

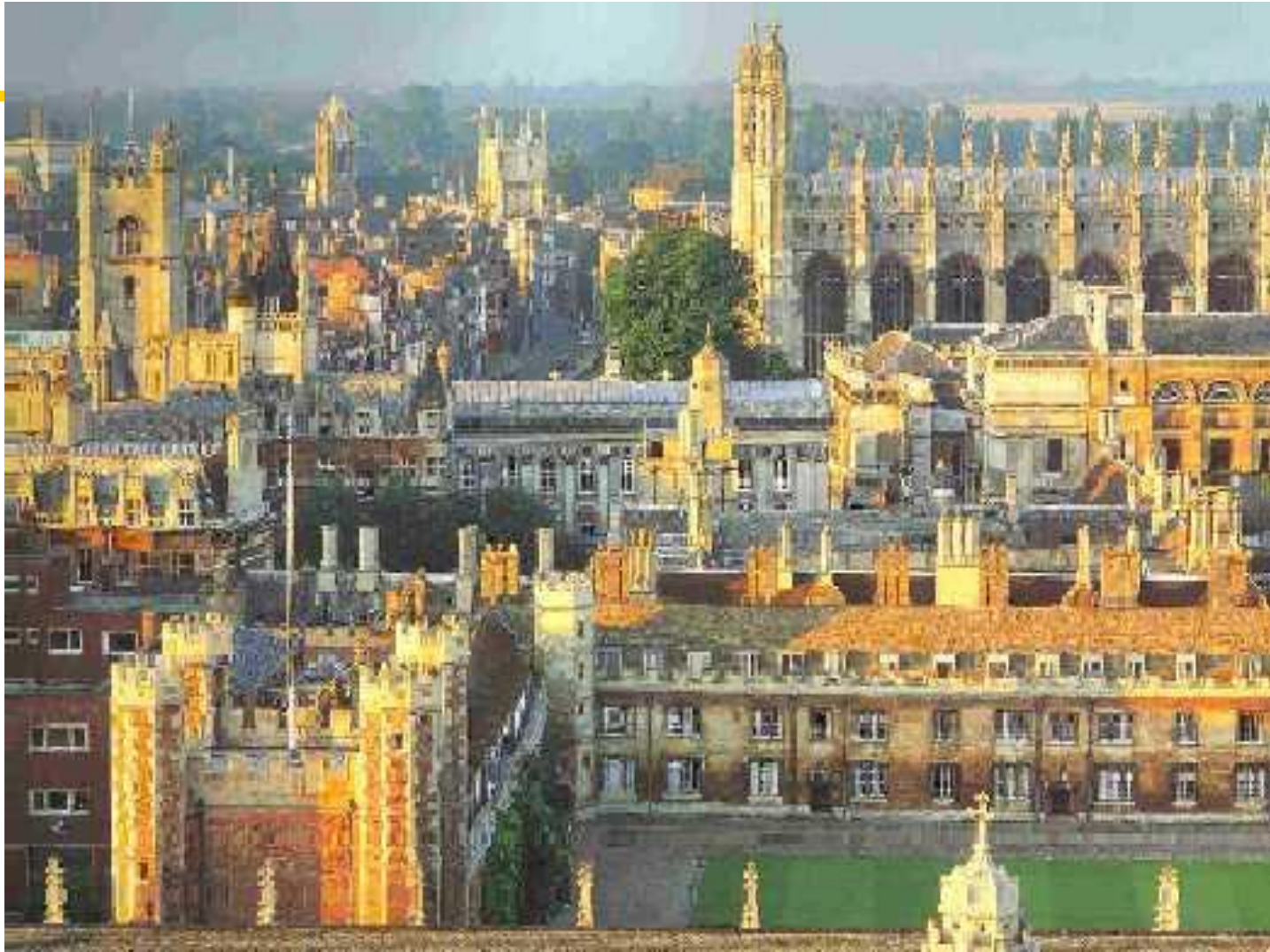
# Pioneer Ministers at Ridley Hall

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**“Entrepreneurship – and the Role of the Church in today’s Business World”**

Key Themes – “Creativity, Inspiration, Innovation and Leadership”

Professor Alan Barrell June 9<sup>th</sup> 2008





# Agenda

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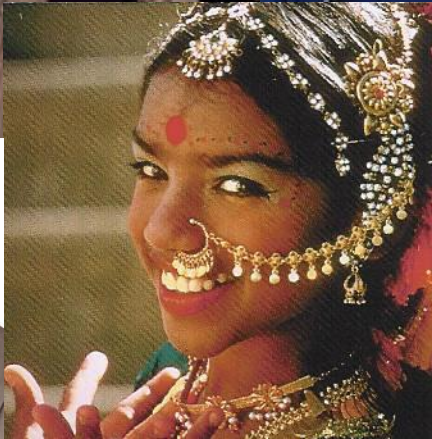
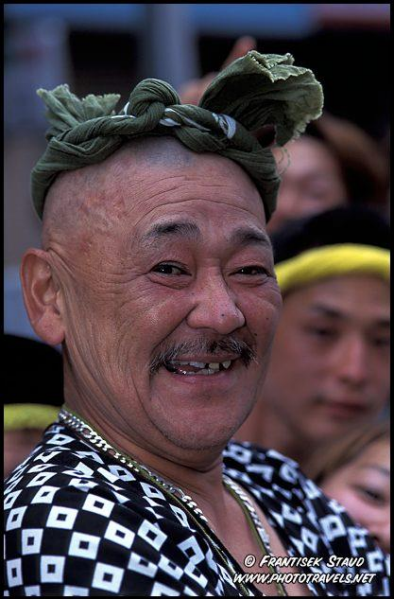
- Take a look at “A World of Change and Challenge”
- What’s the Business World All About ?
- What’s “The Church” All About?
- The Priesthood – Leadership and Entrepreneurship
- Imagination, Creativity, Innovation and Impact
- Stories from Life – Mine and Yours.....

# The Globalised World – Economy and Business

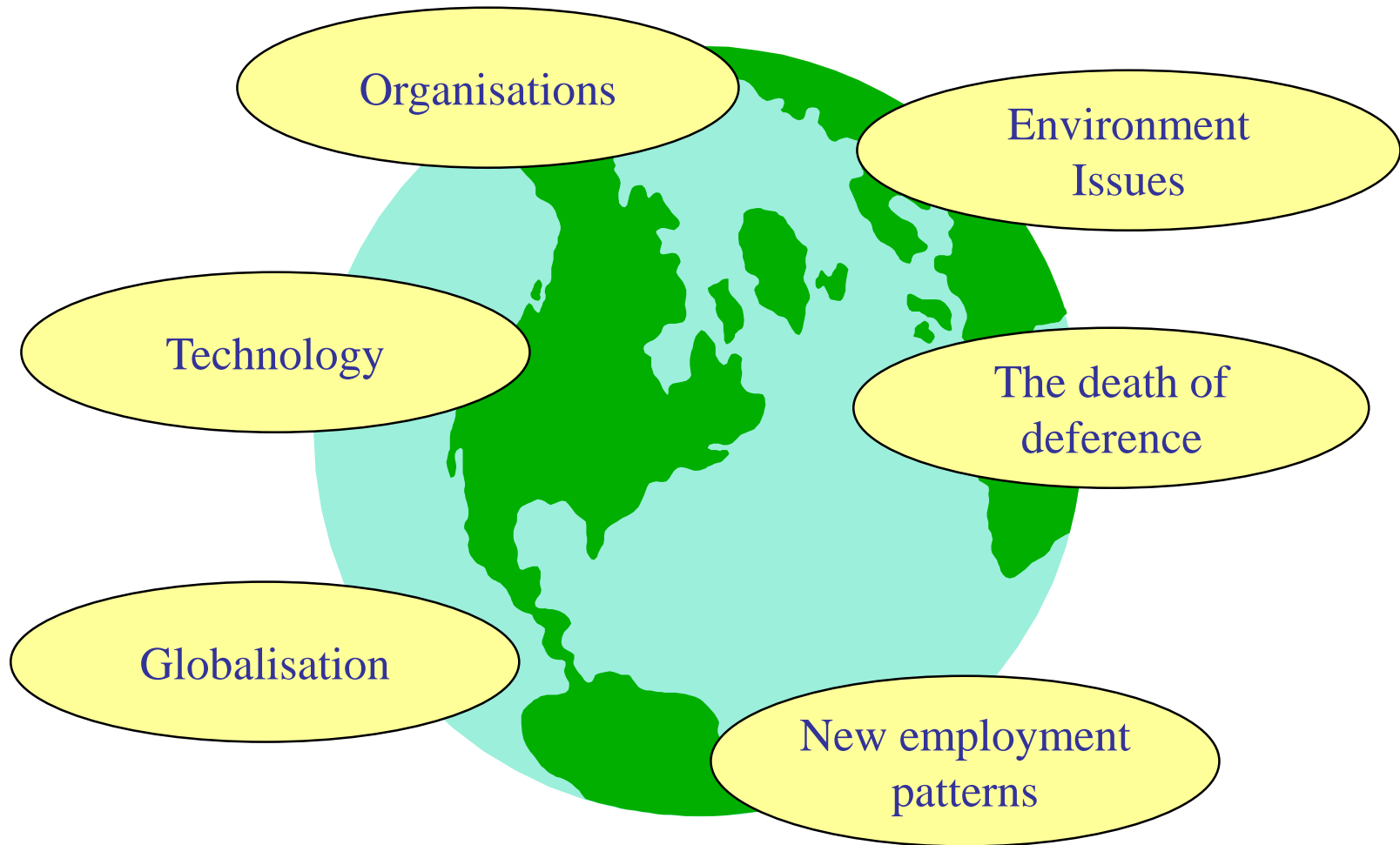
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Let's take a quick tour.....

- The Bigger World
- Our “closer World” – our Communities
- Impacts on People



# The Changing Horizon – and “*Globalisation*”



# The World in Transformation – Changes coming ever Faster

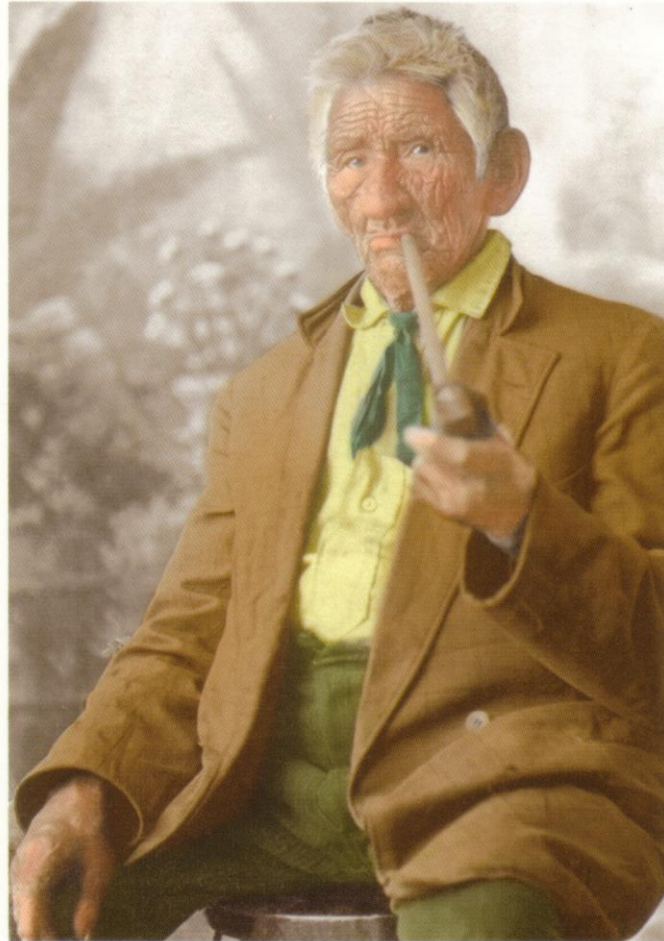
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- Speed of Communication – Removal of Distance
- Globalisation – and EU Enlargement – 27 Countries half a billion people
- Sources of Security
- Flattening of Structures – Networks not Hierarchies
- Entrepreneurial Opportunities
- Impact of Technology
- 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.
- And we are not growing younger....



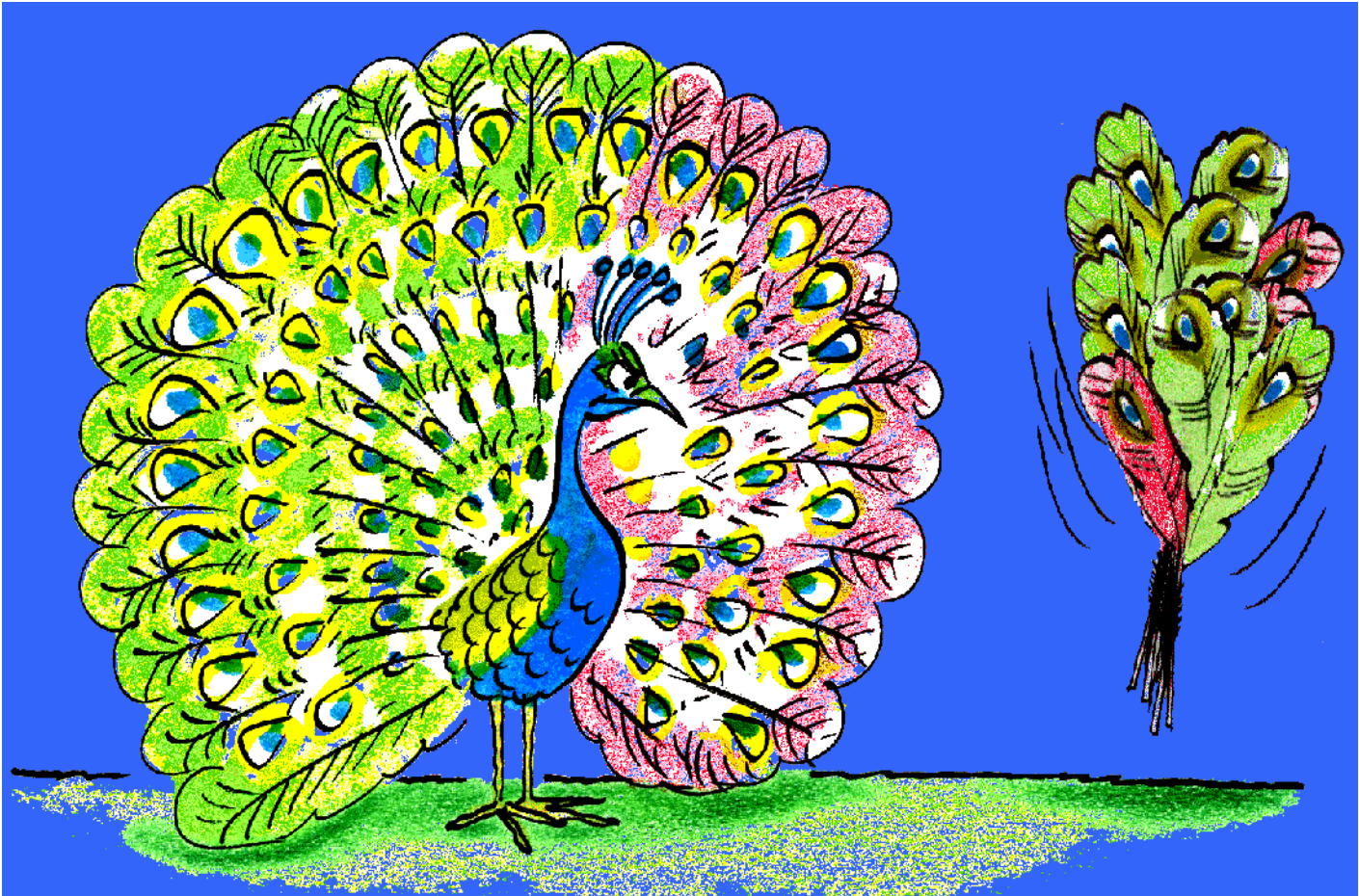
If I had known I was going to live this long  
I would have taken better care of myself

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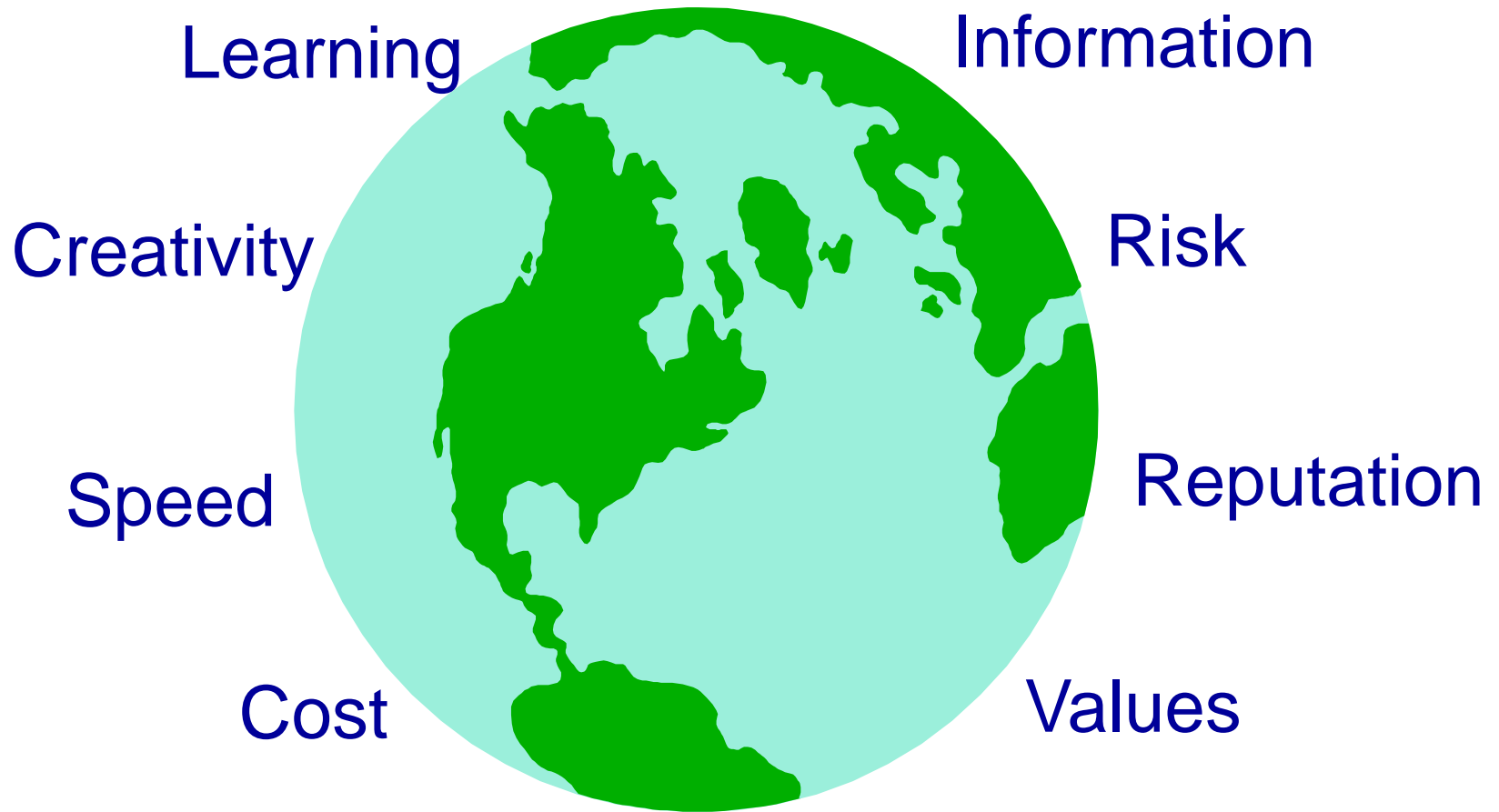
# The Competitive Threat

“Today’s Peacock is tomorrow’s feather duster” –  
Think about it.....*Is Competition an issue for The Church ?*



# Sources of Competitiveness

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# The World is in Transformation – Is “The Church” in Transformation too ? Questions and Issues

---

- What IS “The Church” ?- to you, me and “the World” ? – People!
- Consider the Church and the World of Work
- Relate this to “Society” in a World of Change
- What’s a Pioneer ?
- What’s an Evangelist ?
- What do we think and know of “Today’s Business World”?
- What do we think about “Globalisation”?
- Examining “Entrepreneurship”

# A Pioneer....Chambers 20<sup>th</sup> C Dictionary

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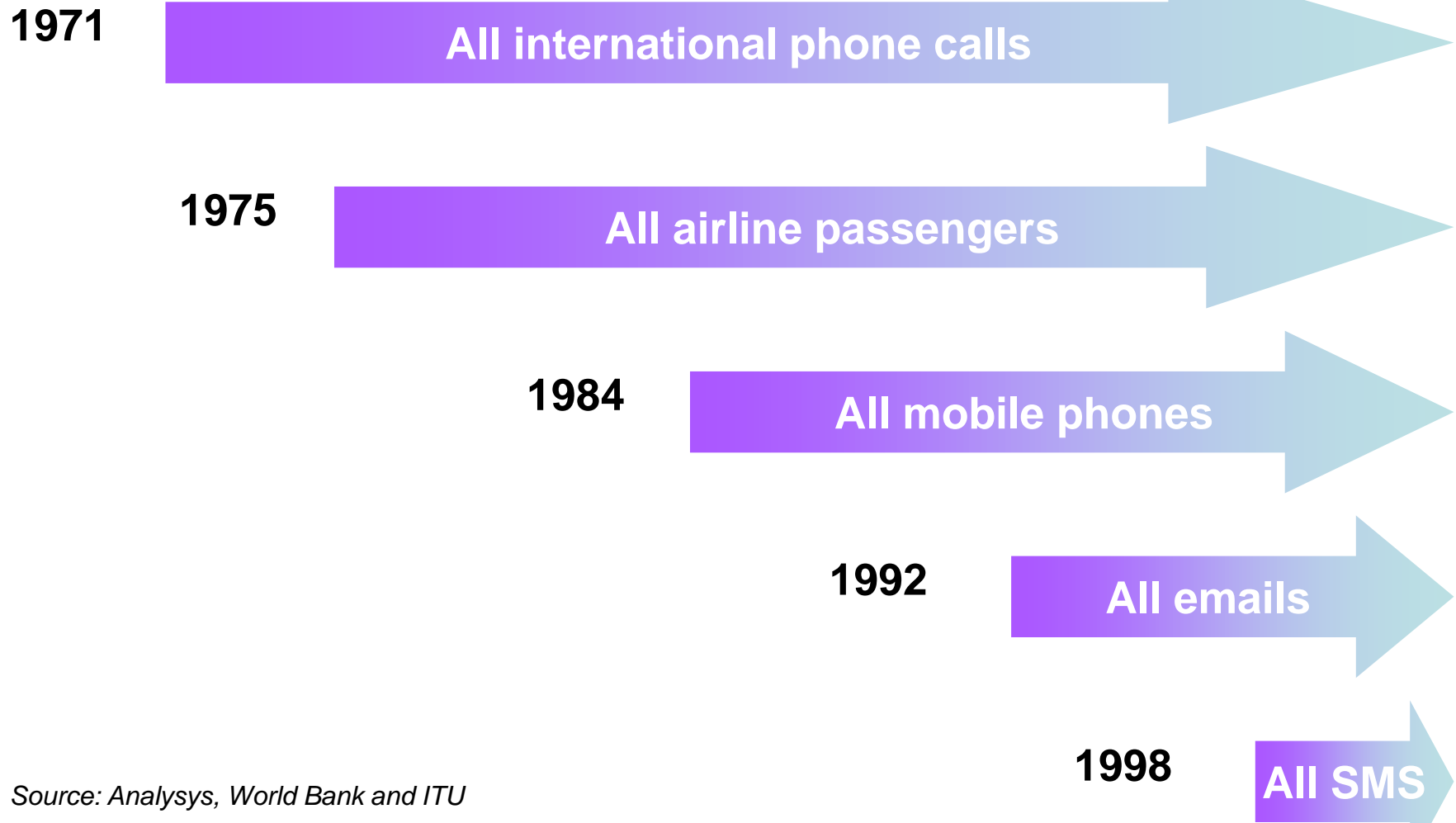
- Military Artisan
  - Painting and Repairing barracks
    - Preparing the way for an Army
- Engineering works – eg. Trenching
  - An Excavator
  - A Labourer
- One who is amongst the first in a new field of enterprise
  - An Explorer
  - Colonisation
- French *peonier* – a foot soldier

# An Evangelist – Chambers 20<sup>th</sup> C Dictionary

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- One who Evangelises
- Make acquainted with The Gospel
  - To “Christianise”
  - An Author of a Gospel
- Assistant of the Apostles
- Authorised to preach but “without a fixed charge”
  - A Lay Missionary

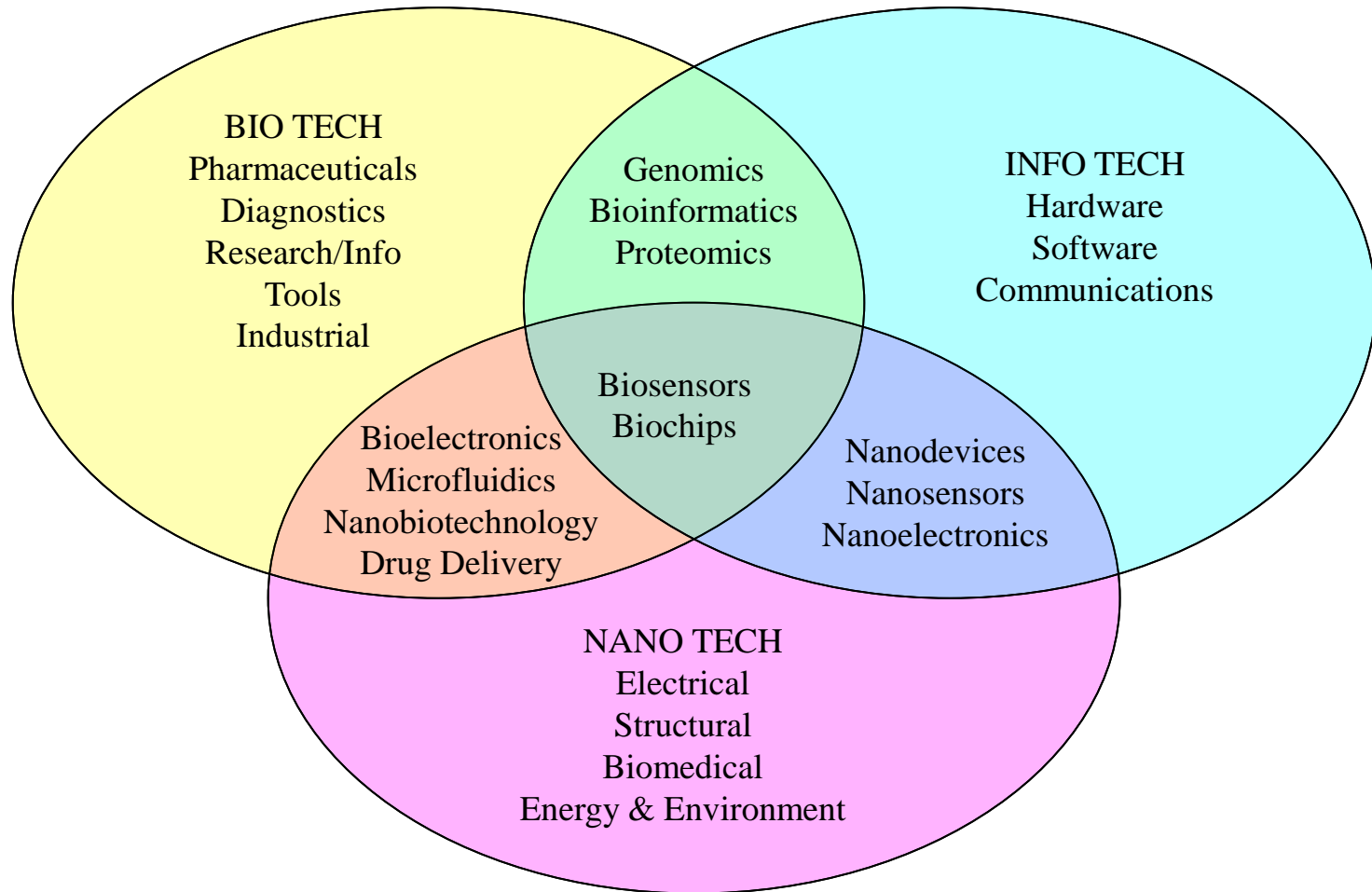
# Innovation and the Impact of Technology -Traffic in one day in 2003:



Source: Analysys, World Bank and ITU

# Three Converging Revolutions

## Three Pervasive Technology Platforms





# Innovation, Invention, Science and Technology

---

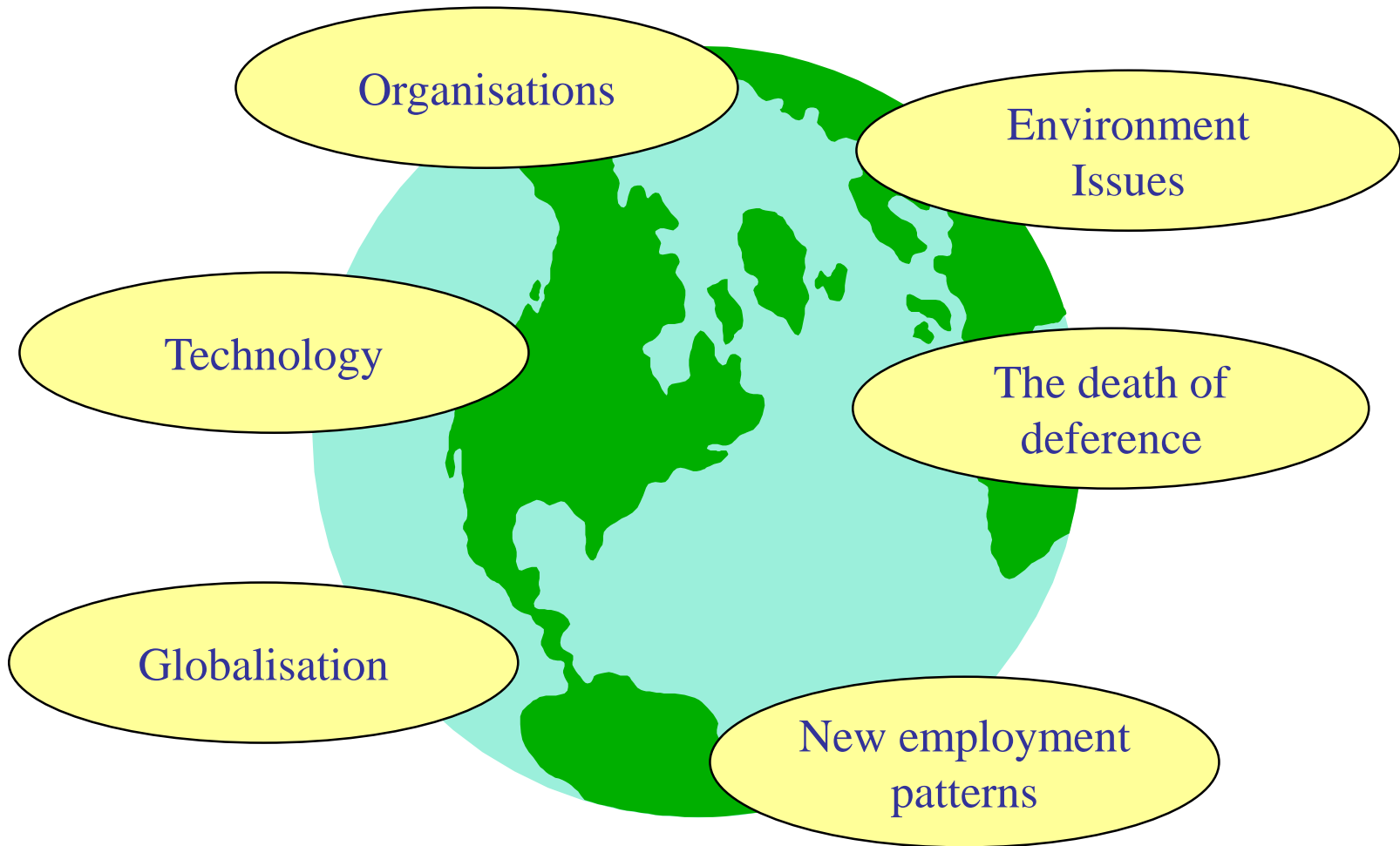
**“90% of all the scientists born in the human race are alive today”**

*Prof. John Story - INSEAD*



# The Changing Horizon – what ABOUT Energy and the Environment ?

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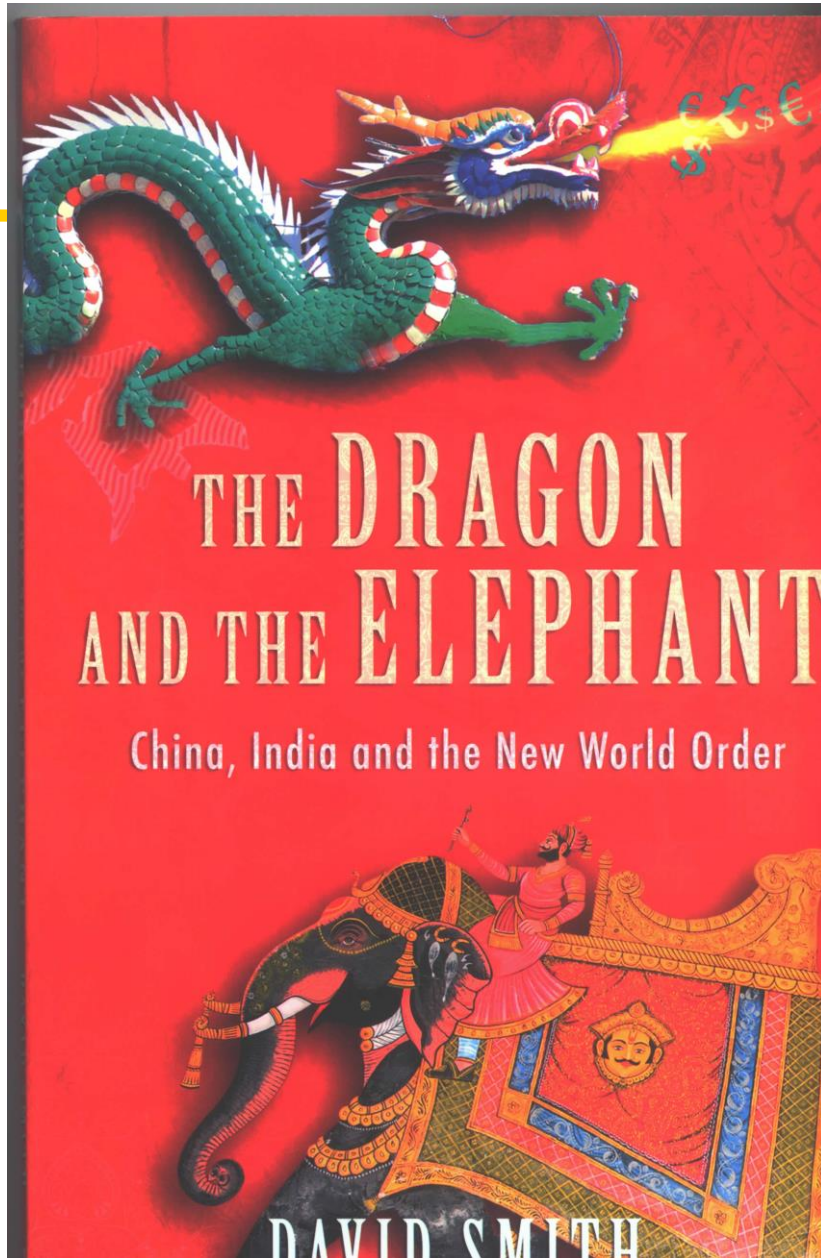
# The Environment and Energy....How long do we take to learn and adjust / adopt ?....Are there other examples?....Technology is not always adopted?....

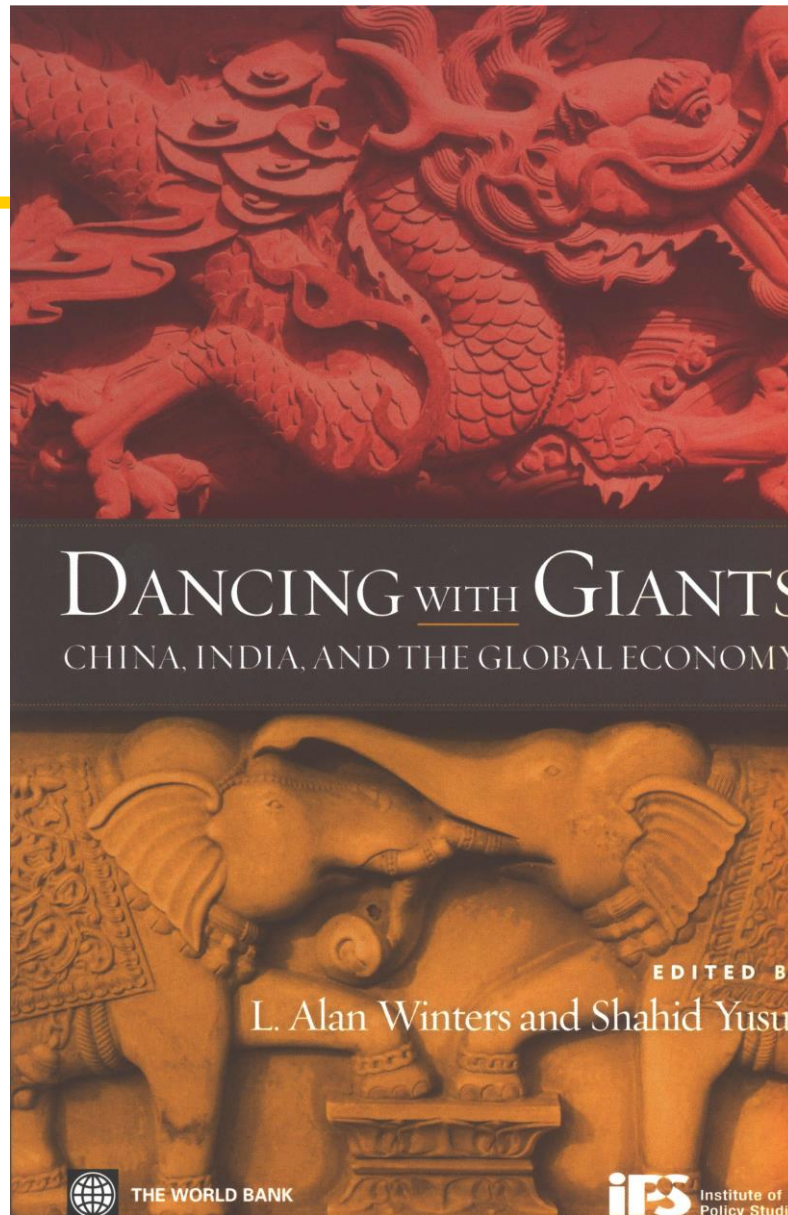


# The Changing Face of Globalisation – Realities for Europe, US and The World

- 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
- Growth in Asia is far ahead of Europe.
- The desire to LEAD is strong in Asia
- CASH is in place in the Asian economies – as well as brainpower.







# RISING ELEPHANT

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

**Ashutosh Sheshabalaya**



WEEKLY NEWS IDEAS INNOVATION

THE BEST JOBS IN SCIENCE

# NewScientist

10 November 2007

Special issue

## CHINA RISING

Innovation nation

The people's quantum computer

Beyond the great firewall

Stem-cell revolutionaries



£2.95 US\$4.95 No2629



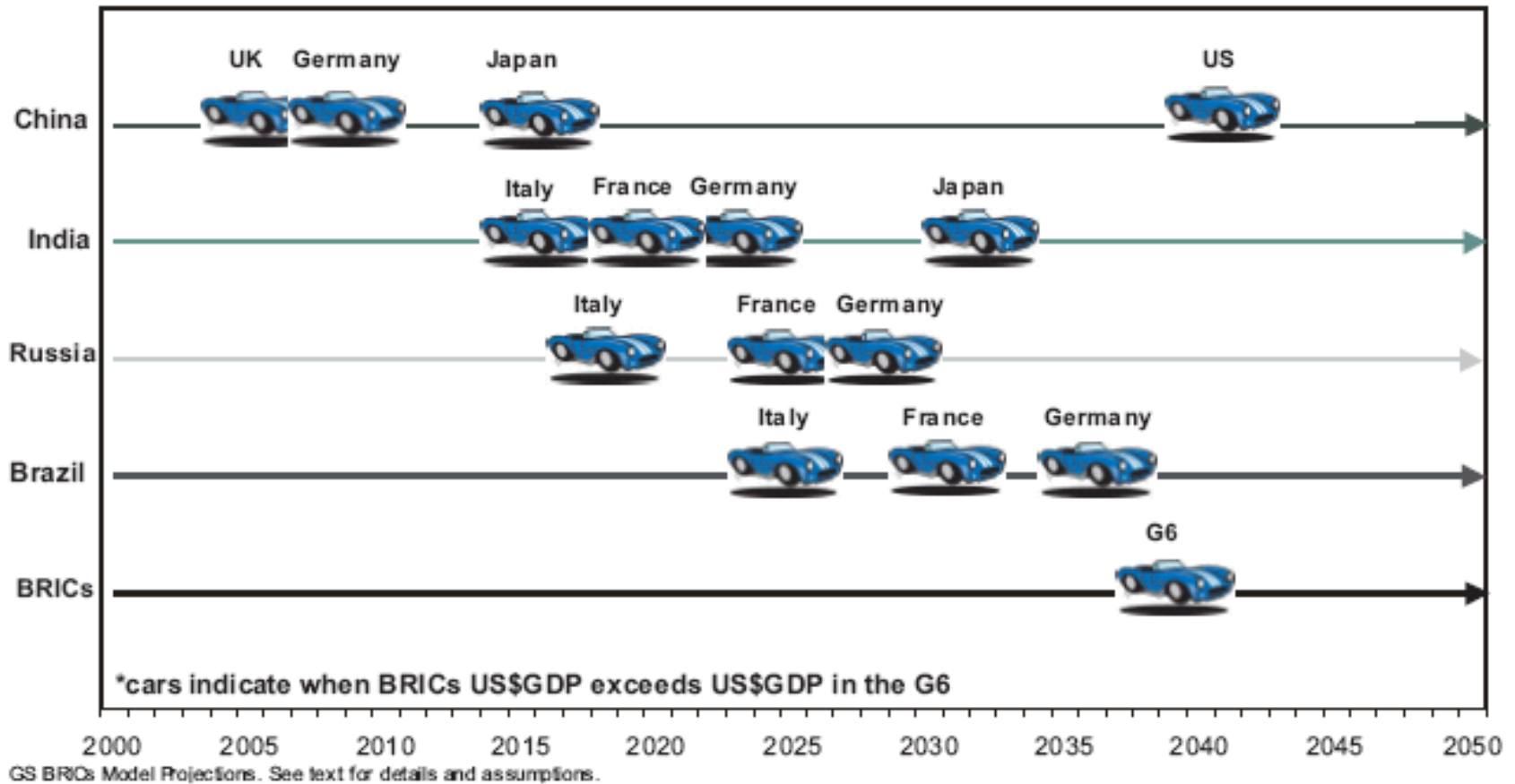
# Some Economic Indicators – How are key Countries doing?

	GDP % Change	Ind. Prod. %	Trade Balance US \$ Bn	Foreign Reserves US \$ Bn
<b>China</b>	+ 9.5	+ 8.9	+60	1.65 Trillion And growing!
<b>India</b>	+ 8.6	+ 8.0	- 25	130
<b>Britain</b>	+ 2.9	+ 0.1	- 49	
<b>Euro Area</b>	+ 2.1	+ 1.0	+ 86	
<b>USA</b>	+ 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?

# India/China Vs The G6

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



# The Phenomenon of Ancient China – Creativity and Inventiveness – some of the Inventions – NOT just a nation of “copiers”

---

- 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
- Acupuncture
- Vaccination against Smallpox
- The Hot Air Balloon
- The Soushi Calendar
- Decimal and Binary Mathematics







Closer than  
you  
Believe!!!

We are in  
the  
RightShore  
for your  
peace!!!

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

---





- GDP \$ 548 Billion
- GDP growth 8.2 %
- PCI \$ 454 per annum
- Middle income families (\$ 1887 to \$ 20,969) 52 Million families
- Projected growth in MIF 9 % CARG

SERVICES

51.2 %

Agriculture & Allied

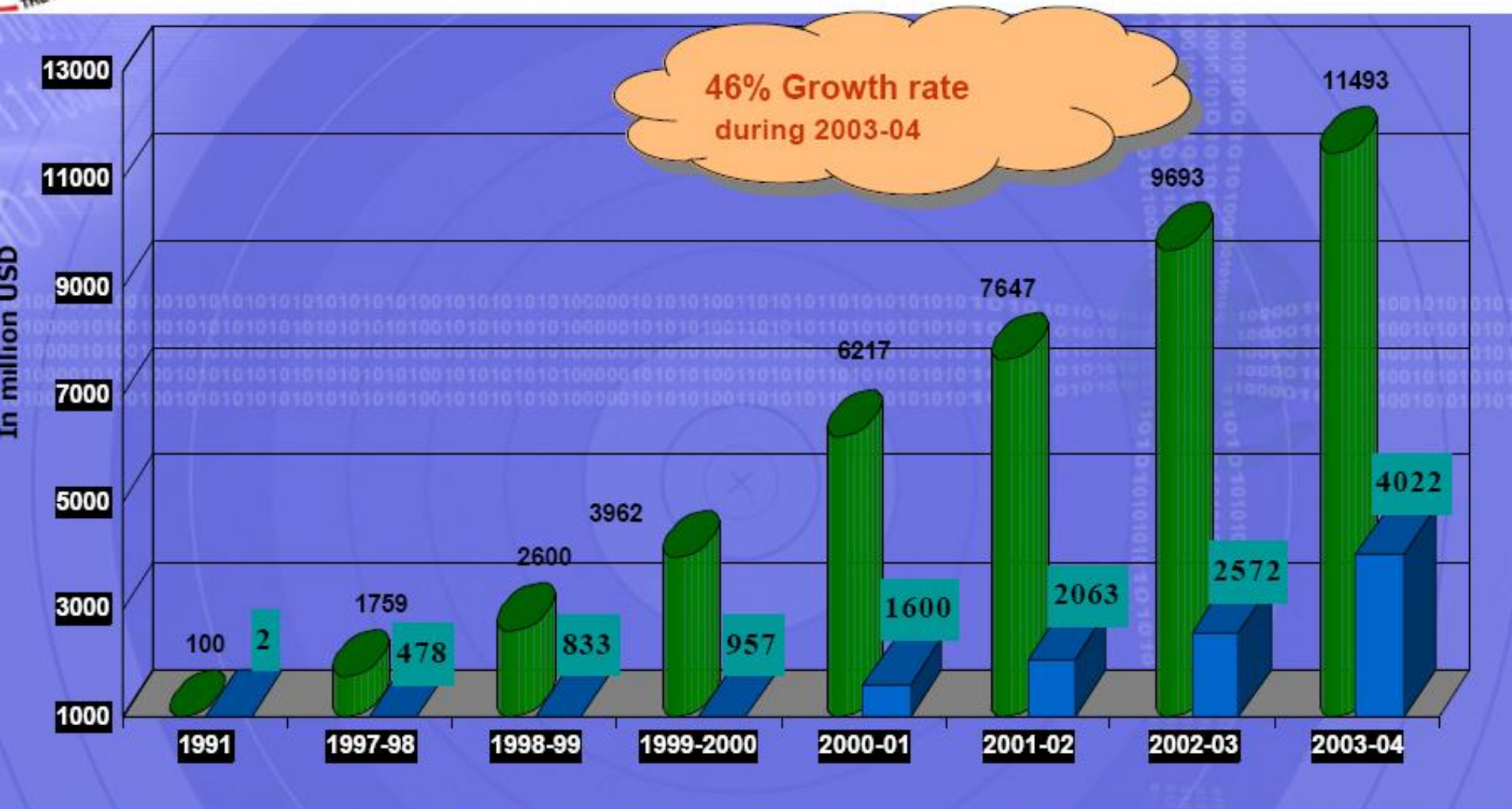
24.8 %

Industry

24 %



# Software Exports from India & Karnataka



Bangalore maintains its leadership position

# The Economist

MARCH 12TH-18TH 2005

www.economist.com

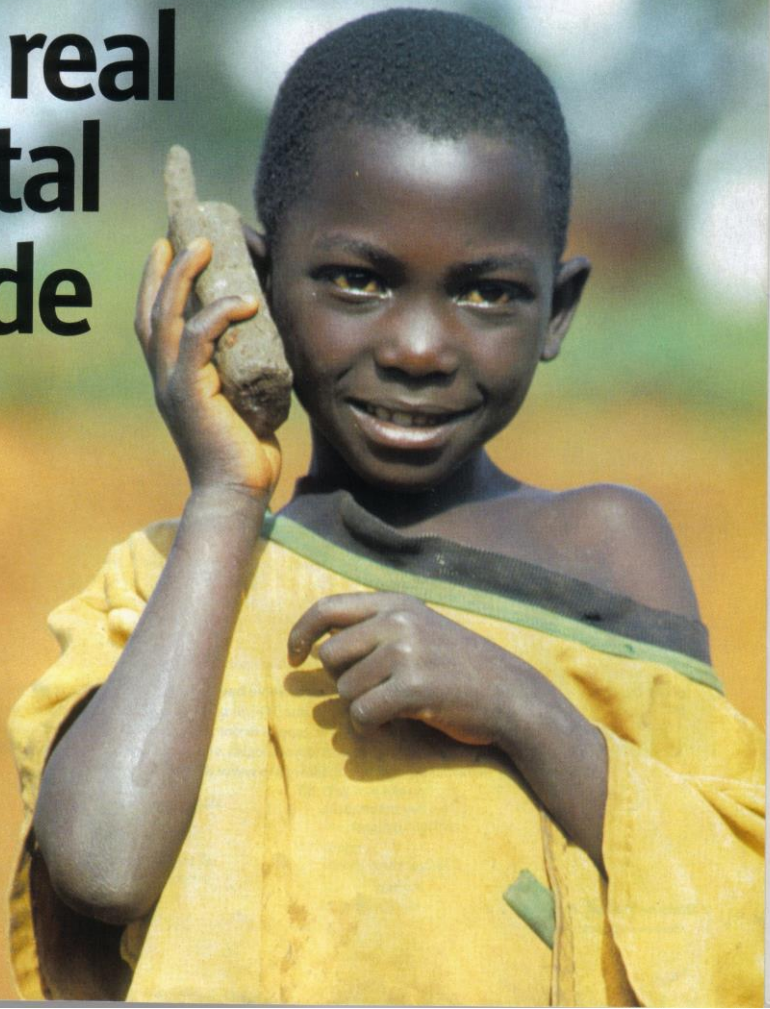
The press turns on Blair  
BAGEHOT, PAGE 40

America and its immigrants  
PAGES 27-29

Dealing with Iran  
PAGE 10

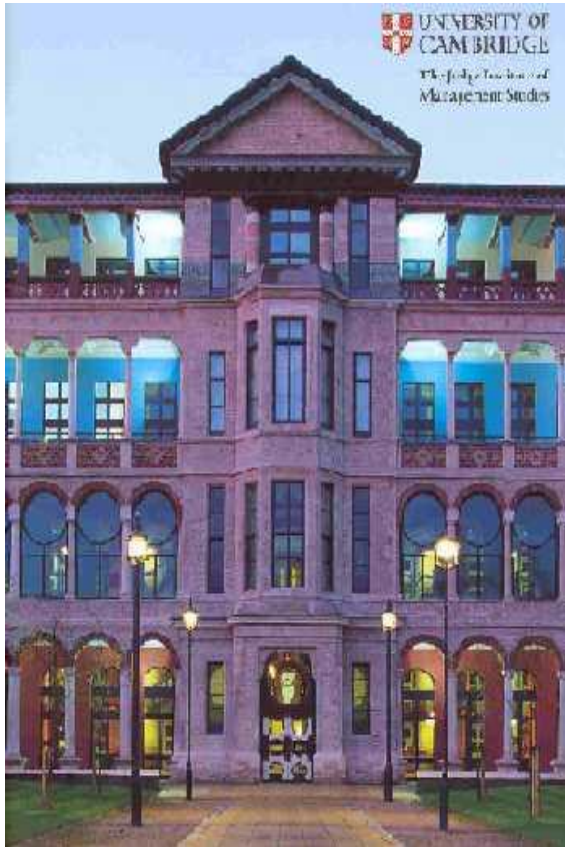
Can the new boss revive Sony?  
PAGES 10 AND 83-85

## The real digital divide



£3.00  
9 770013 061145 1 1

# Characteristics of high technology regions- Catalysts for Growth – Focussing down looking at our own region

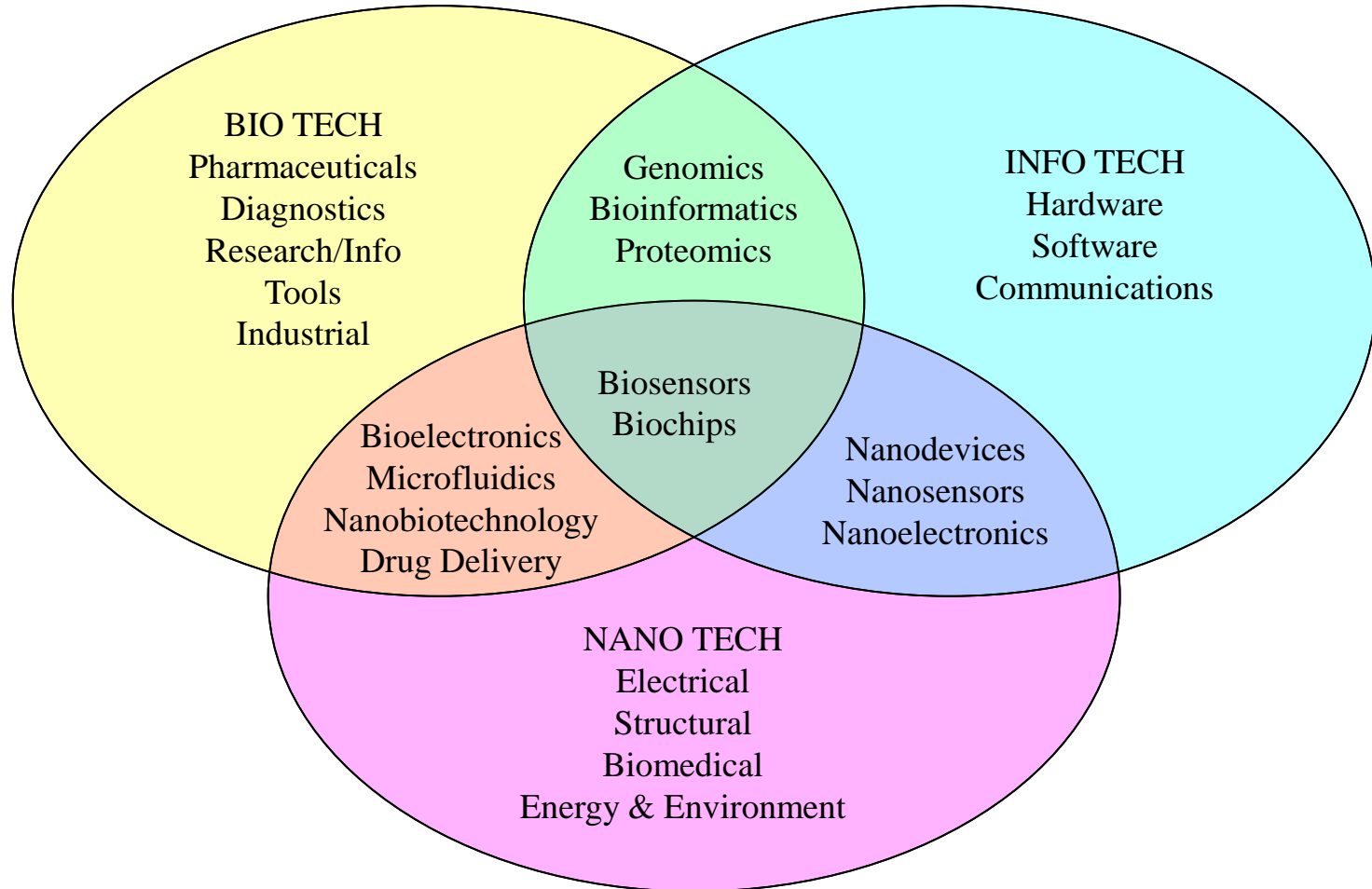


- Universities and centres of academic excellence
- Exploitable, converging Technologies
- Entrepreneurs with marketable ideas and products
- Business angels and established seed funds
- Sources of early stage venture capital
- Core of successful large companies
- Quality management teams and talent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

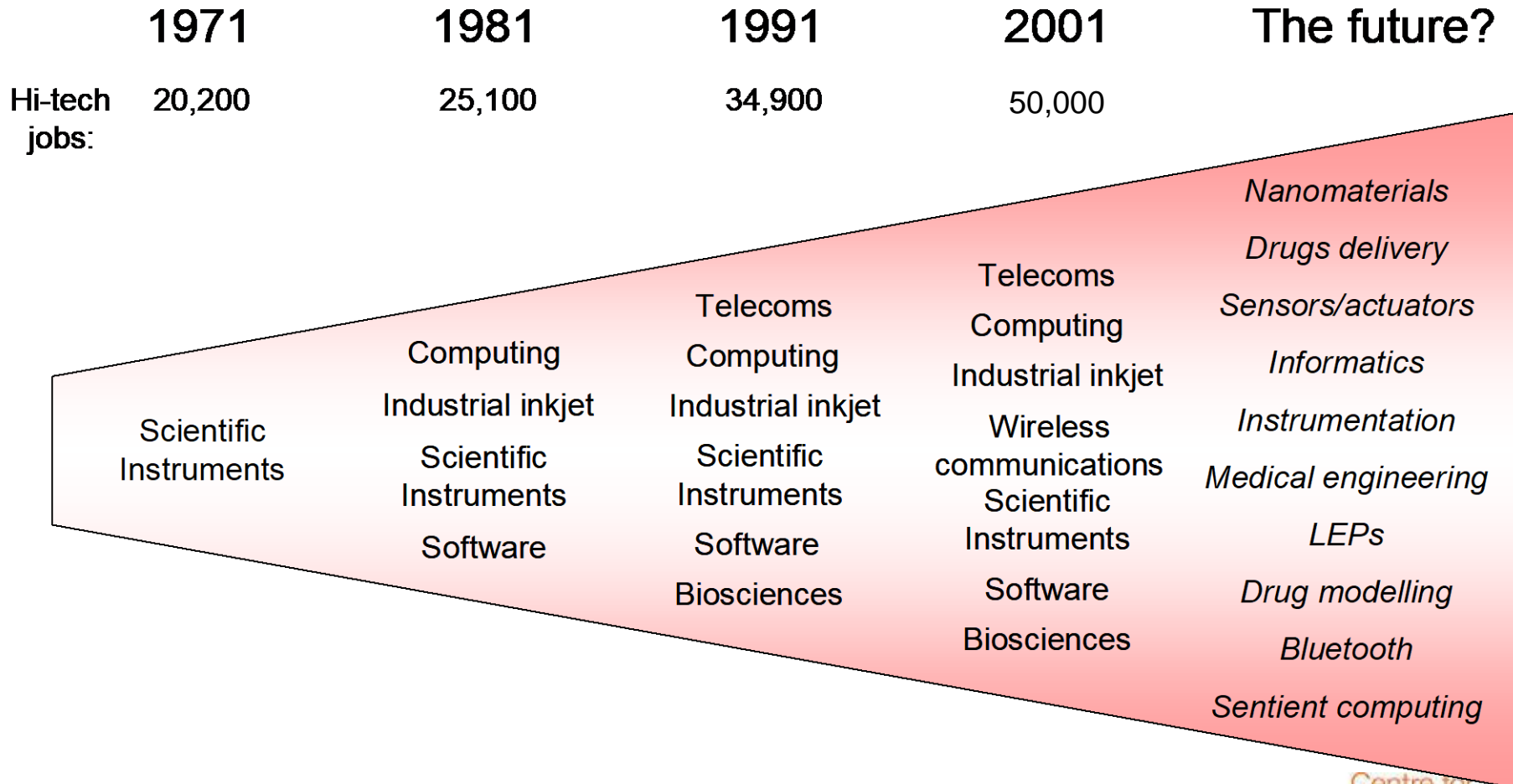
source :- Gibbons - Stanford University 1998

# Three Converging Revolutions

## Three Pervasive Technology Platforms

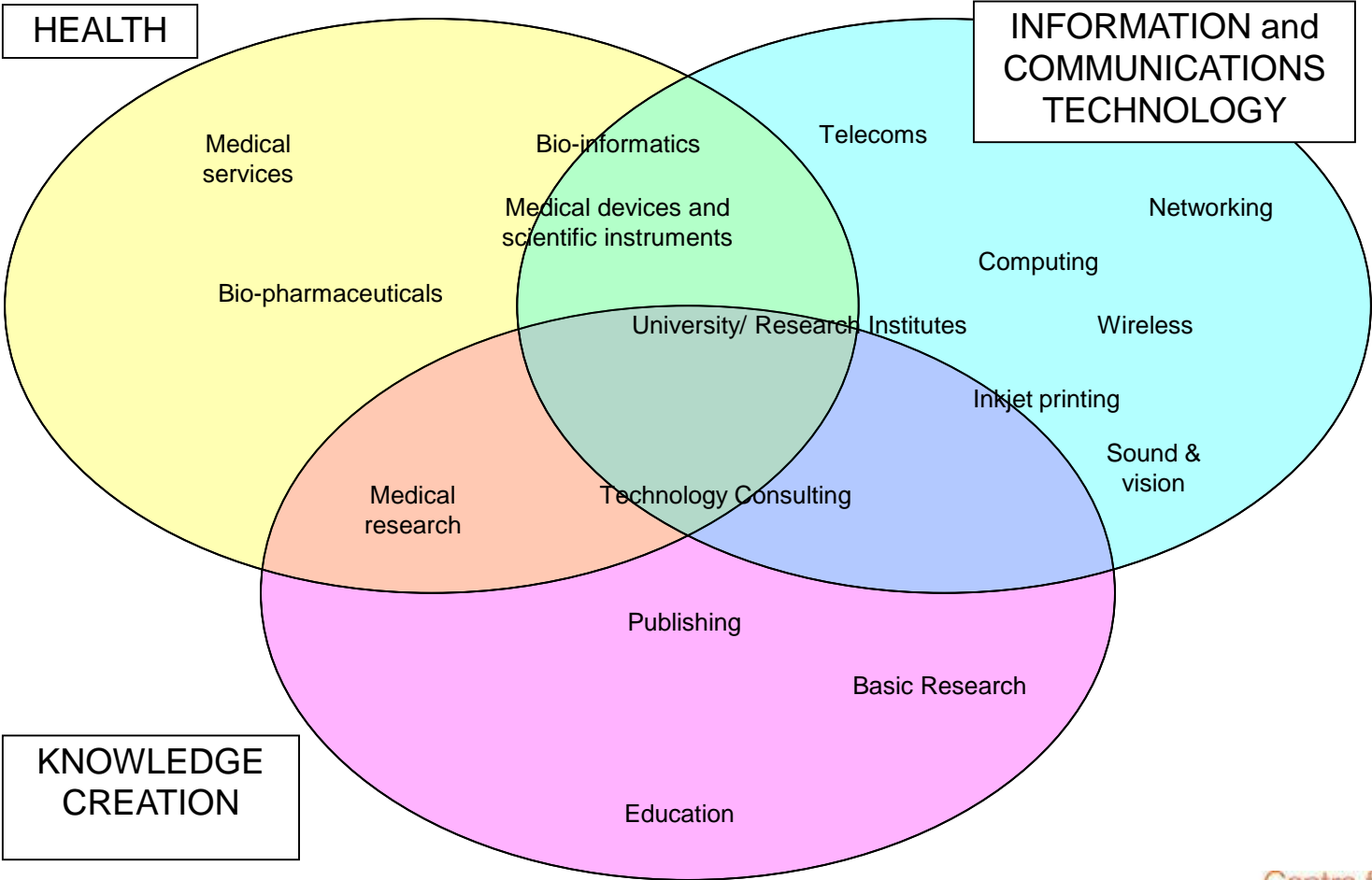


# The emergence of high-technology clusters in Greater Cambridge

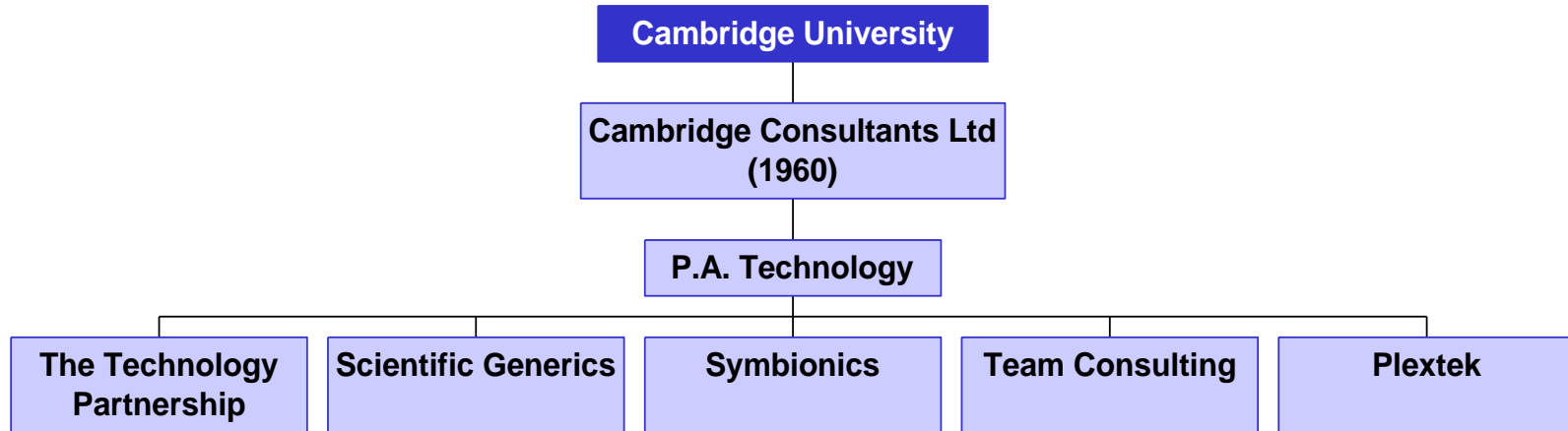




# Overlapping Technologies support Overlapping Business Clusters



# Birth of a cluster of world-class technology providers



- Combined headcount of technology providers currently exceeds 1,200 in UK
- PA Technology employs 3,500 Worldwide
- Combined revenues estimated at £120 millions – UK
- PA technology – Revenues \$750millions
- Some players have seed funds
- 60 identified spin-outs - highly successful incubator models



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# TRINITY COLLEGE – Founded 1363 – Adapting to CHANGE !

An ancient seat of learning....stepping out into the  
unknown – and into Hi-Tech

A significant act of faith by Dr John Bradfield

The FIRST Science Park in Europe 1970

## PIONEERING !

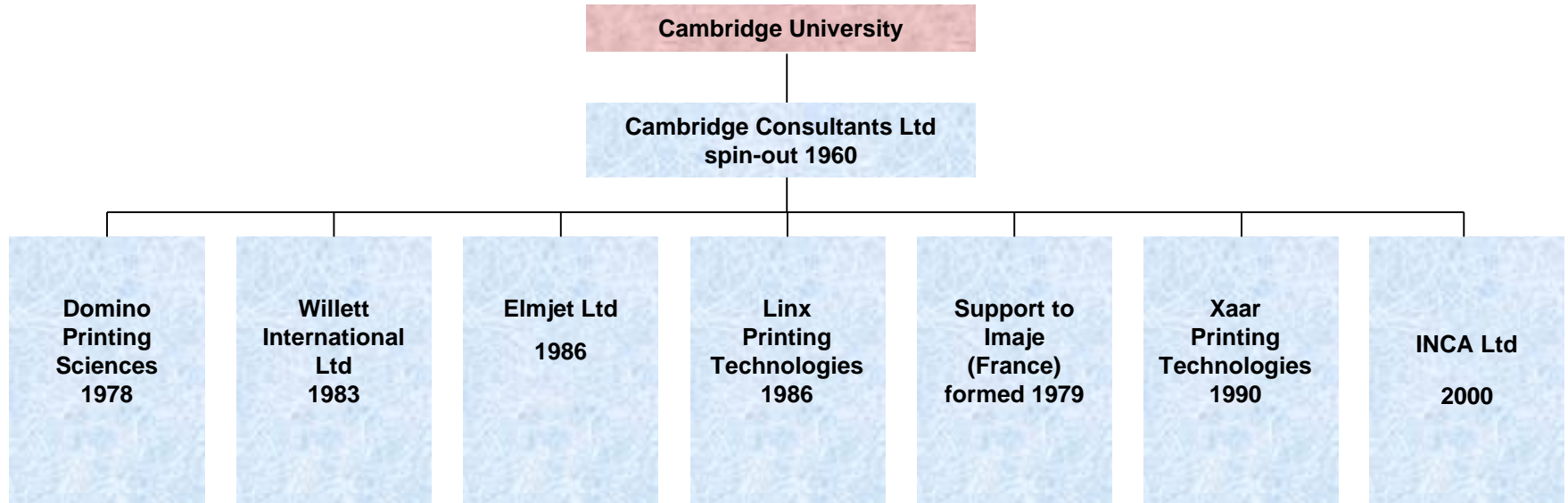
# Trinity College's Response – Entrepreneurship !



- Trinity had a strong scientific tradition\*
- First use of the word “scientist” 1835 (Whewell)
- Spare land available in a suitable location
- Funds to enable it to carry out the development.
- Picture – Trinity Gate - 1363

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

# Birth of a world-class cluster - Industrial Ink Jet, Cambridge



- Total current revenues £1 billion +
- Total headcount 3,000+
- Major market share participation worldwide
- Diaspora populates Ink Jet Industries in international locations
- Ink Jet Cluster is enabling “Plastronics” Cluster

**Microsoft**  
 WindRiver  
 symbian  
 integrated systems  
 EPOC  
 Sun  
 Axe Inc  
 JAVA  
 KADAK  
 ETNOTEAM  
 Acorn  
 Eonic  
 Tao Systems  
 GEOWORKS  
 FIRMWARE SYSTEMS  
 Mentor graphics  
 ACCESS  
 U S SOFTWARE  
 CMX COMPACT

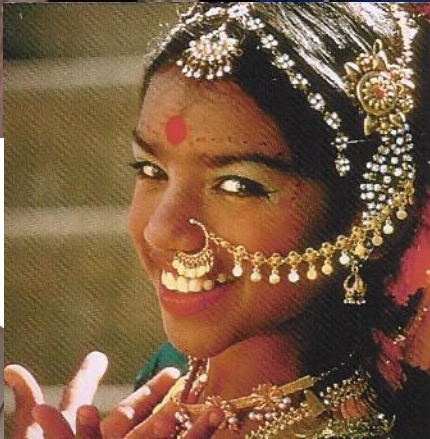
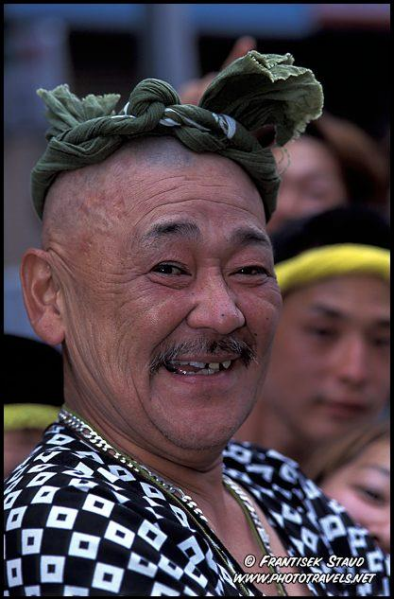
CoWare  
 TEXAS INSTRUMENTS  
 hp HEWLETT PACKARD  
 Aliant Communications  
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 ESCALADE  
 VeriSign  
 KOS  
 OROGAWA  
 Mentor graphics  
 MetaWare  
 EPI  
 Green Hills SOFTWARE  
 ADS  
 COGENT  
 SYNOPSYS  
 cygnus LAUTERBACH



Acorn  
 TEKMEMA  
 SYMBIONICS  
 SSL  
 Sirius communications  
 ORIGIN  
 neXus  
 WIPRO  
 Acapella  
 N1  
 SB  
 PAHTEC  
 Virata  
 GSPRS SEMICONDUCTOR

ORACLE  
 ENSIGMA  
 SONY  
 IBM  
 JAVA  
 POLYHEDRA  
 MOTOROLA  
 Lexicus Division  
 RONTIER  
 AltoCom

RNT Limited  
 RNT Limited



# Convergence and Diversity....Is it a Paradox?....

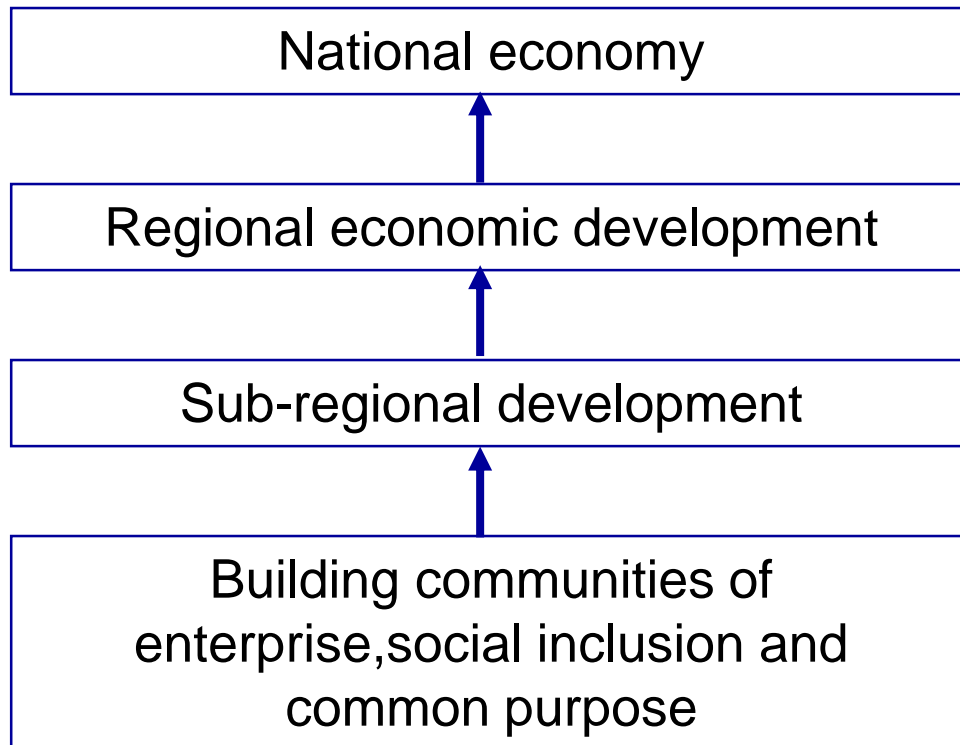
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- Impact of Cultural Diversity in Silicon Valley and Cambridge
- Cambridge – 20% of University Population “non UK”
- Cultural and Ethnic Diversity and Technological Convergence – Synergy and Symbiosis
- Dilemmas and “***Creative Contention***”



# Building an Enterprise Society. Networking and Communities – Manageable Units – working where real PEOPLE can influence things

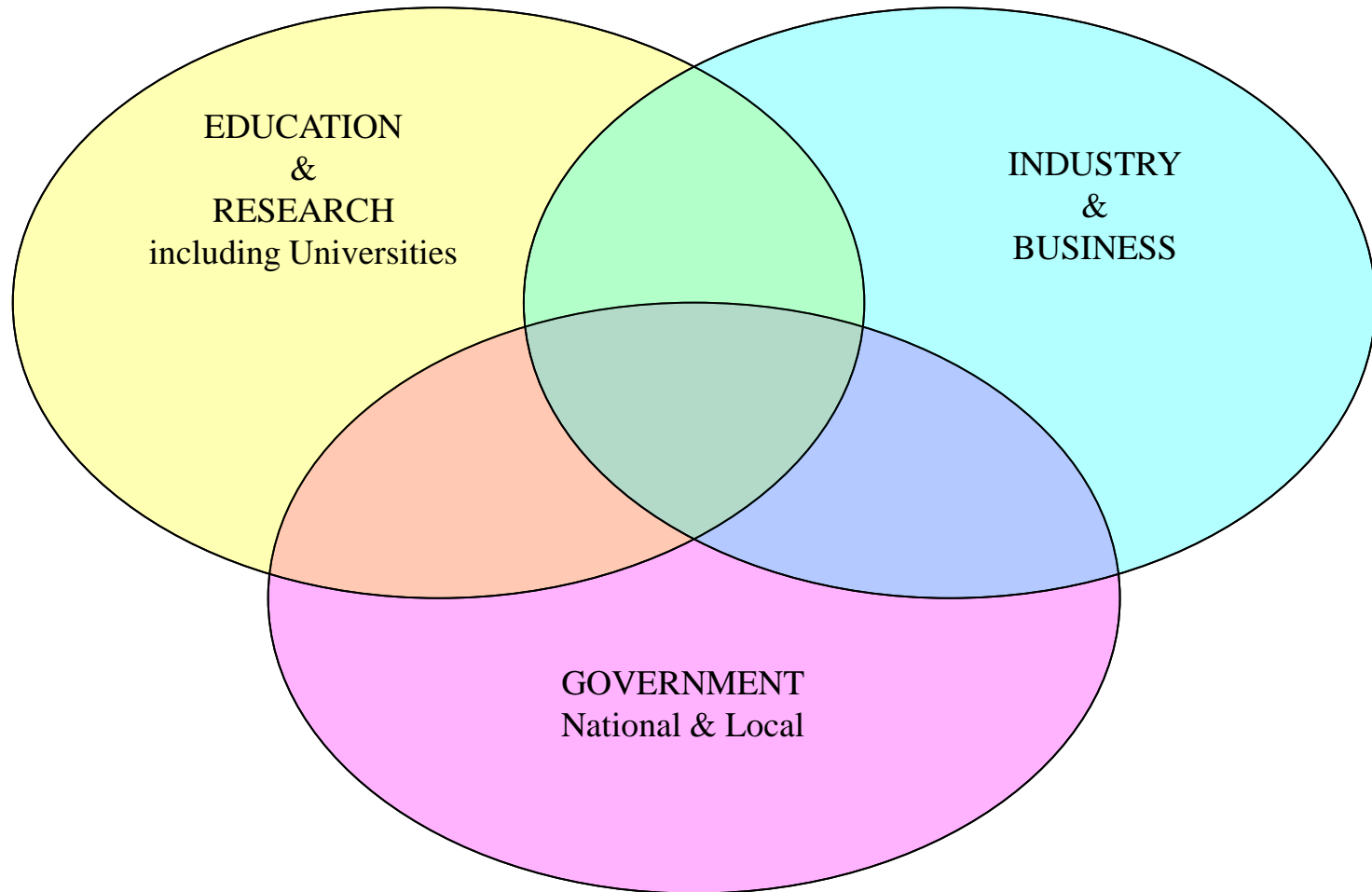
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# Converging Interests and Influences

Innovating in the Overlap and Adding Value – working together  
– Essential Partnerships – where does the Church fit in ?

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# ***What about -Inspiration, Mindsets, Leadership and Role Models-Creativity and Innovation? Pioneers and Heroes***

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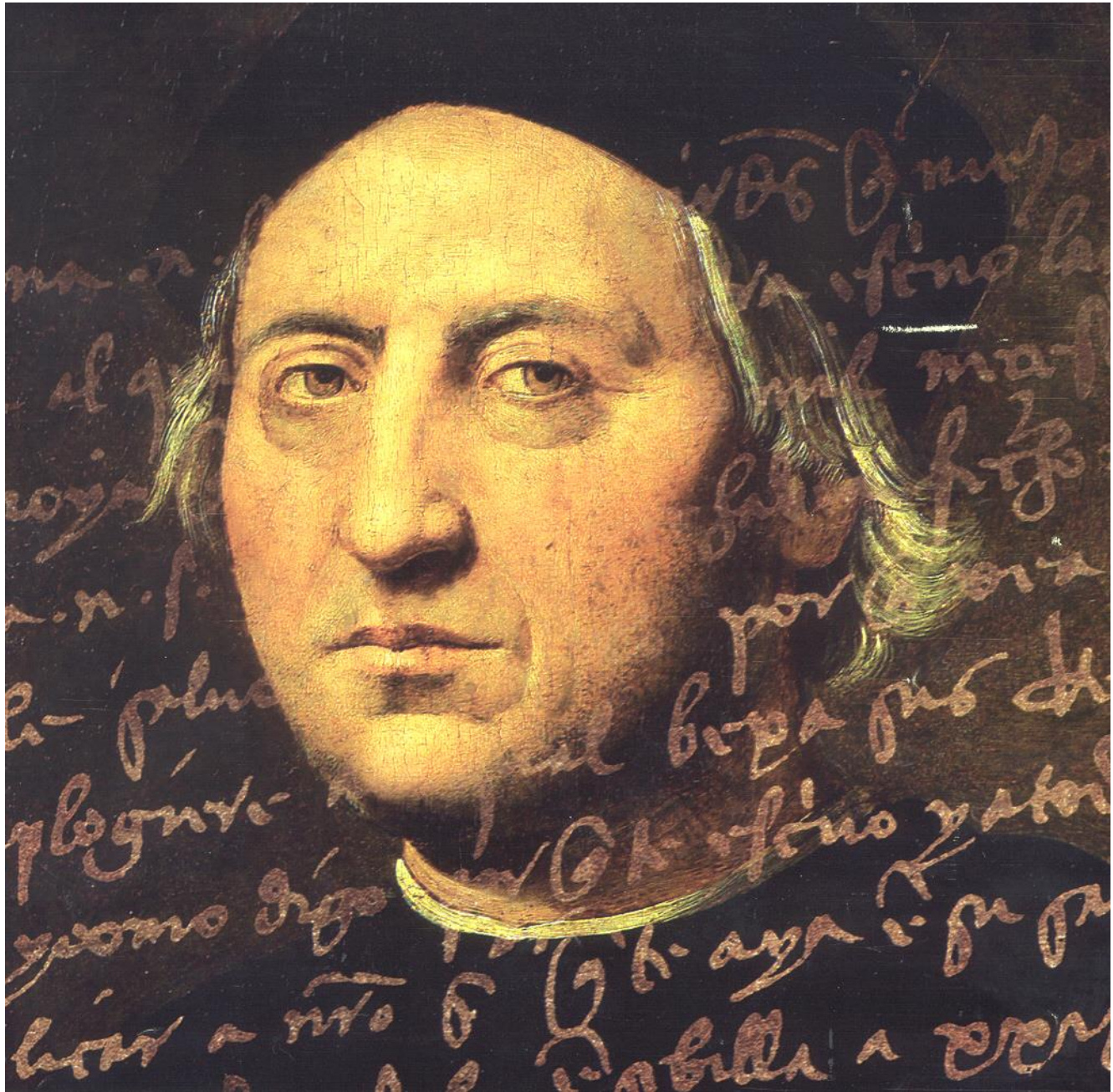
**So – Let's look at some HEROES !**

The Spirit of Exploration and  
Adventure

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

---

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







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**7** 1431-1433  
The last voyage, to Africa's Swahili coast, with a side trip to Mecca, marked the end of China's golden age of exploration and of Zheng He's life. He presumably died en route home and was buried at sea.

**6** 1421-1422  
Zheng He's fleet continued the emperor's version of shuttle diplomacy, returning ambassadors to their native countries after stays of several years, while bringing other foreign dignitaries back to China.

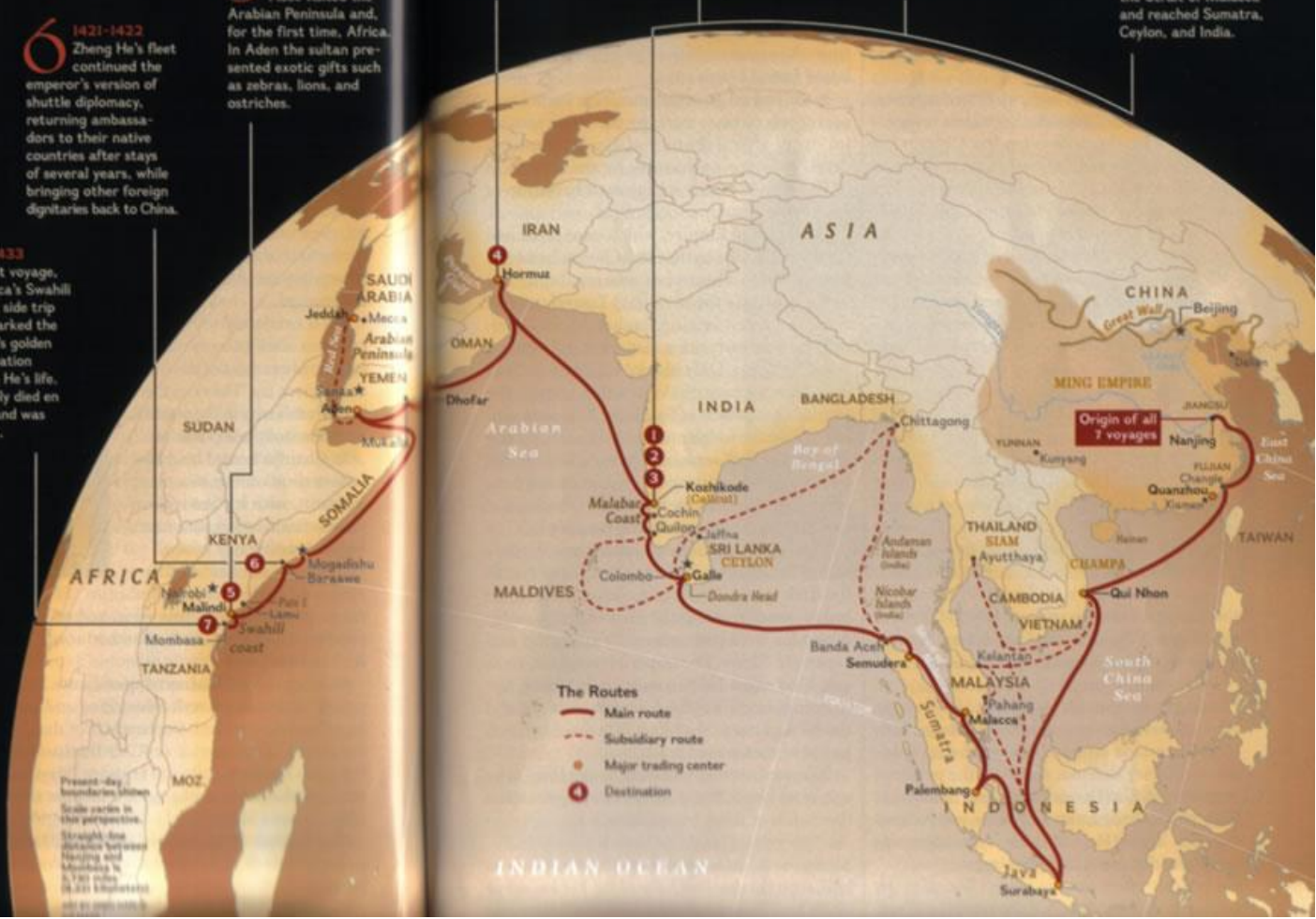
**5** 1417-1419  
Zheng's Treasure Fleet visited the Arabian Peninsula and, for the first time, Africa. In Aden the sultan presented exotic gifts such as zebras, lions, and ostriches.

**4** 1413-1415  
In this voyage's wake, the first to travel beyond India and cross the Arabian Sea, an estimated 10 states sent tribute and envoys to China, underscoring the Ming emperor's influence overseas.

**3** 1409-1411  
Although notable for the imperial fleet's only major foreign land battle, the voyage was also marked by Muslim Zheng's offering of gifts to a Buddhist temple, one of many examples of his ecumenism.

**2** 1407-1409  
The fleet returned foreign ambassadors from Sumatra, India, and elsewhere who had traveled to China on the first voyage. The expeditions firmly established the Ming dynasty's Indian Ocean trade links.

**1** 1405-1407  
317 ships  
27,870 men  
In July the fleet left Nanjing with silks, porcelain, and spices for trade. This well-armed floating city defeated pirates in the Strait of Malacca and reached Sumatra, Ceylon, and India.





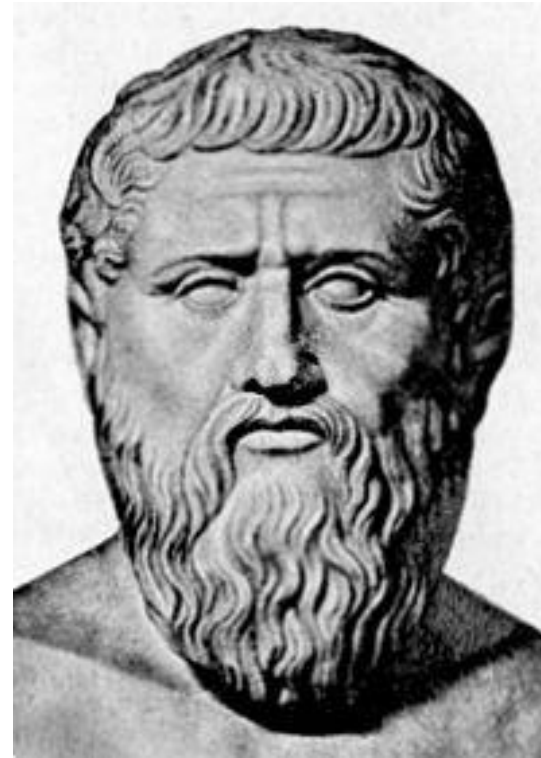
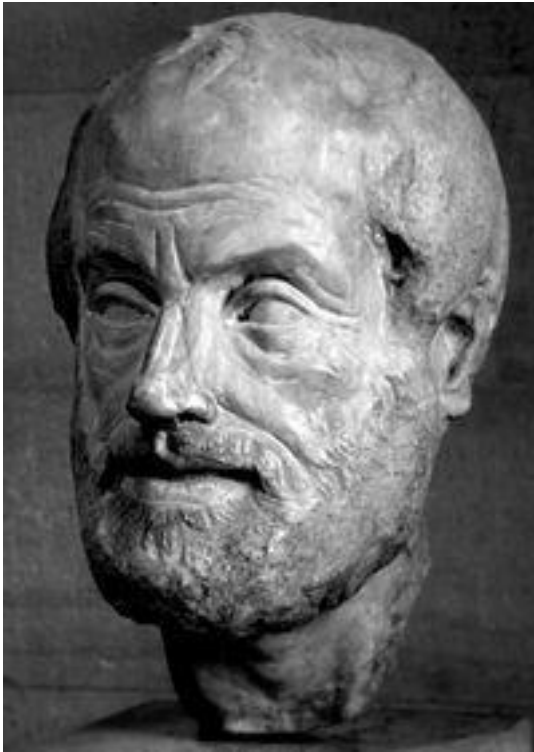
# Pericles – “First Citizen of Athens” – Soldier, Thinker, Leader, “Culture, Beauty, Glory”

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# Aristotle – Plato – “Before their time – Thinkers, Philosophers, Leaders”

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# About the same time in China.....“The Greatest Master” ? – Can we learn anything.....

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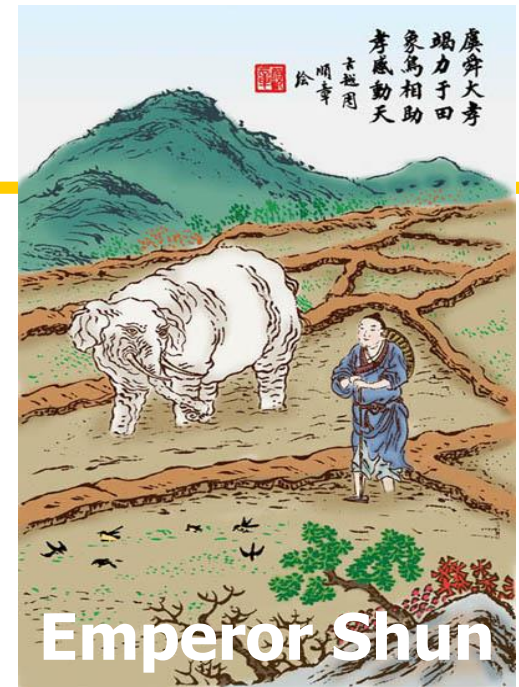
“Virtue is the root; wealth is the  
consequence.”

- Confucius, 500 BC



# *The Book of History*

“允执厥中”  
“To Impartially  
Adhere to the  
Middle Way”



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“Without self-interest, your interests succeed.”

- Lao Tzu, 500 BC

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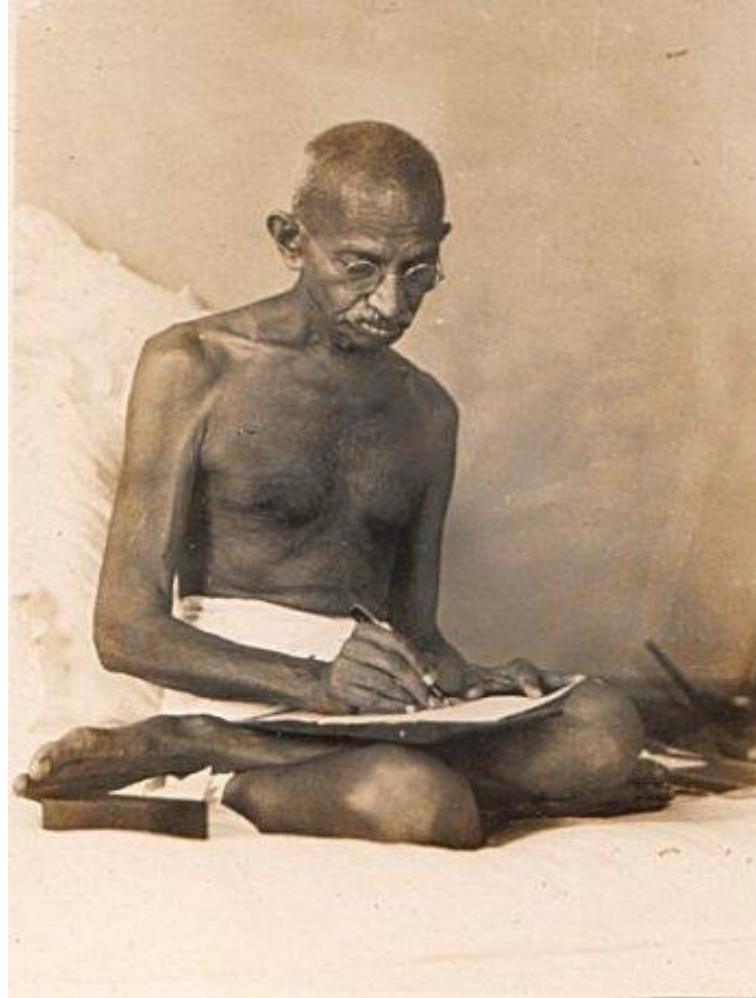
“Before marriage know your partner’s weaknesses; in marriage use your partner’s strengths.”

- Chinese proverb



# Heroes can show Humility

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# How BIG is the World ?

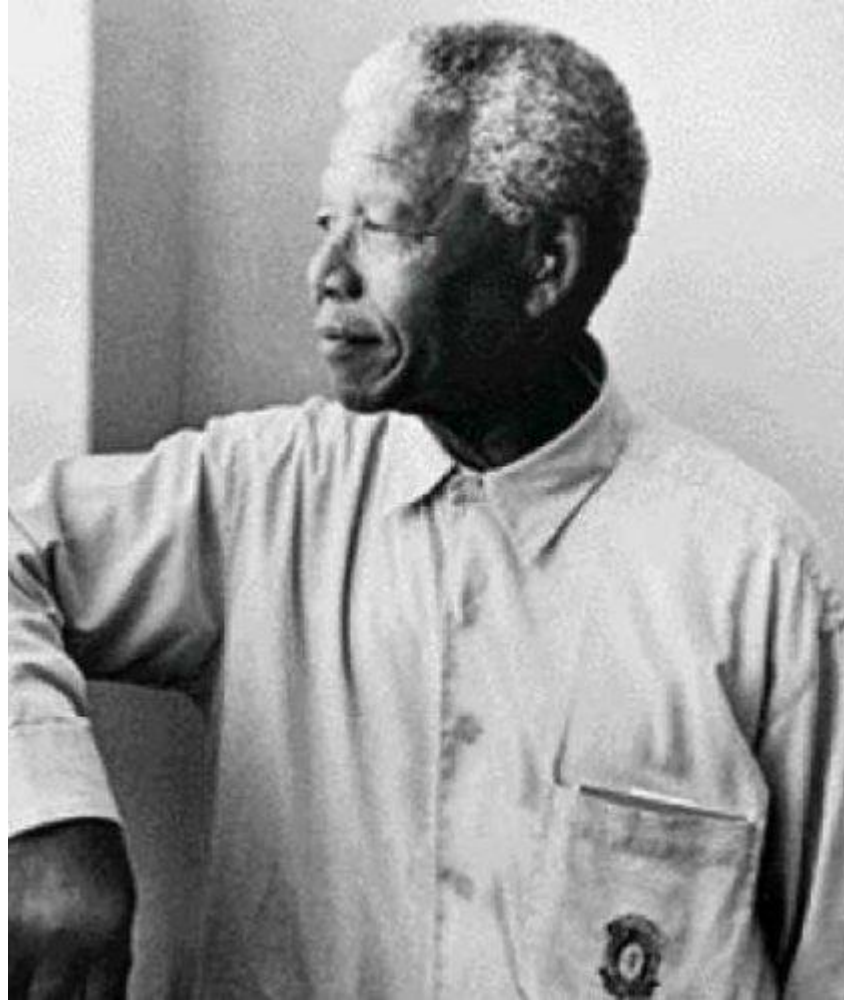
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“The World is big enough for everyone’s  
needs – but it is too small for the GREED of  
one man !”

*Mahatma Gandhi*

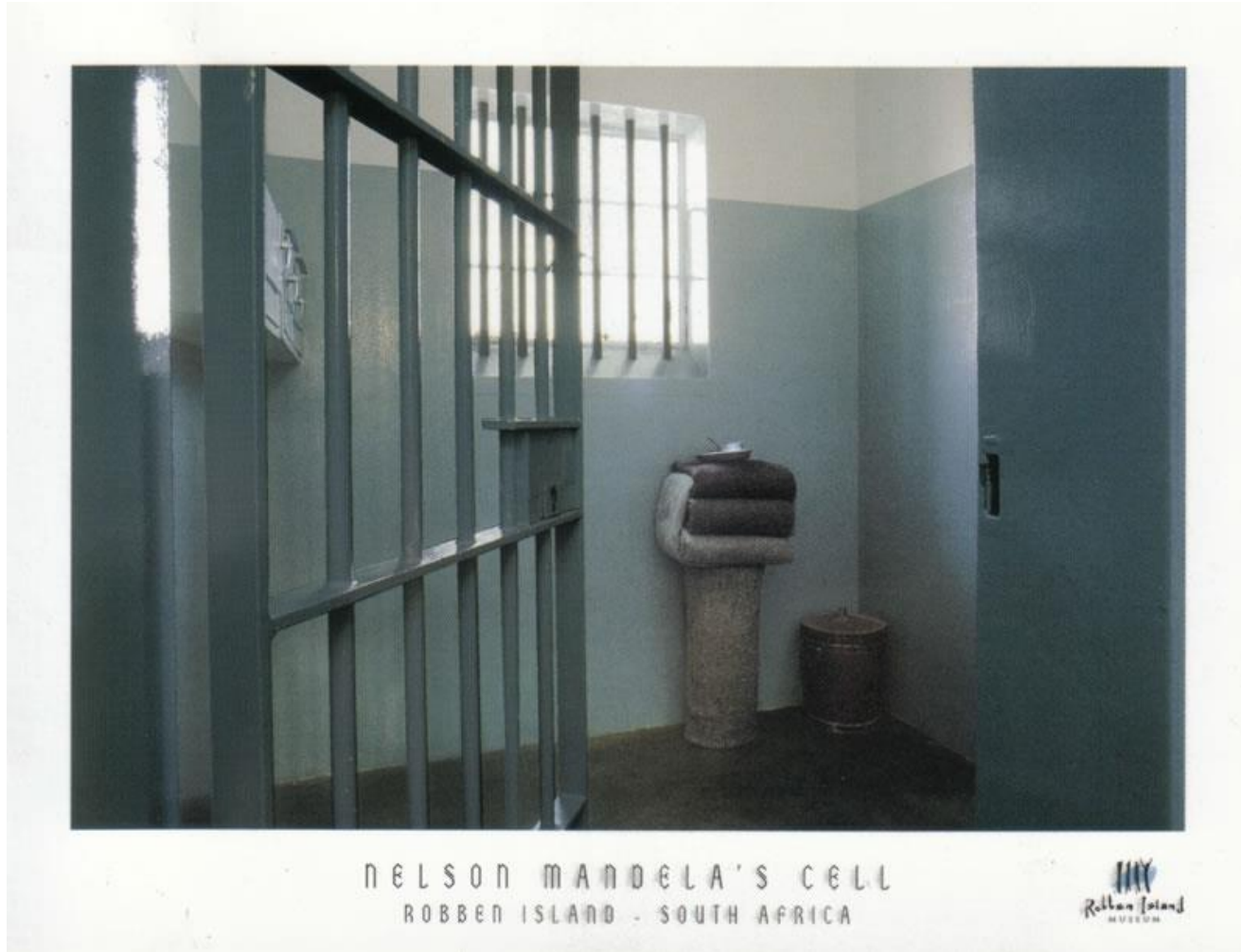
# A REAL Hero....he changed the WORLD ! From a prison cell

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# A Hero's Home for 18 Years....Could WE have survived it ?

---



# China Wakes ! A Recent Chinese Hero

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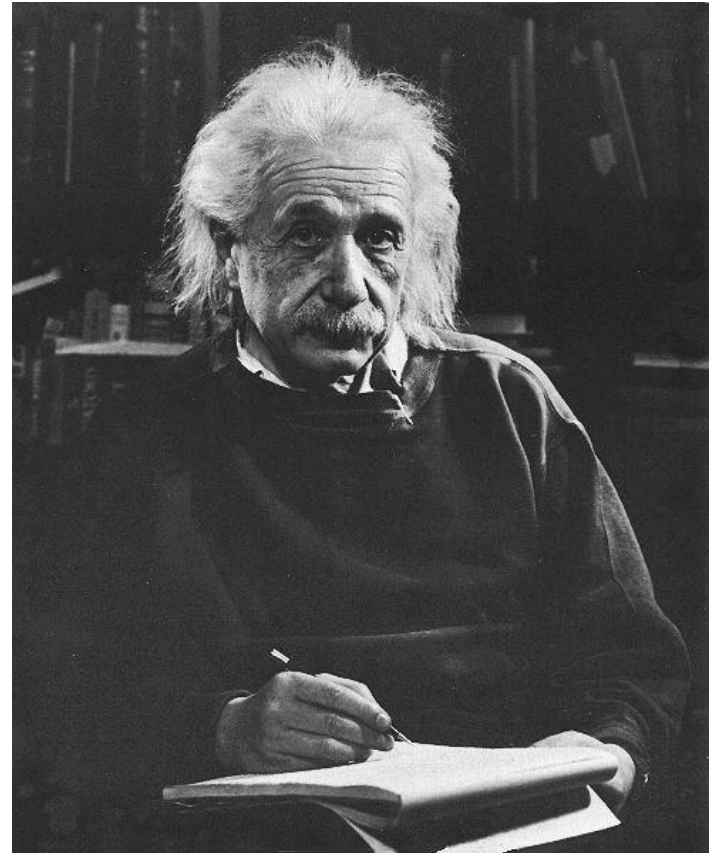


Deng Xiaoping shaking hands with General Secretary Jiang Zemin in 1992. Flanking them are Wan Li, then head of the National People's Congress, and Deng's daughter, Deng Rong. [Photo by Xinhua.]

“To get rich is  
GLORIOUS”

Deng Xiaoping 1982

# A “Brainpower Hero”



# Einstein on IMAGINATION....

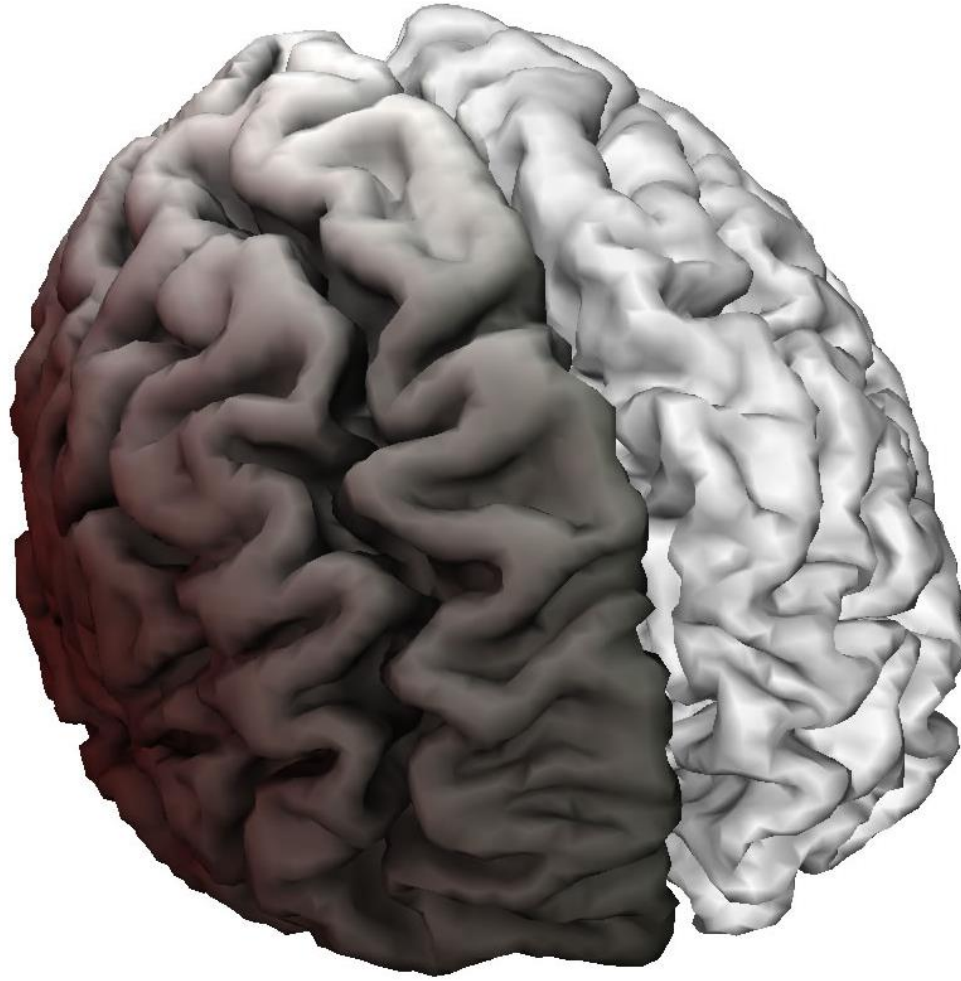
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**“Imagination** is more important than knowledge. Knowledge is limited. Imagination encircles the world”

*Albert Einstein 1879 - 1955*

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

---





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

---



# 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*

# Schumpeter (1911) on Entrepreneurs

---

**“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*

*Josef Schumpeter Vienna 1911*

# Is this the image of An Entrepreneur?

---



# Imparting Knowledge and Wisdom – “Creative New Thinking and Inspiration”

---



# Heroics

---



“



Anyone who has never made a mistake  
has never tried anything new. /

*Albert Einstein (1879–1955)*

”

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

---





# 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.”

# 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.....

# 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

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

---

- “The Source of Real Discovery consists not in seeking new Landscapes .....
- But in having NEW EYES”

*Marcel Proust*

# 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?....

# Leadership, Vision and Achievement – Balancing Vision with Plans and Action

---

- Vision without Action is a Daydream....
- Action without Vision is a Nightmare....

*Japanese Proverb – Anon*



# Thinking of “Vision into Action” Anyone know him?....

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# Growing up – a young man whose ideas changed the world – strong Cambridge connections

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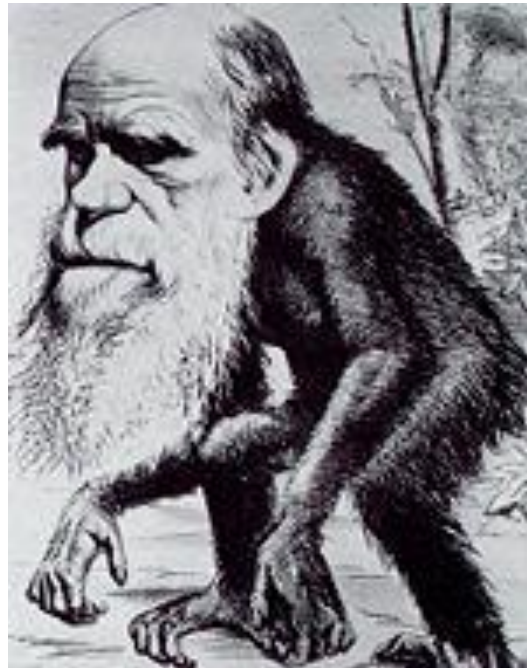
# Mature – recognisable ?

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# Often Lampooned – heroes often are....

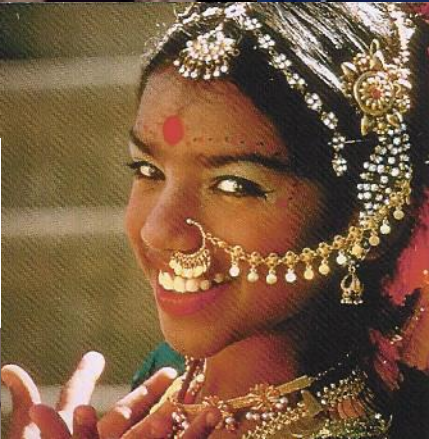
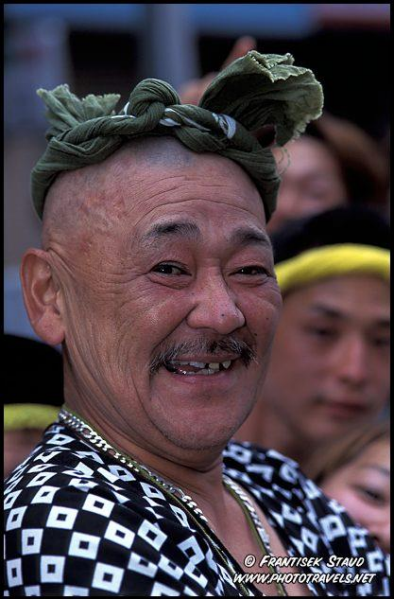
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# Familiar ?

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# Time for a final little story, about a bright little boy....

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# Who became a brilliant young man....

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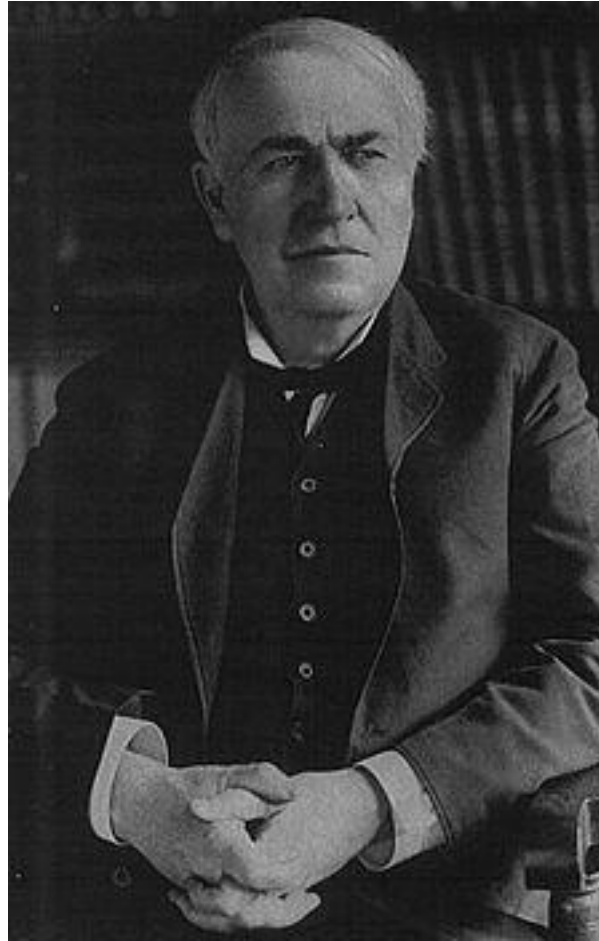
# Inventor and champion of Intellectual Property Rights.....

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NOT just the inventor of the Electric Light.....  
**Thomas Edison – he built an Empire on Intellectual  
Property – “Capturing Imagination”**

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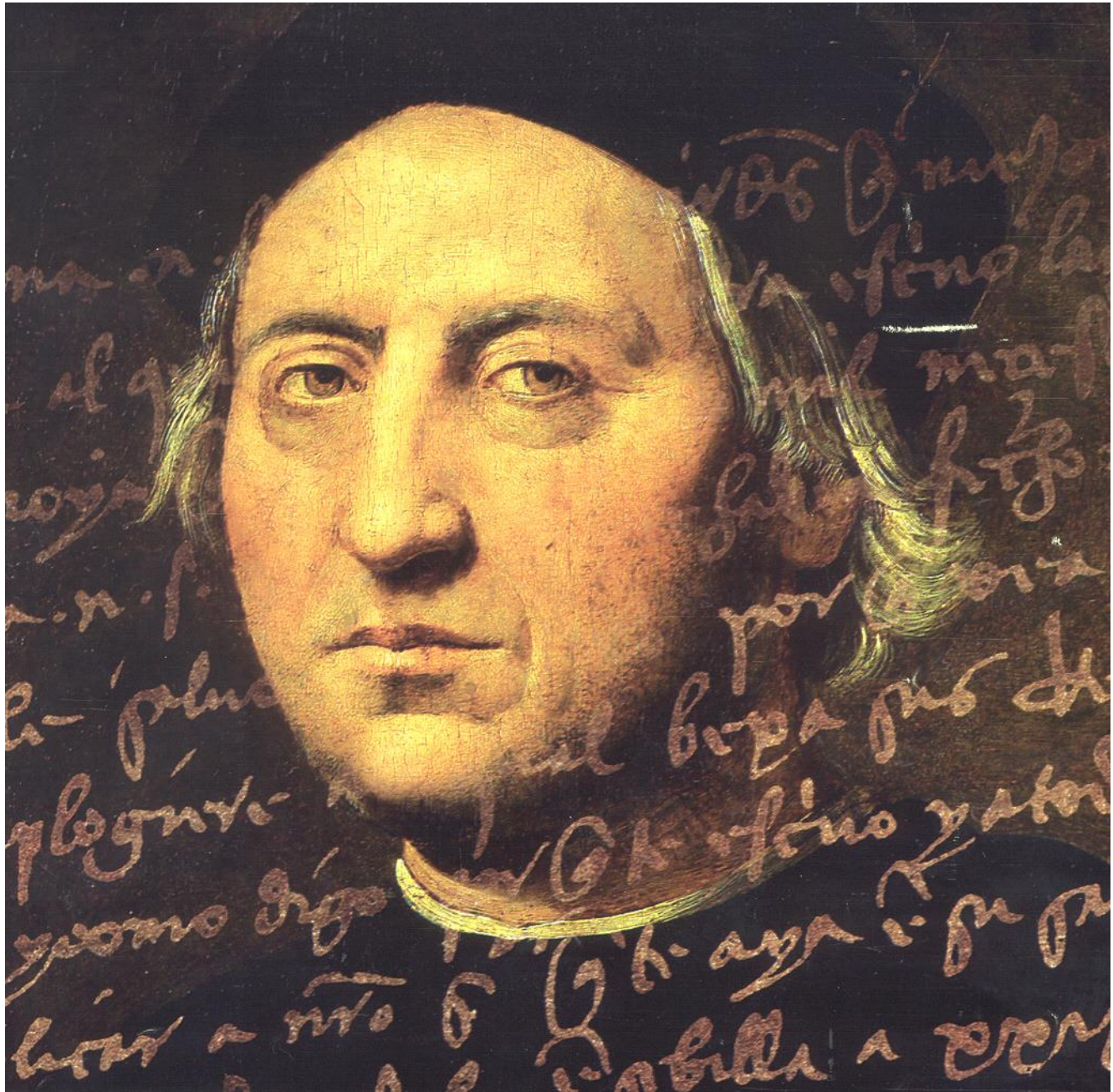


# Can we achieve Excellence ?

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***“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**





**“If at first you don’t  
succeed, try again.  
Then quit: no use being  
a damn fool about it.”**

**W.C. FIELDS™**  
1879-1946

# If at first you don't succeed....try again....but learn from the mistakes!



To be happy in life all you need is  
ignorance and self confidence

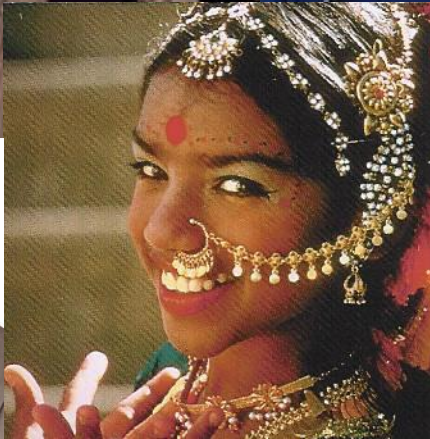
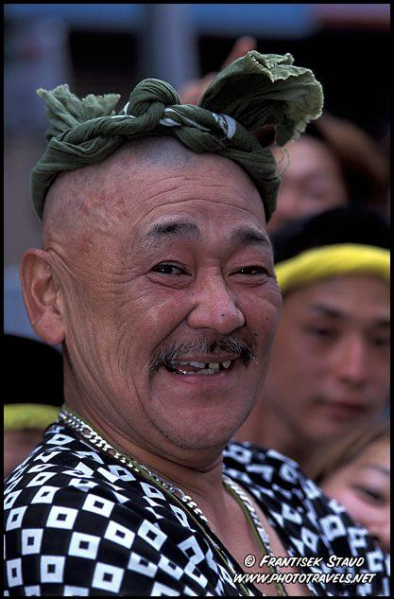


# Opportunities for THE NEXT GENERATION- Key Words and Actions....

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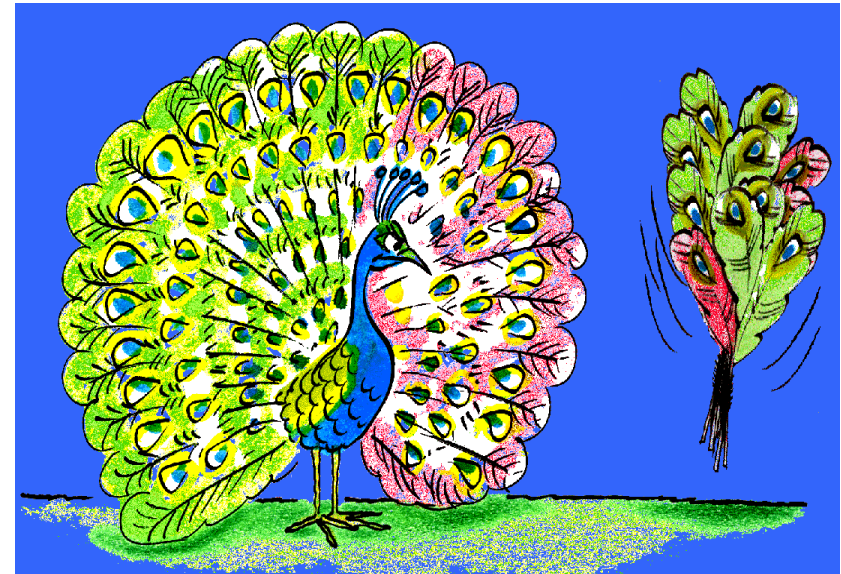
**IMAGINE AND HAVE VISION  
CREATE  
INNOVATE  
INVENT  
“WORLDTHINK” – GLOBAL VIEW  
ACQUIRE KNOWLEDGE  
PLAN AND PRACTICE  
NETWORK! NETWORK!  
INSPIRE OTHERS  
TRUST AND RESPECT  
ENJOY!  
LOVE**





# And....even when we are doing well – Business and / or Church....

- 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, Complimentation and Partnership – break down barriers - and **CHANGE THE WORLD ! – WORLD WITHOUT BORDERS!**
- Beware Arrogance
  - “Today’s Peacock is tomorrow’s feather duster”



# In Pursuit of Excellence !

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***“Excellence can be achieved, if we:  
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Dream more than others think is practical,  
Expect more than others think is possible.”***

**Deborah Johnson-Ross**

**Time waits for no man ( or woman ) – and  
the world is changing – call to ACTION !**

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For more information.....

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