

Information Systems (IN5210)

Global Sourcing



Prof Brian Nicholson

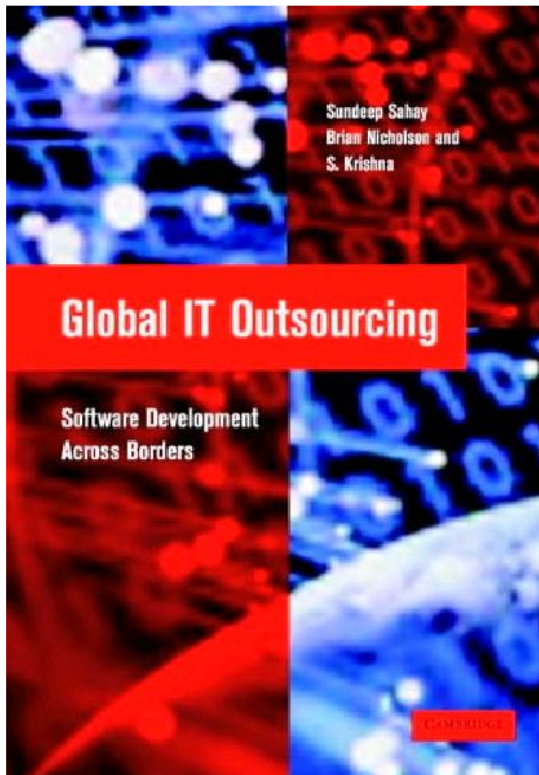
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Learning objectives

- Outline the rationale and determine the implications of global sourcing

Agenda

- Background and definitions
- What, why, where of global sourcing
- “The Human Cloud”
- Impact Sourcing



Management Accounting Research 17 (2006) 238–258

Management
Accounting
Research
www.elsevier.com/locate/m

Transaction costs and control of outsourced accounting: Case evidence from India

Brian Nicholson*, Julian Jones, Susanne Espenlaub

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Information and Organization 11 (2001) 25–43

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Information and Organization 14 (2004) 329–365

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Some political and cultural issues in the globalisation of software development: case experience from Britain and India

Brian Nicholson ^{a,*}, Sundeep Sahay ^b

Embedded knowledge and offshore software development

Brian Nicholson ^{a,*}, Sundeep Sahay ^b

^a *School of Accounting and Finance, University of Manchester, Mezzanine Floor, Crawford House, Booth Street East, Manchester M13 9PL, UK*

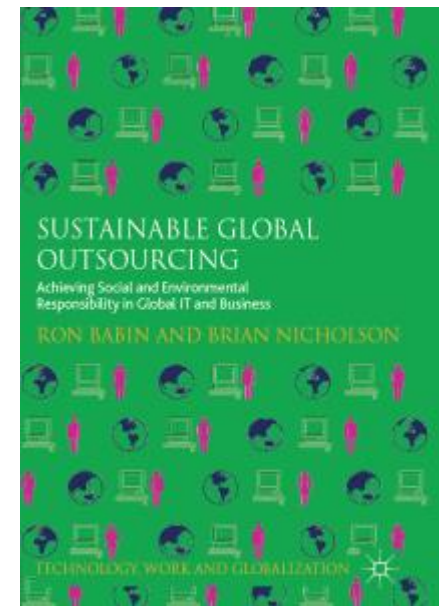
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OFFSHORE ACCOUNTING OUTSOURCING: THE CASE OF INDIA

A report by

Dr Brian Nicholson
Manchester Business School

Dr Ainul Aman
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Corporate Social and Environmental Responsibility and Global IT Outsourcing

MIS
QUARTERLY
EXECUTIVE

CORPORATE SOCIAL AND ENVIRONMENTAL RESPONSIBILITY AND GLOBAL IT OUTSOURCING¹

Ron Babin
Ryerson University
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Brian Nicholson
Manchester Business
School (United
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Executive Summary

Buyers of IT outsourcing services increasingly expect providers to demonstrate strong commitment to corporate social and environmental responsibility (CSER). We identify two key challenges for CSER in global information technology outsourcing (GITO): (1) environmental issues related to increasing power consumption and related greenhouse gas emissions, and to e-waste, and (2) social responsibility issues, which are growing in importance as global CSER guidelines, standards, reporting frameworks, and regulations raise public expectations. Our research has identified four key trends in the CSER knowledge and capabilities required by outsourcing buyers and providers. We provide guidelines for acquiring the knowledge and capabilities that will enable buyers and providers to effectively integrate CSER within GITO.



Research Article

Exploring the effects of liminality on corporate social responsibility in inter-firm outsourcing relationships

Brian Nicholson¹, Ron Babin², Steve Briggs³

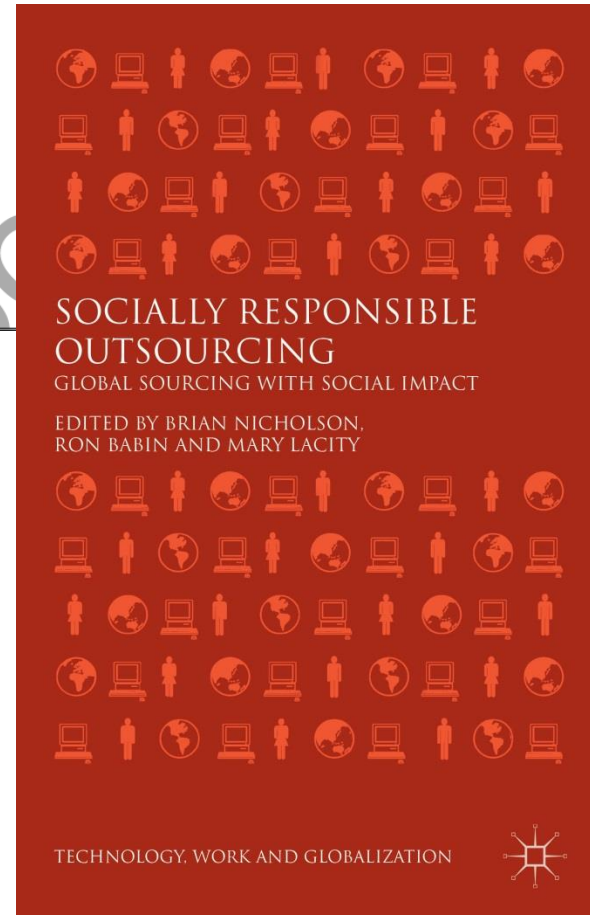
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Definition of offshore outsourcing

- Offshore outsourcing describes the practice of contracting to outside vendors in another country, in which the client company has no direct ownership
- Also offshore “captives” - offshoring

TECH SUPPORT?

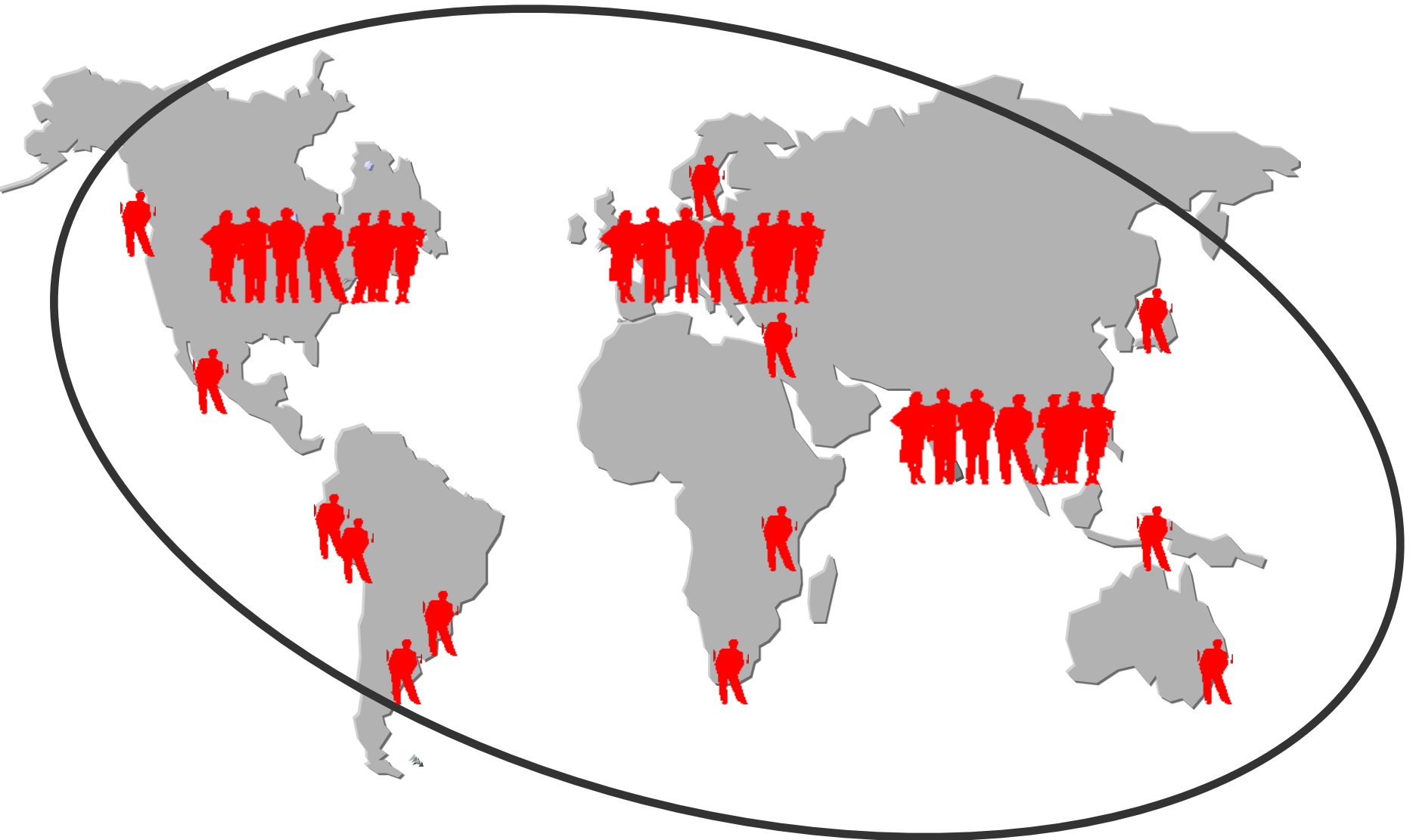
YES,
GOOD
MORNING
SIR...

...
HOW
CAN I
...

...
HELP
YOU?

Our
Outsourced
World

IT enabled distributed expertise



Genpact, Accenture (ACN), IBM Services, or another big outsourcing specialist dispatches teams to meticulously dissect the workflow of an entire human resources, finance, or info tech department. The team then helps build a new

Historically : Manufacturing was disaggregated globally – services were bought and consumed in places

Today : services are disaggregated globally and consumed globally

Cisco Systems (CSCO), ABN Amro (ABN), Unilever, Rockwell Collins (COL), and Marriott (MAR) were among those that signed such megadeals, worth billions.

Bloomberg Businessweek

What, why and where of offshore outsourcing

- Why outsource offshore
- What to outsource offshore
- Where are the venues for offshore outsourcing

Why outsource offshore?

- Technology “push” :
 - digital information can be transported cheaply and easily
 - Dramatic reduction in cost of hardware, cheap broad band fibre, satellite communication
 - communication and groupware technologies: low cost or free - email, skype video conference, net meeting, various social computing etc



First stored programme computer 1948 : The Manchester Baby

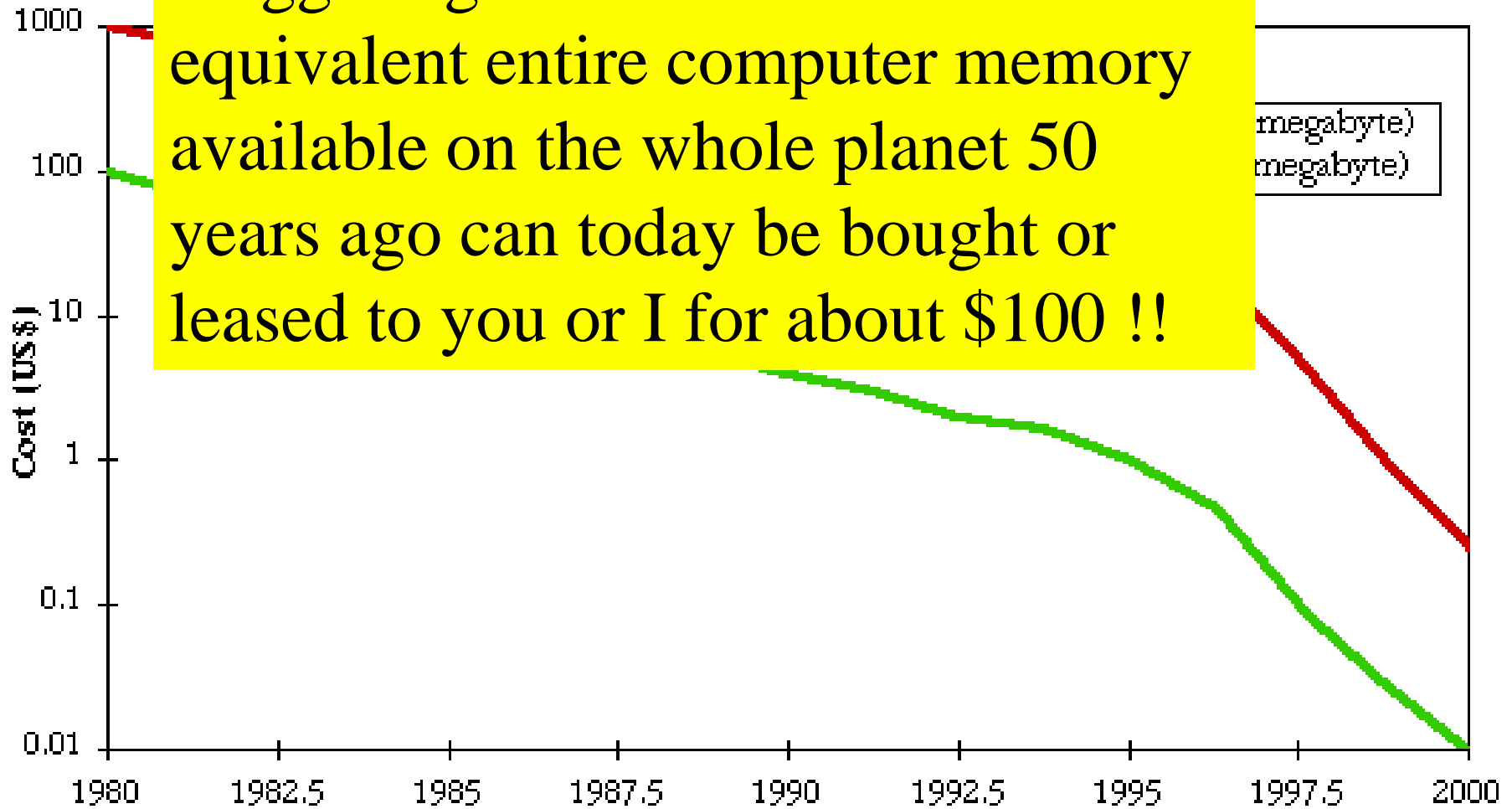
Feature	Manchester Baby, 1948	Processor from year 2000
Size	Filled a room	fills 7 mm by 3mm of silicon
Electrical power usage (<u>Watts</u>)	3.5kW (3 500 W)	215mW (0.215 W)
<u>Instructions</u> executed per second	700	100,000,000
Energy efficiency (<u>Joules</u> per instruction)	5	0.000 000 002 (e.g. 2,000,000,000 times more efficient than The Baby)



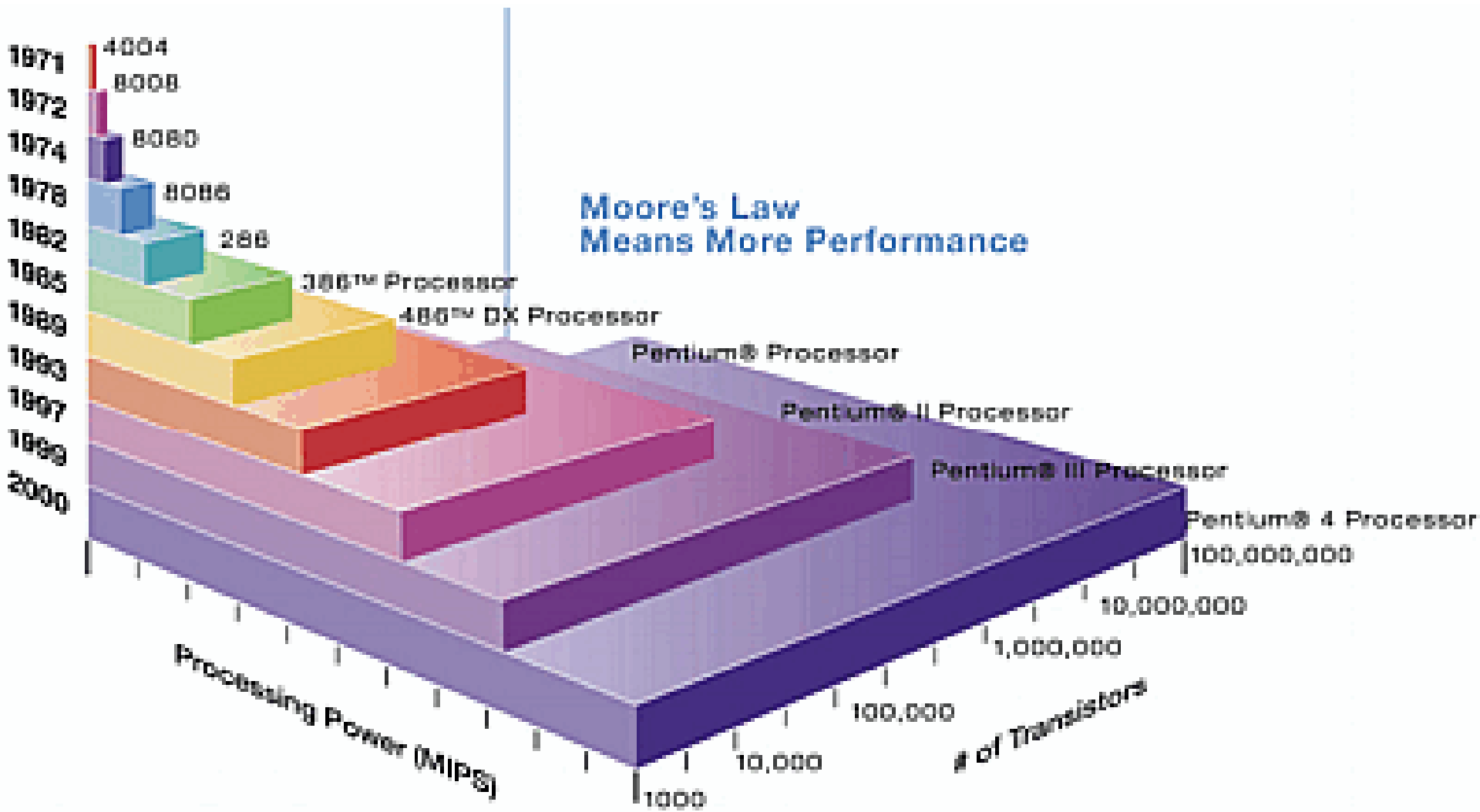
\$20 million

Staggering fact number 1: The worlds most powerful Cray supercomputer available when I was an computing undergraduate late 80's ("the world's most expensive love seat") is easily beaten by the iPad on your desk !

Staggering fact number 2 : The equivalent entire computer memory available on the whole planet 50 years ago can today be bought or leased to you or I for about \$100 !!

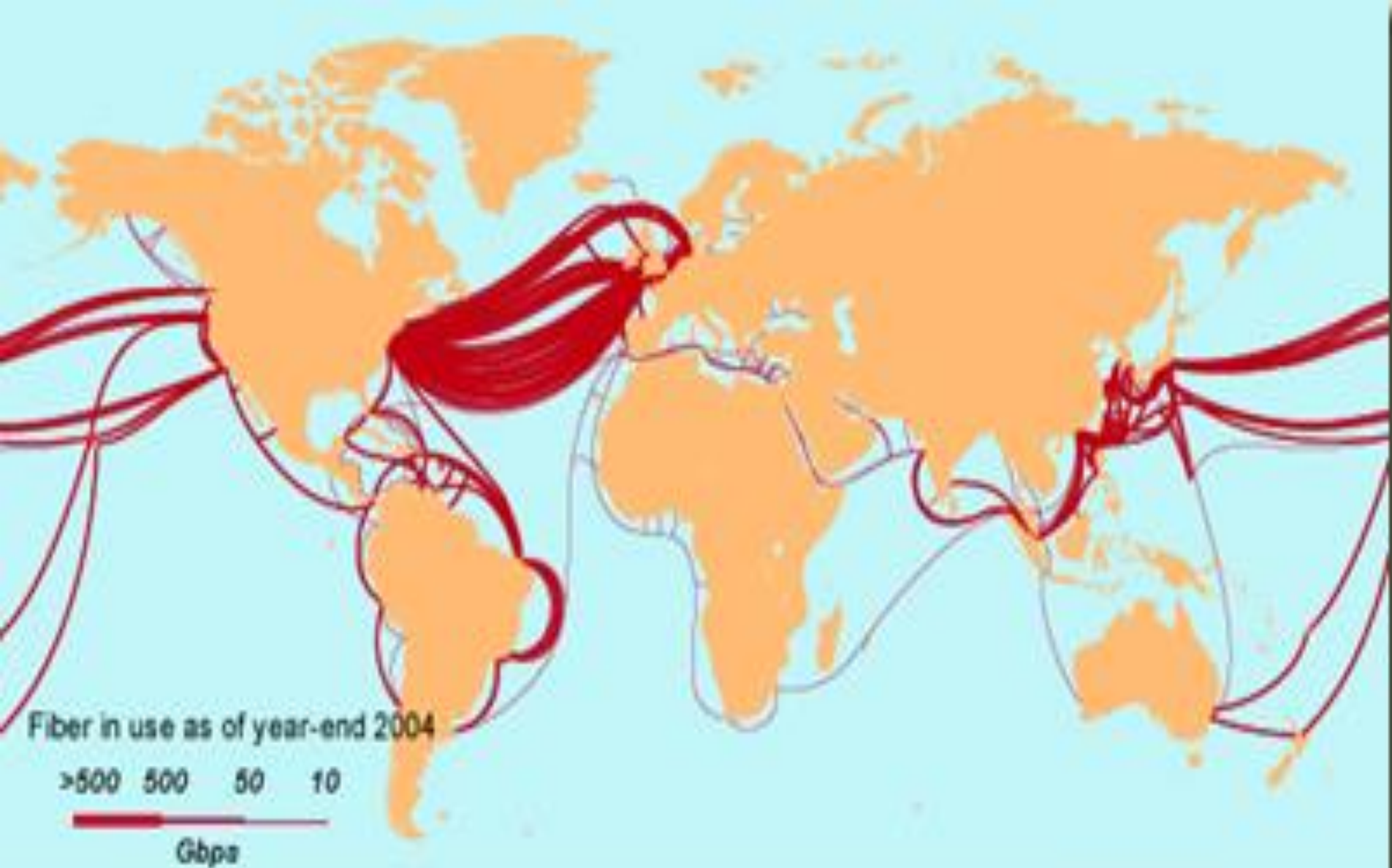


Number of transistors on a chip doubles every two years




Staggering fact number 3 : The dramatic increase of global connectivity

- ~~Satellites~~
 - 1965 Intelsat I 240 telephone conversations or 2 TV channels
 - 1998 Intelsat VIII 112500 telephone conversations and 3 TV
 - 100 + geo stationary satellites in orbit
- Fibre optics
 - A single pair of optical fibres could carry North Americas entire long distance traffic. Gemini completed 1998 had more capacity than all existing transatlantic cables combined



Source: TeleGeography Research

© 2006 PriMetrica, Inc.



Wireless and mobile devices have allowed connectivity without expensive physical infrastructure



Free collaboration



Why outsource offshore?

- Managerial “push”
 - shortage of skilled programmers
 - increased competition
 - faster product cycles

Why outsource offshore?

- Managerial “pull”
 - cost
 - free resources
 - access new skills, ideas and technology
 - access new markets
 - flexibility in staffing

Why not outsource offshore?

Why not outsource offshore?

Job loss

Beneficiaries of labour cost
arbitrage? race to the bottom

Workers in developing countries
not unionized, health and safety,
pressured into working long
hours



Thank You India
For Taking My Job

Why not outsource offshore?

- Additional coordination and supervision costs
- Loss of internal technical knowledge
- Problems of quality and time
- Intellectual property
- Cultural differences

The case of the small but global accounting firm

- Small 10 person accounting firm in North Wales
- Outsourced accounts preparation to India and Pakistan
- Managed risk by outsourcing only client work of low importance, benefits of more time for strategic analysis
- Outsourcing manager resigned and poached outsourcing relationships and clients !

Cultural management example : mobilising creativity with conflict and alcohol in a British software company with an India subsidiary



- Rising cost of salaries in India
- Recession and public image, unemployment running at 47% of under 24year old in Spain

Reshoring : why?



What to outsource

- IT enabled services
- IT services

IT enabled services

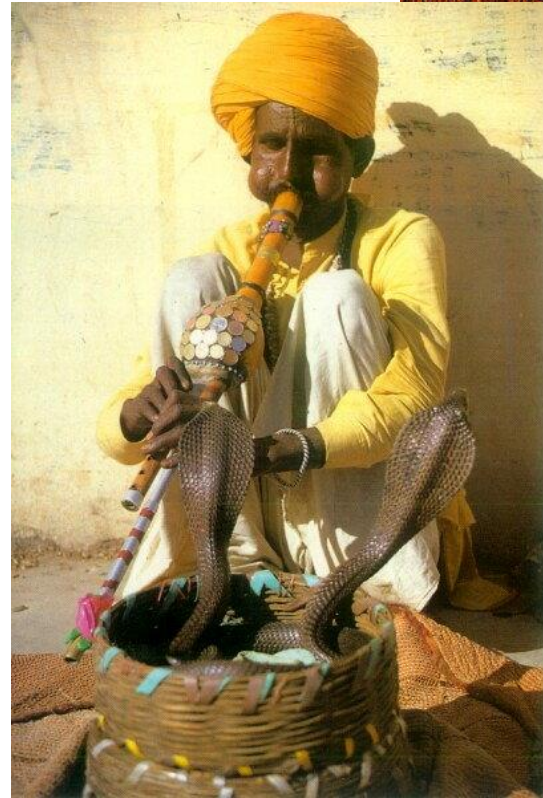
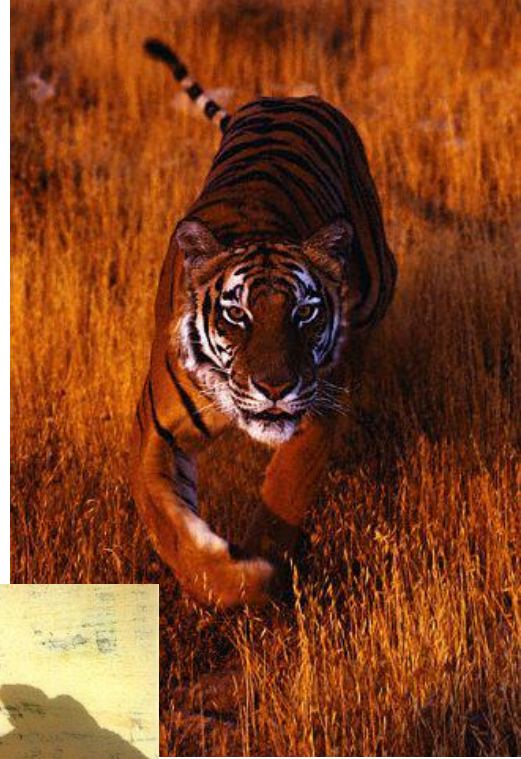
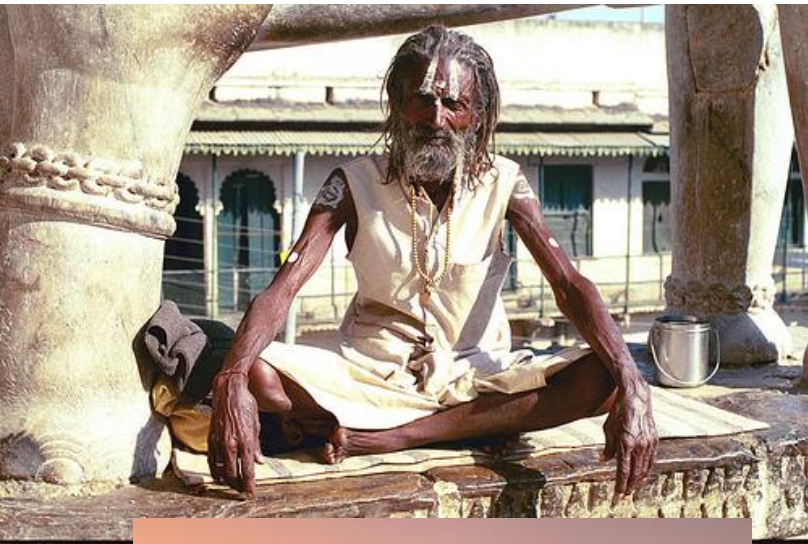
- Software maintenance, support
- Customer Interaction Services
- Back Office Operations
- Insurance Claims Processing
- Medical Transcription
- Legal Databases
- Online Education
- Data Digitisation
- Payroll / HR Services
- Web site Services
- Accountancy Services
- Animation
- XRays

Where are the venues?

Rank	Country	Financial attractiveness	People skills and availability	Business environment	Total score
1	India	3.13	2.48	1.30	6.91
2	China	2.59	2.33	1.37	6.29
3	Malaysia	2.76	1.24	1.97	5.98
4	Thailand	3.05	1.30	1.41	5.77
5	Indonesia	3.23	1.47	0.99	5.69
6	Egypt	3.07	1.20	1.37	5.64
7	Philippines	3.19	1.17	1.24	5.60
8	Chile	2.41	1.20	1.89	5.50
9	Jordan	2.99	0.91	1.59	5.49
10	Vietnam	3.21	1.02	1.24	5.47
11	Mexico	2.48	1.50	1.45	5.43
12	Brazil	2.18	1.83	1.37	5.39
13	Bulgaria	2.83	0.89	1.62	5.34
14	United States	0.47	2.71	2.15	5.33
15	Ghana	3.26	0.70	1.26	5.32
16	Sri Lanka	3.13	0.95	1.17	5.25
17	Tunisia	2.86	0.91	1.45	5.22
18	Estonia	2.06	0.93	2.20	5.19
19	Romania	2.63	0.91	1.58	5.12
20	Pakistan	3.12	1.08	0.91	5.11
21	Lithuania	2.31	0.81	1.99	5.11
22	Latvia	2.28	0.86	1.96	5.10
23	Costa Rica	2.67	0.89	1.50	5.07
24	Jamaica	2.77	0.79	1.49	5.06
25	Mauritius	2.32	0.95	1.77	5.04
26	Senegal	3.06	0.88	1.08	5.03
27	Argentina	2.47	1.34	1.21	5.02
28	Canada	0.54	2.10	2.38	5.02
29	United Arab Emirates	2.10	0.84	2.04	4.98

30	Morocco	2.62	0.93	1.42	4.97
31	United Kingdom	0.43	2.13	2.29	4.94
32	Czech Republic	1.74	1.14	2.07	4.94
33	Russia	2.39	1.45	1.08	4.92
34	Germany	0.42	2.10	2.40	4.91
35	Singapore	0.72	1.55	2.62	4.90
36	Uruguay	2.46	1.00	1.43	4.89
37	Hungary	1.95	1.01	1.92	4.88
38	Poland	1.82	1.22	1.73	4.77
39	South Africa	2.28	1.02	1.44	4.74
40	Slovakia	2.05	0.94	1.75	4.73
41	France	0.40	2.03	2.29	4.72
42	Ukraine	2.63	0.97	0.99	4.58
43	Panama	2.48	0.70	1.40	4.58
44	Turkey	2.01	1.23	1.29	4.54
45	Spain	0.57	1.90	2.00	4.47
46	New Zealand	1.12	1.19	2.15	4.45
47	Australia	0.42	1.62	2.22	4.26
48	Ireland	0.27	1.56	2.26	4.09
49	Israel	0.85	1.39	1.79	4.02
50	Portugal	1.00	1.00	1.97	3.98

Why has India emerged as an
offshore venue



- English language, skills, education, reputation, legal system, good telecommunications
- Early days : body shopping
- Now: full projects, onshore and offshore staff
- ISO, structured methods,
- Capability maturity model



The “Human Cloud”

Table 2 Three Waves of Outsourcing

Terms	Definitions
Outsourcing (1980s -)	The handing over of assets, resources, activities and/or people to third party management to achieve agreed performance outcomes. (Lacity and Willcocks 2006)
Offshoring (1990s -)	The provision of organizational products and services from locations in other countries (Davis et al. 2006)
Microsourcing (2000s -)	The provision of micro-tasks and other small enterprise services from an online community of providers residing in an online microsourcing platform (Lu and Zeng 2011; Gefen and Carmel 2008)



LOGIN SIGN UP

Post a Project

Work done easy

Tell us what you need done and discover talented freelancers within minutes for just a fraction of the cost!

Hire

Work



I need a website made for my new restaurant

PLATFORM MODEL	DESCRIPTION	EXAMPLES
Facilitator	Connects suppliers and buyers directly through a bidding process	Freelancer, Elance, oDesk, Coffee & Power
Arbitrator	Engages multiple suppliers through competitions	crowdSPRING, 99designs, MediaPiston, InnoCentive, Witmart
Aggregator	Aggregates hundreds or thousands of microtasks performed by multiple suppliers	Mechanical Turk, MobileWorks, CrowdFlower, CloudFactory
Governor	Provides project governance and certifies supplier quality	TopCoder, Trada, uTest, 10EQS

Impact sourcing

“employing people at the base of the pyramid, with limited opportunity for sustainable employment, as principal workers in business process outsourcing (BPO) centers to provide high-quality, information-based services to domestic and international clients”

Rockefeller Foundation

samaSource



Case Study: AlphaCorp (A US-based Healthcare Information Technology Company)

- **Locations:** USA (2002), Islamabad-Pakistan (2002) and AJK- Pakistan (2009)
- **Employees:** > 1000
- **Revenue:** \$32.5 million (March 31, 2014)
- **No of Clients:** 930 practices representing approx. 2,020 providers in 40 states of USA (as of March 31, 2014)
- **Legal Status:** A public listed company - NASDAQ stock exchange (2014)

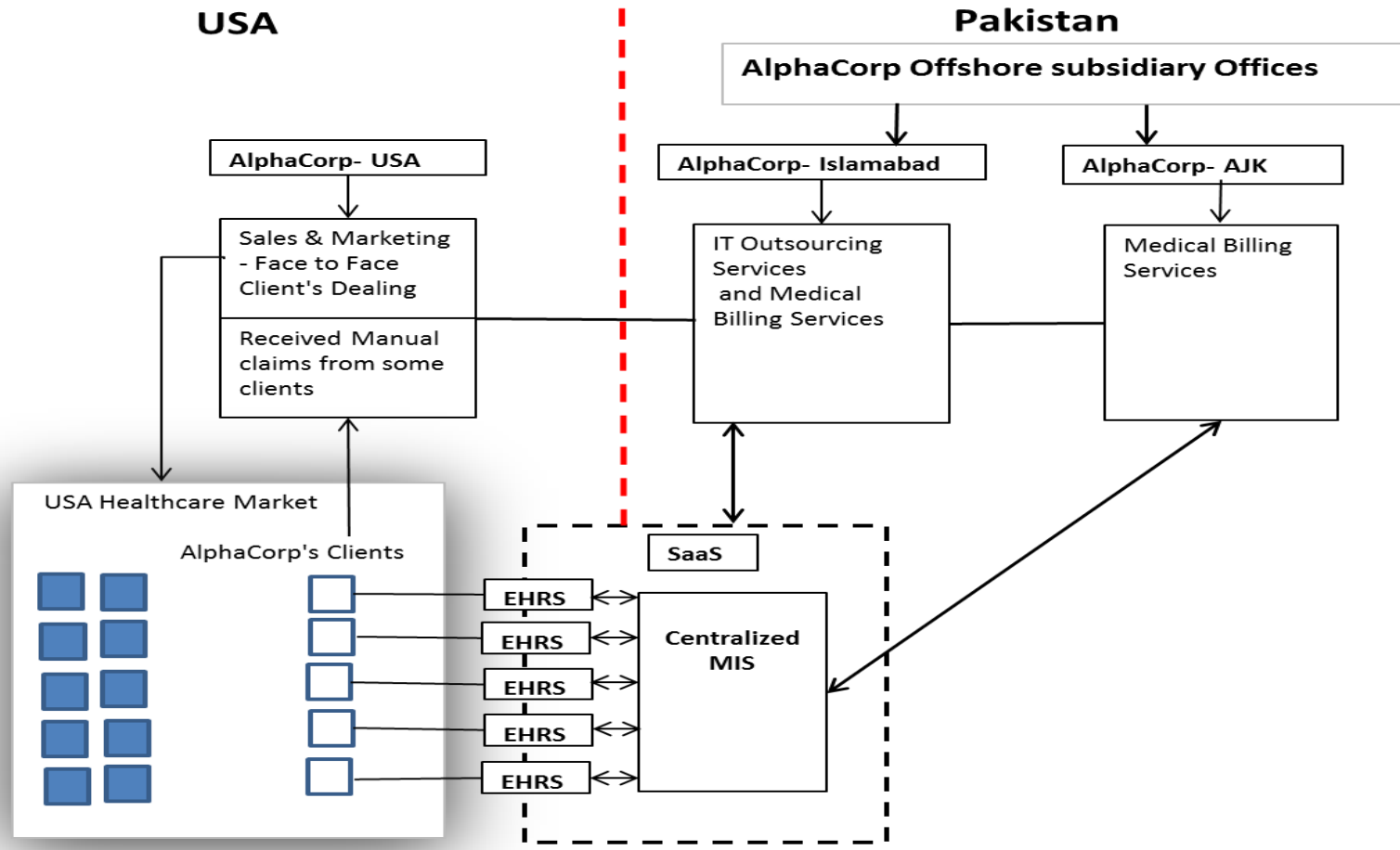
2005 Earthquake



AJK Centre



Enclaves of Competing Logics



Conclusion

- Offshore outsourcing controversial but impossible to ignore in almost all business services
- Transaction costs get lower, trend set to continue

Masters dissertations – “disruptive technologies”

- Digital work platforms – upwork, taskrabbit etc. implications; impact sourcing; Unions, development
- A.I., robotic process automation
- Digital startups / ecosystems in developing countries
- 3d printing, V.R.,
- See diode network

<https://diode.network/about/>