

Practical Approaches to Motivating Testers

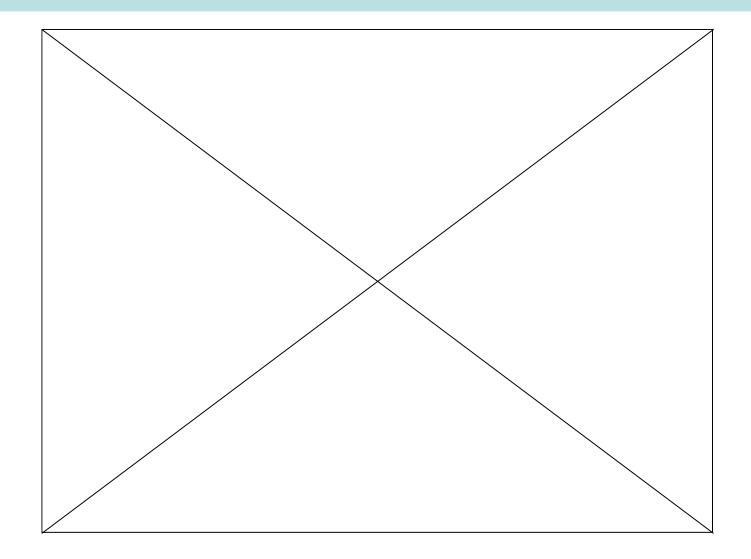
Dr. Stuart Reid & Dr. Tafline Murnane EuroSTAR 2011, Manchester, UK

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Bonuses don't work!!!????



Workshop Overview

- Business' view
- Two sources of motivation
- What motivates you?
- Tester Motivation Survey
- Motivation models
- Practical strategies



Business' View

employee satisfaction quality product quality service productivity profitability

...or a mix of these?



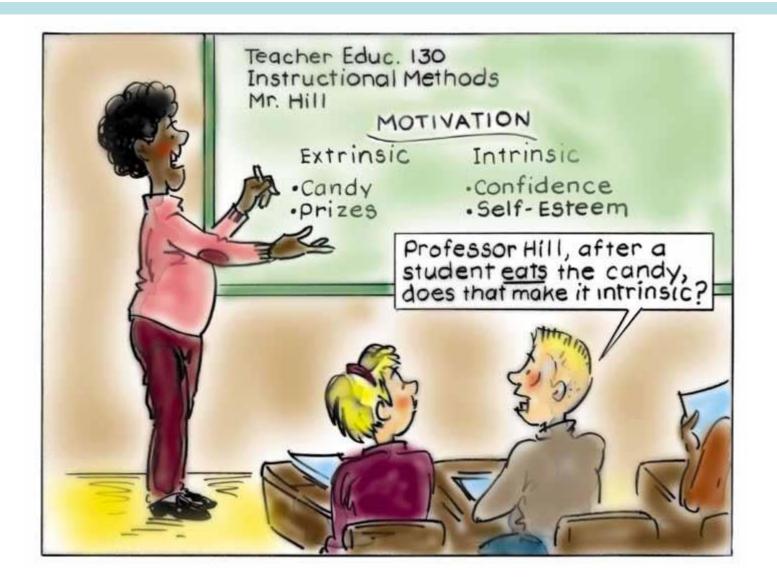
Increasing employee satisfaction by 20% increases profitability by 42%

1999 Maister Survey, 5,500 respondents

Employee Satisfaction



Two Sources of Motivation



What motivates you?



• Exercise:

- 1. What motivates you?
- 2. What demotivates you?
- 3. How do you motivate your testers?

But, what about YOU!

Visit

http://www.surveymonkey.com/s/Tester_ Motivation to participate in the full survey & receive feedback on your motivation!

Discussion - What motivates you?

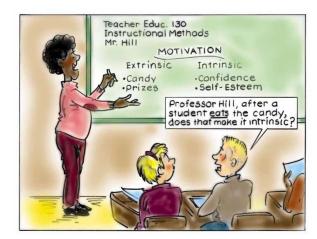


We are all different or we would all want the same job!

Top Six Incentives - McKinsey

- 1. Praise from manager
- 2. Attention from leaders (1:1)
- 3. Opportunities to lead
- 4. Performance-related bonuses
- 5. Increased salary
- 6. Stock (+options)

2009 McKinsey Global Survey, 1047 respondents



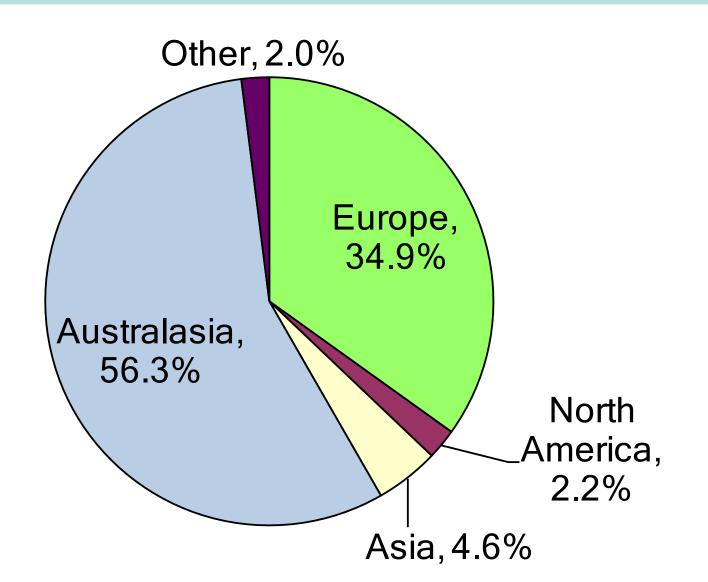
Investigation Approach

- Questionnaire
 - Paper-based
 - SurveyMonkey
- 40 Questions
 - Demographic

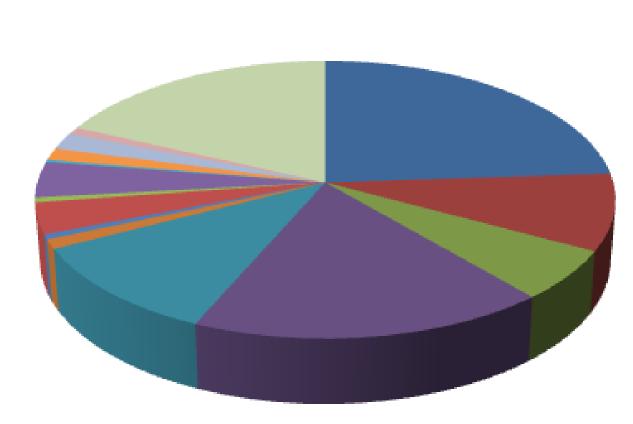


- Motivation-related (Likert-scale)
- Open-ended
- Responses from around the world (around 450)
- Analysed qualitative & quantitative data

Respondents by Region

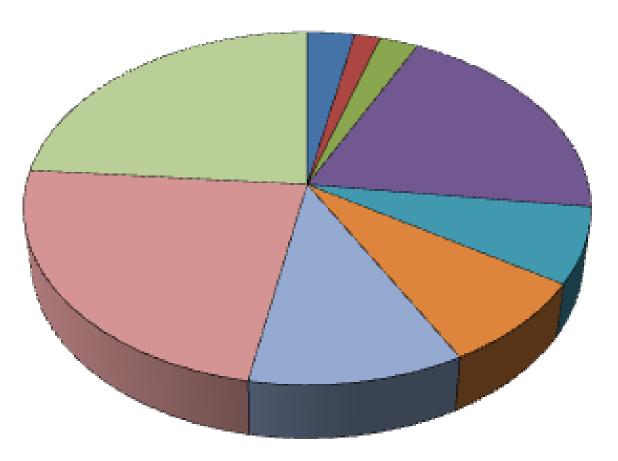


Industry Sector



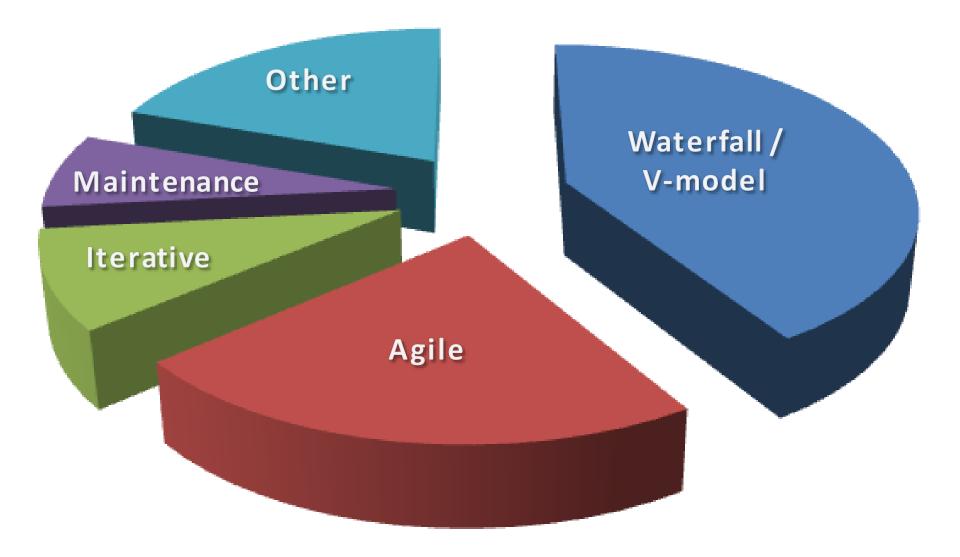
- Finance, Insurance
- Government
- Services
- IT
- Retail, Wholesale
- Media
- Construction
- Communications
- Internet
- Health Care
- Non-profit
- Transportation
- Utilities
- Manufacturing
- Other (please specify)

Testing Roles



Developer/Tester Test Automator Performance Tester Other Head of Testing Test Consultant Test Lead Test Analyst Test Manager

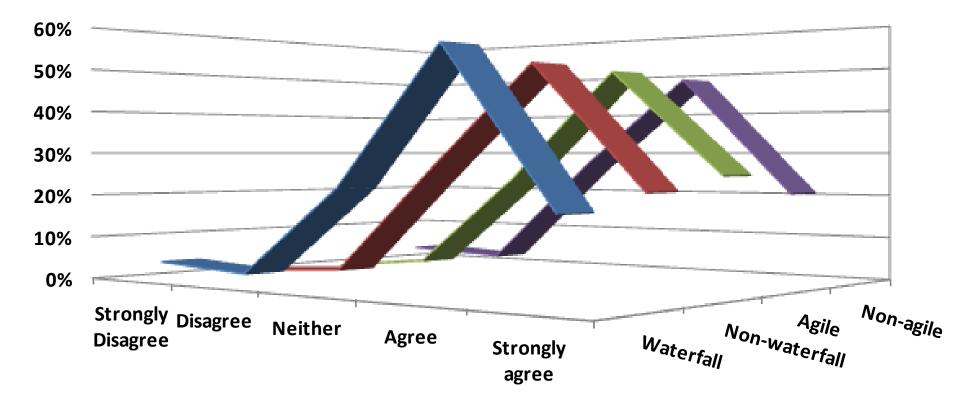




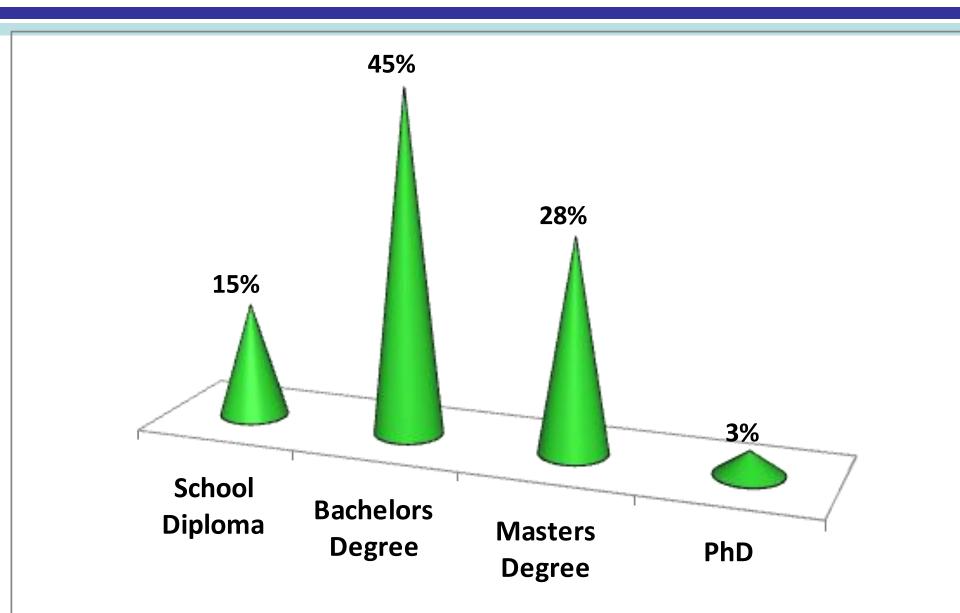
Perceived Motivation



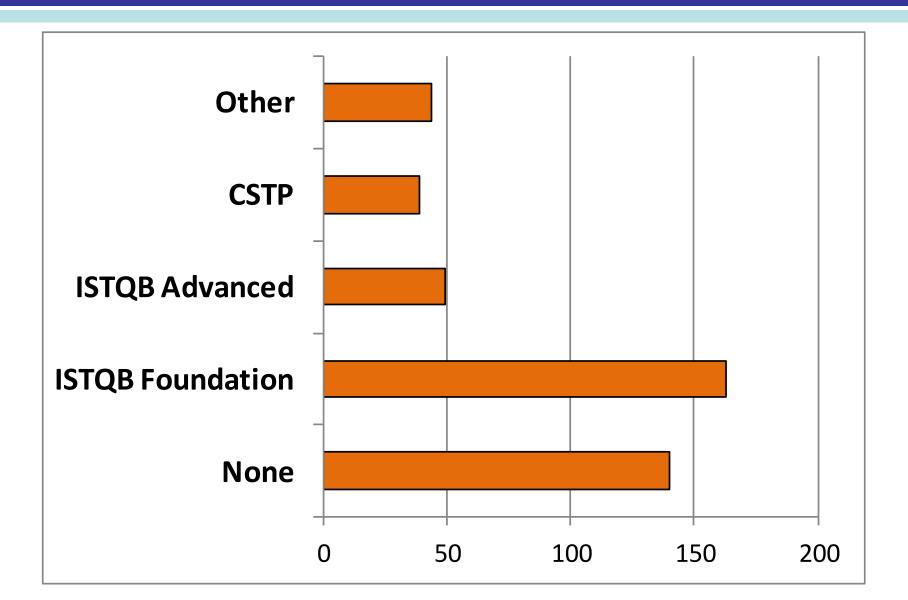
Motivation vs. Life Cycle



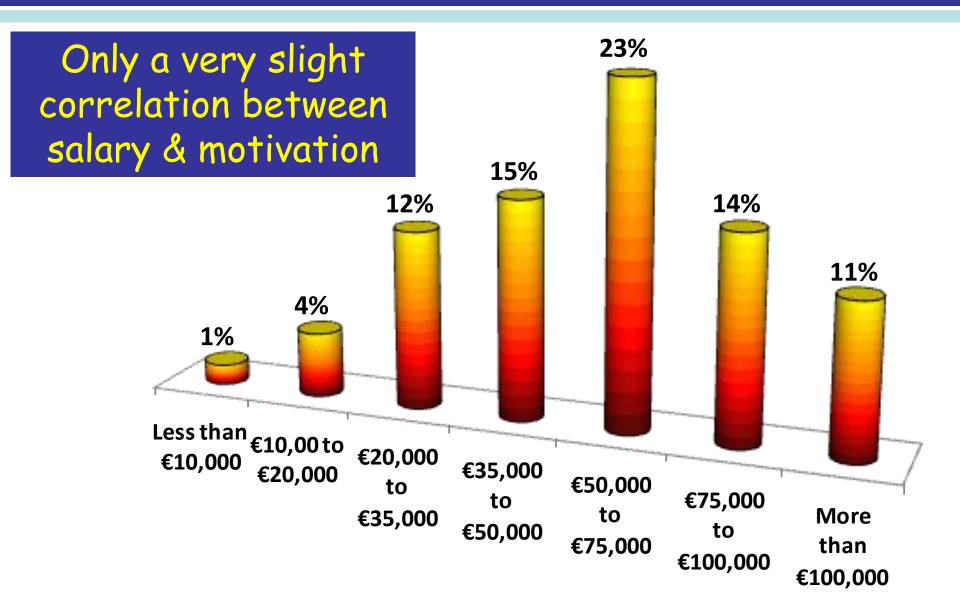
Education (highest achieved)



Certification



Salary



Motivation Models

- Reinforcement (carrot & stick)
- Motivating Potential Score
- Equity Theory
- MAP

Reinforcement Theory

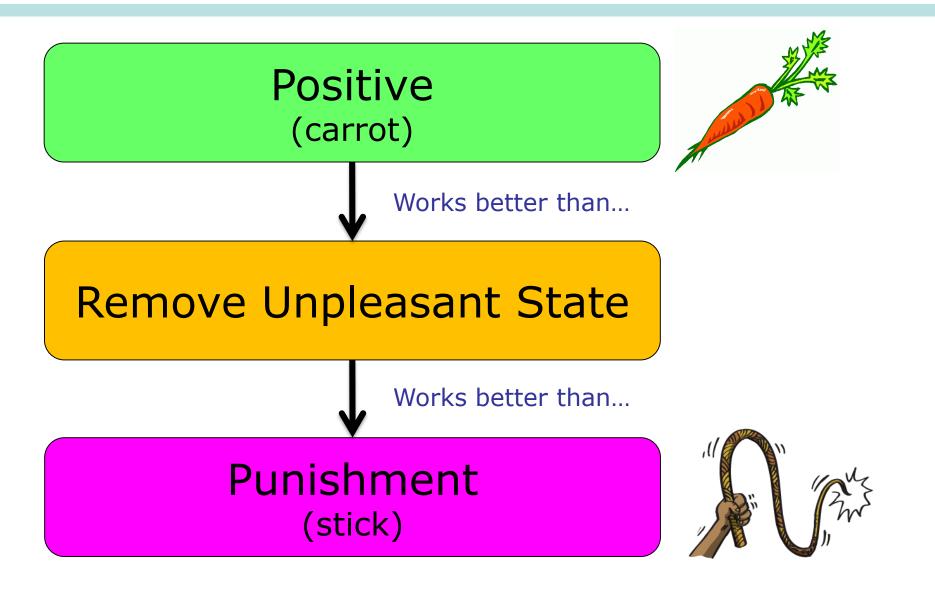
Carrots?



...or Sticks?



Reinforcement Theory



Reinforcement Theory

- Punishment is a poor managerial tool
 - Creates hostility & retaliation
 - Reduces morale & job satisfaction
- Positive reinforcement
 - Encourages more positive behaviour
 - Only works while reinforcement continues

But... how do we get good behaviour to reinforce in the first place?

Performance Related Pay (PRP)

- PRP can be applied to:
 - Organization
 - Team
 - Individual



Short-termed motivator

"Isn't that the chap who has just received a £485,000 performance related bonus?"

- De-motivating for cognitive tasks!
- Alters behaviour, not attitude or commitment

Reinforcement Survey Results

... poll numbers remained unchanged today, as people used recent events to reinforce whatever views they already had.



 16% overall thought money (12% salary + 4% bonuses) was a prime motivator
 ...BUT - only 4% of managers believed money to be a primary approach to motivating their testers

• 6% thought (low) salary was demotivating



Is good management important?



Motivation Models

- Reinforcement (carrot & stick)
- Motivating Potential Score
- Equity Theory
- MAP

Motivating Potential Score

- Skill Variety (V)
 - range of different skills used
- Task Identity (I)
 - degree of completing a whole job
- Task Significance (S)
 - importance of the job
- Autonomy (A)
 - level of control of your own time
- Feedback (F)
 - degree of supervisory & results-based feedback

$$\frac{(V+I+S)}{3} * A * F$$

...and then calculate your MPS

Assign a score of 1 to 7 to each attribute...

Exercise Outcome...

- What was your Motivating Potential Score?
- What is your lowest score?
- What changes can you make to increase your score?

• Skill Variety (V)

- range of different skills used
- Task Identity (I)
 - degree of completing a whole job
- Task Significance (S)
 - importance of the job
- Autonomy (A)
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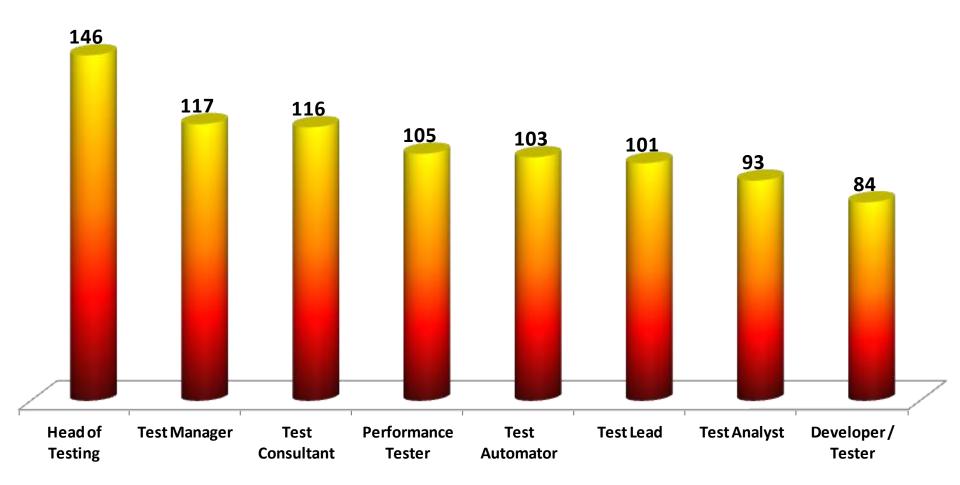
• MPS =
$$\frac{(V+I+S)}{3} * A * F$$

MPS Survey Results

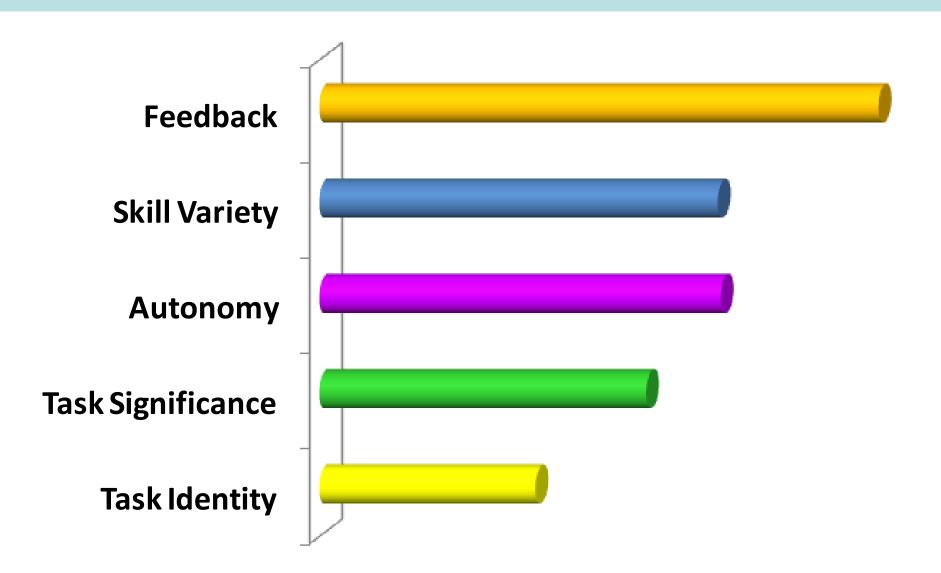


"What do you think . . . should we get started on that motivation research or not?"

Motivating Potential Score



Motivation Factors vs. Perceived Motivation



Motivation Models

- Reinforcement (carrot & stick)
- Motivating Potential Score
- Equity Theory
- MAP





LOGIC The beginning of wisdom, not the end

Equity Theory

- Workers expect fairness!
 - If perceived effort = perceived reward then productivity increases
 - Workers want to believe that all staff are treated fairly
- Workers will try to 'fix' inequitable treatment



Equity Theory Survey Results



Inequity Results

• Just 5% of respondents felt that inequity such as unfair promotions & other staff underperforming demotivated them



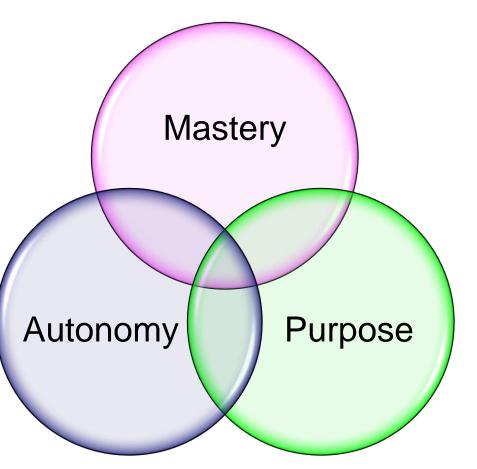
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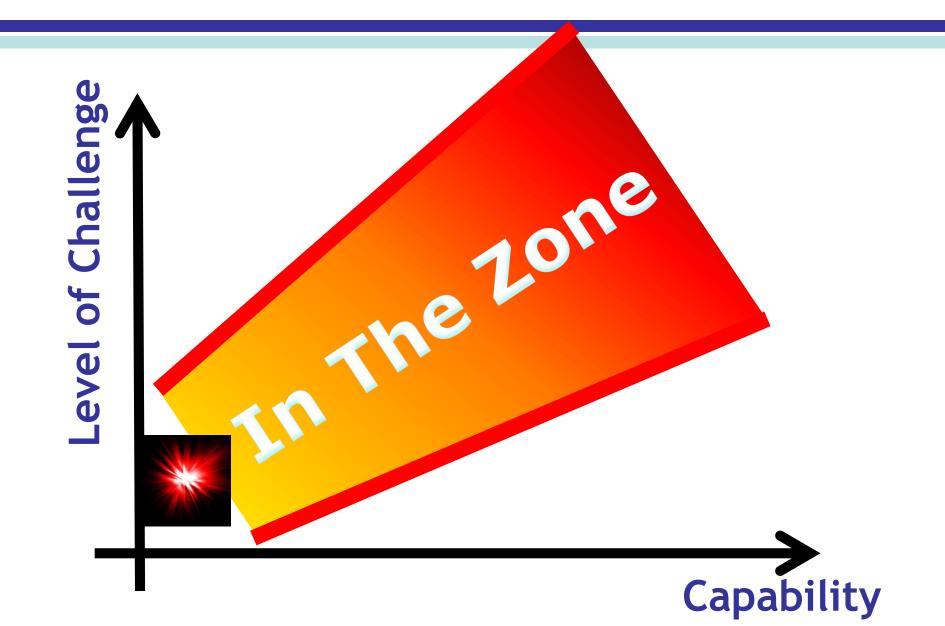


• Daniel Pink's Motivation 3.0













Autonomy





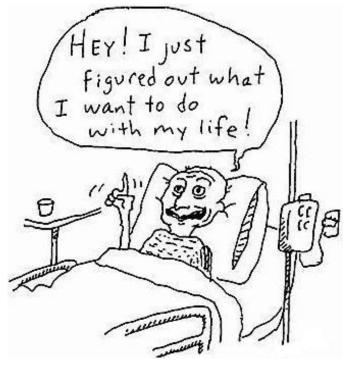
Being able to decide when, how and who you do your job with







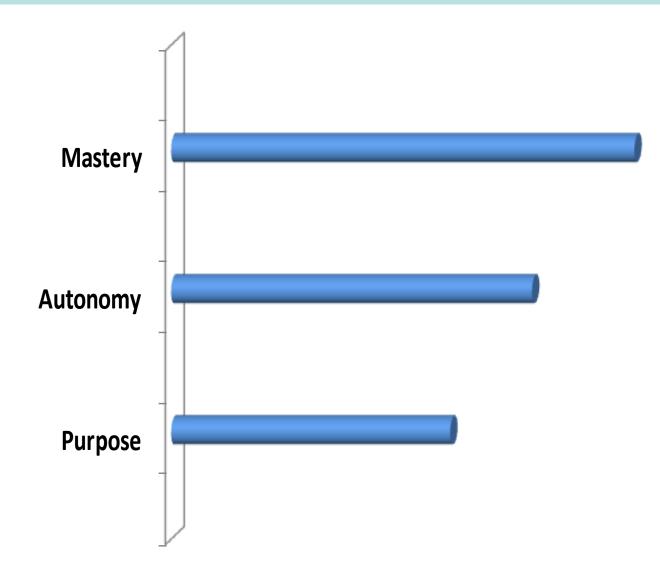
- A cause larger than yourself
 - and your organization!
- Not wholly focussed on profit
- Goals
 - Working in a great team
 - Giving something back to society
- Words
 - Is your organization a 'they' or 'we'?
- Policies
 - Employees choose where to 'give'
 - 20% time but for the community



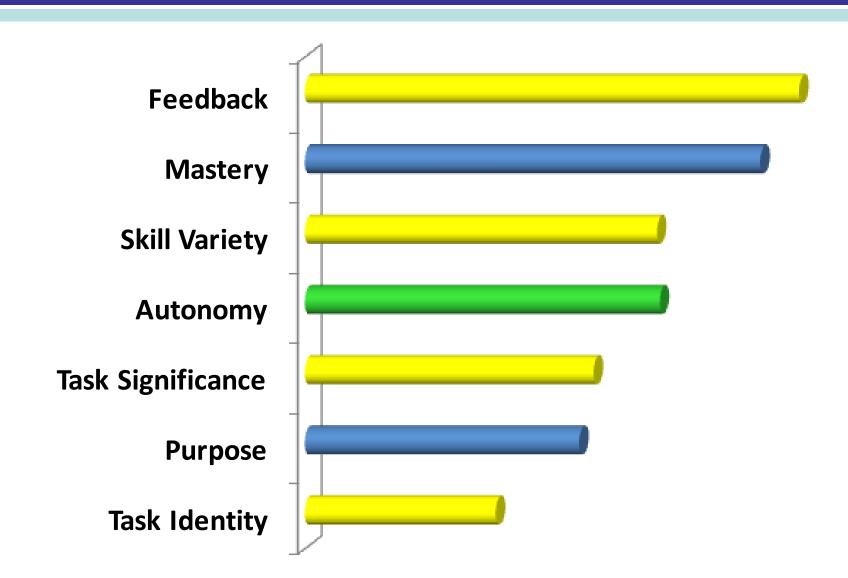
MAP Survey Results



MAP Factors vs. Perceived Motivation



Motivation Factors vs. Perceived Motivation



Practical Strategies for Managers?

- Flow test
- Performance review
 - Including regular self-appraisals against goals
- Tailored challenges
- Deliberate practice
- Regular critical feedback
- Work on weaknesses
- Try innovation time (even if only 10%)
- Encourage peer-to-peer rewards
- Autonomy audit

Evidence-Based Motivation

- Motivators
 - #1 = Feedback
 - #2 = Team bonding
 - #3 = Challenge
 - #4 = Recognition

(#1 for managers too)
(#2 for managers)
(#11 for managers!)
(#3 for managers)

 Just <u>one</u> manager (out of 85) considered Exploratory Testing to be a motivator (...and none of the testers did, even though 113 of them considered it as one of their roles)

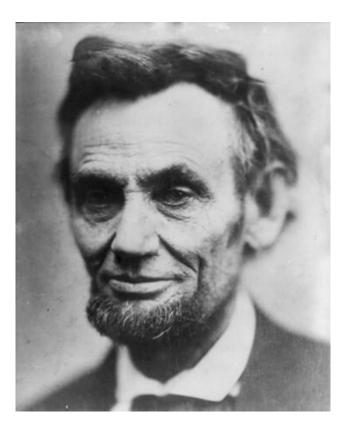




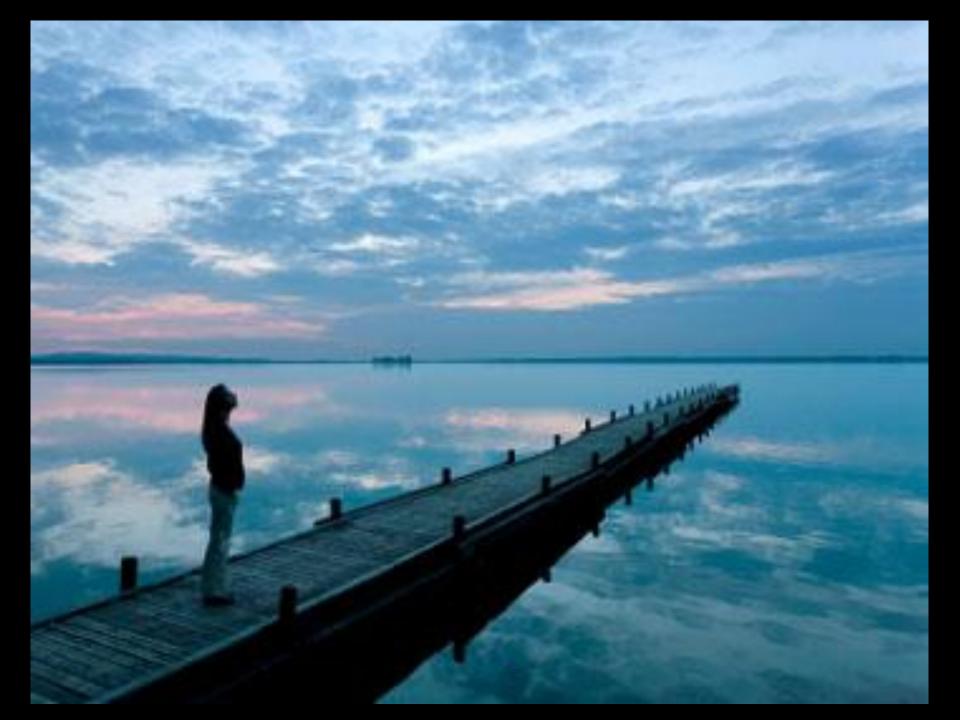




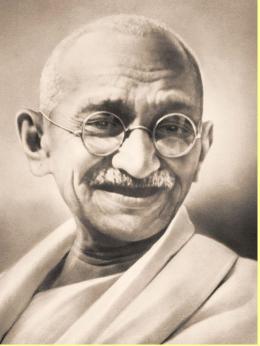
Purpose













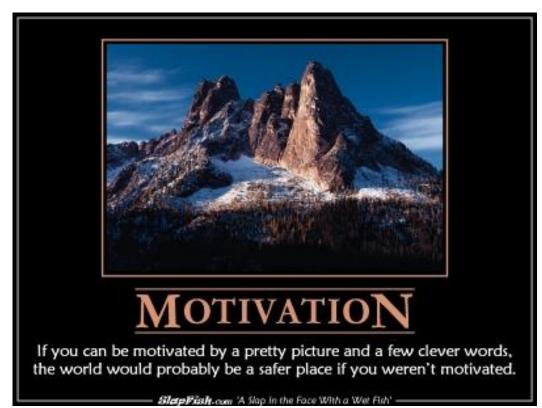


What's your sentence?



Thank you for listening!

To participate in our survey on tester motivation visit: http://www.surveymonkey.com/s/Tester_Motivation



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