

STATE OF **AGILE** SURVEY

2009

“THE STATE OF AGILE DEVELOPMENT”

4TH ANNUAL

INTRODUCTION



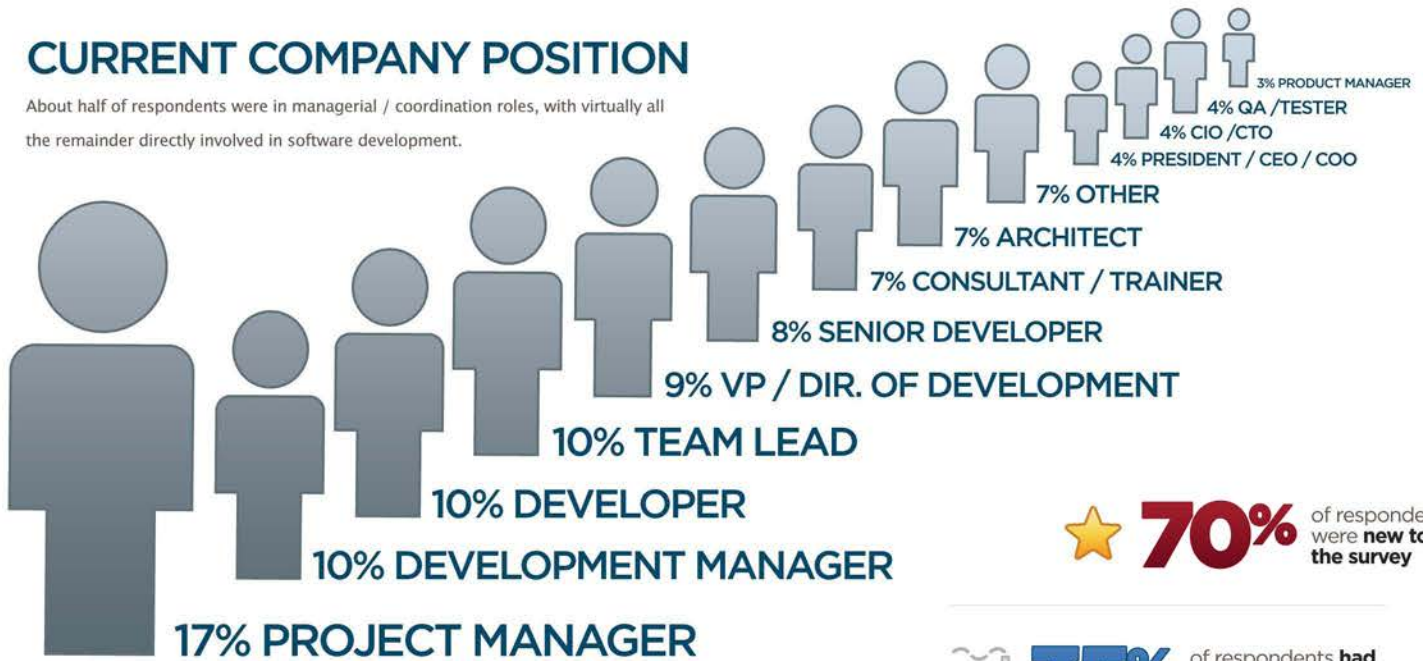
The fourth annual "State of Agile Development" survey was conducted between July 22nd and November 5, 2009. Sponsored by VersionOne, respondents were recruited from mailing lists, websites, and other software development industry fora. The survey data includes information from 2,570 participants from 88 countries. The data was analyzed and prepared into a summary report by Analysis.Net Research, an independent survey consultancy.



RESPONDENT DEMOGRAPHICS

CURRENT COMPANY POSITION

About half of respondents were in managerial / coordination roles, with virtually all the remainder directly involved in software development.



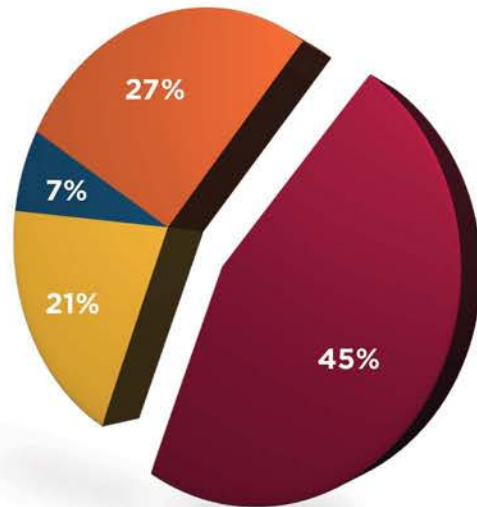
70% of respondents were **new to the survey**

35% of respondents **had practiced** Agile methods at previous companies

EXPERIENCE WITH AGILE DEVELOPMENT PRACTICES

Respondents were quite knowledgeable about Agile Development, with 93% saying that they were at least "knowledgeable" about Agile practices.

- EXTREMELY KNOWLEDGEABLE
- MODERATELY KNOWLEDGEABLE
- KNOWLEDGEABLE
- VERY LITTLE KNOWLEDGE



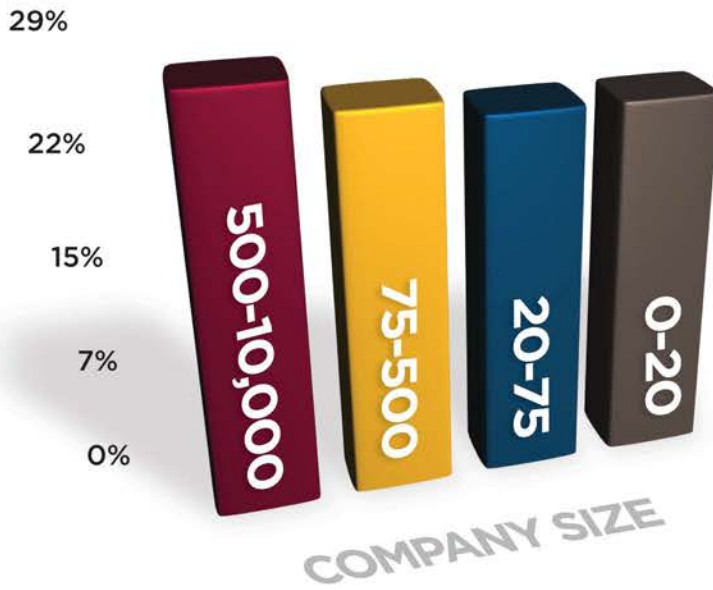
How experienced are you with Agile development practices?



AGILE IN THE ENTERPRISE

AGILE ADOPTION

The median size of development organizations was 75. One fourth had 20 or fewer employees.

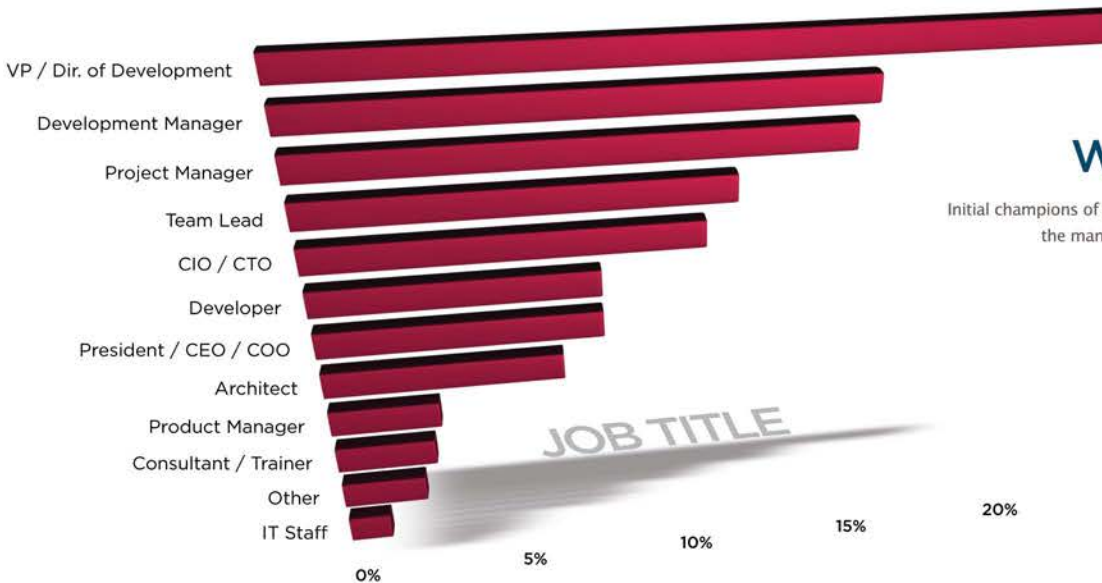


84%

of respondents worked in organizations that used **Agile development practices** to some degree.

58%

of respondents worked in companies with **distributed development teams**.

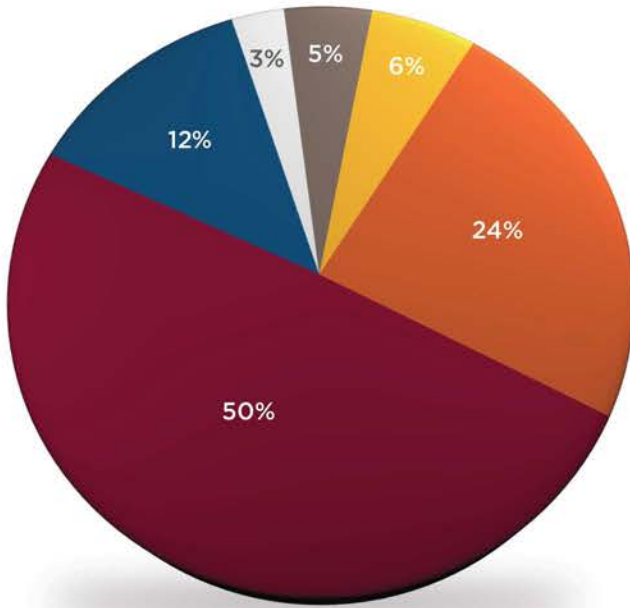


WHO DECIDES?

Initial champions of Agile methods are typically found within the management layer – nearly 70% of the time.



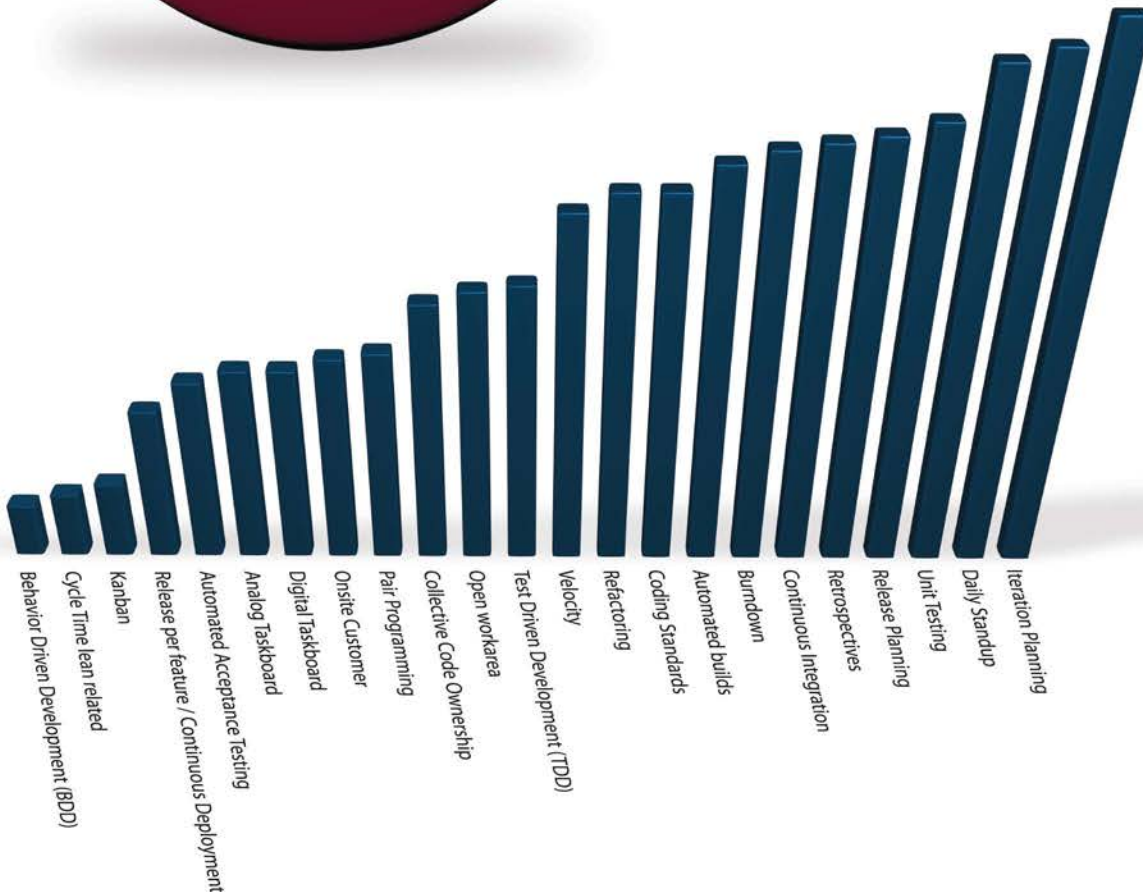
AGILE METHODS & PRACTICES



AGILE METHODOLOGY MOST CLOSELY FOLLOWED

Scrum or a variant were by far the most common Agile methodologies employed.

-  SCRUM
-  SCRUM / XP HYBRID
-  EXTREME PROGRAMMING / XP
-  CUSTOM HYBRID
-  LEAN DEVELOPMENT
-  DON'T KNOW / OTHER



AGILE TECHNIQUES EMPLOYED

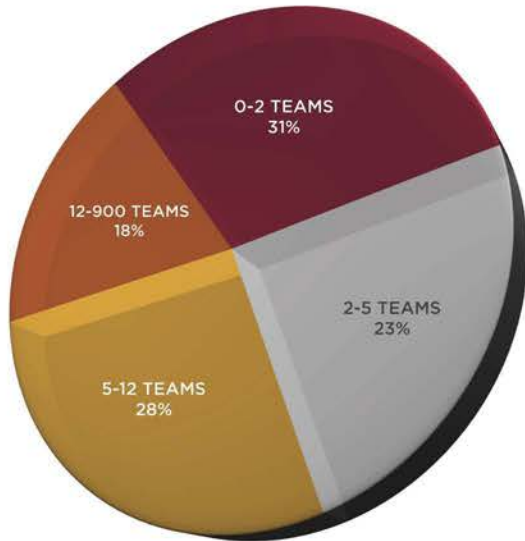
Core Agile tenets – daily standup, iteration planning, and unit testing – were used by the vast majority of respondents.

69%

of respondents reported that their Agile teams **adhered to the 3 questions** during their daily meetings / scrums / standup.

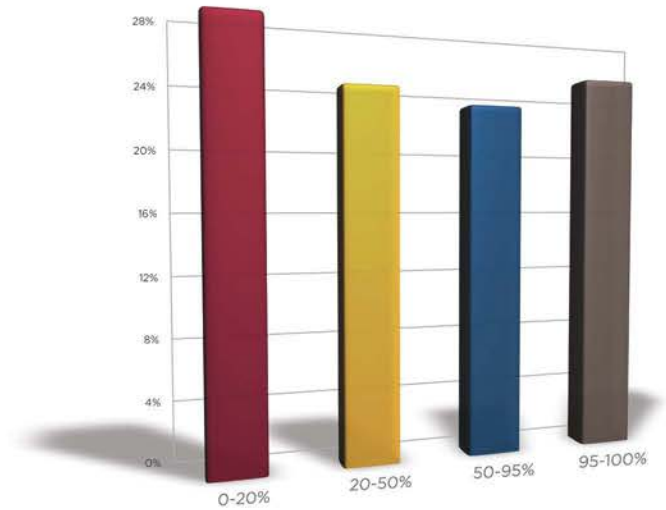
HOW MANY TEAMS HAVE ADOPTED AGILE?

Most companies only had a few teams using Agile; about half had fewer than five.



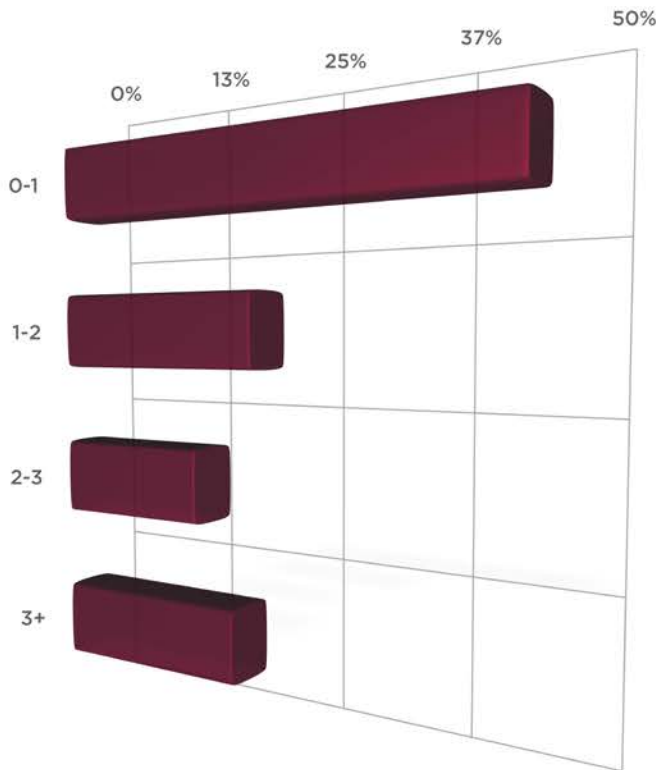
PERCENT OF COMPANY PROJECTS USING AGILE

About half of projects in respondents' companies used Agile.



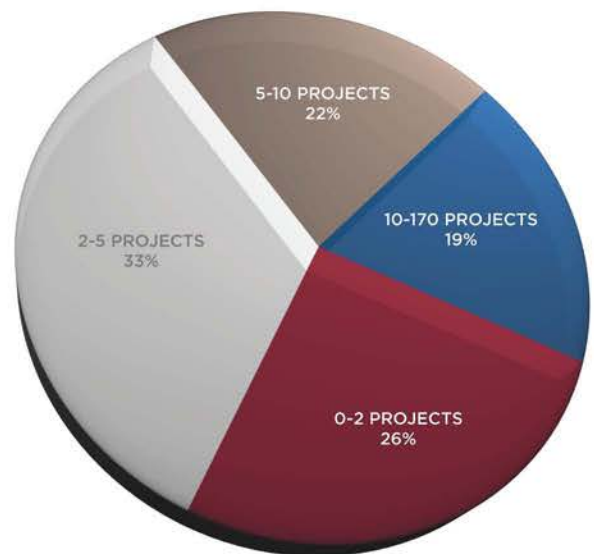
NUMBER OF SEPARATE SITES / LOCATIONS USING AGILE

Most companies only had 1 or 2 sites using Agile.

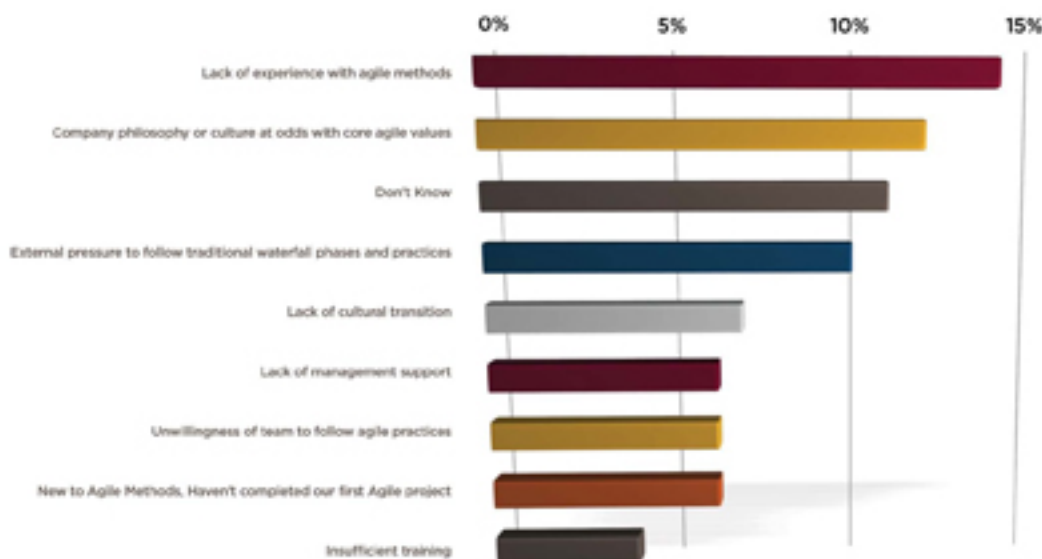


HOW MANY PROJECTS ARE RUN USING AGILE?

Similarly, most companies only had a few Agile projects. (Size of project was not considered)



▲ LEADING CAUSES OF FAILED AGILE PROJECTS

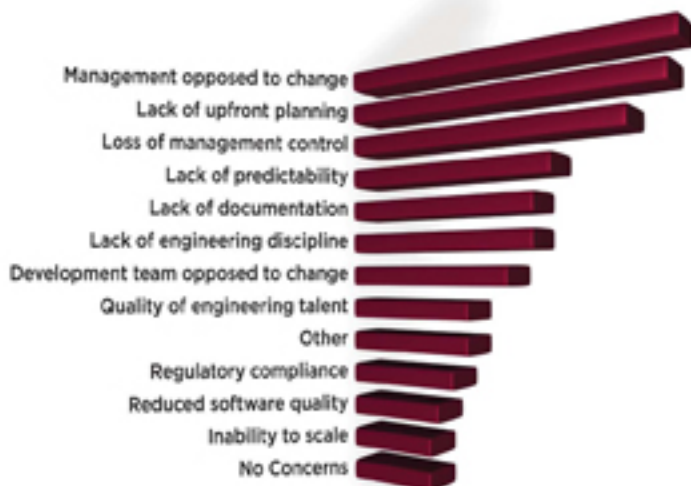


23%

of respondents reported they had not experienced a failed Agile project at all.

BARRIERS TO FURTHER ADOPTION OF AGILE

Management opposition and lack of upfront planning were the most commonly cited barriers to further adoption of Agile within companies.



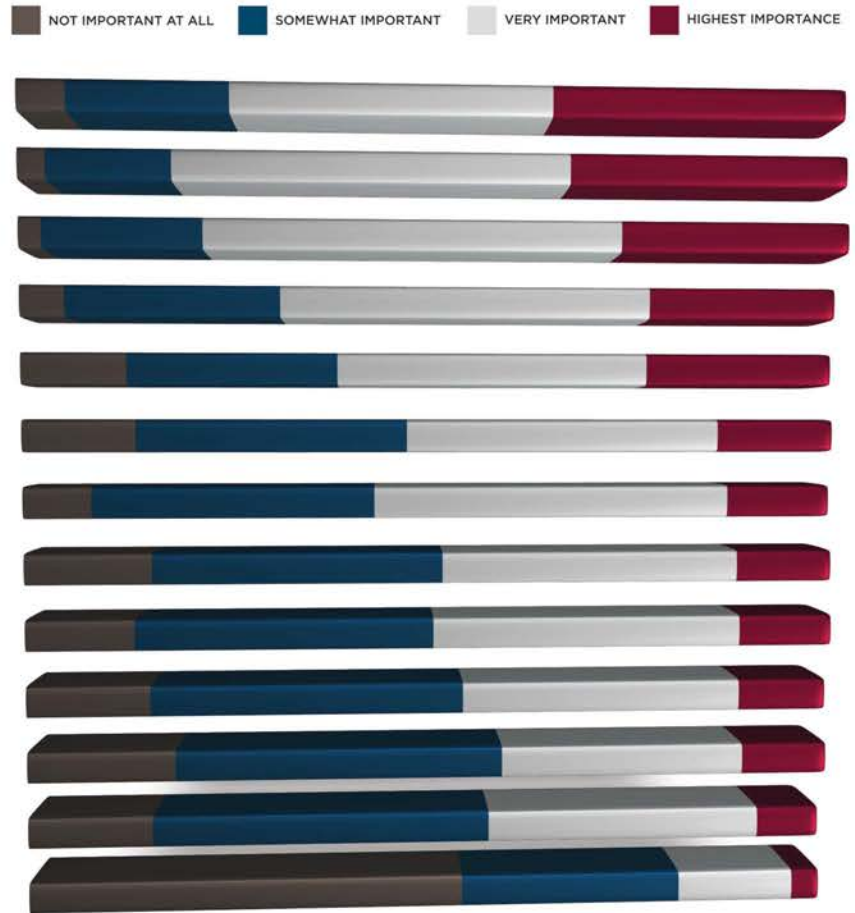
GREATEST CONCERNS ABOUT ADOPTING AGILE

Corporate concerns about the adoption of Agile methodologies were most commonly centered around its implementation. Respondents said their companies were concerned about the lack of upfront planning (46%) or the lack of documentation (34%).



REASONS FOR ADOPTING AGILE

The main reasons cited by respondents as to why they decided to adopt Agile practices hinged on overall process flexibility, productivity, and quality. Other aspects like reducing cost were cited less often.



OVERALL CONSENSUS REGARDING ADOPTION OF AGILE

Eighty percent of respondents felt that Agile projects were the same or faster to completion than previous non-Agile ones.

64% SAID
FASTER
TIME TO COMPLETION

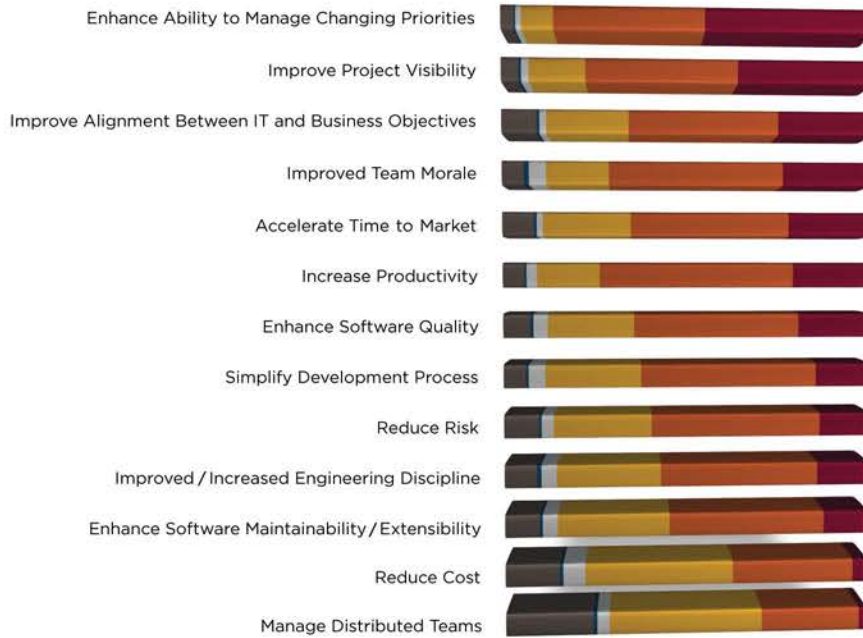
16% SAID
SAME
TIME TO COMPLETION

16% SAID
NOT YET
COMPLETED AN AGILE PROJECT

4% SAID
SLOWER
TIME TO COMPLETION

BENEFITS OBTAINED FROM IMPLEMENTING AGILE

Respondents cited increased flexibility and productivity as the strongest gains won by a shift to Agile.



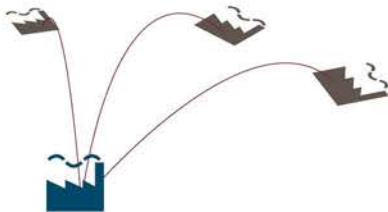
90%

of respondents said implementing Agile either improved or significantly improved their ability to manage changing priorities



83%

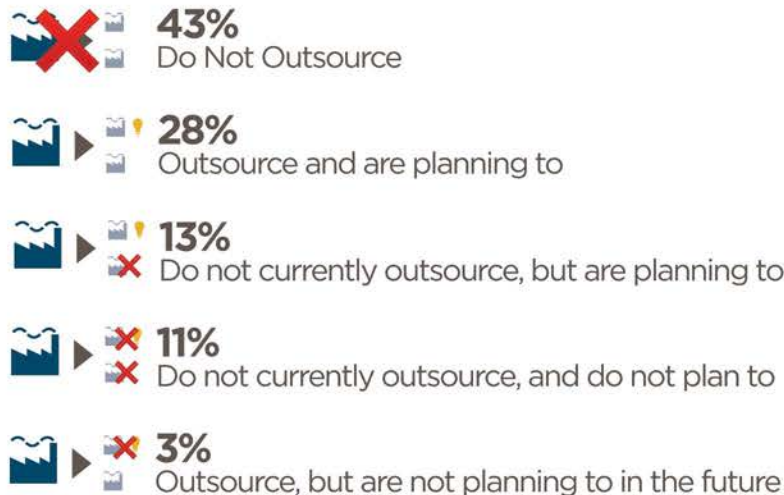
of respondents showed either improvement or significant improvement in project visibility



OUTSOURCED DEVELOPMENT PROJECTS

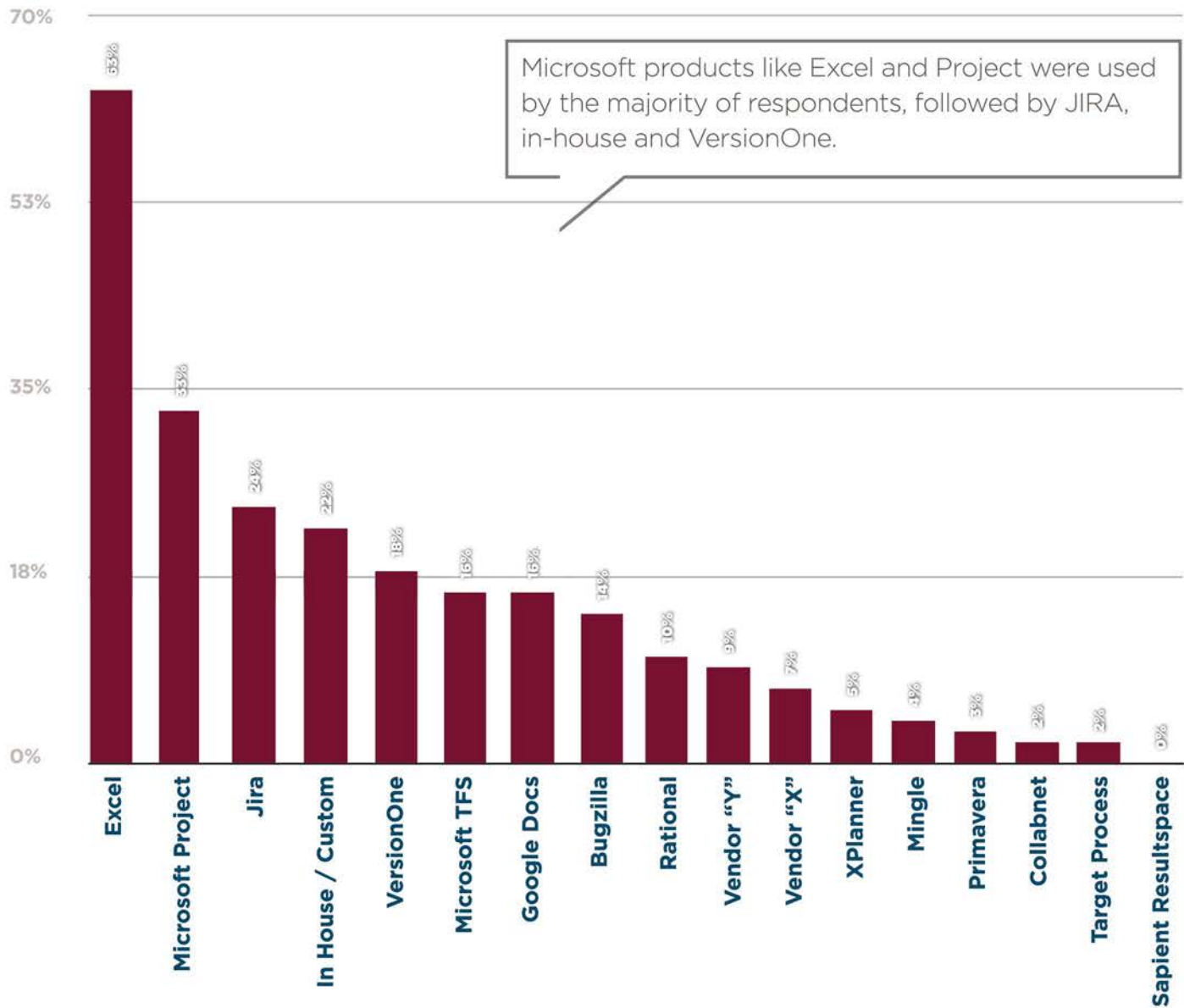
While most respondents did not have outsourced projects, the vast majority of those that did use or are planning to use Agile techniques with them.

USE AGILE ON OUTSOURCED PROJECTS?





SPECIFIC TOOLS CURRENTLY USED:



*PREVIOUSLY VENDORS "X" AND "Y" REQUESTED NOT TO BE IDENTIFIED IN STATE OF AGILE SURVEYS
 *RESPONDENTS WERE ALLOWED TO ANSWER FOR MULTIPLE TOOLS
 *24% OF RESPONDENTS ALSO SELECTED "OTHER"