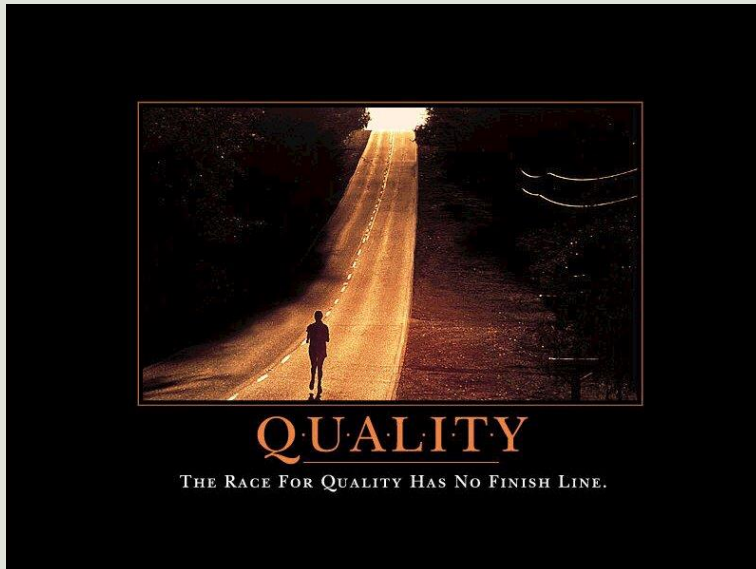


Day 1
University of Colombo School of Computing
B.Sc. Batch

Kapila Karunaratne
Independent Validation Services
VirtusaPolaris

Quality Assurance as a IT Profession

Achieving quality is not a destination but a journey...

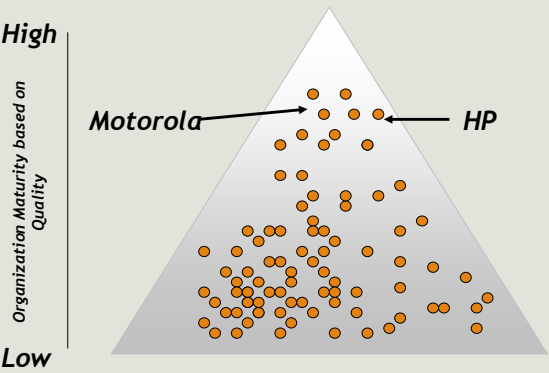


Potential for outsourced testing is estimated at \$6.1 billion with India based companies likely to get 70% market share

- *The market is large and growing very fast*
 - *Global software testing market is estimated to be \$13 Billion by 2009 (IDC)*
 - *Potential for outsourcing is estimated at \$6.1 Billion (DataQuest)*
 - *Potential for Indian based companies - \$4 Billion - about 70%*
 - *Independent software testing services are growing at ~ 100% p.a. while Testing services within Full Services Providers are growing well over 50% p.a. - faster than any other service line*
 - *M&A, Technology changes, Regulatory compliances and Enterprise consolidation are driving the need for:*
 - *Functional testing (approximately 70% of total testing business)*
 - *Specialized testing (performance, security, compliance, i18N, certification etc)*
 - *Test automation & Test Consultancy (commanding premium rates)*
 - *US & UK continue to be the largest sources of testing business (>80% business)*
 - *US is comfortable with outsourcing while UK is experimenting with outsourcing*
 - *Banking, FS, Insurance, Telecom, Retail & Healthcare continue to be the sweet spots*

Source: Gartner Research - Q1 2008

Though money is spent, only 7% of companies have successfully achieved high levels of software quality maturity



93% of companies are operating at a low / medium level of QA maturity. The most Successful 7% have achieved very high levels of software quality resulting in Reduction in overall IT spend, while accelerating time to market

Based on data published by Carnegie Mellon University

Testing market potential of North America, Western Europe and Asia/Pacific is more than \$ 10 billion for the year 2009

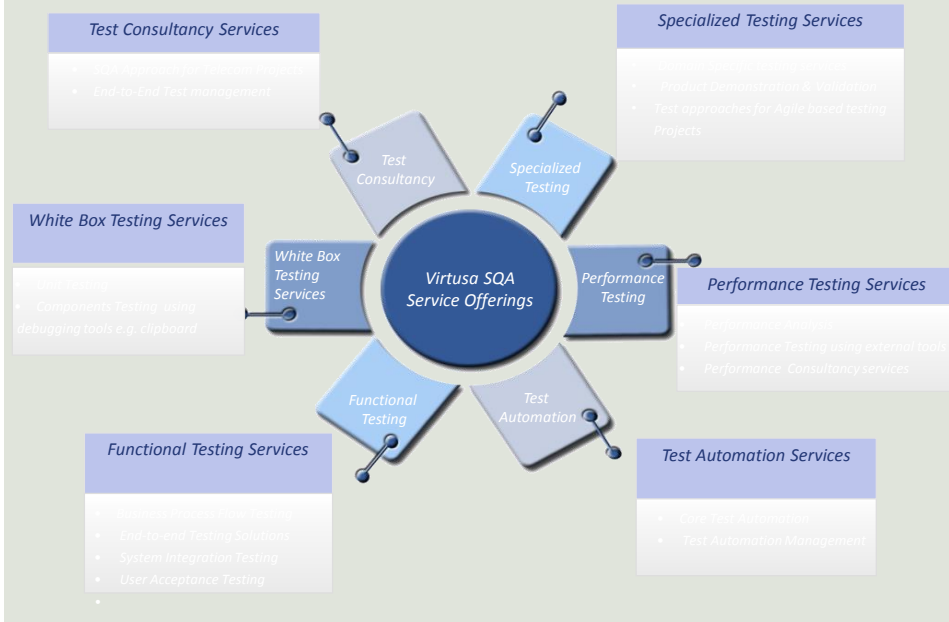
Worldwide IT Services Market User Spending by Region, 2007-2012 (Millions of Dollars)

| | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | CAGR (%) 2007-2012 |
|------------------------|---------|---------|---------|---------|-----------|-----------|-----------------------|
| North America | 312,112 | 333,837 | 356,312 | 381,502 | 409,165 | 439,564 | 7.1 |
| Latin America | 26,905 | 31,599 | 36,638 | 42,269 | 48,831 | 56,512 | 16.0 |
| Western Europe | 249,120 | 282,382 | 297,561 | 313,644 | 332,584 | 352,853 | 7.2 |
| Eastern Europe | 10,371 | 13,212 | 14,880 | 16,600 | 18,498 | 20,673 | 14.8 |
| Middle East and Africa | 15,244 | 17,866 | 20,034 | 22,242 | 24,672 | 27,476 | 12.5 |
| Japan | 87,484 | 101,263 | 104,568 | 109,004 | 113,226 | 117,258 | 6.0 |
| Asia/Pacific | 51,026 | 57,386 | 61,929 | 67,389 | 73,799 | 81,133 | 9.7 |
| Total | 752,261 | 837,544 | 891,920 | 952,650 | 1,020,775 | 1,095,469 | 7.8 |
| Growth Rate (%) | 10.7 | 11.3 | 6.5 | 6.8 | 7.2 | 7.3 | |

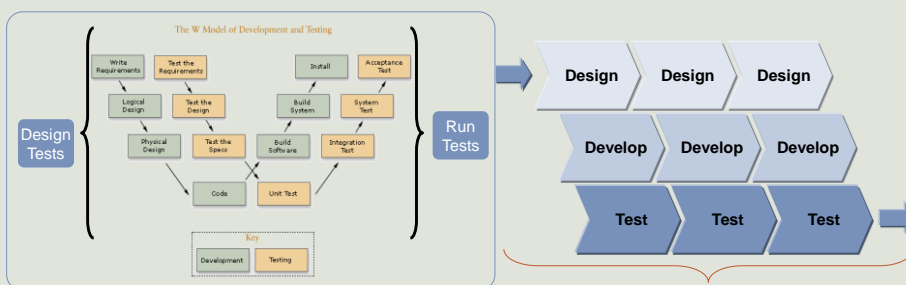
Source: Gartner (September 2008) Publication Date: 24 October 2008/ID Number: G00162405

- 1) NA + WE + AP = \$715 billion → 40% for s/w development = \$ 286 billion → 3.5% for testing = \$ 10 billion
- 2) If we consider 3.5% of total market spend as testing related, the anticipated global testing market is close to \$ 13 billion (IDC estimated testing market share) (((\$892 bil * 40%)*3.5%)
- 3) Estimated testing market from NA + WE + AP between the years 2009 and 2012 is \$ 44 billion

SQA provides comprehensive service offerings to address quality challenges



Test Continuously and Consistently



- Separate QA team members be staffed and involved from inception
- QA Plan and Test Cases be written off business requirements and not from design specifications
- Parallel test activity at each stage of the life cycle

Current Global Career Path

| Global Tiers | Management Career Path | | Professional Career Path | | | |
|-----------------|---|---------------------|-------------------------------|----------------------|---------------------------|----------------------|
| | Delivery Management | Shared Services | CoreTechnology / Practices | Quality Assurance | Business Consulting | Specialist |
| 0 | Executive VP/Sr Vice President/Vice President | | | | | |
| | Sr Director/Director/ Associate Director | | | | | |
| | Sr Manager | | Sr Architect | Sr Manager | Sr Manager | Sr Tech Specialist |
| 1 | Manager | | Architect | Manager | Manager | Technical Specialist |
| | Associate Manager | | Associate Architect | Associate Manager | Associate Manager | Asso Tech Specialist |
| 2 | Sr Consultant | | | Sr Consultant | Sr Business Consultant | Sr Consultant |
| | Consultant | | | Consultant | Business Consultant | Consultant |
| 3 | Sr Engineer | Sr Executive | Sr Engineer | Sr Engineer | Sr Executive | Sr Engineer |
| 4 | Engineer | Executive | Engineer | Engineer | Executive | Engineer |
| | Associate Engineer | Associate Executive | Associate Engineer | Associate Engineer | Associate Executive | Associate Engineer |

Software Development Industry Today

What is the current role of Software Testers

How Software testers assuring World & Human Life

Assignment

Questions

Email me:
Kapilalk@gmail.com