

# Planit Testing Index 2015

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**Director of Testing**

# Presentation Overview

- About the Planit Testing Index
- Respondents 2015
- Testing in the Organisation
- Project Conditions and Outcomes
- Technical Testing
- Outlook and Investment

# About the Planit Testing Index

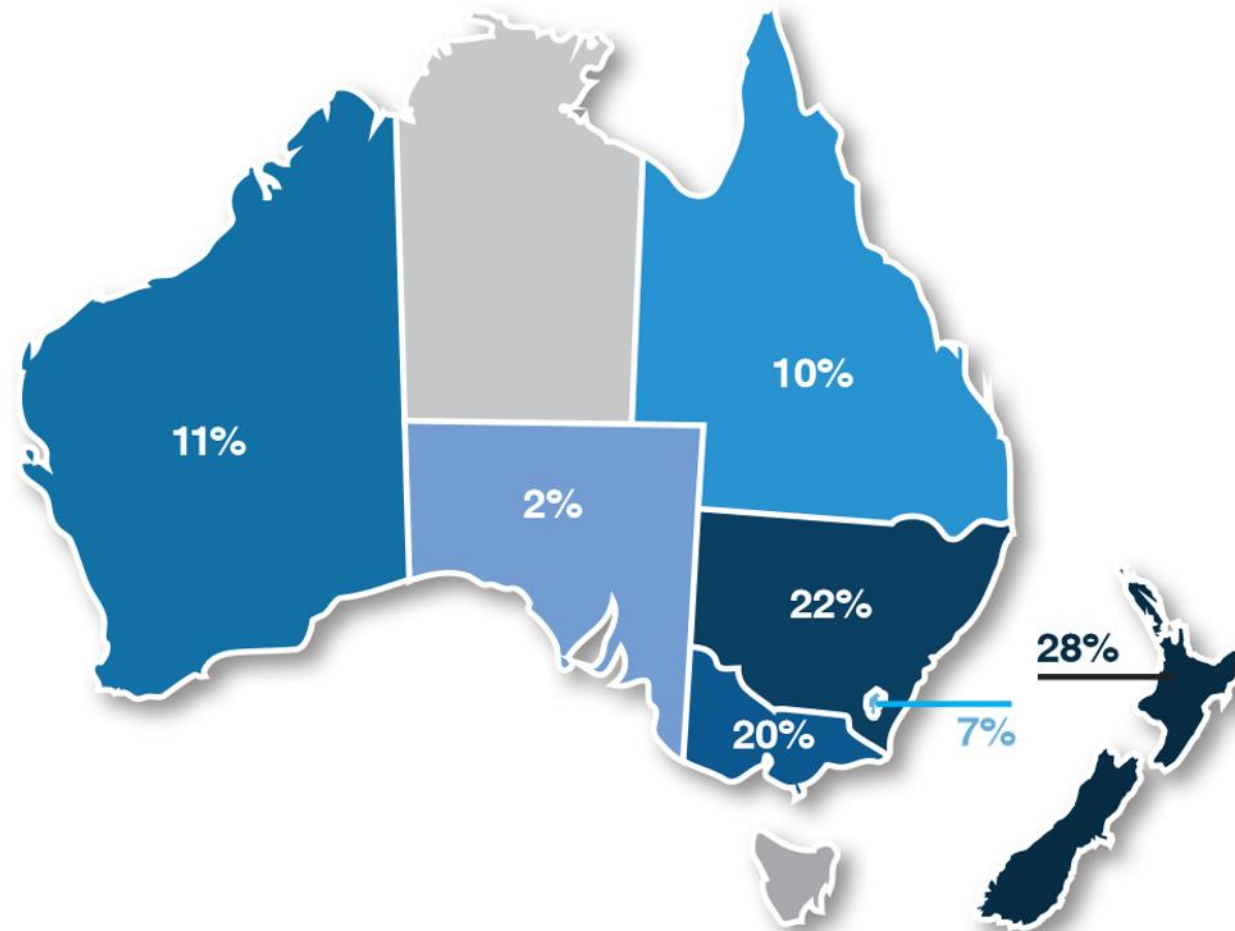
# About the Planit Testing Index

- Leading study of Australian & New Zealand software projects
- Now in its ninth year
- Over \$35,000 donated to charity
- 2015 Index represents 281 respondents
- Spans 12,749 projects

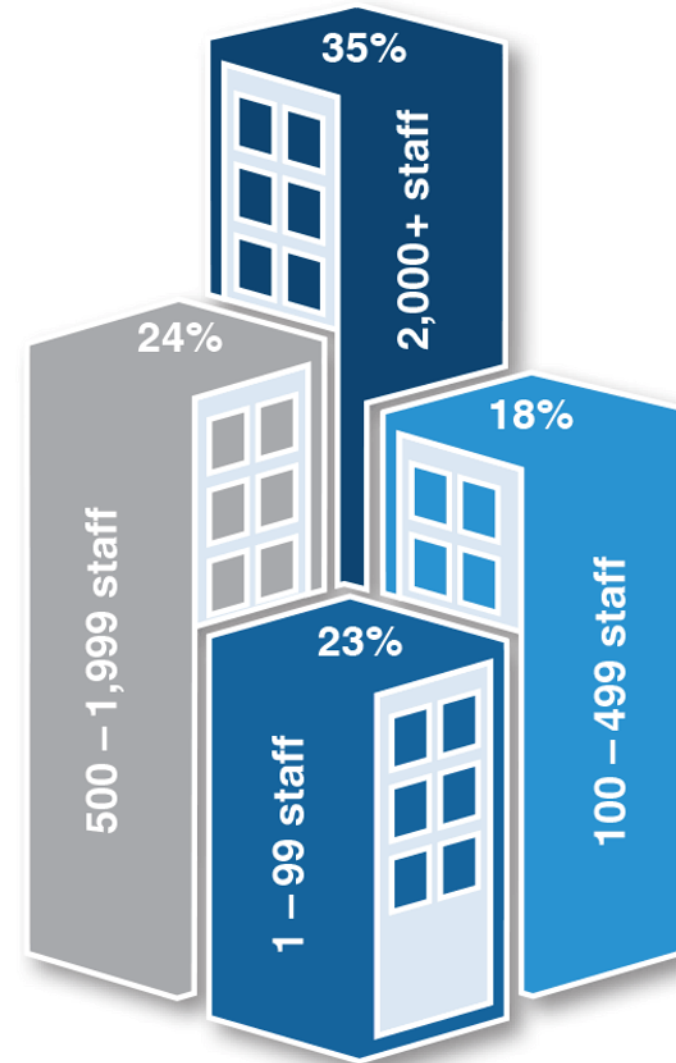
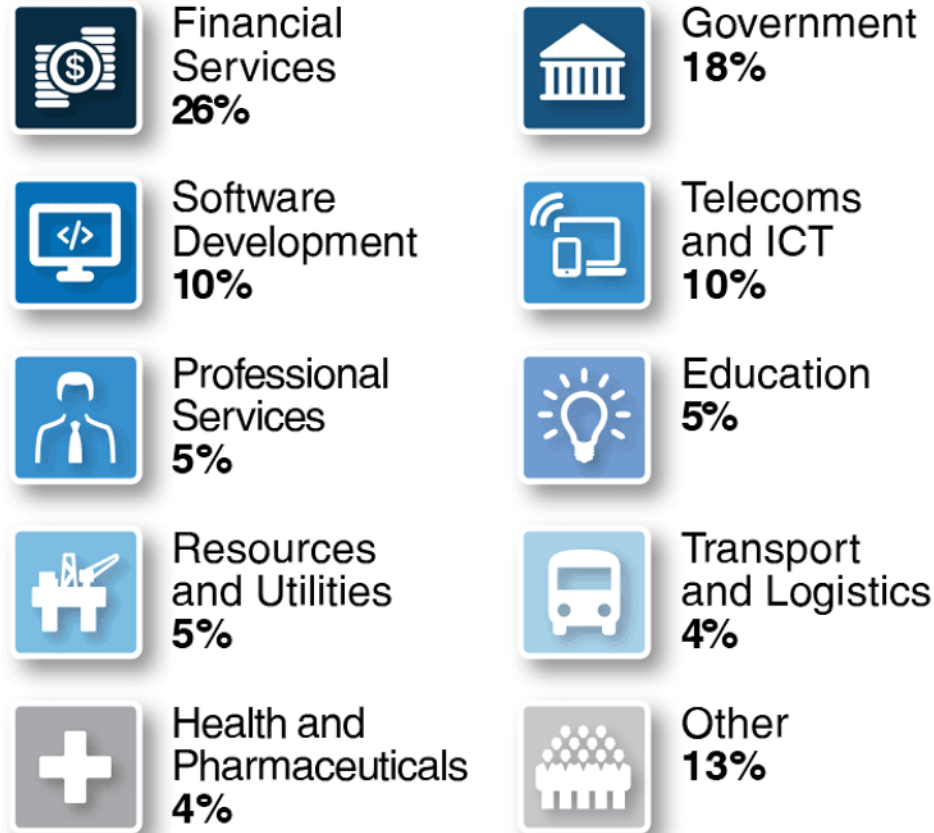


# Respondents 2015

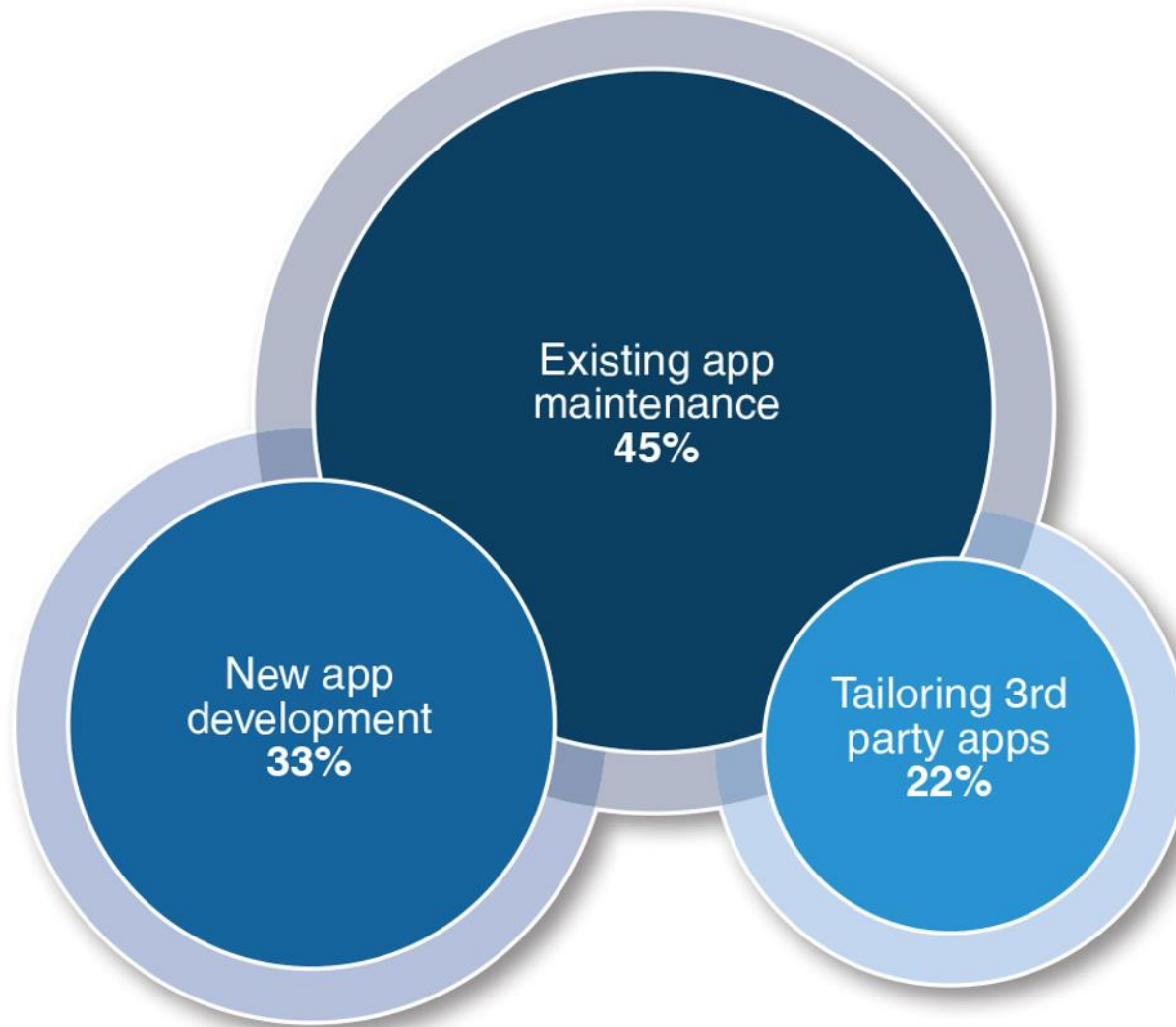
# Respondents by Region



# Respondent Demographics



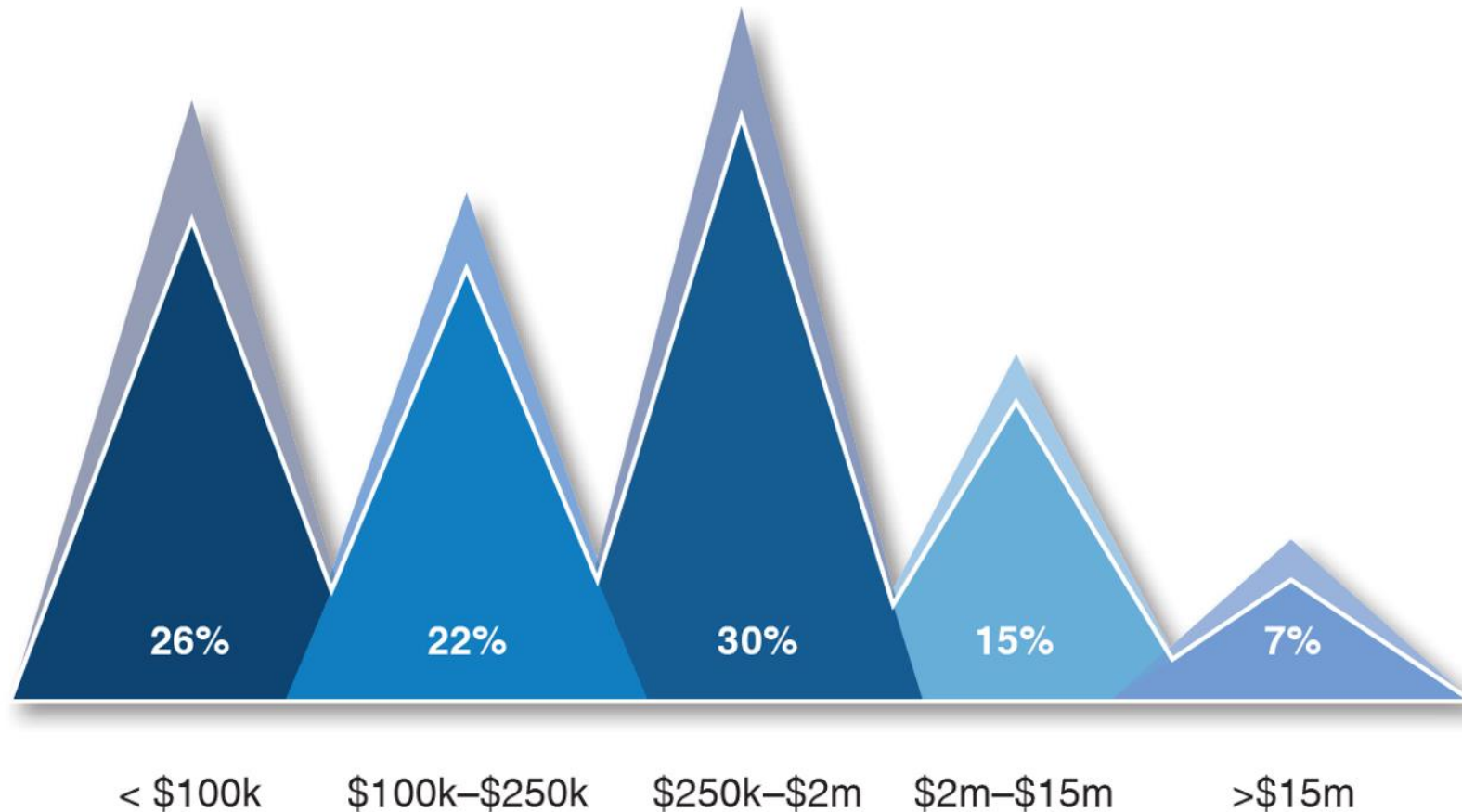
# Types of Projects



**New South Wales**  
New application  
projects 40%



# Project Budgets



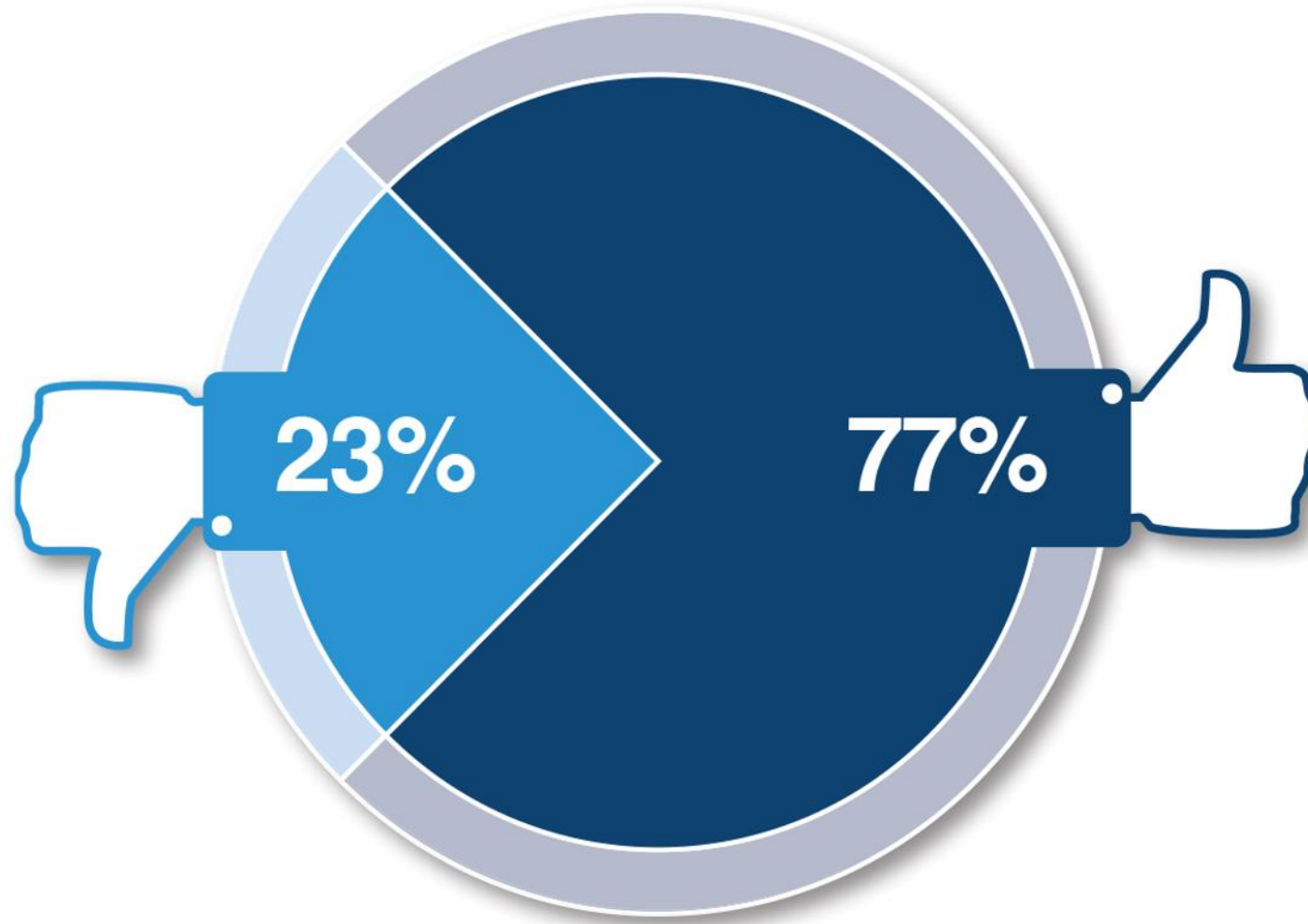
**New South Wales**  
34% over \$2 million

**New Zealand**  
11% over \$2 million

**Queensland**  
73% under \$250k

# Testing in the Organisation

# Organisational View of Testing

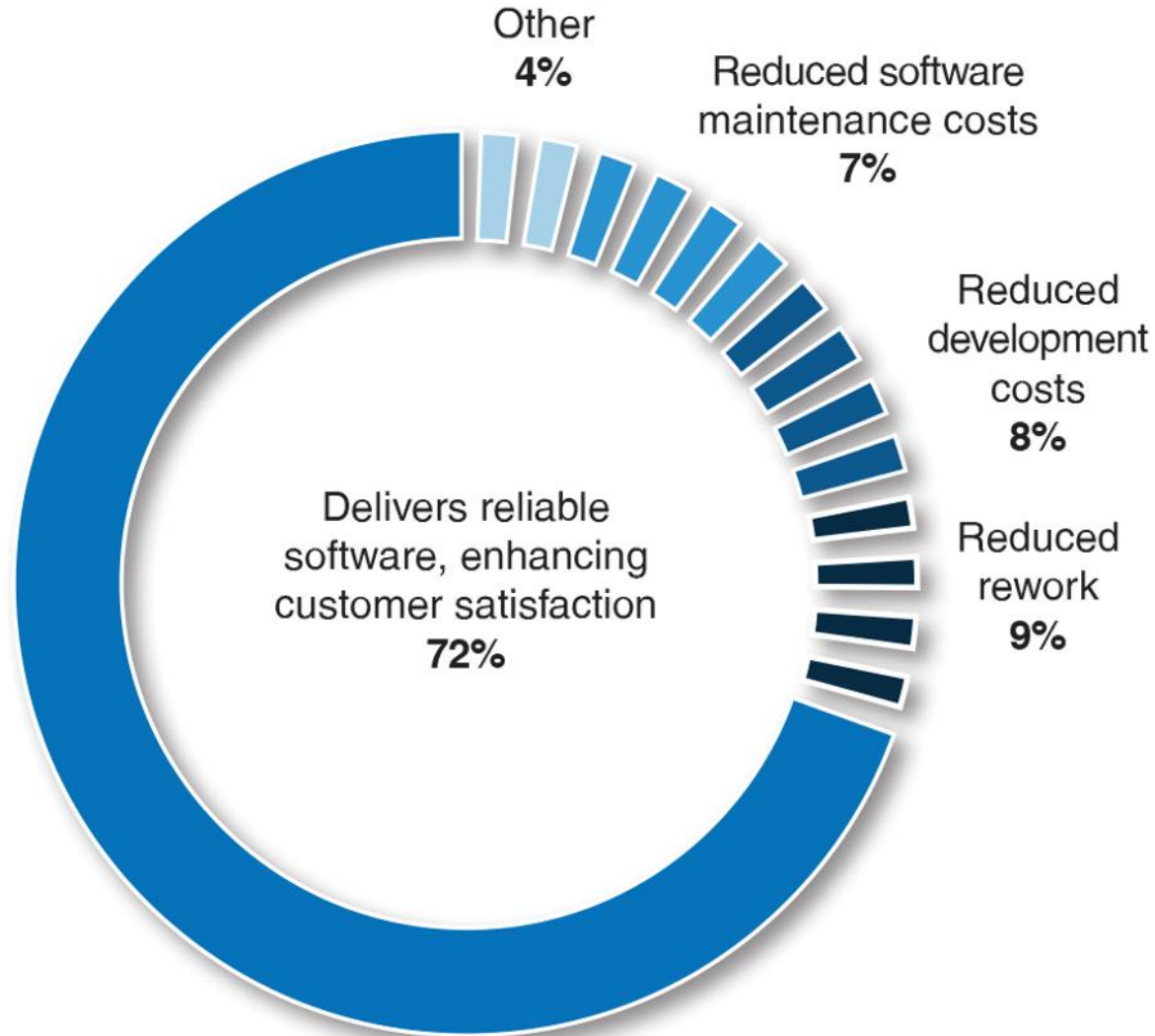


Critical element in  
producing reliable  
software 46%

Strategically important  
for organisation  
success 31%

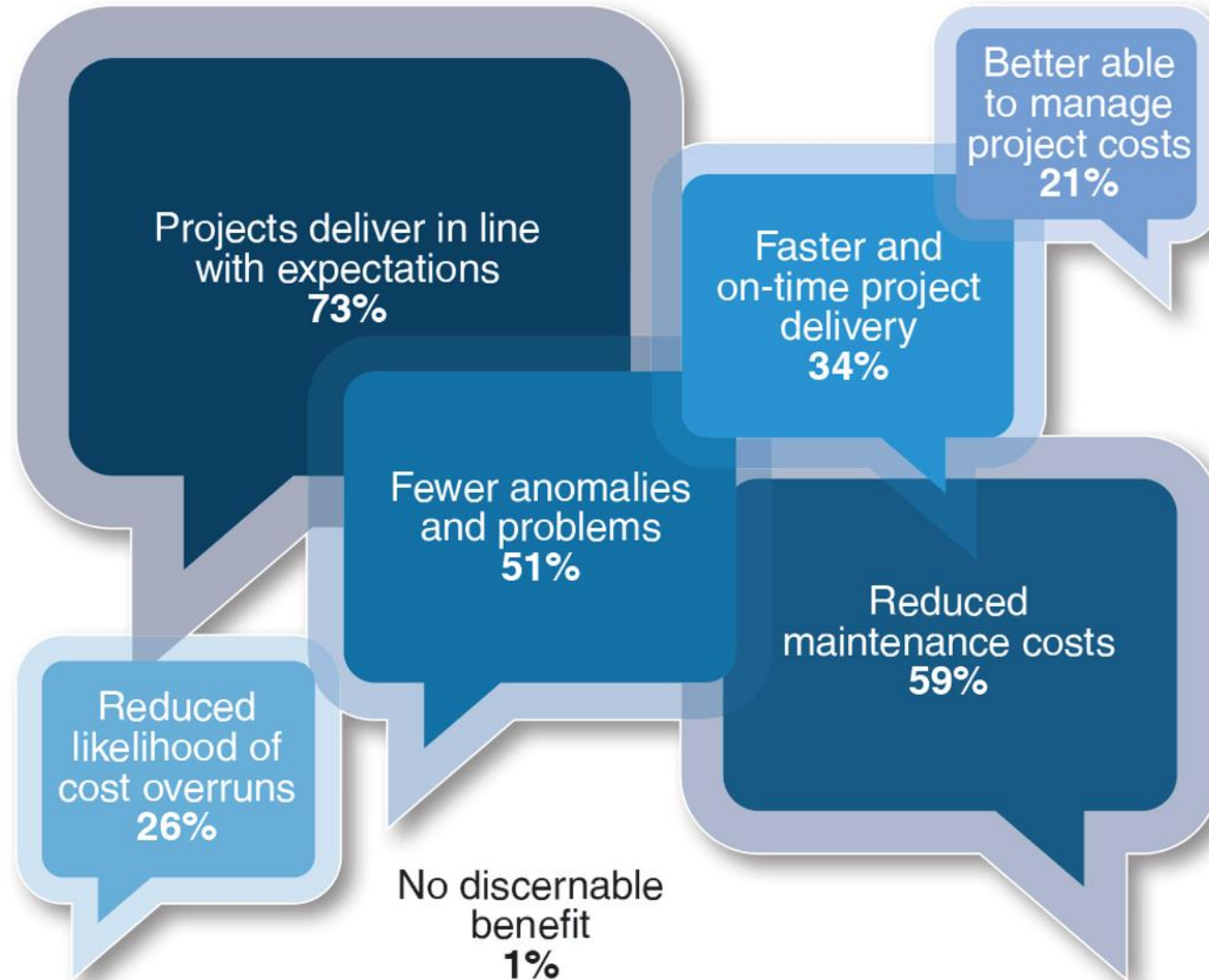
Necessary evil 11%  
Cost to be minimised 10%  
Low priority 2%

# Business Cases for Testing



**Secondary Business Case**  
Reduced software maintenance costs 39%

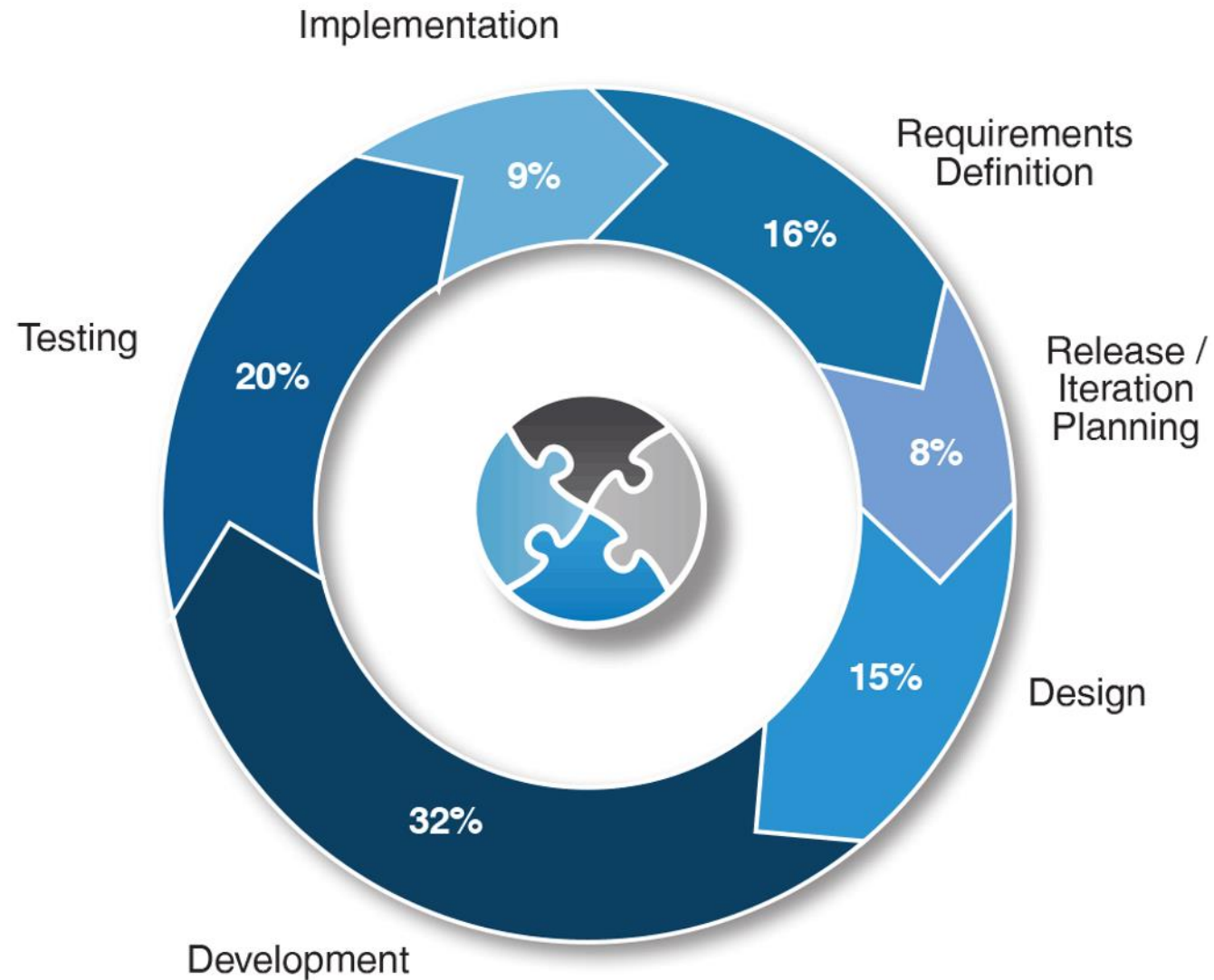
# Benefits of Testing



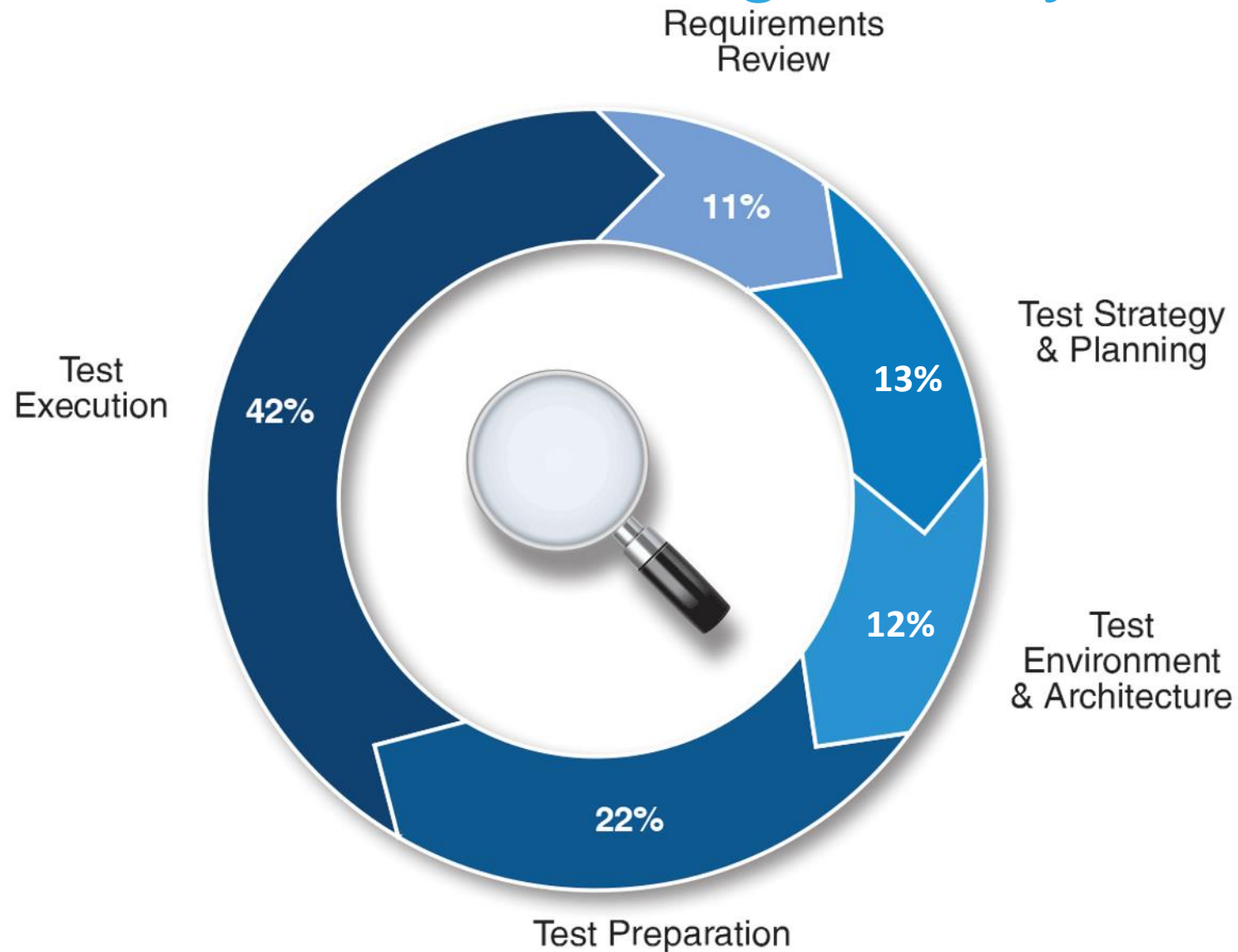
73% cite multiple observable benefits

**Telecoms & ICT**  
Faster and on-time project delivery 48%

# Project Budget Allocation



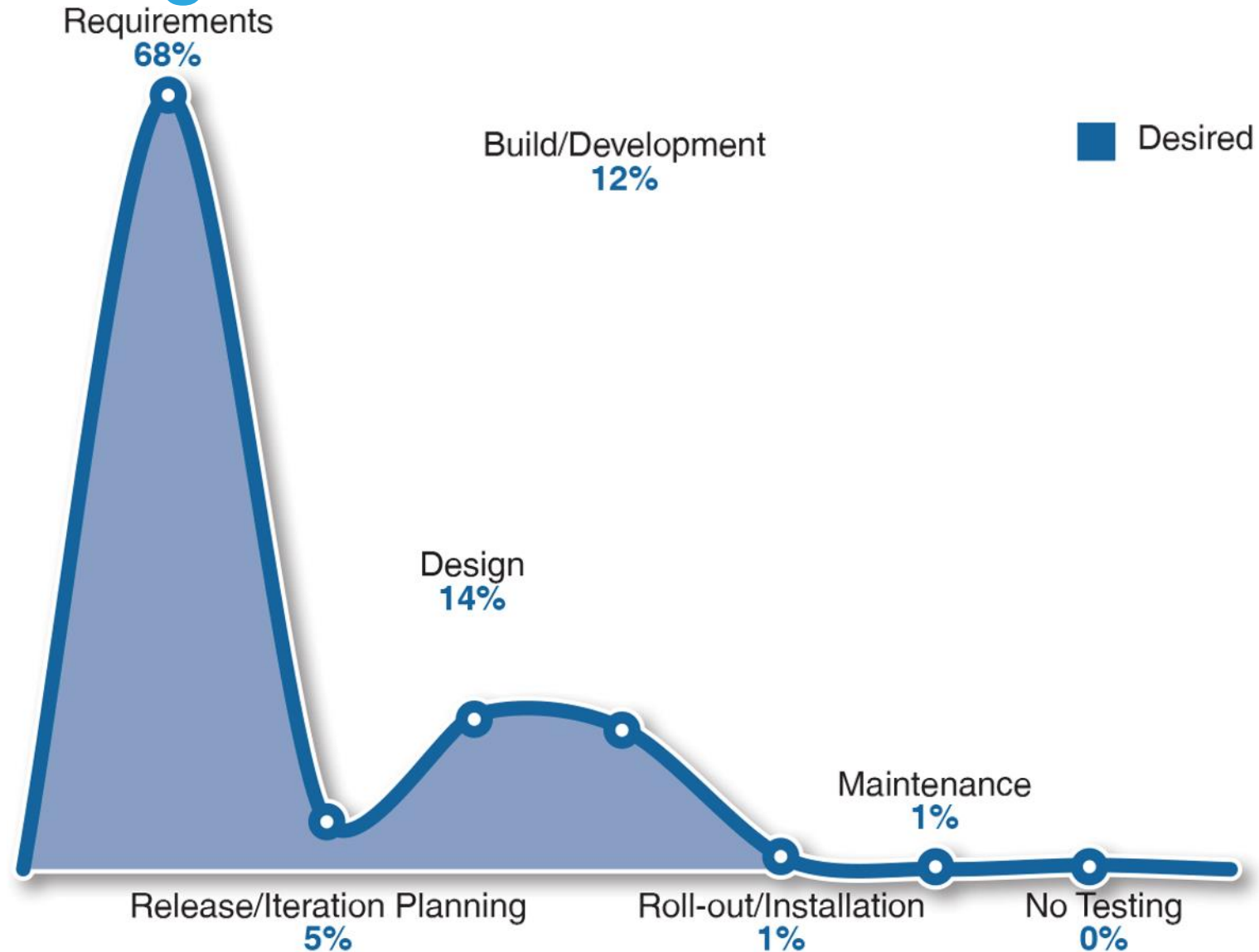
# Breakdown of Testing Activity



**Western Australia**  
test preparation +  
test execution 75%

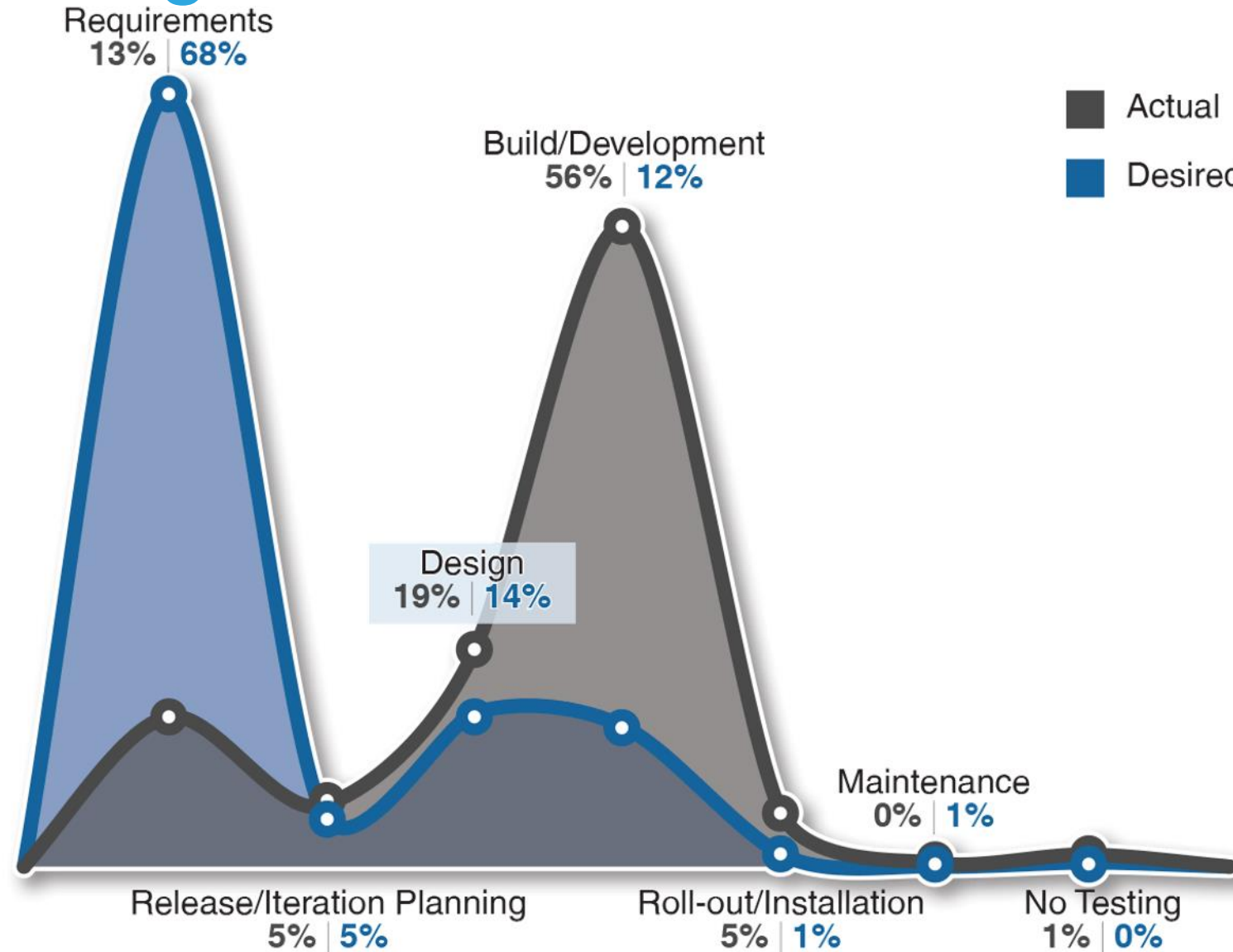


# When Testing Starts – Desired



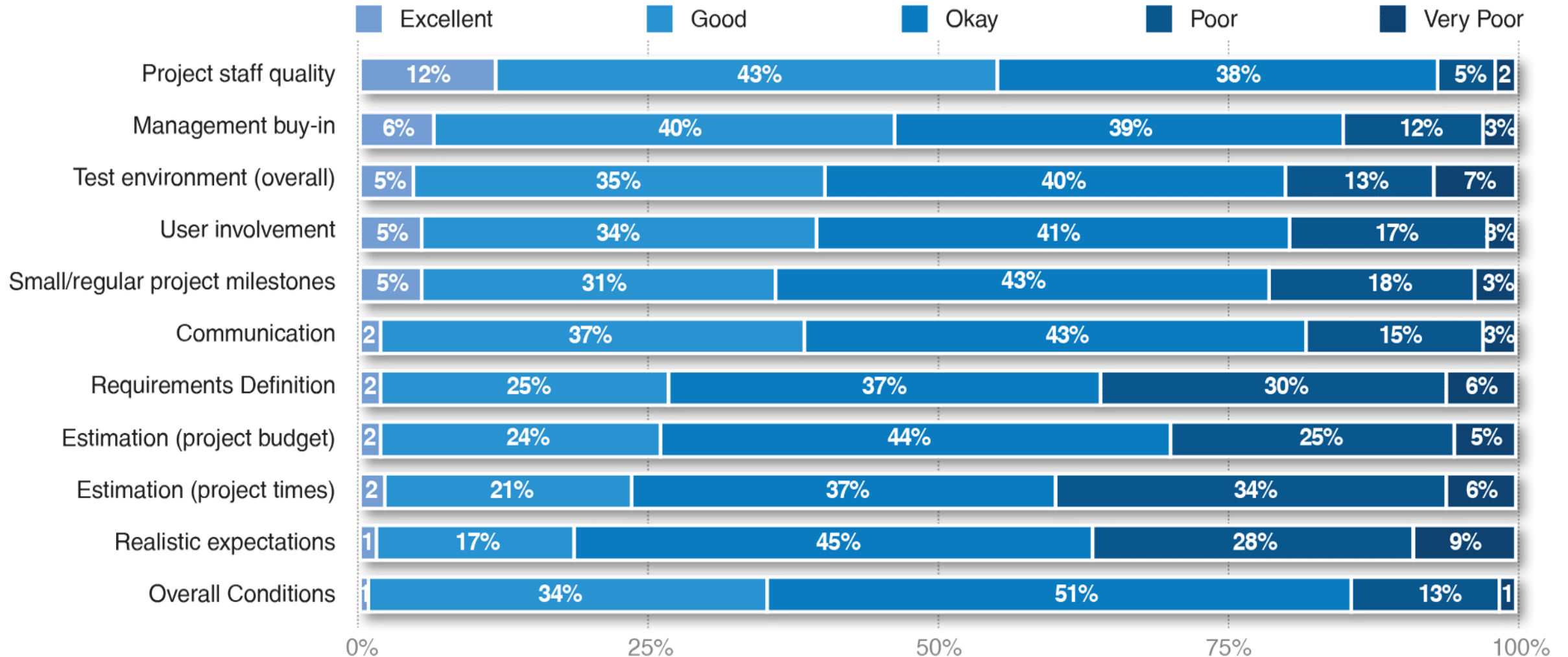


# When Testing Starts – Actual vs Desired

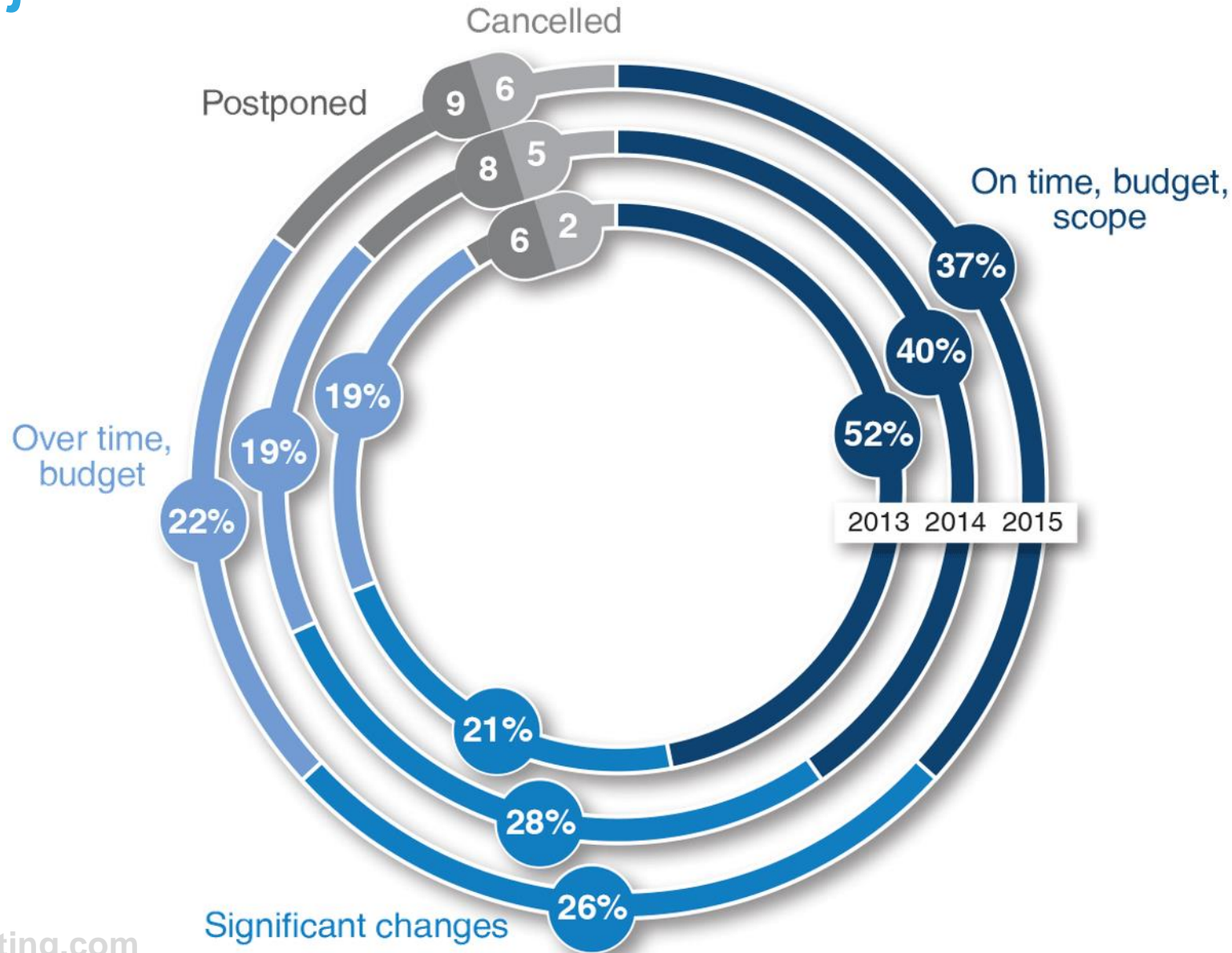


# Project Conditions & Outcomes

# Project Conditions



# Project Outcomes

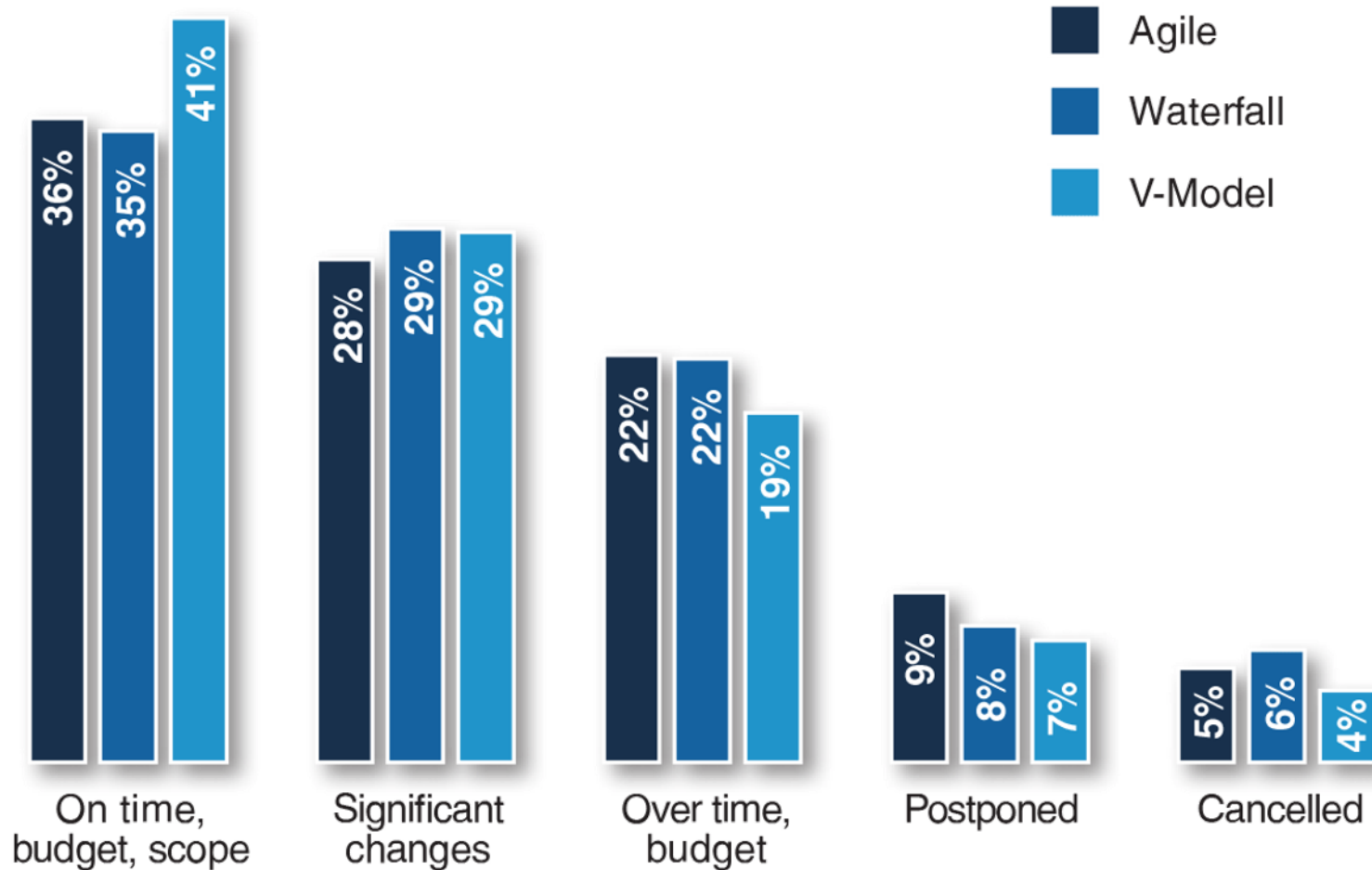


Postponements and cancellations at an all-time high 15%

**Victoria**  
45% completed on time, budget, scope

**New South Wales**  
11% completed on time, budget, scope

# Project Outcomes by Primary Methodology

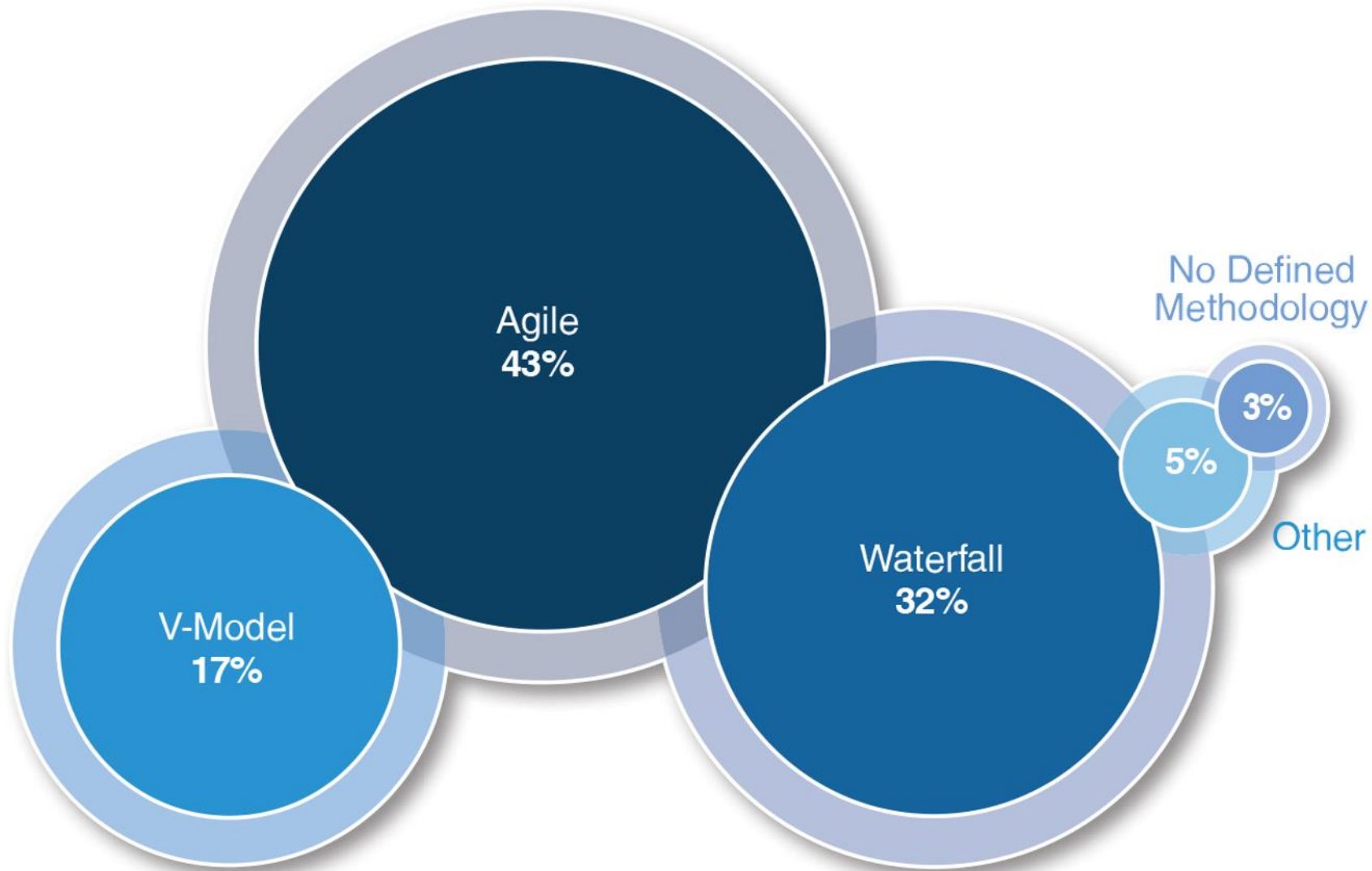


**Agile – 2015 vs 2014**  
Completed on time,  
budget, scope -6%

**Waterfall – 2015 vs 2014**  
Completed on time,  
budget, scope -11%

**V-Model – 2015 vs 2014**  
Completed on time, budget,  
scope +1%

# Project Methodologies



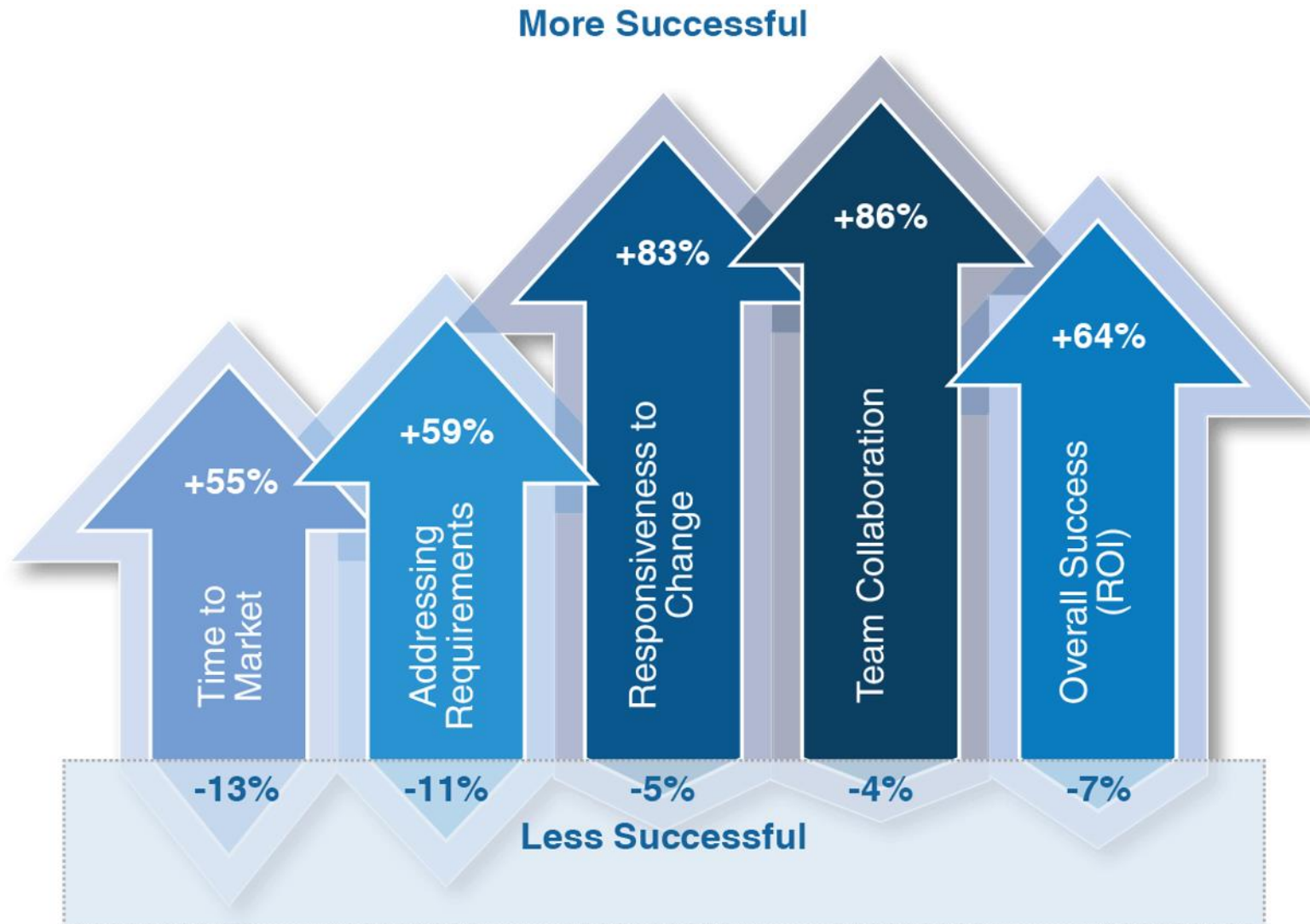
88% of orgs apply Agile in some portion of their projects

77% of Agile orgs are applying Scrum practices

32% of Agile orgs are applying Kanban practices

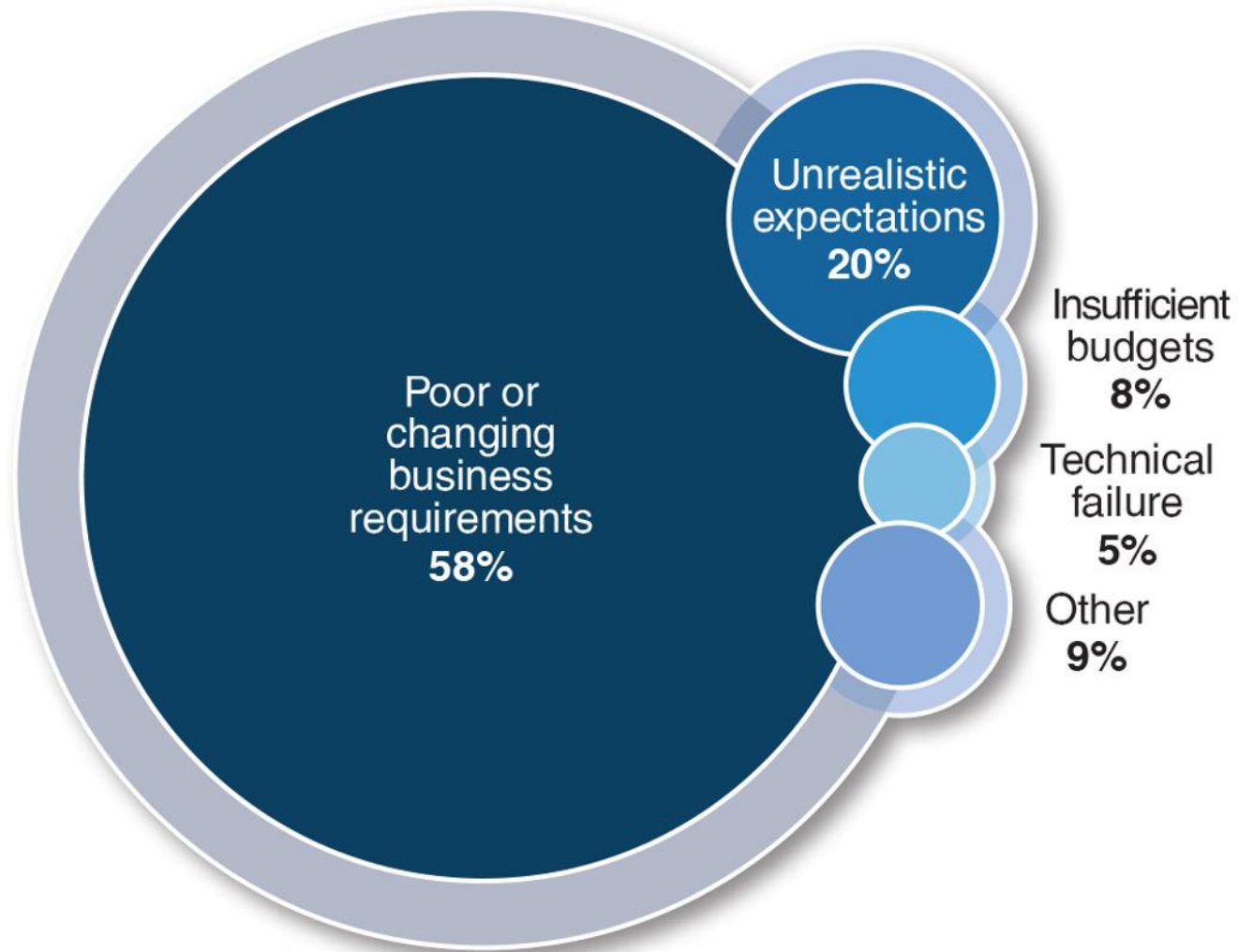


# Success of Agile



**2015 vs 2014**  
More successful  
overall + 7%

# Primary Causes of Project Failure

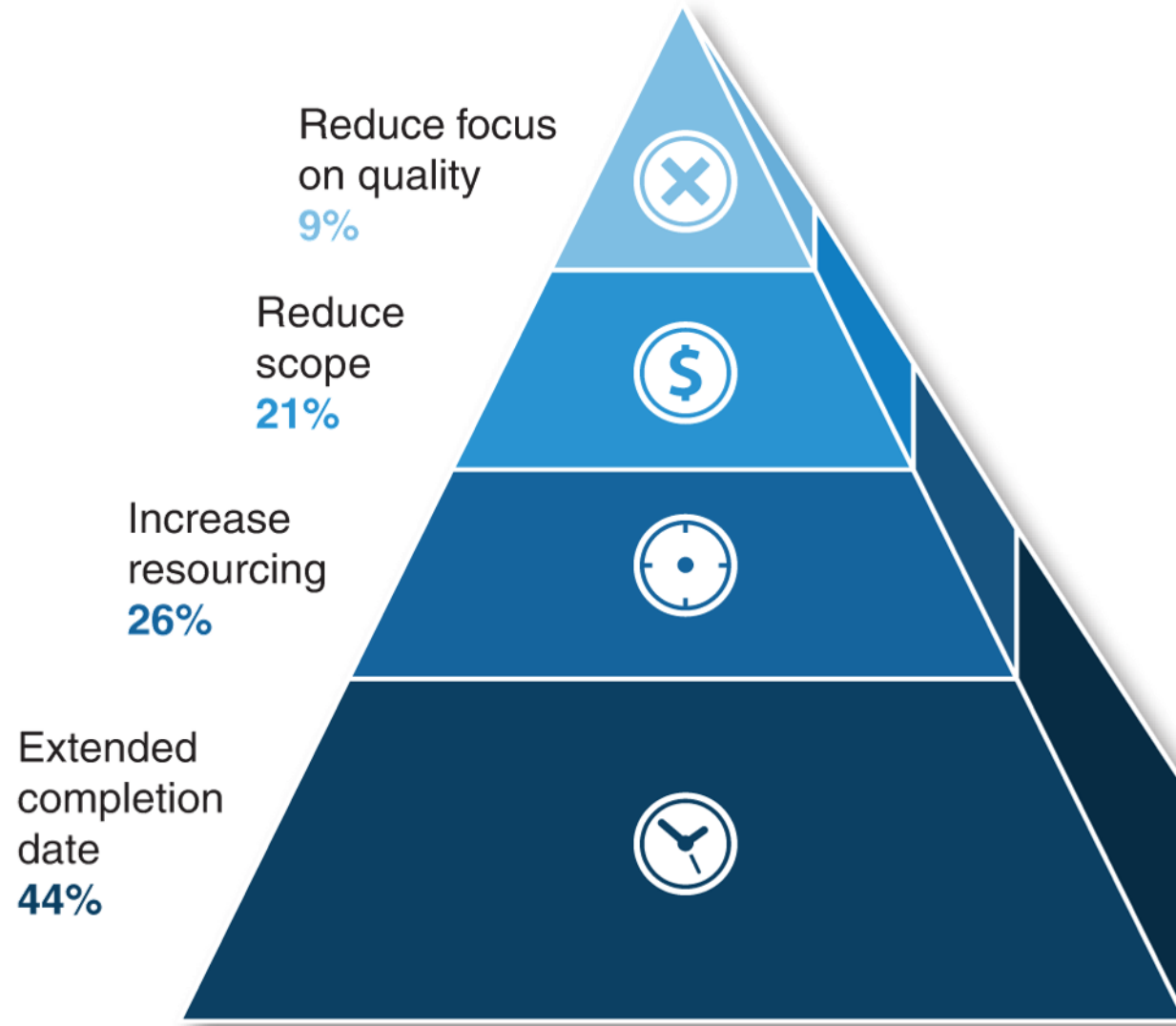


**Telecoms & ICT**  
Insufficient budgets 15%

**Telecoms & ICT**  
Technical failure 11%



# Projects Under Pressure

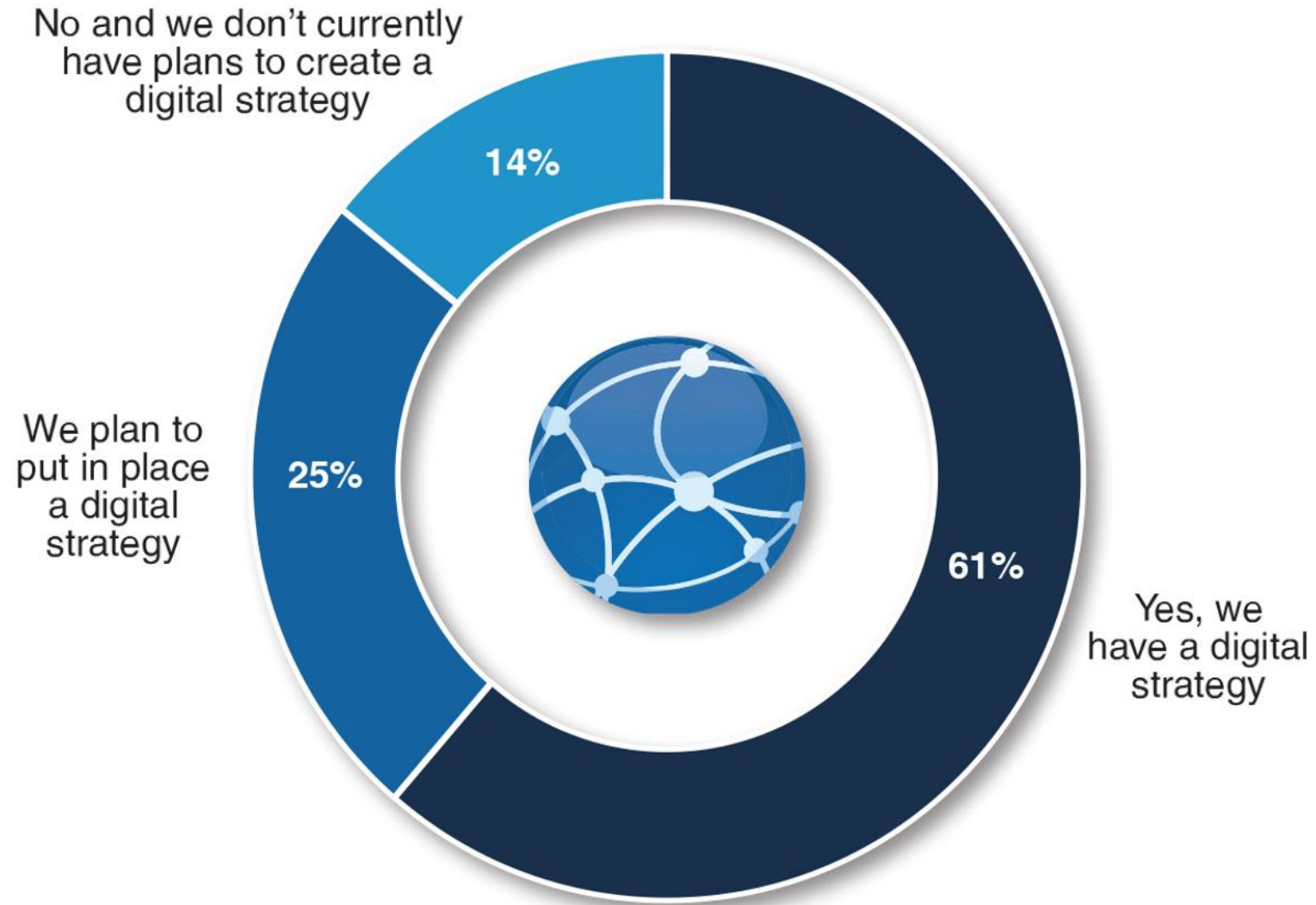


**Queensland**  
38% increase  
resourcing

**Telecoms & ICT**  
56% extend  
completion date

**Software Industry**  
56% extend  
completion date

# Digital Strategies



**Government**  
43% have a digital strategy

**Government**  
38% intend to implement a digital strategy this year

**Government**  
19% have no digital strategy nor plans to put one in place

# Industry Trends



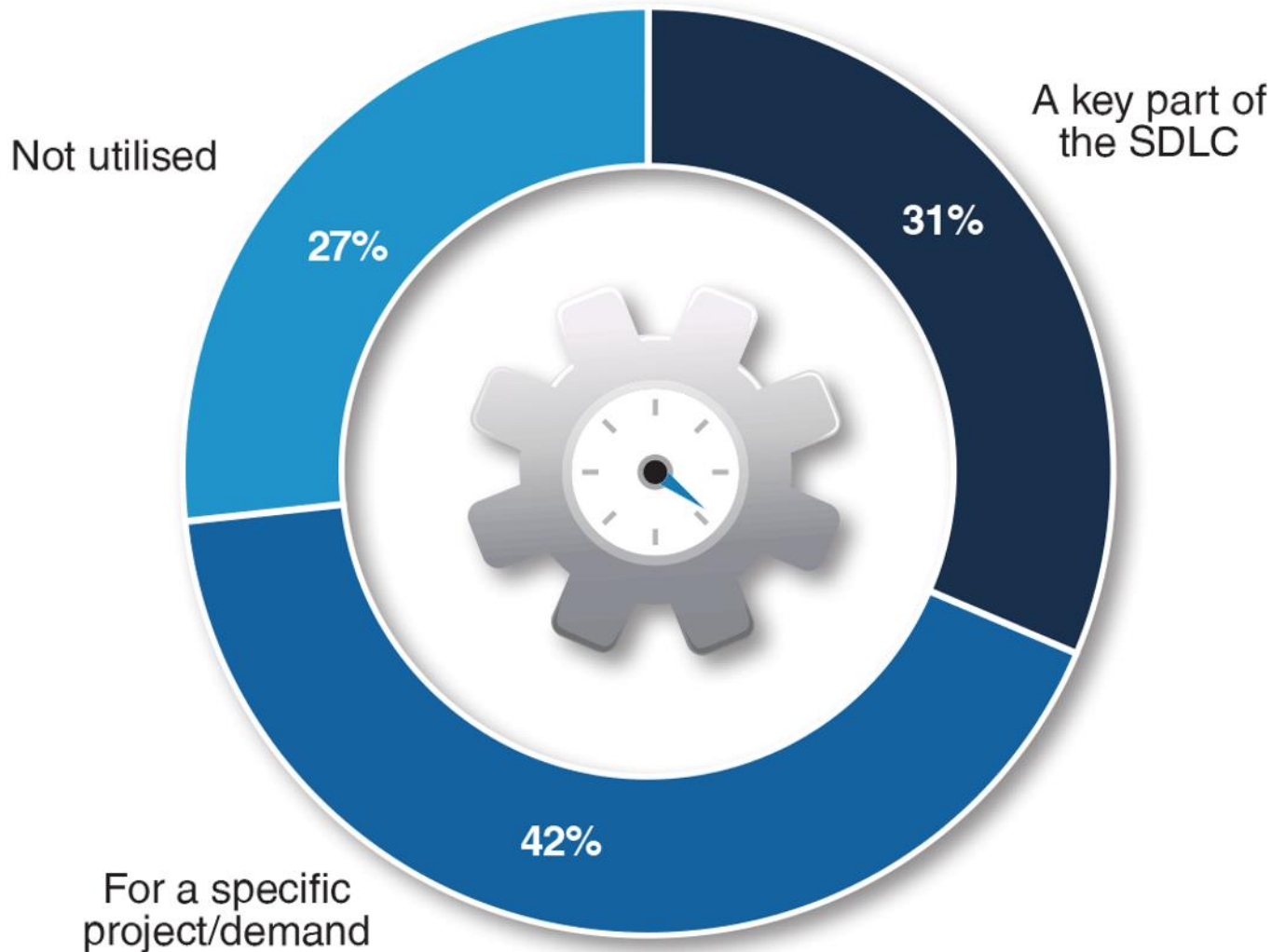
**Government**  
The Cloud 21%

**Telecoms & ICT**  
The Cloud 22%

**Western Australia**  
DevOps 26%

# Technical Testing

# Test Automation Utilisation

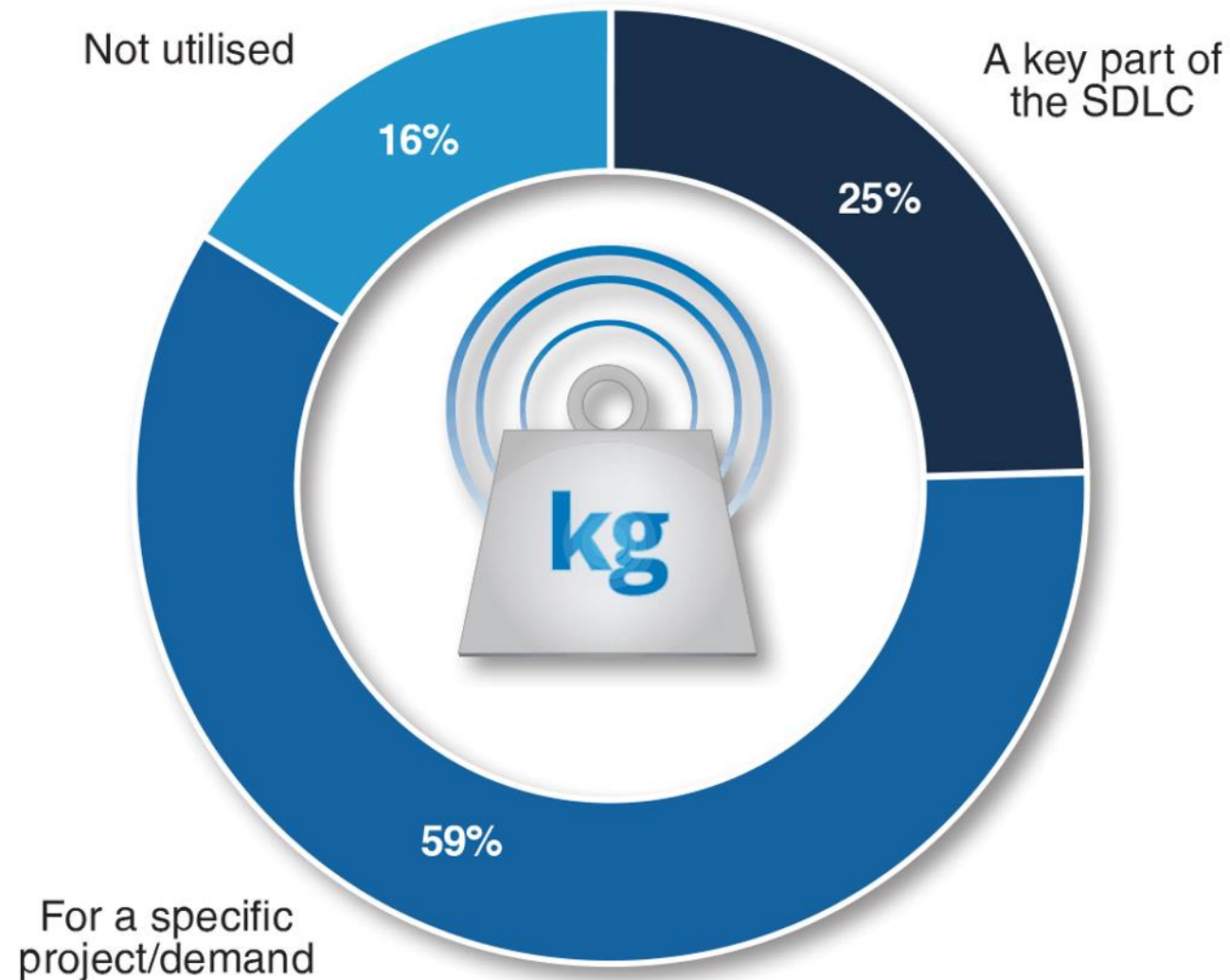


**2015 vs 2012**  
A key part of the SDLC +15%

**Government**  
38% not utilising test automation

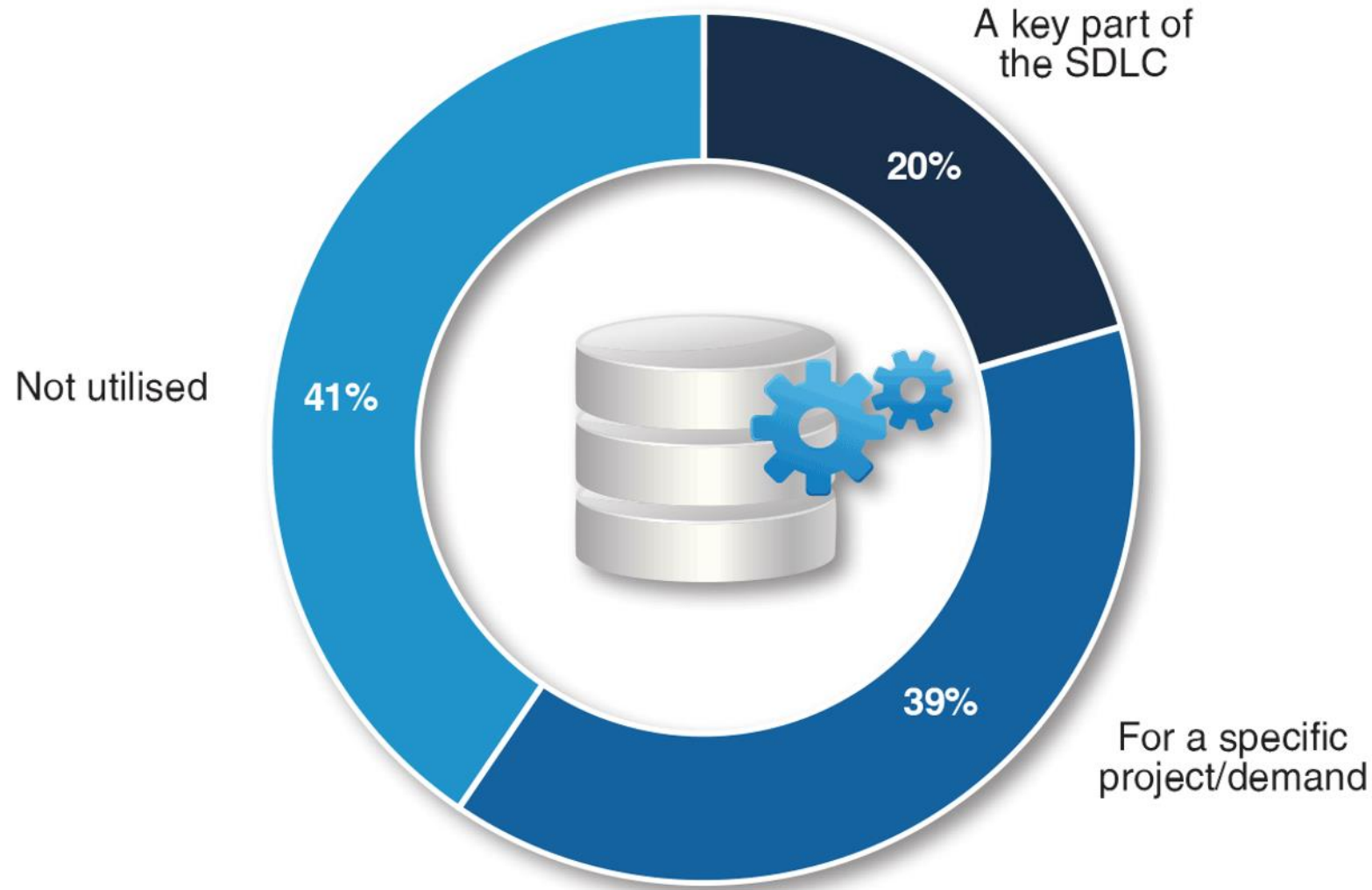
**Financial, Telecoms, ICT and Software Industries**  
Key part of the SDLC >40%

# Performance Testing Utilisation



**Financial Services**  
32% a key part of the SDLC

# Service Virtualisation Utilisation



**Government**  
Not utilised 52%

**Telecoms & ICT**  
Key part of the SDLC 33%

**2015 vs 2014**  
Key part of the SDLC +7%



# Demand for Cloud-based Services

## Tools and Applications



## Development and Test Environments



## Production Environments



## Data Warehousing and Analytics



Currently Using
  Plan to Adopt
  Not Used/Planned

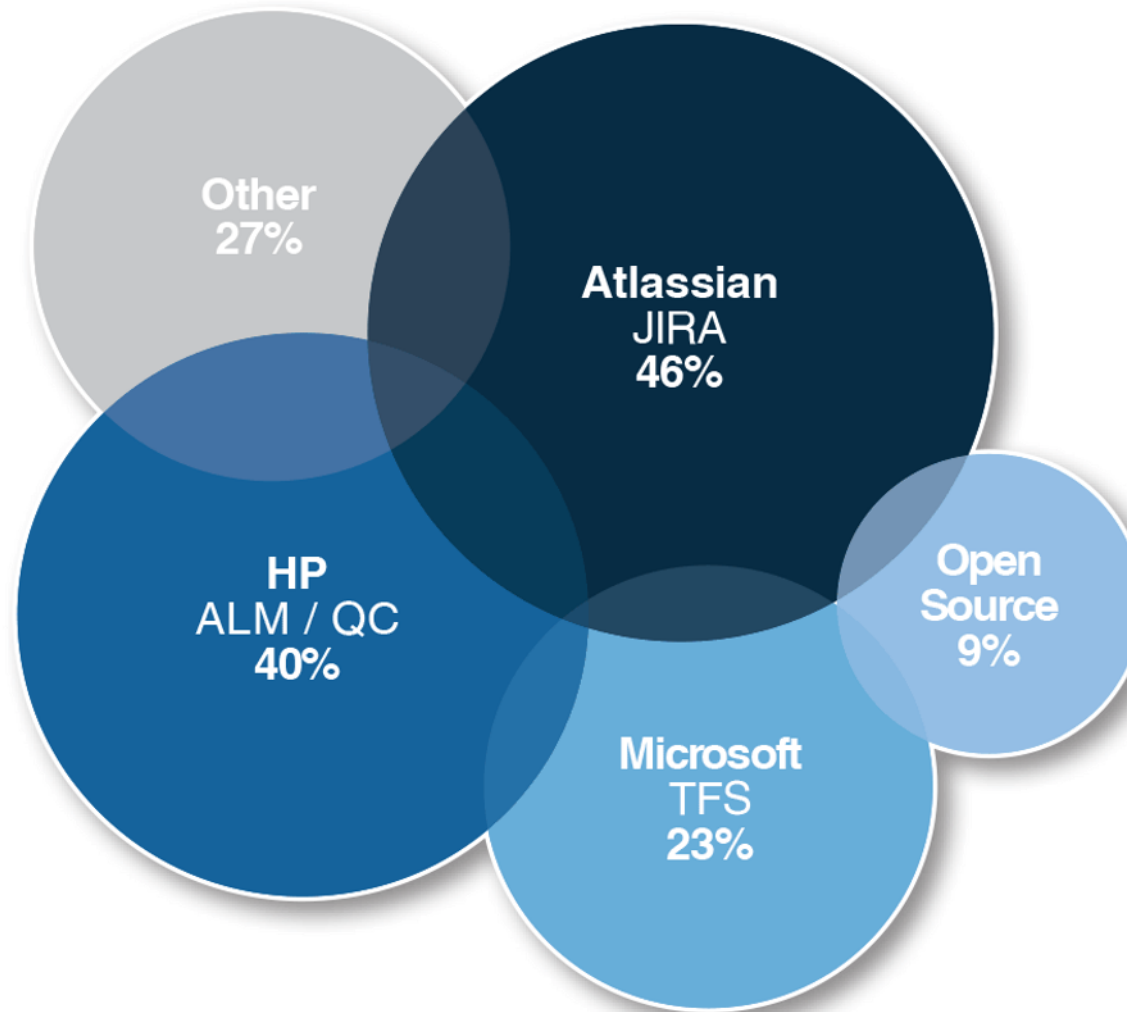
**2015 vs 2014**  
Currently using cloud-based tools +18%

**Finance & Government**  
Cloud utilisation approx. half of overall average

**Telecoms/ICT & Software**  
Currently using cloud-based tools 65% & 57%



# Test Tool Utilisation – Test Management

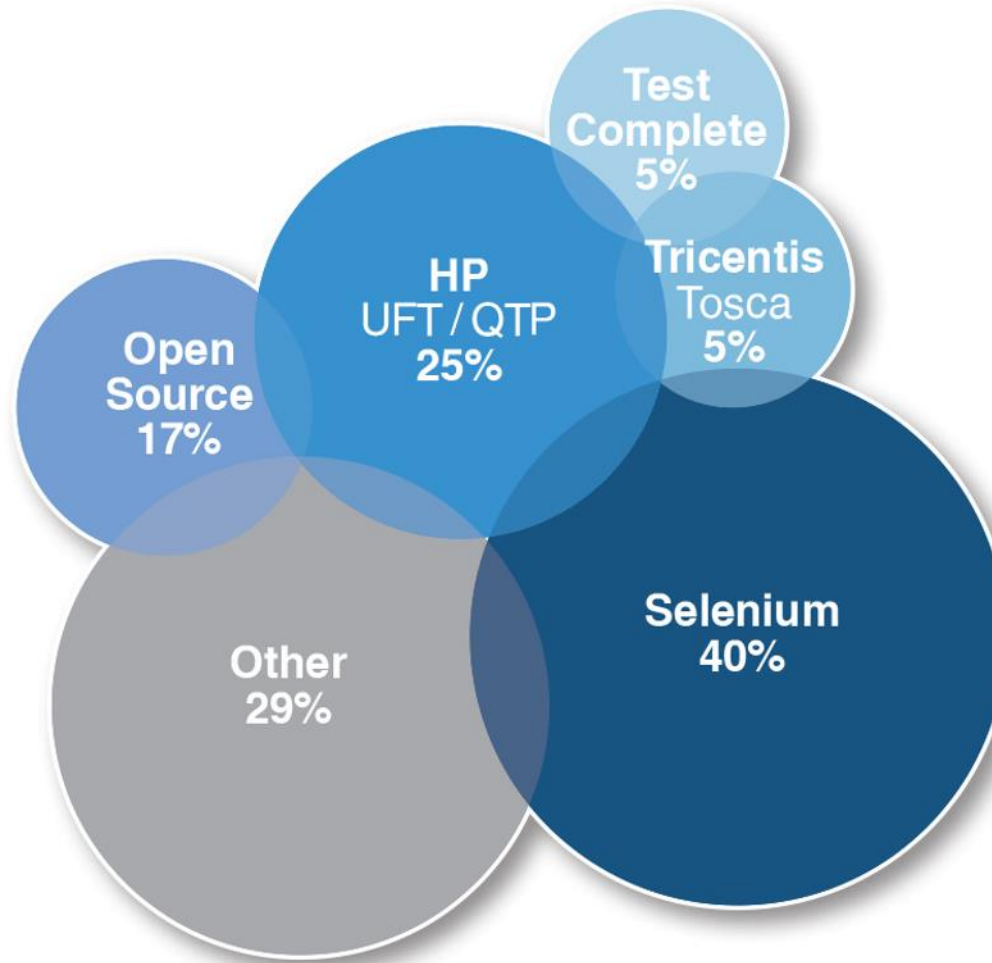


**Australia**  
HP ALM/QC 48%

**Software Industry**  
HP ALM/QC 14%

**New Zealand**  
Microsoft TFS 31%

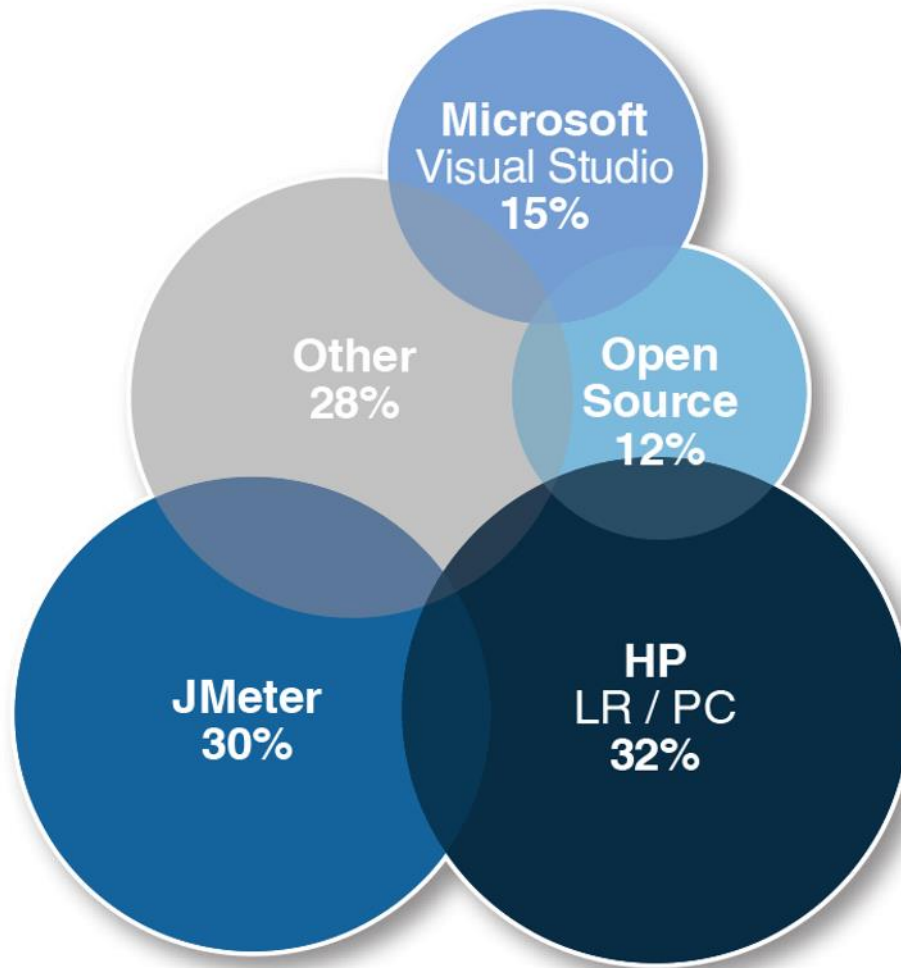
# Test Tool Utilisation – Test Automation



**2015 vs 2014**  
Selenium +8%

**Software Industry**  
HP UFT/QTP 11%

# Test Tool Utilisation – Performance Testing



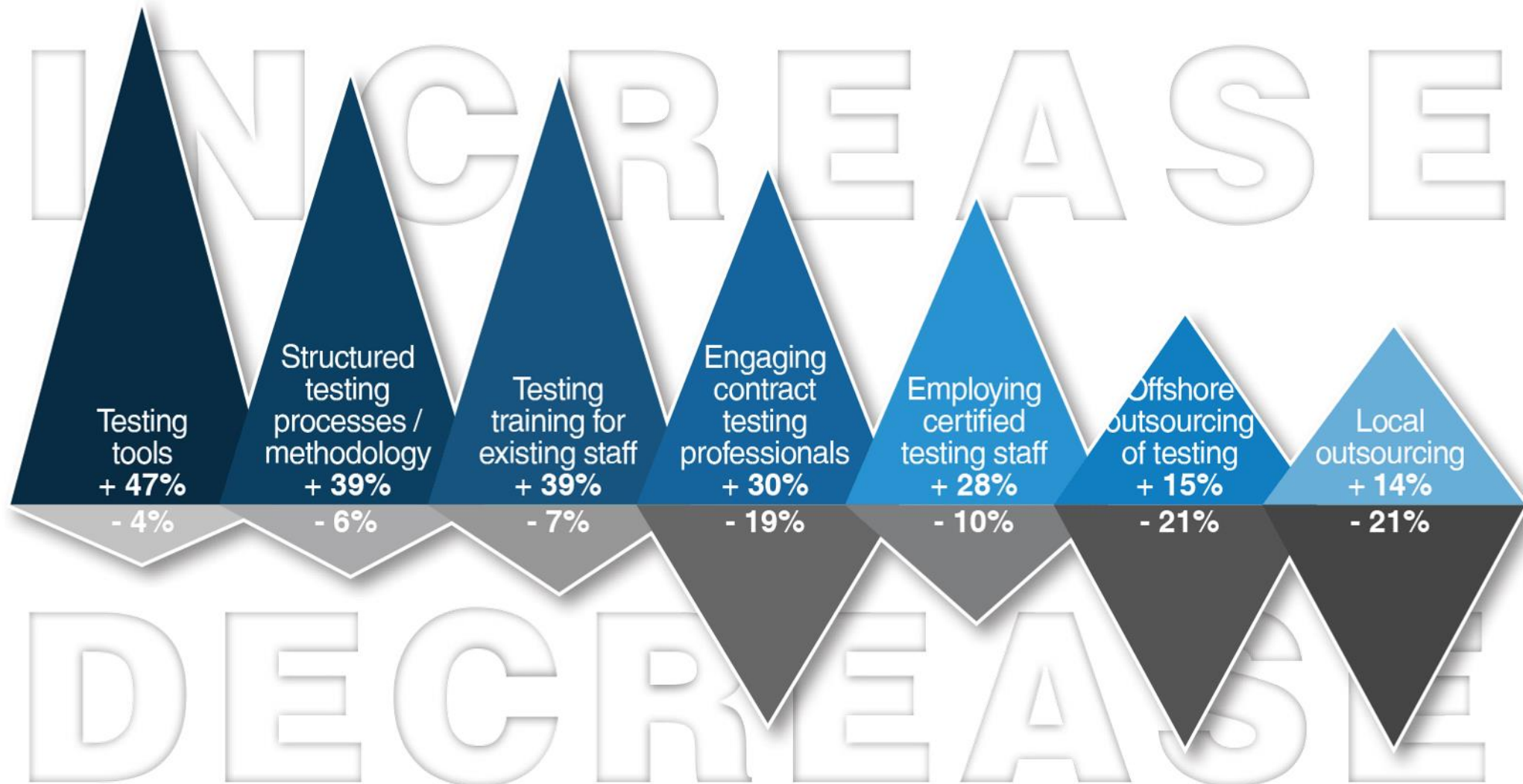
**2015 vs 2014**  
JMeter +5%

**New Zealand**  
JMeter 31% (#1)

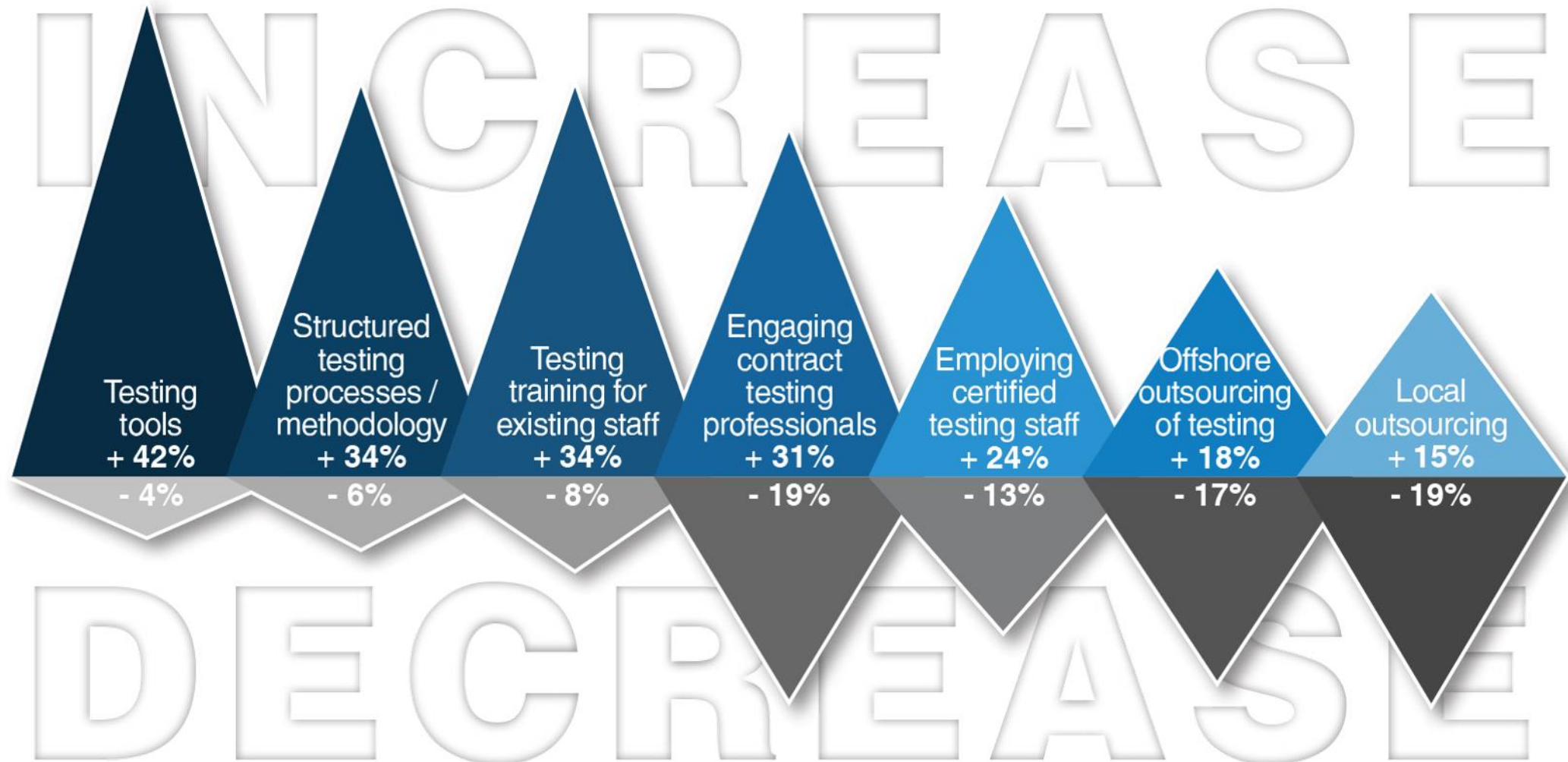
**Software Industry**  
HP LR/PC 8%

# Outlook and Investment

# Investment in Testing - Overall

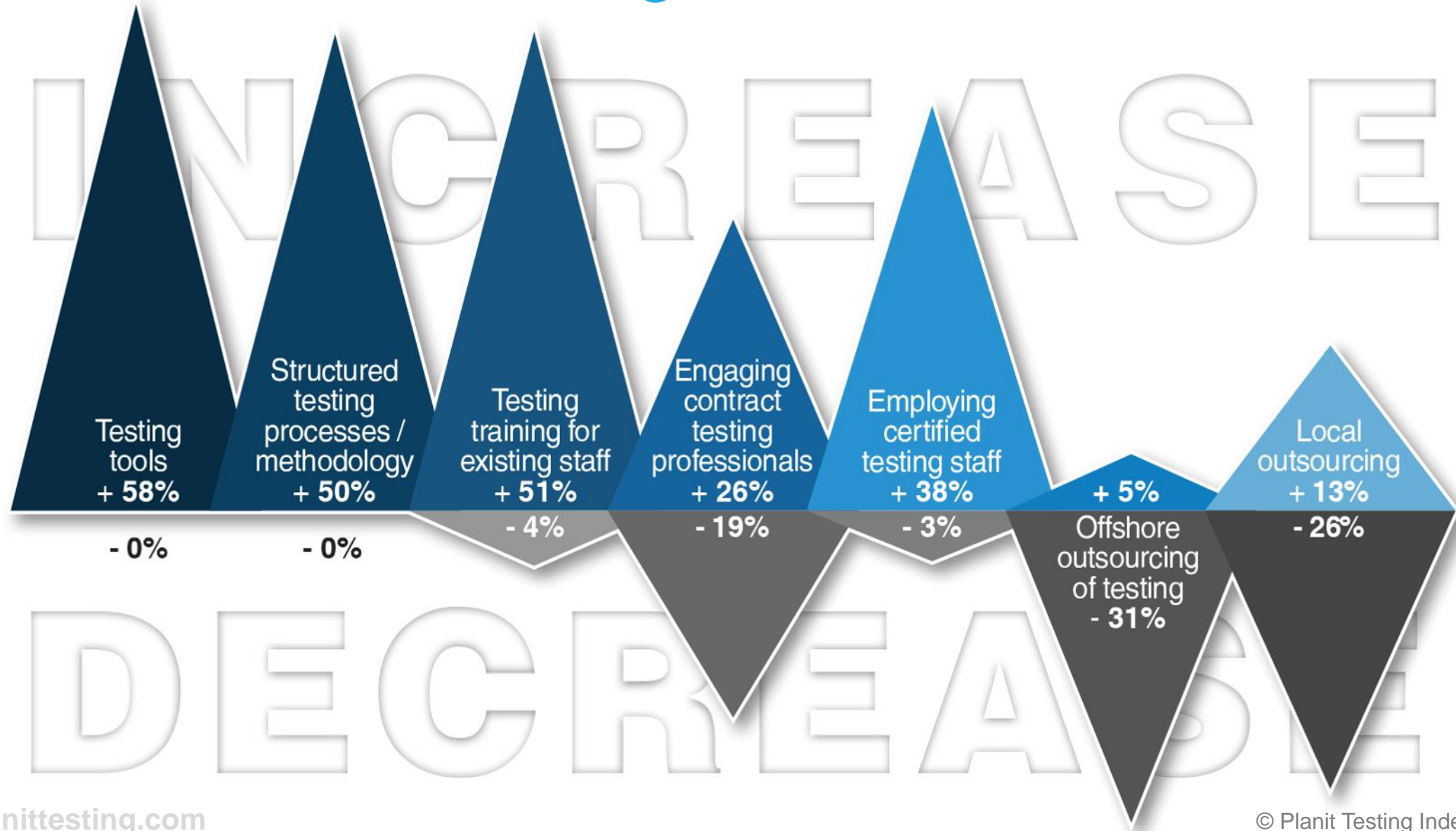


# Investment in Testing - Australia





# Investment in Testing – New Zealand



# Presentation Summary

- Understand the benefits but we don't seem to be getting there
- Testing still starting late in the SDLC despite the push to Agile/DevOps
- Still bad at the same things: requirements, estimation and expectations
- Postponements/cancellations at an all-time high; less on-time; more over budget
- V-Model posting the best results but perception is that Agile is more successful
- Most organisations have a digital strategy or will have one
- Significant trends are Automation, Cloud, Tools, Agile, Mobile and DevOps
- Significant growth in cloud-based tools/services, JIRA and Selenium
- Overall drop in offshoring
- New Zealand investing heavily in training and employing certified testing staff



# QUESTIONS?

**Graham Davis**  
**Director of Testing**