TESTING RECONSIDERED

31.1% OF PROJECTS WILL BE **CANCELLED** BEFORE THEY EVER GET COMPLETED [1]

ONLY **16.2%** ARE COMPLETED **ON-TIME** AND **ON-BUDGET** [1]

THE AVERAGE **COST OVERRUN** IS **189%** [1]

⚠ **$312**BN SPENT ON **DEBUGGING** PER YEAR [2]

WHY?

TESTING IS TOO SLOW, TOO MANUAL AND LETS AN **UNACCEPTABLE** NUMBER OF **DEFECTS** THROUGH

POOR QUALITY REQUIREMENTS

56% ↑ OF **DEFECTS STEM** FROM **POOR QUALITY** REQUIREMENTS [3]

64% ↑ OF TOTAL **DEFECT COSTS** ORIGINATE IN THE **REQUIREMENTS ANALYSIS** AND **DESIGN PHASE** [4]

MANUAL TEST CASE DESIGN

TEST CASES PROVIDE JUST **10-20%** FUNCTIONAL TEST COVERAGE

(GRID-TOOLS AUDITS OF CUSTOMER TEST DATA AND TEST CASES)

6 HOURS TO CREATE **11** TEST CASES WITH **16%** COVERAGE

(GRID-TOOLS AUDIT AT A **LARGE FINANCIAL SERVICES COMPANY**)

UNAVAILABLE OR MISSING DATA

UP TO **50%** OF THE AVERAGE TESTER'S TIME IS SPENT WAITING FOR DATA, LOOKING FOR IT, OR CREATING IT BY HAND

(GRID-TOOLS EXPERIENCE WITH CUSTOMERS)

PRODUCTION DATA TYPICALLY PROVIDES JUST **10-20%** FUNCTIONAL TEST COVERAGE

(GRID-TOOLS AUDITS OF CUSTOMER TEST DATA AND TEST CASES)

TESTING CANNOT REACT TO CHANGE

TWO TESTERS SPENT TWO DAYS UPDATING TEST CASES AFTER A CHANGE WAS MADE TO THE REQUIREMENTS

(GRID-TOOLS AUDIT AT A **LARGE FINANCIAL SERVICES COMPANY**)

A NEW APPROACH TO TESTING

1 BUILD BETTER REQUIREMENTS

4 HOURS TO MODEL ALL BUSINESS REQUIREMENTS AS AN ACTIVE FLOWCHART AND MAKE THEM "CLEAR TO EVERYONE" [5]

2 AUTOMATICALLY GENERATE AND EXECUTE OPTIMIZED TESTS

2 BUSINESS DAYS TO GO FROM SCRATCH TO EXECUTING **137 TEST SCRIPTS** WITH **100% COVERAGE** [5]

3 THE RIGHT DATA, TO THE RIGHT PLACE, AT THE RIGHT TIME

60% IMPROVEMENT IN TEST DATA QUALITY AND EFFICIENCY WITHIN 3 MONTHS USING SYNTHETIC DATA GENERATION

(GRID-TOOLS CASE STUDY AT **A MULTINATIONAL BANK**)

4 AUTO-UPDATE TEST CASES AND DATA WHEN THE REQUIREMENTS CHANGE

5 MINUTES TO UPDATE TEST CASES AFTER A CHANGE WAS MADE TO THE REQUIREMENTS

(AUDIT AT A **LARGE FINANCIAL SERVICES COMPANY**)

CA TEST DATA MANAGER LETS YOU FIND, CREATE AND PROVISION THE DATA NEEDED FOR TESTING – AUTOMATICALLY AND FAST. TEST DATA CONSTRAINTS, WHICH ROUTINELY COMPROMISE APPLICATION QUALITY, CAN BE ELIMINATED, ACCELERATING APPLICATION DELIVERY TO MARKET, ON TIME.

ca technologies

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[1] STANDISH GROUP'S CHAOS MANIFESTO, 2014
[2] CAMBRIDGE UNIVERSITY JUDGE BUSINESS SCHOOL, 2013
[3] BENDER RBT, 2009
[4] HYDERABAD BUSINESS SCHOOL, GITAM UNIVERSITY, 2012
[5] CA A.S.R CASE STUDY, 2015