

The future is bright – but we have some hurdles to climb

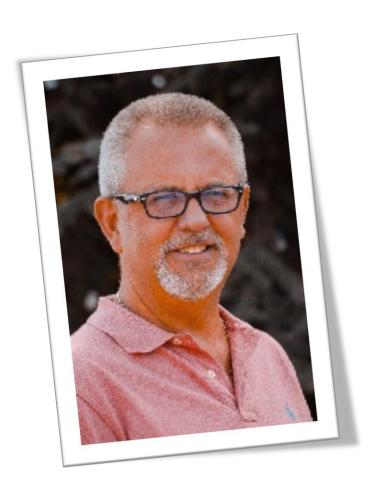
Geoff Thompson TAPOST 12th October 2016

Assess | Visualise | Transform | Manage | Train

Private & Confidential Experimentus Ltd 12 Melcombe Place, London NW1 6JJ www.experimentus.com

Who is Geoff Thompson?

- Tested for nearly 30 years, climbed from test analyst to the Director for Testing at large UK insurance company
- In 2004 established Experimentus to help test organisations get better at what they do
- Hot press just last week became UK MD for Planit Testing, a testing services and consultancy company based in Australia/New Zealand and the UK
- Was a founder member of the ISEB Software Testing Board, and contributed to the very first Foundation syllabus and exam
- Was the architect of ISTQB, and helped write the first ISTQB Foundation and Advanced syllabi, now ISTQB secretary
- Founder member of TMMi Foundation
- Awarded the Testing Excellence award in 2008, and the Testing Lifetime achievement award in 2015
- Still focused on helping people to improve testing



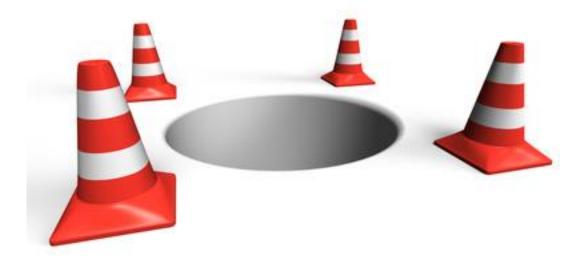
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Achieving success is fraught with danger

There are Pitfalls....lets call them Quality Assassins

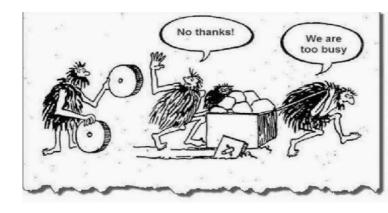




The focus is on speed, not quality or Blindness to the true cost of quality

The 'the world ends when the project is launched' pitfall







Going by 'feel', not facts

The 'where am I?' pitfall!



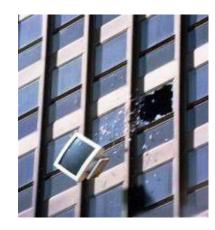
Kicking off a project before the business is ready.

The 'cant stand still' pitfall!



Lack of buy-in from users

The 'what do the users matter' pitfall





Faulty design

The 'cost escalation' pitfall





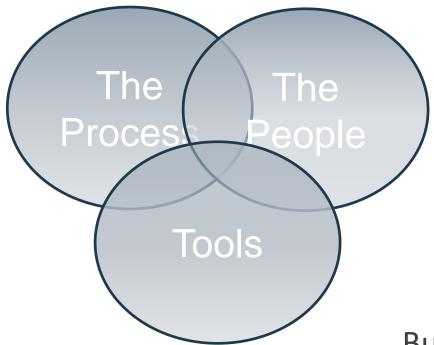
Success from failure

The 'fail and die' pitfall



Strategies for tackling the pitfalls/quality assassins

Address:



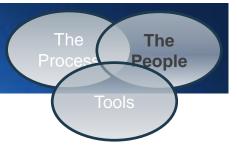
Build quality into the entire software quality process

The process change plan

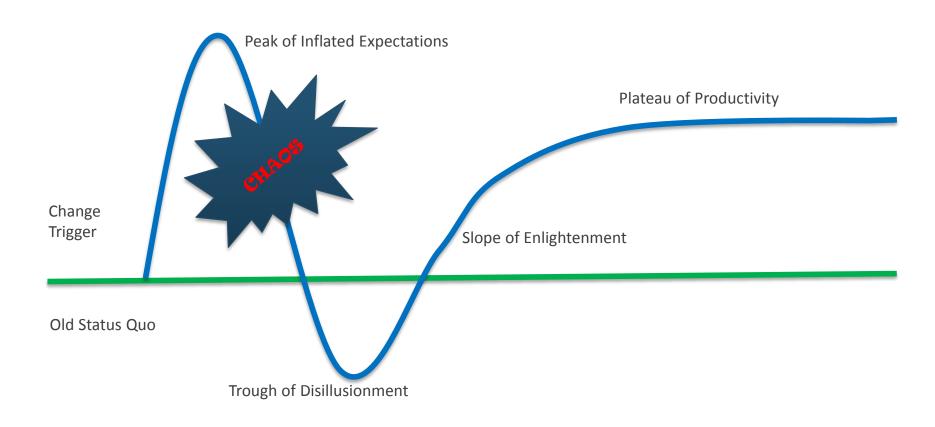


Initiation and Setup	Baseline	Develop and Test	Pilot	Deployment
Structure		Process updates / creation	Pilot selection criteria	Identify Test Change Champions
Governance and reporting	As is survey	KPI's	Pilot Success Criteria	Deployment Plan
Charter/ TOR	Implementation Approach	HR	Pilot training	Training Materials
Plan		Tools	Pilot Delivery	Benefit Measurement
		Change Management		
	Stakeh	older Management/Commun	ication	

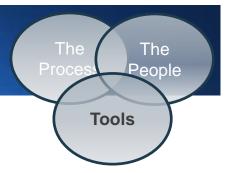
People



80% of effort on people and culture



Tools



The tools:

- Process and People help us with effectiveness in terms of improvements
- Further improvement in process as well as their adoption, coupled with the involvement of appropriate tools – will help address the Compress aspect and increase efficiency

How to measure progress?

How are we doing today – what should I measure?

Use existing data to establish where you real

If you have the right defect data and conduct basic root cause analysis this can help identify where you are wasting your time and money and potential areas for improvement



Defect Leakage Report - Mobile Phone Ap

How to measure progress?

How are we doing today – what is this really costing us?

Once you have the defect and RCA information you can apply some base costs to show the real cost of finding and fixing these defects for your organisation

Defect Cost Report - Mobile Phone Application

	Test Level								
Originated In	1 - Reviews / Static	2 - Component	3 - Component Integration	4 - System	5 - System Integration	6 - Acceptance	7 - Production Acceptance	8 - Production Warranty	
1 - Requirements	143	1,286	8,250	18,000	0	16,000	0	0	43, 79
2 - System Specification	0	0	0	3,000	0	16,000	0	0	19,000
3 - Technical Design	143	0	0	3,000	0	8,000	0	0	11,143
4 - Coding/Customisation/Build	0	0	0	3,000	40,000	16,000	0	157,500	216,50
5-Data	0	429	0	15,000	0	16,000	8,000	.0.	39,429
6 - Environments	0	0	0	3,000	15,000	40,000	4,000	7,500	69,500
7 - Testware	0	0	750	1,500	0	16,000	4,000	0	22,250
8 - Implementation/Configuration	0	0	0	1,500	0	40,000	4,000	82,500	128,00
9 - External Systems / 3rd Party	0	0	0	0	0	0	0		0
10-User	0	0	0	0	0	0	0	ō	0
11-Other	0	0	0	0	0	0	0	0	0
Total	286	1,714	9,000	48,000	55,000	168,000	20,000	247,500	549,50
Total %	0.1%	0.3%	1.6%	8.7%	10.0%	30.6%	3.6%	45.0%	

How do I measure progress?

What would the outcome be if I could adopt some Shift Left activities?

Override Compress percentage	Compress percentage		15%	Shift	left percentage	20%	Rqt Defects fou	nd in Reviews %	909
**			A16 (A1	Test Level					
Originated In	1 - Reviews / Static	2 - Component	3 - Component Integration	4-System	5 - System Integration	6 - Acceptance	7 - Production Acceptance	8 - Production Warranty	Tota
1 - Requirements	27	1	1	1	0	0	0	0	30
2 - System Specification	5	0	0	0	0	0	0	9	5
3 - Technical Design	5	0	0	0	0	0	0	0	5
4 - Coding/Customisation/Build	0	0	0	4	12	3	4	24	37
	0	1	2	7	1	3	1	0	15
6 - Environment	0	0	0	2	6	7	1	1	17
7 - Testwar	0	0	1	1	1	3	1	0	6
8 - Implementation/Configuration	0	0.	0	1	2	7	3	Ž.	20
9 - External Systems / 3rd Part	0	0	0	0	0	0	0	6	0
10 - Use	0	0	0	0	0	0	0	0	0
11-Othe	0	0	0	0	0	0	0	0	0
Tota	37	2	4	16	20	23	9	22	134
Total 9	23.2%	1.3%	2.7%	10.1%	12.9%	14.8%	5.7%	14.2%	
Change	-6	0	-1	-3	-4	-5	-2	-4	

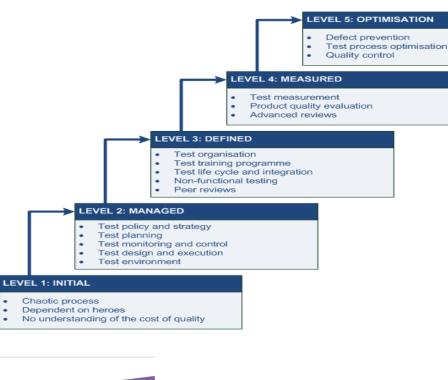
How do I measure progress?

And the potential cost savings

e 20%	Comp	ress percentage	15%	Rqt Defects fou	nd in Reviews %	0%			
				Test Level			t)		
]	1 - Reviews / Static	2 - Component	3 - Component Integration	4 - System	5 - System Integration	6 - Acceptance	7 - Production Acceptance	8 - Production Warranty	Total
1 - Requirements	1,925	109	701	1,530	0	1,360	0	0	5,625
stem Specification	328	0	0	255	0	1,360	0	0	1,943
-Technical Design	340	0	0	255	0	680	0	9	1,275
ustomisation/Build	0	0	255	6,120	28,900	10,880	14,280	107,100	167,53
5 - Data	24	291	1,275	10,200	1,700	12,240	5,440	0	31,17
6 - Environments	0	0	255	3,570	14,450	27,880	3,400	5.100	54,65
7 - Testware	0	36	638	1,020	1,700	11,560	2,720	Ø.	17,67
tion/Configuration	0	0	128	1,020	4,250	27,880	10,200	56,100	99,57
Systems / 3rd Party	0	0	0	0	0	0			200
10-User	0	0	0	0	0	0			
11 - Other	0	0	0	0	0	0			
Total	2,617	437	3,251	23,970	51,000	93,8	170.015		
Total %	0.75/	0.170	0.9%	6.3%	13.4%	24.7	170,045		
Saving	-2,331	1,277	5,749	24,030	4,000	74,1			

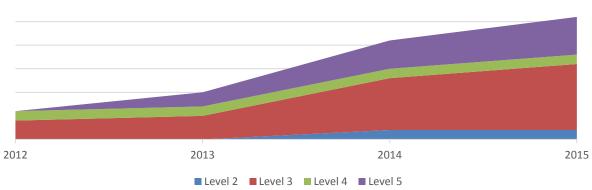
Experimentus Software Testing Maturity Survey

- Yearly online survey undertaken by Experimentus
- 250 respondents from across the globe
- Most IT Sectors represented



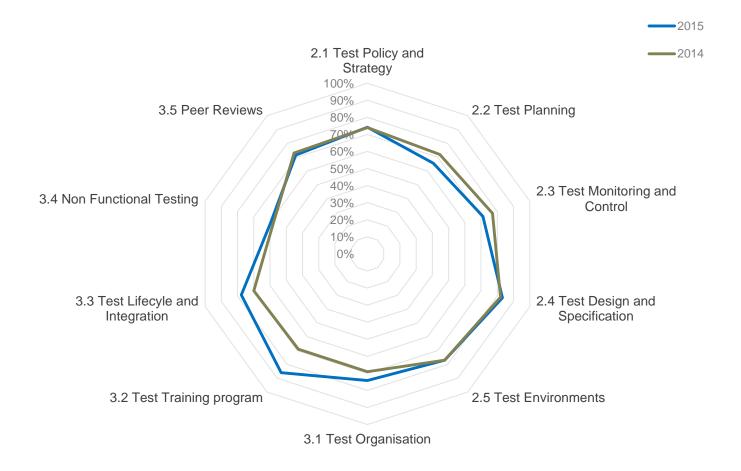
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TMMI Certification Trends



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Where are we?

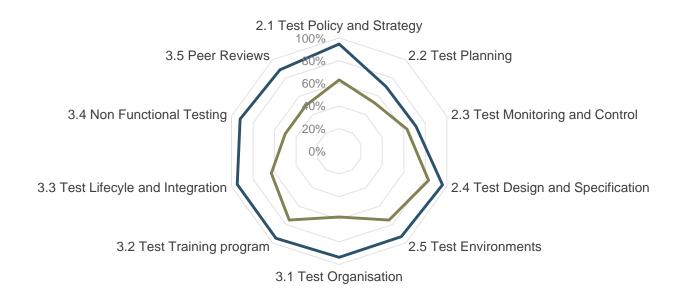


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Where are we?

Telecommunications Sector Results



—2015 **—**2014

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Where are we?

IT Service Provider Sector Results



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-2015

----2014

How do you compare against the industry?

Take our survey and benchmark your company.



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Summary

- 6 types of quality assassins these aren't the only pitfalls out there but they are the most common and you may recognise at least a few of these in your own organisation.
- The presentation has shown that
 - 1) better process
 - 2) people and culture
 - 3) adoption of tooling and some specific measurement activities

All help to enable you and your organisation go on a better project journey

 The industry is in general improving but testing need to move from being and seen as defect finders to being defect preventers – Shift Left



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