European Science Park
   1970 Dr Sir John Bradfield

\*Alumni include Newton, Clerk-Maxwell, Rayleigh, Thomson, Walton, Rutherford, Aston, Lyle, both Braggs, Bohr, Hopkins, Klug, Kendrew

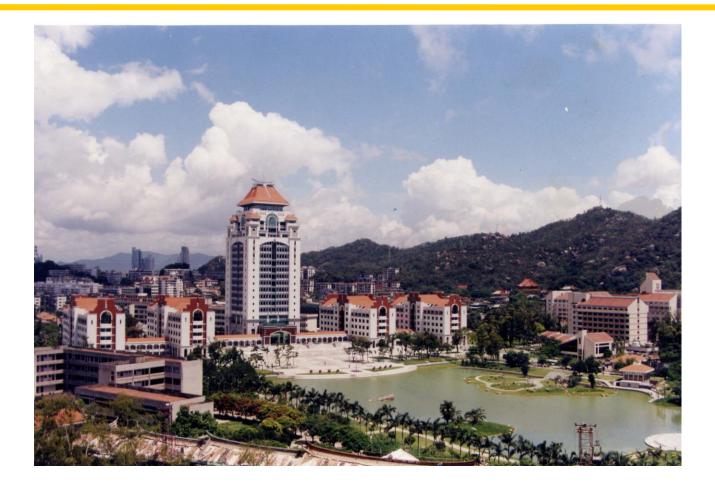


















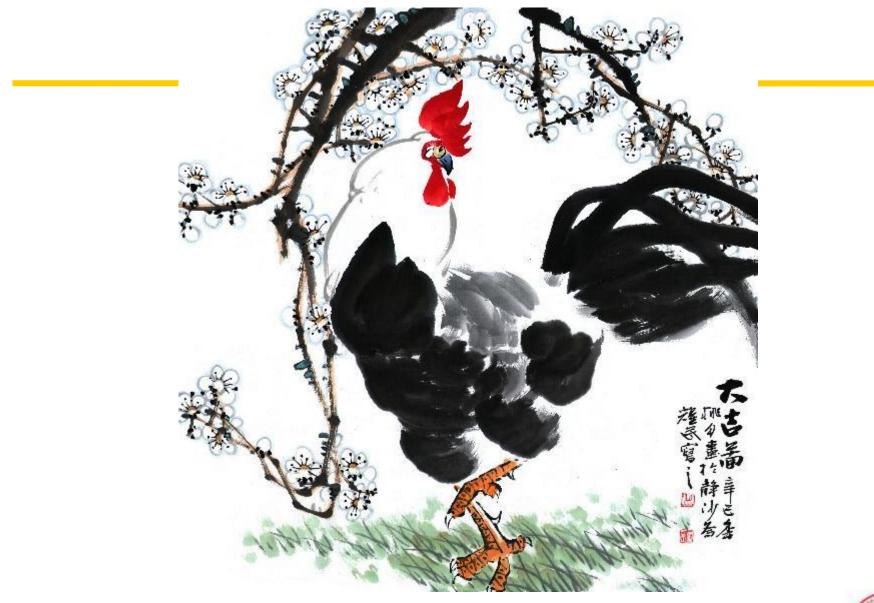


















## Think Like Chinese





THE FEDERATION PRESS



#### **Our Agenda**

- Today's Meanings What IS *Globalisation*?
- CHANGE there's a lot going on !
- Continental Contexts and Comparators The Americas, Europe ( "old and new"), The Middle East, Africa and Asia
- And What IS an Entrepreneur ? Is the "entrepreneurial mindset" important ? HEROES – A lot about some of them
- Attitudes and Postures Partnerships and Competitiveness
- "The Tiger and the Elephant" China and India
- The Future what WILL Globalisation be ? What will it mean?
- Globalisation, People, Companies and Society Reflections – Words for <u>The Next Generation</u>





#### **Globalisation – What is it ?**

- Dictionaries have NO definition !
- GLOBAL Chambers English Dictionary "Spherical, worldwide, affecting or taking into consideration the whole world or all peoples"

Coca Cola and McDonalds would like this definition !





# Globalisation and Anglobalization – were the British responsible ?

 Richard Cobham – British Businessman, Politician and Economist – mid 1840s.....

"An economically determined phenomenon, in which the free exchange of commodities and manufactures tends to unite mankind in the bonds of peace"

"A damnably resilient international capitalism"

Anon





## NIALL O Ferguson

'The most brilliant British historian of his generation' The Times

## EMPIRE HOW BRITAIN MADE THE MODERN WORLD



THE INTERNATIONAL BESTSELLER



Slide 15

#### **George Bush on Globalisation**

- "Well,....we in the US have the best system we call it DEMOCRACY!" It is GREAT for ALL the World !
- But we have our views and standards as True Democrats !( even us Republicans !)
- The PEOPLE have a voice, which we expect to reflect our beliefs !
- Why the "nether regions" of the world don't understand our Democratic Values – is a puzzle to me !
- We KNOW our system is THE BEST ! We **KNOW** !
- America is leading the World and will do so for ever and ever ! - AMEN





#### The Economist

FEBRUARY 26TH-MARCH 4TH 2005 www.economist.com

New cheer for the Tories BAGEHOT, PAGE 36

The damage to Sinn Fein

Universities as global businesses PAGES 77-79

Al-Jazeera and the Arab media battle PAGES 23-25







#### The Economist

Set Oxford free

Italy, the sick man of Europe PAGES 11 AND 74

Time to revalue China's yuan PAGES 10 AND 85

INTERNATIONAL BANKING

#### **Damaged goods**

The world's best variety still needs improvement

www.economist.com

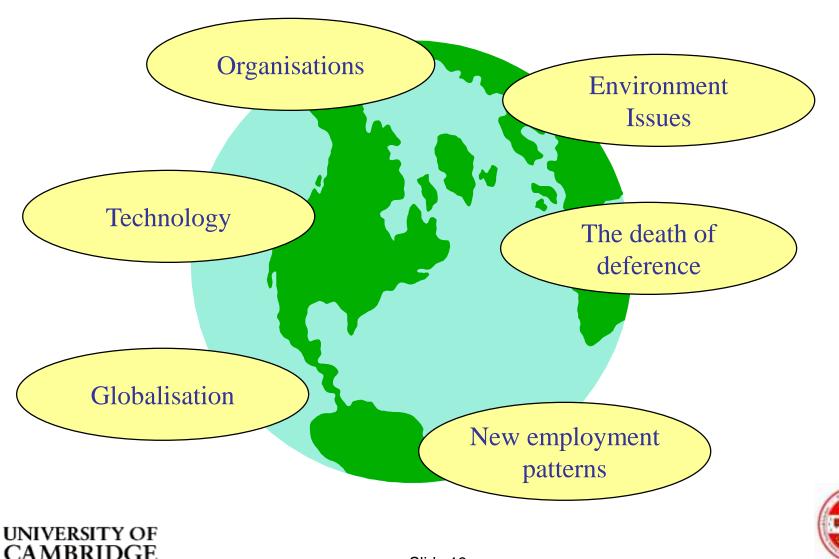






Slide 18

#### **The Changing Horizon**



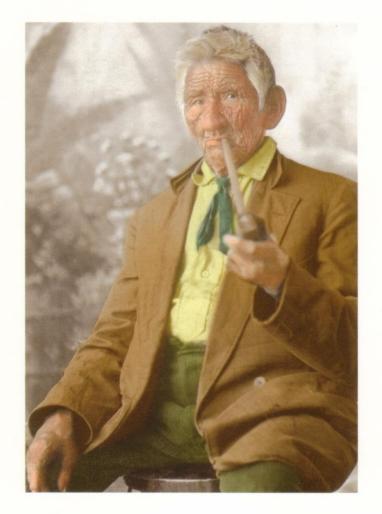
#### The World in Transformation – Changes coming ever Faster

- Speed of Communication Removal of Distance
- Globalisation and EU Enlargement
- Sources of Security
- Flattening of Structures Networks not Heirarchies
- Entrepreneurial Opportunities
- Impact of Technology
- New Skills Learning
- Permanent "temps"
- Shifting Values and Changing Social Structures
- Rise of Asian Superpowers China and India and developments in South America and Eastern Europe.





If I had known I was going to live this long I would have taken better care of myself







#### **Sources of Competitiveness**



Slide 22

#### **The Competitive Threat**

"Today's Peacock is tomorrow's feather duster" But...Co-Opetition may be better than Competition....







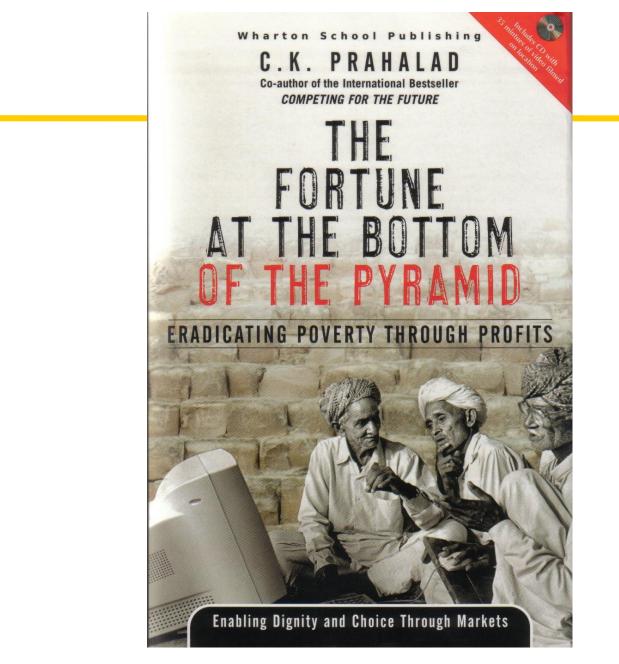
#### The Changing Face of Globalisation

- Two fifths of the Worlds people live in the two fastest growing large economies – China and India – FACT
- Education, Wealth Creation and New Knowledge are at the heart of Economic Planning in Asia
- Rapid moves to Rand D based Economies
- "Liberating Minds"













# RISING ELEPHANT

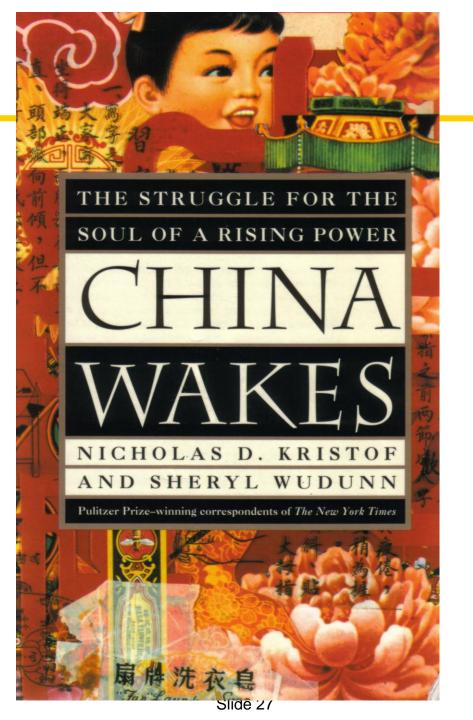
THE GROWING CLASH WITH INDIA OVER WHITE-COLLAR JOBS AND ITS CHALLENGE TO AMERICA AND THE WORLD

#### Ashutosh Sheshabalaya



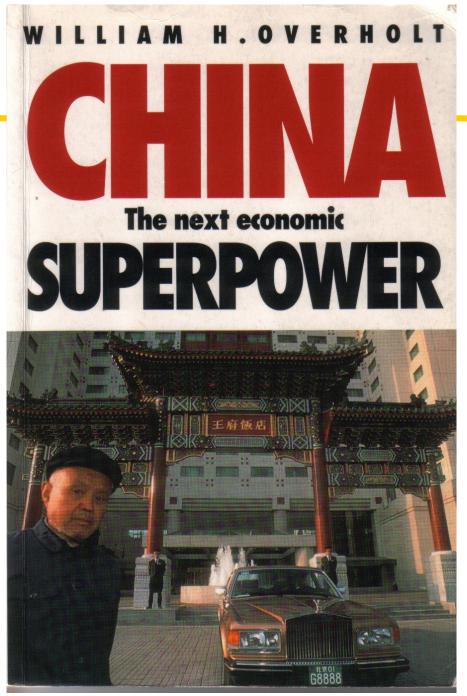


Slide 26













#### Some Economic Indicators – How are key Countries doing?

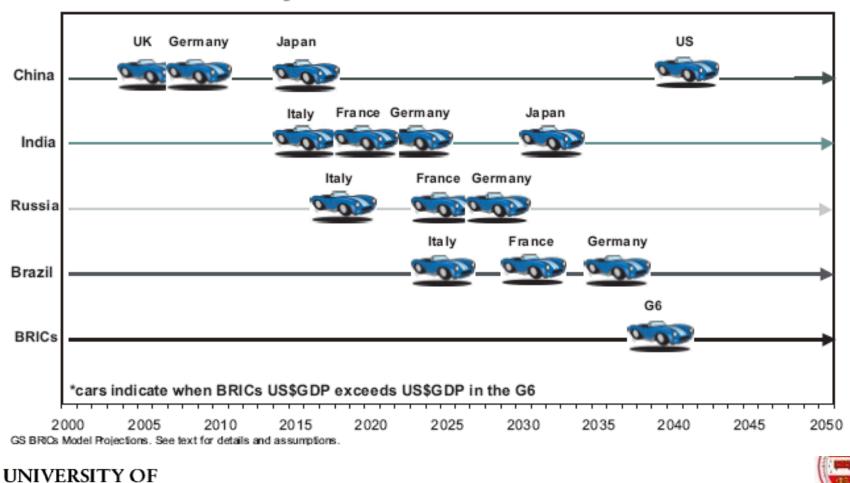
	GDP % Change	Ind. Prod. %	Trade Balance US \$ Bn	Foreign Reserves US \$ Bn
China	+ 9.5	+ 8.9	+ 51	1.8 Trillion plus
India	+ 8.8	+ 8.0	- 25	150
Britain	+ 2.9	+ 0.1	- 49	
Euro Area	+ 2.1	+ 1.0	+ 86	
USA	+ 3.9	+ 3.5	- 679	

- Can the trend continue?
- Do the Trade Balance differences matter? India and China?





#### India/China Vs The G6

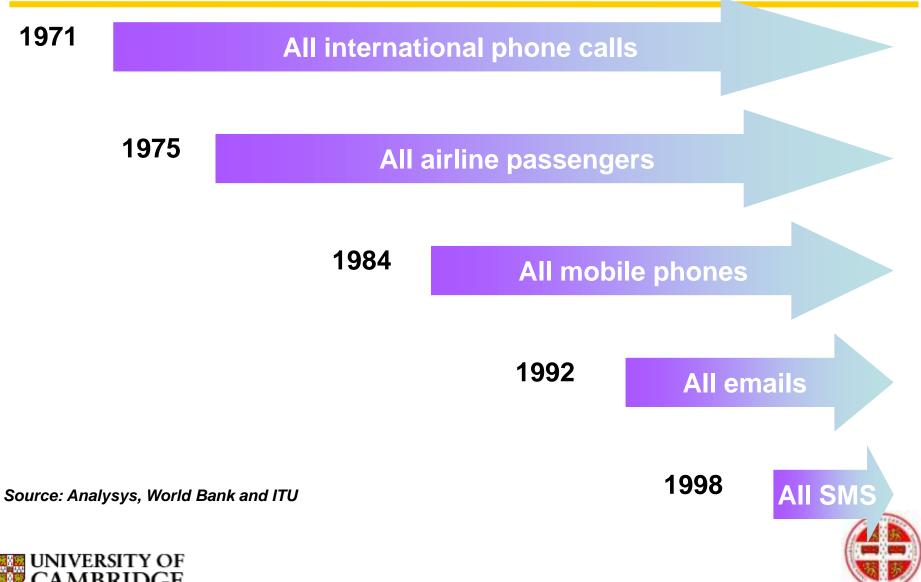


Overtaking the G6: When BRICs' US\$GDP Would Exceed G6

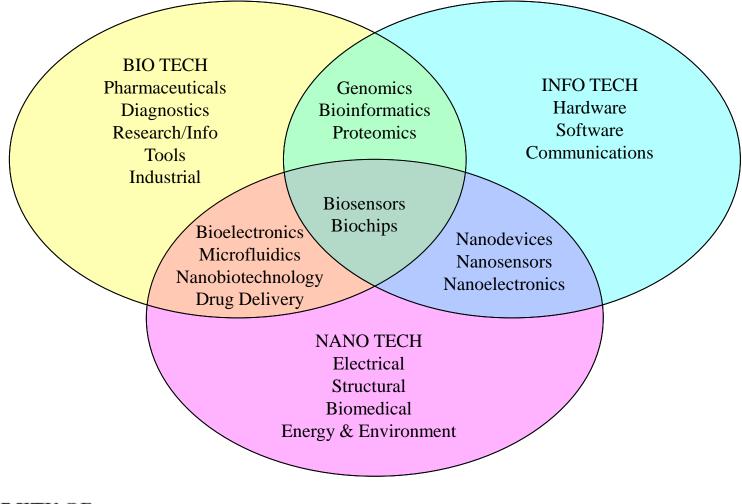
Slide 30

AMBRIDGE

#### <u>Technology</u> – and the Pace of Development – Traffic in ONE Day in 2003 ....



#### Three Converging Revolutions Three Pervasive Technology Platforms







#### **Innovation and Invention**

### "90% of all the scientists born in the human race are alive today"

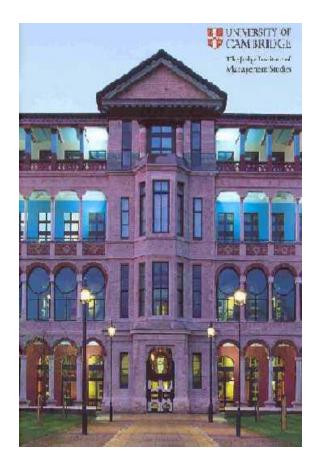
Prof. John Story - INSEAD







#### Characteristics of High Technology Regions- Catalysts for Growth



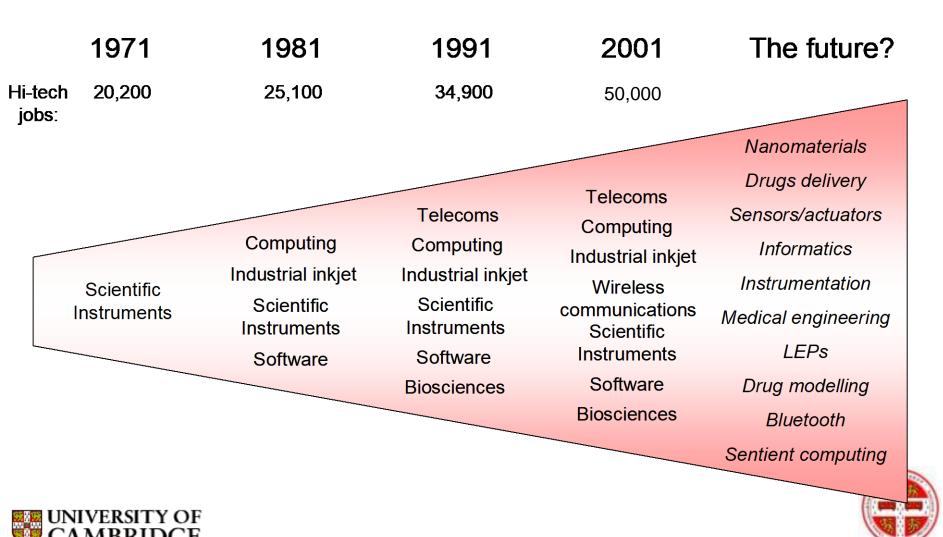
- Universities and centres of academic excellence
- Exploitable, converging Technologies
- Entrepreneurs with marketable ideas and products
- Business angels and established seed funds
- Sources of early stage venture capital
- Core of successful large companies
- Quality management teams and talent
- Supportive infrastructure
- Affordable space for growing businesses
- Access to capital markets
- Attractive living environment and accommodation

source :- Gibbons - Stanford University 1998

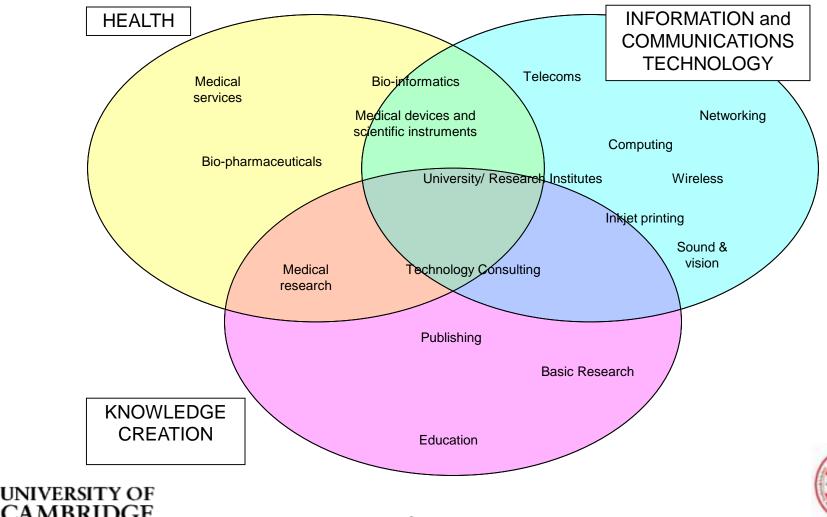


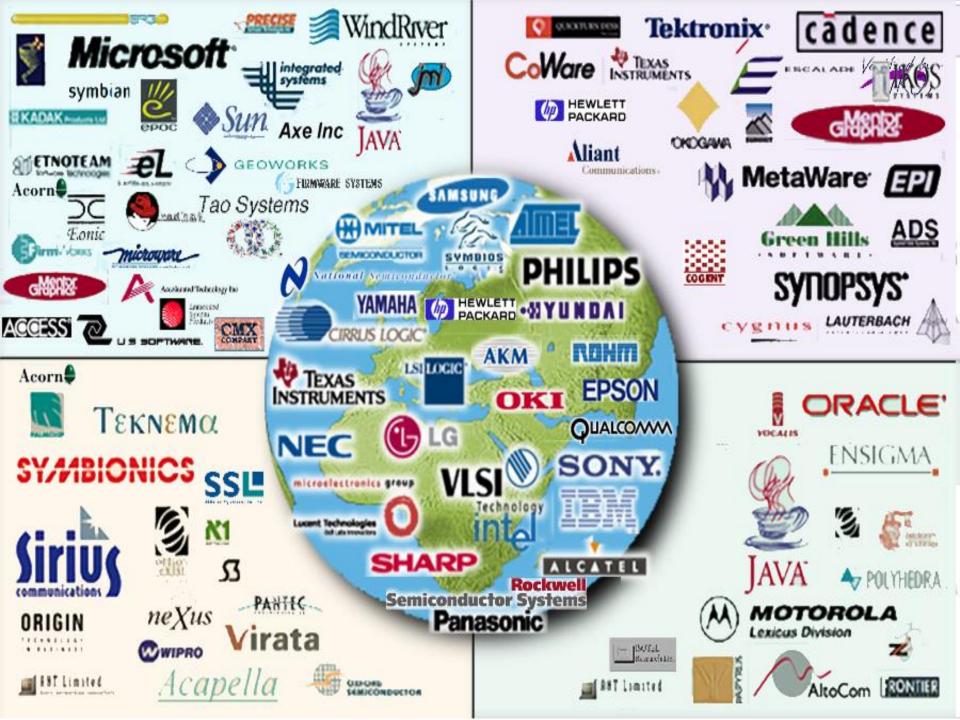


# The emergence of high-technology clusters in Greater Cambridge

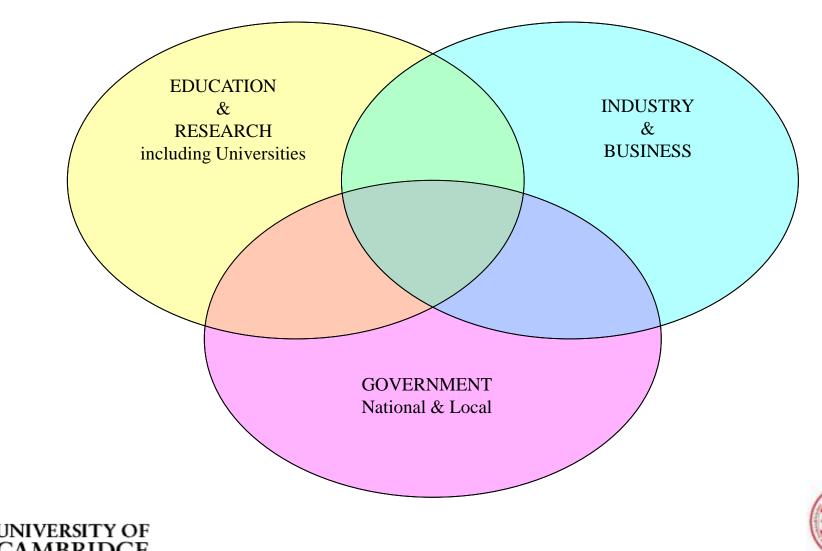


#### Overlapping Technologies support Overlapping Business Clusters



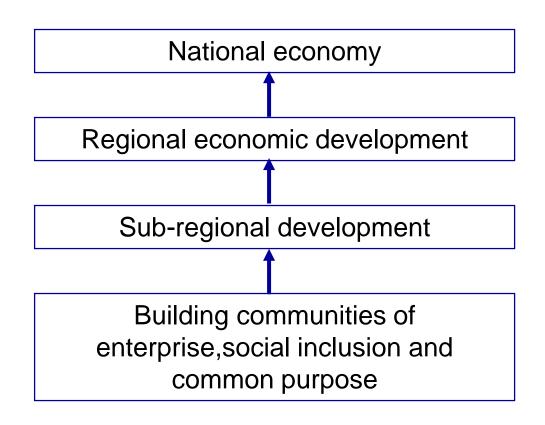


#### **Converging Interests and Influences** Innovating in the Overlap and Adding Value – working together – Essential Partnerships



Slide 39

Building an Enterprise Society. Networking and Communities – Manageable Units – working where real PEOPLE can influence things – ANYWHERE in the World





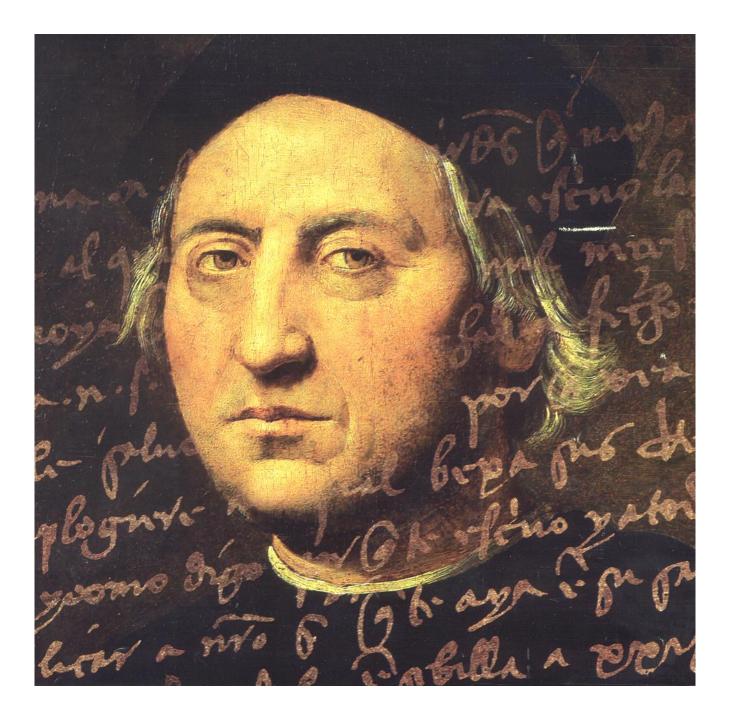


## Do HEROES change World ? – what are they good at? .....could it be....

- Exploring.....
- Discovering....
- Risking.....
- Believing.....
- Creating.....
- Changing.....
- Enabling.....
- Visualising.....









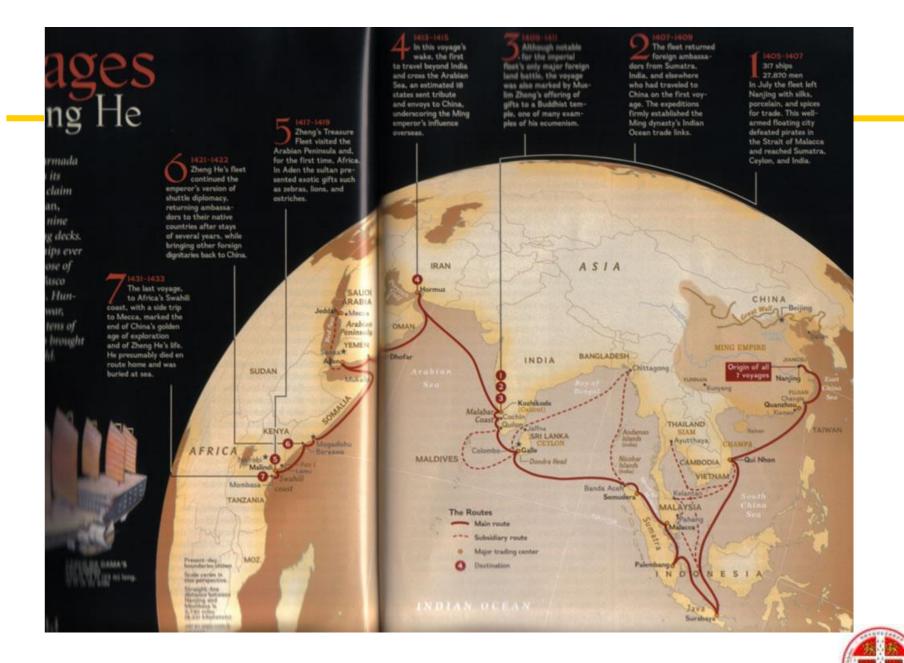














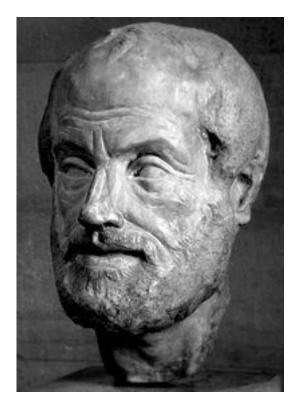
#### Pericles – "First Citizen of Athens" – Soldier, Thinker, Leader, "Culture, Beauty, Glory"

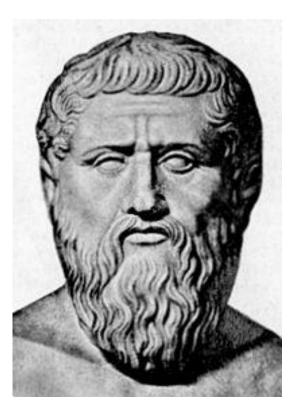






#### Aristotle – Plato – "Before their time – Thinkers, Philosophers, Leaders"









### And about the same timein China....The subject of the first of the 2008 Reith Lectures on BBC Radio....







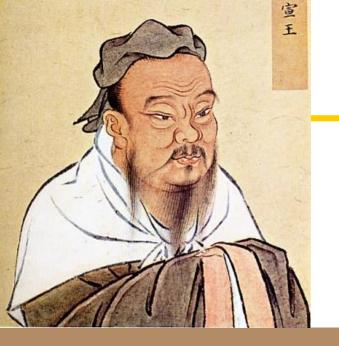
#### **Confucius on Wealth**

# "Virtue is the root; Wealth is the consequence"

#### Confucius, 500 BC





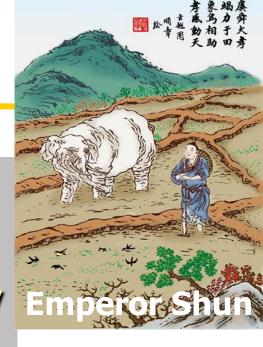


#### The Book of History





"允执厥中"
"To Impartially
Adhere to the
Middle Way"







#### Why MINDSET matters – what's an Entrepreneur ?



"You look at things and ask - why? but I dream of things that never were and ask why not?"

George Bernard Shaw





#### **Joseph Schumpeter (1911)**

#### "Entrepreneurs blow gales of creative destruction."

Role of the entrepreneur in transforming economies by developing:

- New products
- New methods of production
- New ways of organizing
- Untapped raw materials
- Enhanced competitive performance





#### The drivers for change....Socio-Political....Entrepreneurial Influence ??....

(Prof Shai Vyakarnam – Cambridge 2008)



Berlin Wall Hasselhof





India

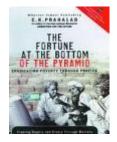
China



Migrations Within and into Europe



Single Economic system





Completely new markets

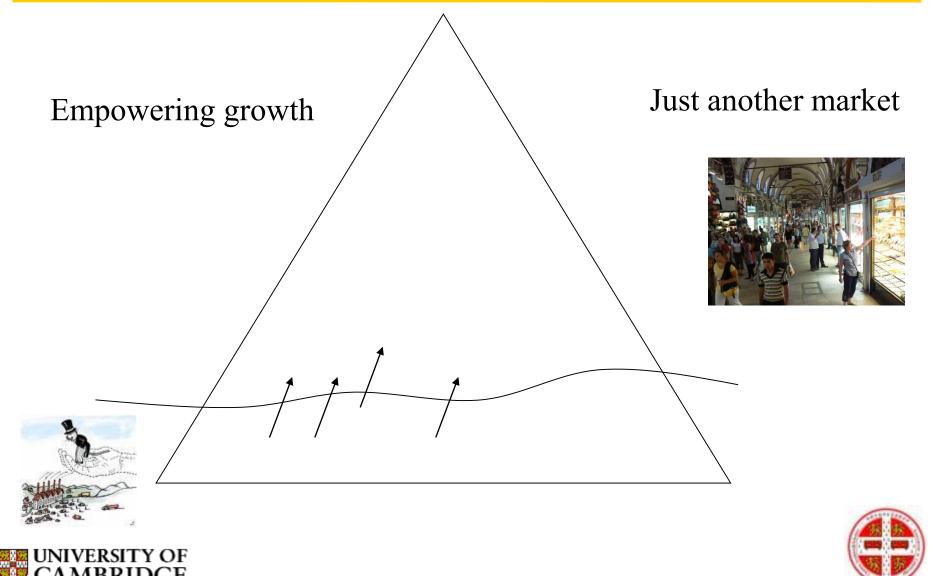


Is there a shift in economic centre of gravity?





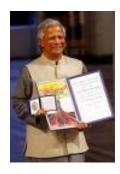
# The pyramid – Humans in a free market view? (Vyakarnam 2008)



#### More examples....Entrepreneurship and People / Society



#### Making a united Europe a reality



Transforming lives of the poor





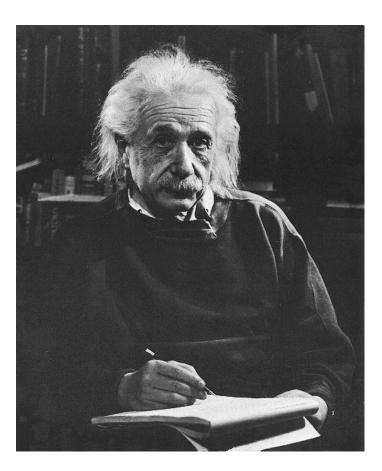
Democratising knowledge – "Education Without Borders" Creating breakthrough technology enterprises





#### A "Brainpower Hero"









#### Einstein on IMAGINATION....

#### "Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world"

Albert Einstein 1879 - 1955





Imagination can be suppressed by circumstances and vested interests....AHA! A picture taken 65 years ago....what has changed ?....









Robots are with us. Imagine with me .... 'Cyberman'

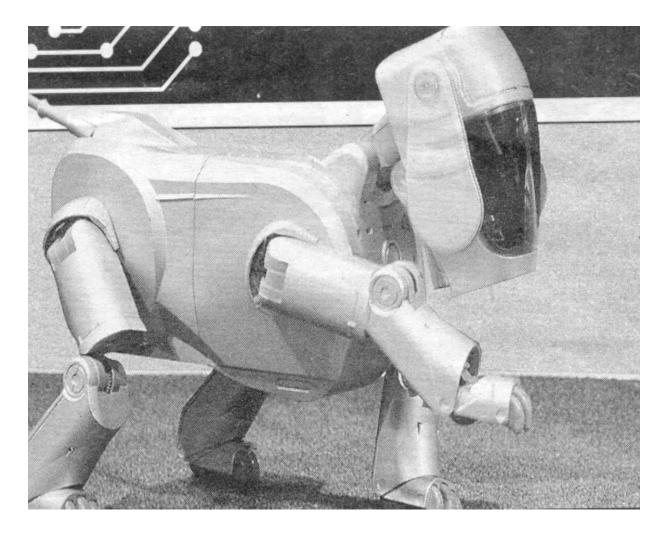
#### Is it just IMAGINATION ?

### Maybe he looks familiar ?





#### 'Cyberdog' He really barks and bites, but doesn't "poo" – Hitachi makes him.







#### Can robots go too far?.....









77



Anyone who has never made a mistake has never tried anything new. Albert Einstein (1879–1955)





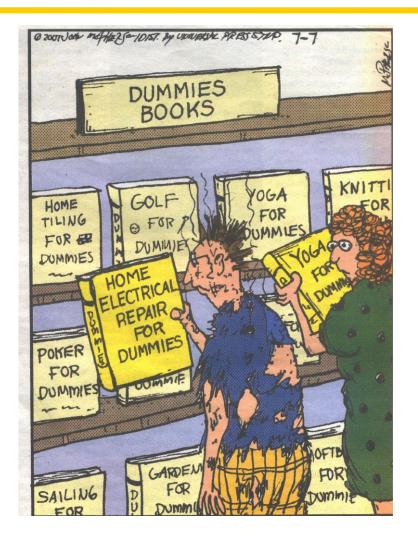
#### Is there RISK involved?....Oh dear....







#### If at first you don't succeed....try again....but learn from the mistakes! Can RISK be eliminated ?







Discovery comes from within...through seeking.....

 "The Source of *Real Discovery* consists not in seeking new Landscapes

But in having NEW EYES"

Marcel Proust





#### Who ever heard of Albert-Szent-Gyorgyi ?

#### He, a Nobel Laureate said.....

#### "Creativity is no more than looking at the same thing as everyone else and thinking something different."





#### So lets think about - IMAGINATION, CREATIVITY MINDSET ENTERPRISE and ENTREPRENEURSHIP







#### **Exploring Creativity and Innovation**

- CREATIVITY The ability to develop new ideas and discover new ways of looking at problems and opportunities
- INNOVATION The ability to apply creative solutions to problems and opportunities to enhance or enrich peoples lives
- Creativity is THINKING Innovation is DOING discuss please !
- Consider the relationship between Creativity, Innovation and Vision.....





#### Are we nurturing "Prepared Minds"?

#### "Where observation is concerned,

#### Chance favours only the prepared mind"

#### Louis Pasteur - 1854





### Ours is "The Knowledge Economy" and we can be imaginative – but what about WISDOM ?

- "True Wisdom includes the humility to acknowledge what we don't know" (Rabindranath Tagore)
- "Liberate Minds" (Hu Jintao)
- "The Ability to discern what is true or right and make sound judgements" (Websters Dictionary)
- "The World has an abundance of knowledge and a serious lack of Wisdom" (Archbishop John Sentimu)
- And then there is *Trust*....or is there?....





#### Thinking of Creativity and Innovation -Would you invest in this team ?







What did you decide? Creativity and Innovation are "inside" not "outside" qualities. Presentational styles have changed !



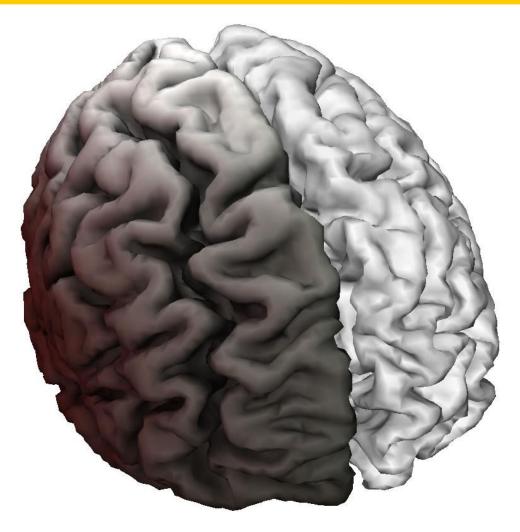
Microsoft Corporation, 1978





Slide 73

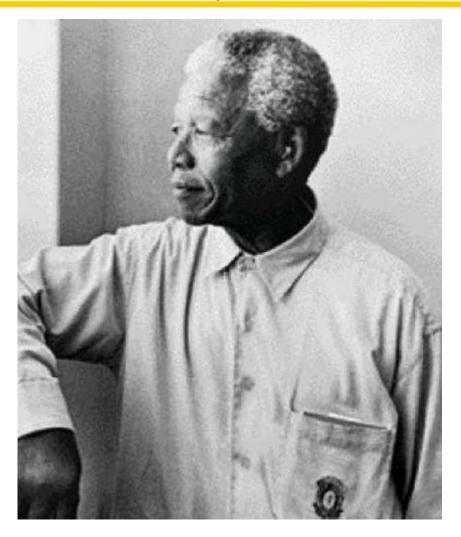
## Back to Heroes – they all had one of these – but so do WE! – everyone of us !







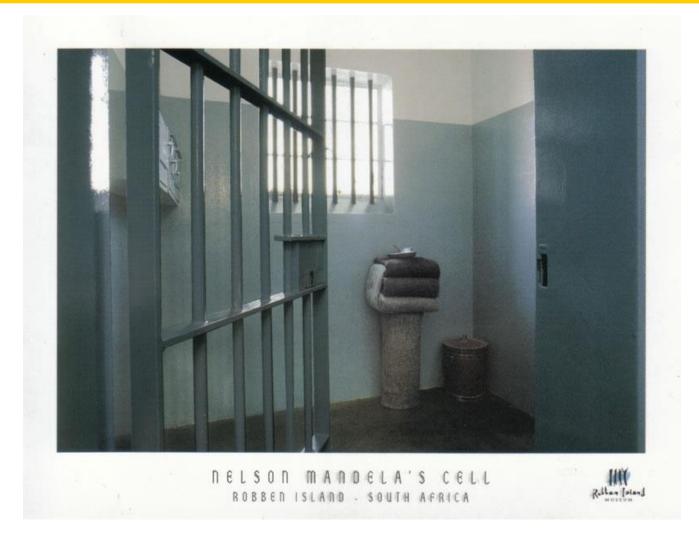
## Another REAL Hero....he changed the WORLD ! From a prison cell – keeping brain and heart alive – for 27 years !







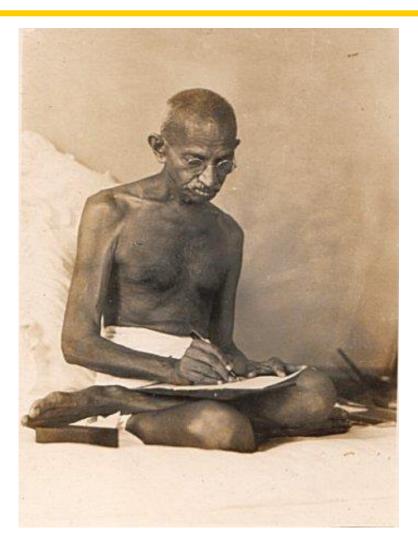
# A Hero's Home for 18 Years....Could WE have survived it ? – Could our leaders of today ?







# **Heroes can show Humility**







# How BIG is the World ?

# "The World is big enough for everyone's

# needs – but it is too small for the GREED of

# one man !"

# Mahatma Gandhi





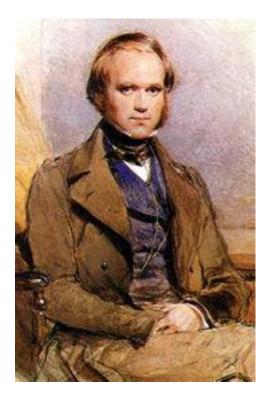
# Recognise this "Hero as a boy" ? He has a close association with this place....







# A bright young man who was at Christ's College....







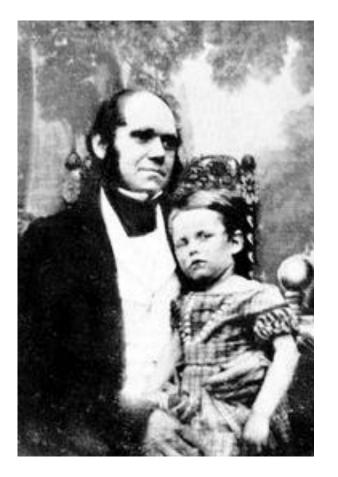
# Came to do Theology....not for long....







# **Quite a Family Man**







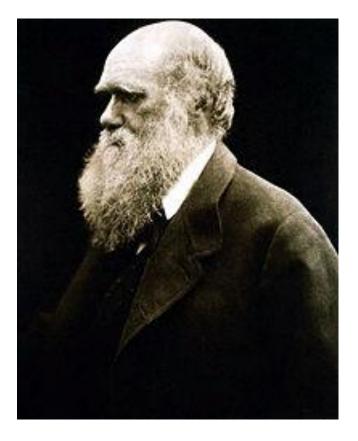
# The Voyage of The Beagle







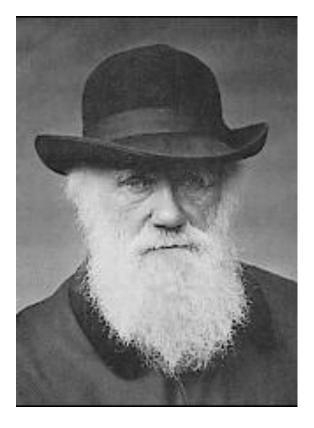
# And – "The Origin of Species"







# Familiar Face....







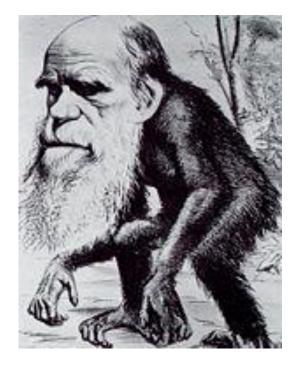
# **Often Caricatured....**







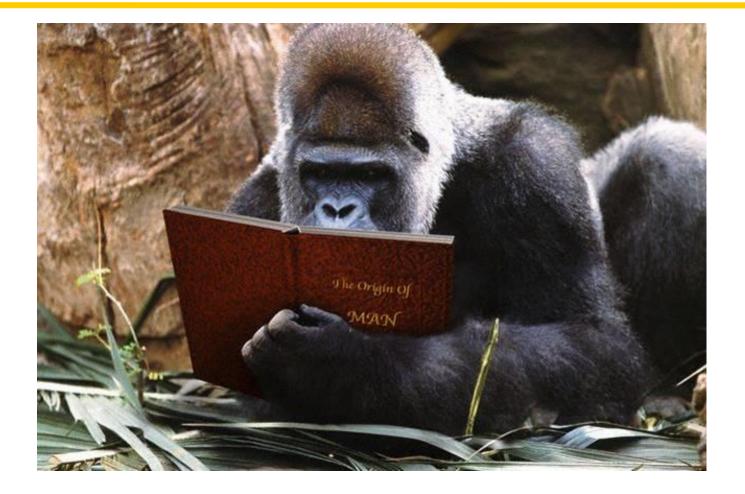
## Heroes are usually *Controversial*....







# **Our Origins....Another Point of View!**







# **China Wakes ! A Recent Chinese Hero**



#### Cong Xiaoping shaking hands with General Secretary Jiang Zemin in 1992. Flanking them are an Li, then head of the National People's Congress, and Deng's daughter, Deng Rong. [Photo by Conbua.]

# "To get rich is GLORIOUS"

#### Deng Xiaoping 1982





# When CHINA Wakes.....

# "Let China sleep....for when she wakes, she will SHAKE the World!"

## Napoleon Bonaparte





# Some of China's Achievements

- Compound growth of GDP at 9% since 1995, sixth in the world
- One of top 10 trading nations
- The most popular FDI destination
- The largest mobile phone market
- The second largest PC market
- The third largest advertising market







#### The Phenomenon of Ancient China – Creativity and Inventiveness – some of the Inventions – just to remind us all

- The first lamps
- Magnetic Compass
- The Camera
- Gunpowder
- Paper for writing
- Printing
- Iron and Steel Smelting
- Copper and Bronze ware
- Oil Drilling and Production
- Coal Mining
- Pottery and Porcelain
- Wine making and tea and tea culture
- Early Astronomy
- Sericulture gave us Silk
- Seismography
- Traditional Medicine and Anaesthetics
- Acupunture
- Vaccination against Smallpox
- The Hot Air Balloon
- The Soushi Calendar
- Decimal and Binary Mathematics







Source: The Economist 2005





# "To get RICH is GLORIOUS"

"Opening Markets – Opening Boarders – Opening Up – discarding Protection"

When China took a lead....and a few risks.

A most propitious moment in time

SO – Let's look more closely at CHINA and A bit closer at INDIA.... But First....There are other Continents......





#### **INSIDE THIS ISSUE: TECHNOLOGY QUARTERLY**

## The Economist

www.economist.com

The press turns on Blair BAGEHOT, PAGE 40

America and its immigrants PAGES 27-29

Dealing with Iran

Can the new boss revive Sony? PAGES 10 AND 83-85

# The real digital divide

MARCH 12TH-18TH 2005













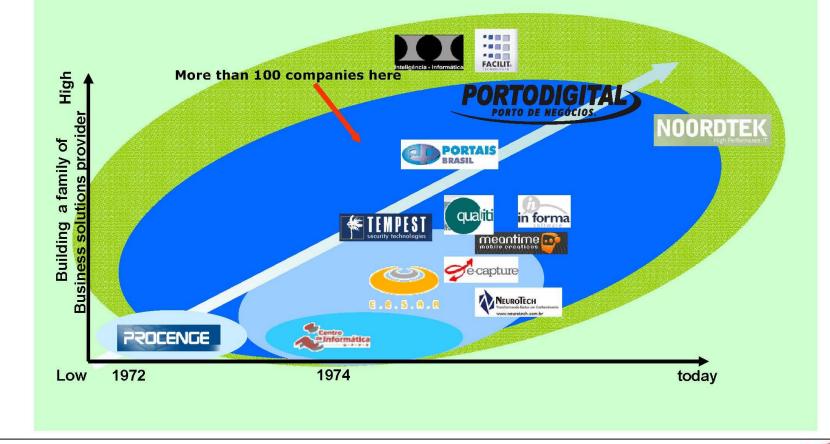
Closer than you Believe!!!

We are in the RightShore for your peace!!!





# Local System Innovation: The Success History







UNIVERSITY OF CAMBRIDGE









# **Some Economic Indicators – A reminder....**

	GDP % Change	Ind. Prod. %	Trade Balance US \$ Bn	Foreign Reserves US \$ Bn
China	+ 9.5	+ 8.9	+60	1.8 Trillion And growing!
India	+ 8.6	+ 8.0	- 25	150
Britain	+ 2.9	+ 0.1	- 49	
Euro Area	+ 2.1	+ 1.0	+ 86	
USA	+ 3.9	+ 3.5	- 679	

- Can the trend continue? China's \$s growing at 200billions a quarter!
- What if China pulls out of US \$ moving its reserves?
- Do the Trade Balance differences matter? India and China?





# **China - Summary**

- The Chinese economy is expected to be bigger than the UK economy this year and the German economy in 5 years.
- The Chinese economy shows a movement from the agricultural sector to the "industrial-manufacturing" sector.
- The main thrust of Chinese companies in entering new markets/expanding market shares is expected to be in the "manufacturing space"
  - Key areas are expected to be
    - Consumer goods manufacturing,
    - Textiles and apparels manufacturing,
    - Household electronics and appliances,
    - Oil & Gas,
    - Steel
    - Automotive and auto-parts





# China's Achievements

- Compound growth of GDP at 9% since 1995, sixth in the world
- One of top 10 trading nations
- The most popular FDI destination
- The largest mobile phone market
- The second largest PC market
- The third largest advertising market







# **Growth Potentials**

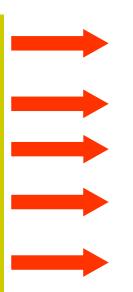
- China's semiconductor market is growing 18-20% year on year
- Laptop PCs enjoyed the fastest growth of 39% in 2002 and will continue at similar speed in 2003
- Mobile phone users have been increasing at 5 mln per month
- The number of Internet users is expected to double over the next 5 years





# The Market for Everything

- Urban population 450
   mln, 160 cities over 1mln
- Emerging of middle class
- Privatisation of housing
- Increasing attention to well-beings
- Availability of Internet



- Enormous market for FMCG
- lifestyle products
- Home improvement
- Healthcare and fitness products
- E-learning services

Western type of consumerism is mainly driven by 15-25 years age group (70 mln)





# The World's Factory

# China already produces:

- 60% of world's toys
- 55% of world's shoes
- 60% of world's air-conditioners
- 60% of world's microwave ovens



Now more cars, laptops, ICs, mobile phones...





# UK Capabilities fit well with China's priorities areas

- Telecoms, information technology
- Transportation, power generation
- Chemicals and petrochemicals
- Bio-tech
- Agriculture/ food processing

## Potential opportunities also with:

Consumer goods, environment and pollution control, healthcare, education and training, and financial services





# What Can China Offer?

- 750 mln people live in the countryside
- Returning overseas students and local MBAs
- Science and Engineering students on the rise
- Increasing usage of ISO accredited process
- Easy access to other Asian markets

- unlimited supply of cheap labour
- Local management talent more available
- R&D localisation become feasible
- Quality of outsourced manufacturing
- Convenient re-export base

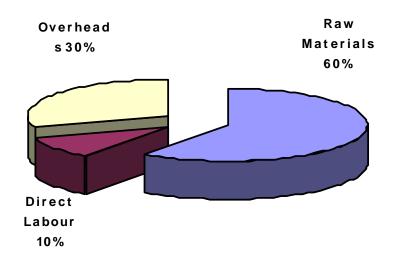




# Cost savings can be significant

- Labour cost 10% of the UK's, however direct labour saving has limited contribution to total costs, usually up to 9 %
- The real savings come from materials, typically 10 to 60% (Arup & Partners' findings)

# Typical cost structure of UK manufacturers



Source: Institute for manufacturing, Cambridge University





In many cases, it is the increasing efficiency of supply chain that has driven foreign companies to manufacture in China.

- Telecom
- Automotive
- FMCG











#### China steps out – M&A – and Overseas Investments – *momentum building*....

- Chinese companies clinched 43 overseas merger and acquisition deals by mid-October 2004, compared with 39 in 2003. The total value of the deals has reached US\$1.93 billion, only US\$270 million less than the whole year of 2003. More happening all the time
- Lenovo (formerly Legend) acquires the PC business of IBM. Creates world's third-largest PC business with approximately US\$12 billion annual revenue for 2003.
- CNOOC bids \$13B for Unocal. Almost beat Chevron-Texaco !
- TCL International Holdings, one of Chinas largest television and handset makers, formed joint ventures earlier this year with Thomson SA and Alcatel.
- Shenzhen-based 999 Group, one of the country's largest pharmaceutical enterprises, bought a 51 percent stake in Japan's East Asia Pharmacy last year and is seeking to acquire another Japanese drug-making business.
- 2007-2008 "Sovereign Wealth Funds" China investing in Western businesses, notably banks
- China invests very significantly in Africa





### Success factors for Working with China – Advice to prospective Western Partners....

- Leading-edge technologies available in China and Chinese companies looking for top technology too
- Quality & customer service the et
- Local supply chain needs to be c
- Local partners/employees the KI
- Cultural Understanding Can you "tl
- Regional focus China is a BIG co expertise

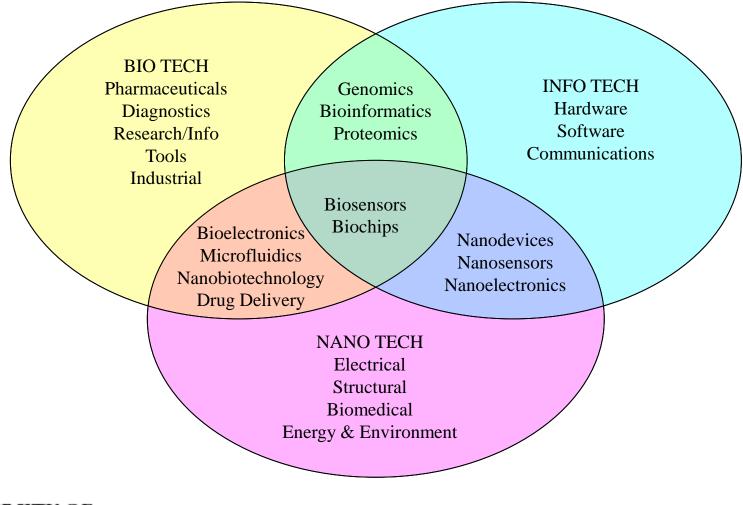


- Consensus among UK employees be honest and clear!
- Commitment from the top management
- Long-term perspective + acceptable return on *investment* – *Patience*





#### Three Converging Revolutions Three Pervasive Technology Platforms – And they are converging in Asia too !





### Overview of the Asian Biotechnology Industry

- Asia Japan, China, Korea, Singapore, Taiwan, Malaysia, India and Australia
- Grown from humble beginnings 10 years ago to reach \$19bn in 2001
- Rates at 10%-\$40% expected in the foreseeable future
- Generally spearheaded by their respective Governments
- Regarded as key to economic prosperity
- Firms are typically small look to US and EU for additional investment, new technology and commercial expertise

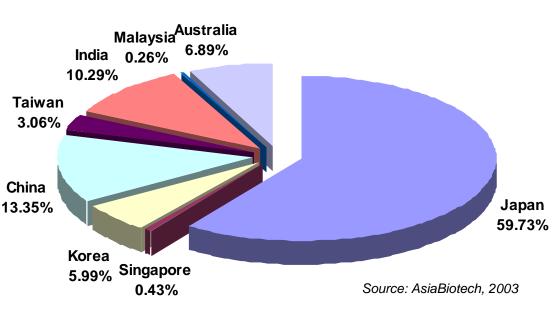
Source: Asia Marketing and Management, 2003





### **Focus and Markets**

- Biotech in Asia origins in producing new crops and food products - feeding the massive populations
- Emerging is in new drugs to cure prevalent diseases in Asia eg respiratory, infectious diseases
- Rapidly ageing populations of Asia have spurred new developments in biotechnology
- China today has 130 million people age 60 or older
- Likewise 45% of the population is aged between 15-25 demands of the *nouveau riche*









### **China and Biotechnology**

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### **Biotechnology in China**

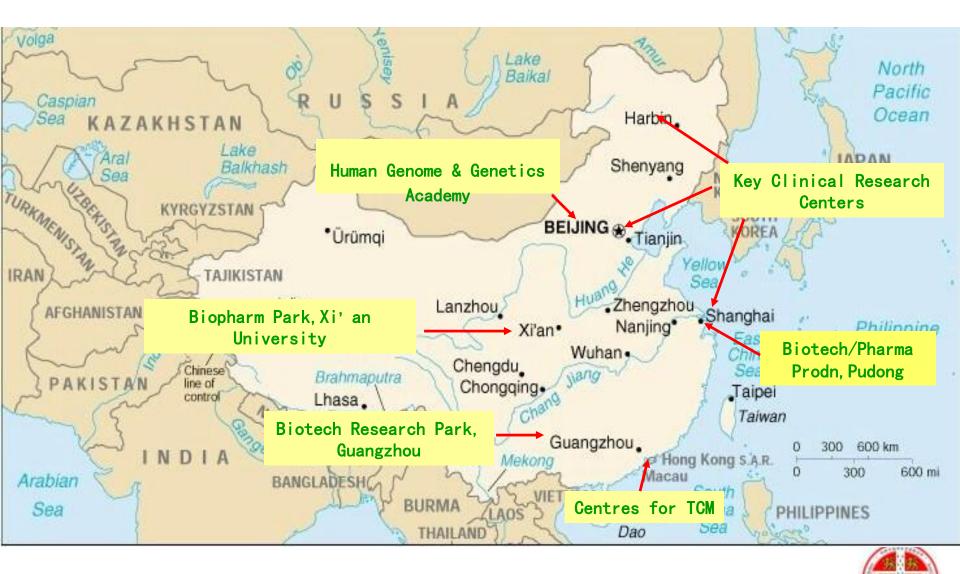
**Dr Elizabeth Hill** 

#### **China Business Solutions Ltd**





#### **Key Geographical Areas**





### **Potential of China - Healthcare**

China Healthcare has more than

- 320,000 healthcare institutions
- 75,000 hospitals

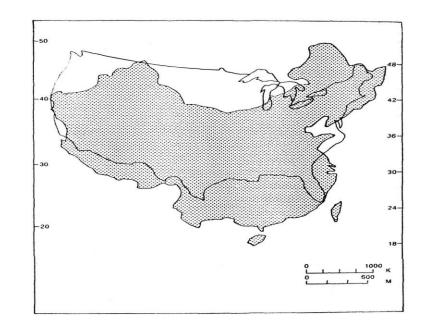
Over 20 biotech parks covering

- Shanghai
- Beijing
- Guangzhou
- Shenzhen
- Chengdu
- Wuhan

Further examples Biotech/Pharma Production facilities development in

 Pudong, Shanghai; Hangzhou, Zheijang Province

China is one of the world's largest supplier of raw materials to pharma



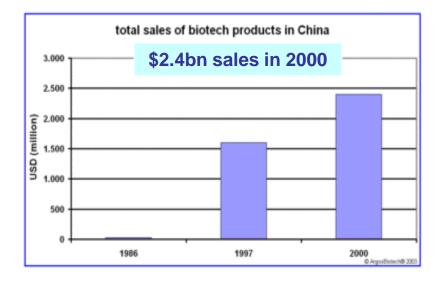
- Land area comparable to US
- Huge population as consumers
- Major economic giant
- Major internal market





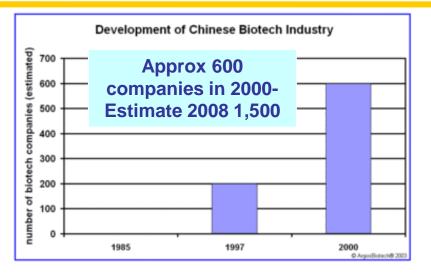
### **Biotechnology Market in China**

- Biotech in China started in 1984
- Initially concentrated on agribio - food security
- Medical biotech has developed gradually



Source: Argos Biotech, 2003





- In 2002, China's biotech market was \$2.4bn
- Predicted 2008 \$10bn
- Participation in the Human Genome (HGP) & International Rice Genome Sequencing Project (IRGSP)
- Now a major biotech player in Asia



### And in Pharmaceuticals - China -Seventh Largest Pharmaceutical Market 2005 – now Fifth

Top 10	1996	2000	2005	2010
1	US	US	US	US
2	Japan	Japan	Japan	Japan
3	Germany	Germany	Germany	Germany
4	France	France	France	France
5	Italy	UK	UK	China
6	Brazil	Italy	Italy	UK
7	UK	China	China	Italy
8	Spain	Brazil	Brazil	Canada
9	Korea	Canada	Canada	Spain
10	Canada	Spain	Spain	Brazil
11	China			



# We are not overlooking **India** – we know it has special expertise....and special problems







### India – Summary – (Prepared 2006)

- The Indian economy is expected to be large enough to be a part of the G6 group in 5-7years.
- The Indian economy shows a significant movement from the agricultural sector to the "services" sector.
- The initial thrust of India companies in entering new markets/expanding market shares is expected to be in the "services space" though this will be balanced by significant growth in traditional manufacturing as well
  - Key areas are expected to be
    - Software and IT outsourcing,
    - Business process outsourcing,
    - Pharmaceuticals,
    - Textiles and apparels manufacturing,
    - Automotive parts and ancillaries manufacturing
- There is a perceived and urgent need to India to embrace and employ Quality Control and Good Manufacturing Practices







GDP

PCI

• GDP growth

#### \$ 548 Billion

8.2 %

Middle income families
 (\$ 1887 to \$ 20,969)

52 Million families

\$454 per annum

Projected growth in MIF

9 % CARG



#### SERVICES

## Agriculture & Allied 24.8 %

51.2 %

24 %

Industry

#### Entrepreneurship–Opportunity or Necessity? The Indian "Black Economy"

"Of all those working in India......

### 97% with jobs are SELF EMPLOYED"

Positive or negative?.....

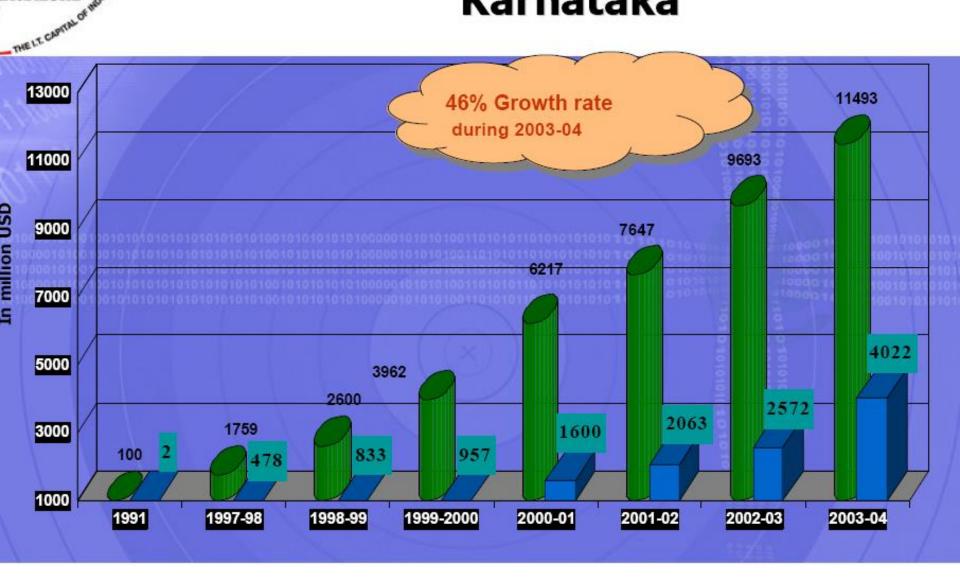
Source – UK BBC Today Programme 2007 – Indian Institute of Management







### Software Exports from India & Karnataka



Bangalore maintains its leadership position

NGALU



#### **Bangalore :** 4<sup>th</sup> largest Technology Cluster in the World (as per UNDP)

#### Integrated Chip Design Texas Instruments Siemens Synopsis Philips Analog Devices National Semiconductors

System Software Oracle Novell Sun Microsystems Digital/Compaq Hewlett Packard Network Associates

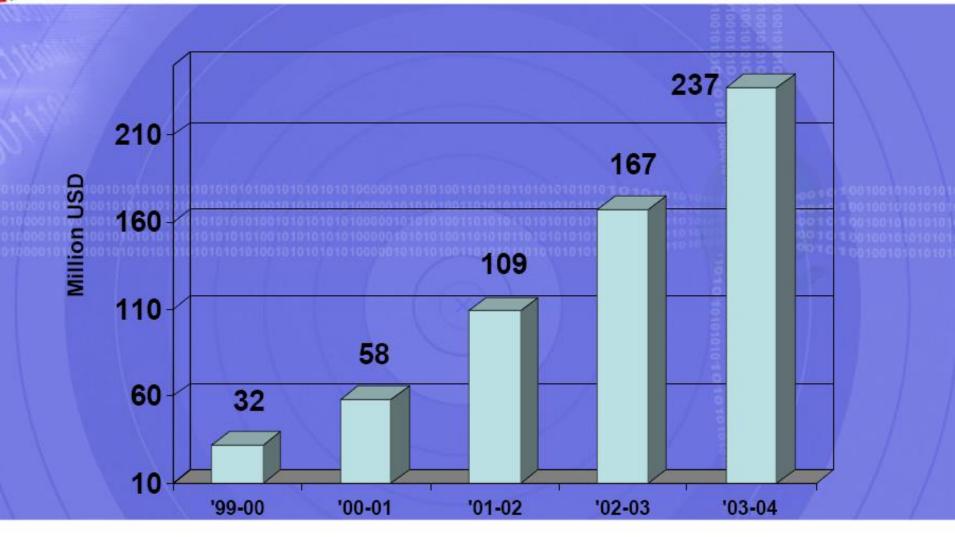
Communication Software Lucent Technologies Nortel Siemens Motorola **Cisco Systems** Ericcson Sony

#### **A Haven for Multinational Companies**





### BIOTECH INVESTMENTS IN KARNATAKA 1999 - 2004



### India steps out – M&A

- Tata Group:
  - Tata Motors group buys & turns around Daewoo truck plant.
  - TISCO buys NatSteel for \$280+M
  - Tata tea buys Tetley.
- Reliance group buys FLAG telecom for USD210M.
- VSNL acquires Tyco's 60,000KM pan-continent submarine fibre optic network for \$130M.
- Ranbaxy Laboratories buys
  - Ohm Laboratories in the US, Rima Pharmaceuticals in Ireland & SP Medicamentos in Brazil.
- Dr Reddy's Laboratories acquires
  - BMS Laboratories Ltd and Meridian Healthcare (UK) Ltd. In the UK
- NIIT acquires
  - Osprey Systems Inc and Clicktolearn in the US.

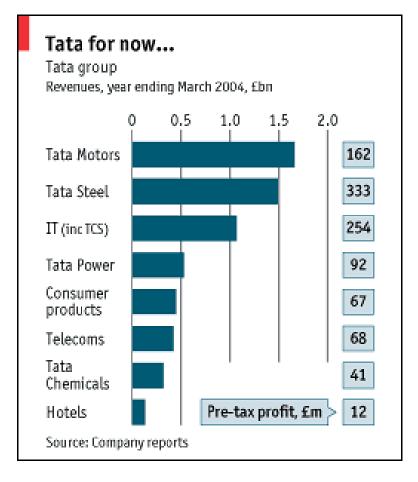








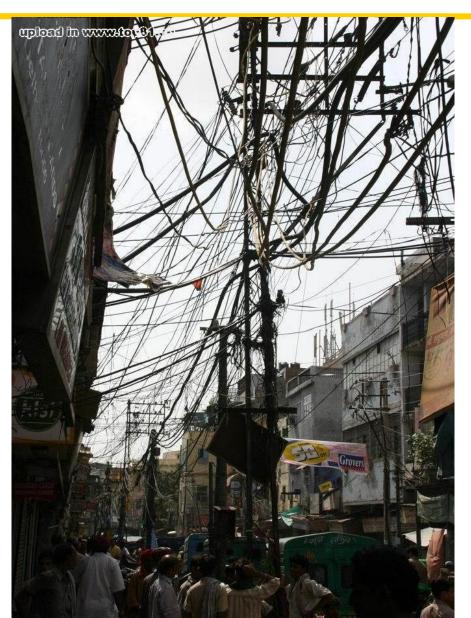








#### India and China – The Infrastructure Investment Question ....







### And what about Europe ?

- Enlarged European Union now 500millions people in 27 Nations others want to join including Turkey.
- Growth in established West European Economies has slowed.
- Eastern Europe countries growing fast smaller Nations Latvia, Estonia, Lithuania, Slovenia have GDP growth % at 12-15%
- Mobility of labour and migration / immigration has accelerated but problems remain.
- Welfare focus in Western Europe has stifled innovation (in some cases).
- Some countries very US dependent NATO presence
- Disagreement on degrees of integration / federalisation (The Euro etc), but EU Commission has grown stronger.
- Post Soviet break-up leaves Russia Isolated and Nervous note recent events – Western Europe needs more understanding re Russia/Nato etc.
- The Russian / East Europe Axis may be as great (? Greater) threat than terrorism to World Peace. Ethnic / Cultural issues





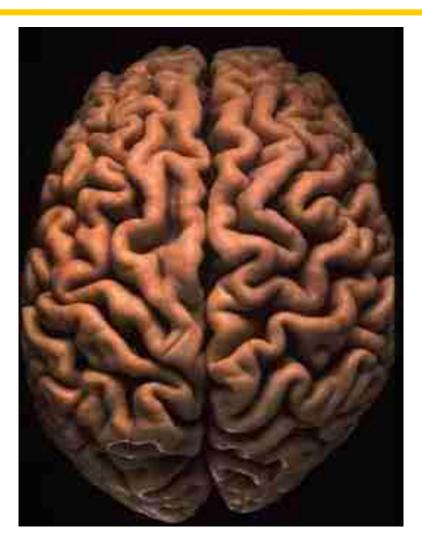
### And for the Future....

- Creativity and Innovation will be key if Europe is to maintain a major share of World Trade and Growth
- Longer term planning will be essential in the West
- Western philosophy and political systems may NOT prevail
- "Co-Opetition" and Partnership (e.g. with China) more appropriate than competition.
- Will "Democracy" prove more effective than "Dictatorship" ? or can we stop using meaningless definitions ?
- Will "Easternisation" replace "Westernisation" ?
- The evolving definition of GLOBALISATION will be.....interesting.....DISCUSS !
- CULTURE and CULTURAL UNDERSTANDING may be at least as important as Understanding Economics !
- The only certainty is that we will live through *uncertainty!*





"Brainpower and Brain Circulation"- Building Structures to develop Knowledge and Skills to turn Vision into Action – <u>Education and Business Without Borders</u>







### In Pursuit of Excellence !

"Excellence can be achieved, if we: Care more than others think is wise, Risk more than others think is safe, Dream more than others think is practical, Expect more than others think is possible."

**Deborah Johnson-Ross** 

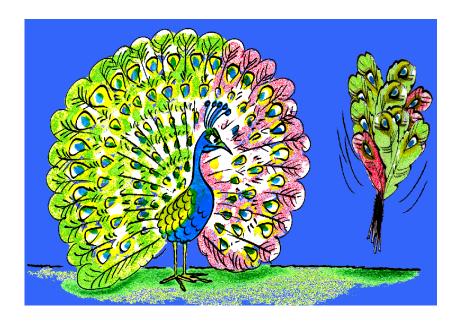




### And....even when we are doing well -

- Beware the "Arrogance of Knowing Best"
- But Competition is **not** the only way....
- Knowledge, Skills and Attitude....and applying them....
- Let's try Co-Opetition, Complimentition and Partnership – break down barriers - and CHANGE THE WORLD ! – WORLD WITHOUT BORDERS!

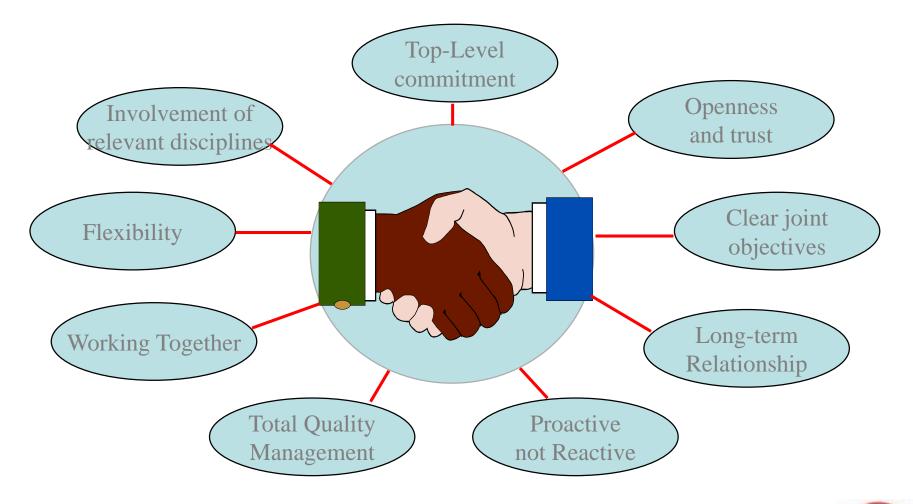
- Beware Arrogance
- "Today's Peacock is tomorrow's feather duster"







#### Partnerships-Never Easy! Impossible without Tolerance and Cultural Understanding





### British Science Coming to China, UK-China High Tech Forum

2005: The year for British Science in China



travelling to China to exchange findings and views with Chinese counterparts, and publicise their activities.

This year a series of conferences, workshops and other activities have been designed, collectively, to showcase the UK's expertise in science and promote scientific collaboration between China and the UK.

#### The Coordinators

The campaign is co-ordinated by the Science and Innovation Network of the Foreign and Commonwealth Office in partnership with the British Council. Day-to-day management is in the hands of a FCO-BC team at the British Consulate in Shanghai, with the Embassy in Beijing providing executive steering. At the UK end a committee of key stakeholders drawn from across Whitehall and the UK science base provides further executive support.



# People and Success....at the end of the day....

## "We understand that the only competitive advantage the company of the future will have is its people" Arie de Geus - "The Living Company" And...what about **complimentary**

advantage?







#### **Opportunities for THE NEXT GENERATION- Key**

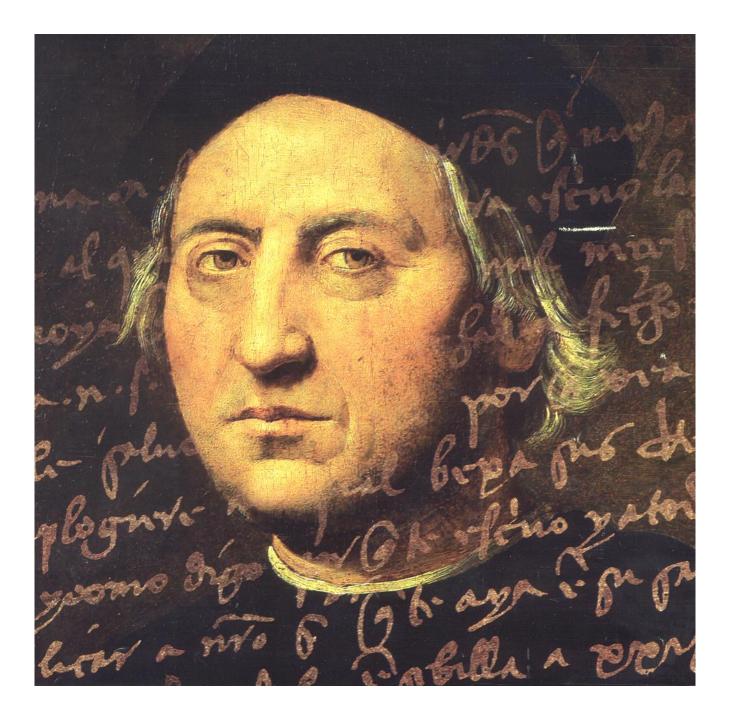
**Words and Actions...**Alan Barrell's closing message to 1500 students in Beijing at the "Education without Borders Conference "– Dec 2007.

IMAGINE AND HAVE VISION CREATE INNOVATE INVENT "WORLDTHINK" – GLOBAL VIEW ACQUIRE KNOWLEDGE PLAN AND PRACTICE NETWORK! NETWORK! INSPIRE OTHERS TRUST AND RESPECT-LISTEN WELL ENJOY!

Breaking Down the barriers – and aiming at "A World Without Borders" will enable the next generation to turn <u>Vision into</u> <u>Action</u>













#### Reflections on Globalisation and the Changing Dynamics of the World Economy

### For more information.....

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