IMPLEMENTING DEVOPS
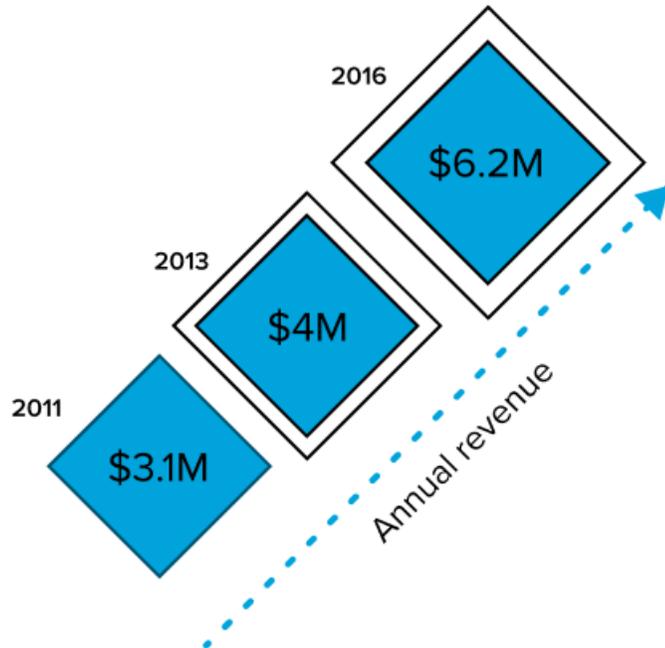
DESCRIPTION OF SERVICES

ABOUT PERFORMANCE LAB

We've been in business since 2008.
Our main activity is

SOFTWARE TESTING

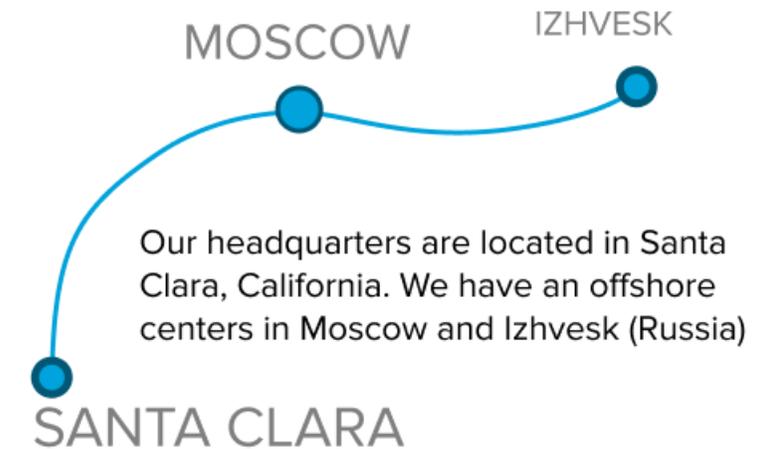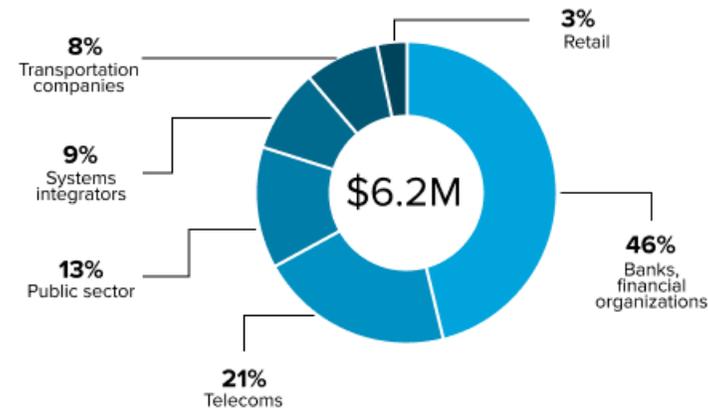We test

splunk>

solarwinds

LabLynx
...where science gets IT

2016 $6.2M

2013 $4M

2011 $3.1M

Annual revenue

In 2016 our revenue
was $6.2M

8% Transportation companies

9% Systems integrators

13% Public sector

21% Telecoms

3% Retail

46% Banks, financial organizations

$6.2M

MOSCOW

IZHVESK

SANTA CLARA

Our headquarters are located in Santa Clara, California. We have an offshore centers in Moscow and Izhvesk (Russia)

WHAT IS DEVOPS?

DevOps is an engineering methodology for creating an automated software development and maintenance pipeline. It makes it possible to ensure high quality and significantly reduce the time required to release applications.

- Reliable control over source code and development cycles;

- Build and deploy without manual steps;

- Continuous testing at early stages of development;

- Maximum automation of the development process;

- Flexible management of local and cloud resources;

- Rapid deployment of environments on various configurations of hardware and software;

- Teams that think with shared goals;

- Rapid recovery or rollback if failures occur;

HOW DOES PERFORMANCE LAB HELP ITS CUSTOMERS?

■ Creation of an IT optimization roadmap

We will help you identify the DevOps technologies and tools most suitable and valuable for your product's life cycle. We will create a roadmap for deploying the process and technologies

■ Project implementation

Performance Lab improves infrastructure and integrates the needed technologies, tools, and processes in order to achieve the smallest time to market, and increase development transparency and the quality of the product being released

■ Added value

Performance Lab deploys automated systems for quality assurance at all stages of software development and maintenance. This lets customers spend less time finding and fixing bugs, and also significantly accelerates testing the finished product

Difficulties facing our customers

Due to the "human factor", problems arise when manually installing in test and production environments

More time is spent on testing, deployment, and releases than on designing and developing the product

Development and Maintenance rarely work as a single team. They make use of different information and tools

NO MORE THAN 20% OF TEAMS DEVELOP FAST ENOUGH

Time to market

Cut Time to market by using a development pipeline

Development team productivity

Highly stable operation in action Changes are tested 100% and affect the product in a predictable way

Reduced risks
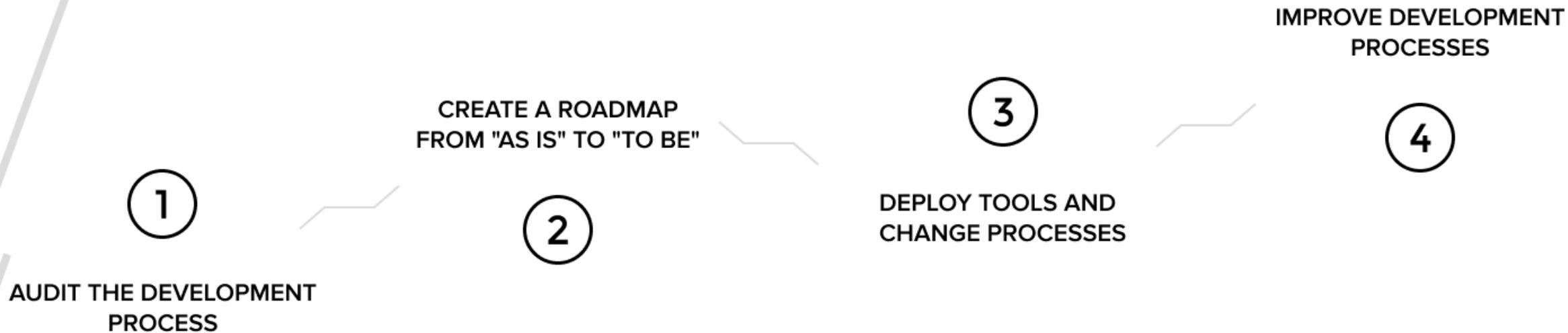
Increased team performance

Fault tolerance

Reduced costs due to automation of frequent test iterations at early stages of development

ADVANTAGES OF INTRODUCING DEVOPS PRACTICES

HOW TO DEPLOY DEVOPS PRACTICES?

IMPROVE DEVELOPMENT
PROCESSES

CREATE A ROADMAP
FROM "AS IS" TO "TO BE"

3

4

DEPLOY TOOLS AND
CHANGE PROCESSES

1

2

AUDIT THE DEVELOPMENT
PROCESS

WHY PERFORMANCE LAB?

Our customers choose us for our ability to appropriately introduce state-of-the-art approaches to software engineering and quality assurance.

Since 2013, in more than 60 software development and test automation projects, we have used an automated environment that was subsequently transformed into the DevOps platform. We have accumulated experience with rapid and transparent deployment controlled by quality metrics.

Performance Lab's DevOps platform is a development environment consisting of a set of customized and integrated tools that make for a quick start to using DevOps practices.
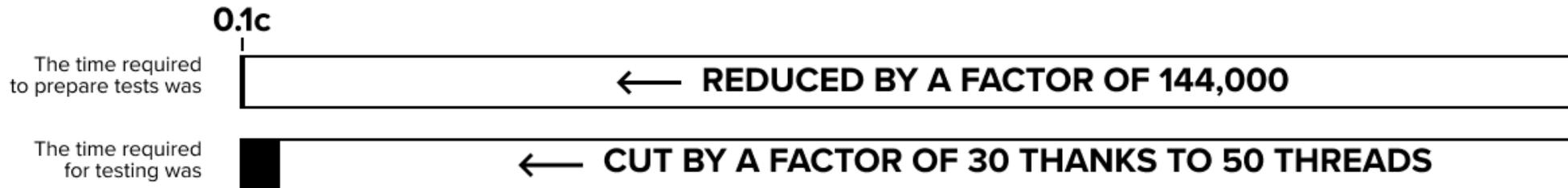
The platform allows our customers not only to shorten the time to market and significantly accelerate product launches, but also to raise development transparency and quality to a new level.
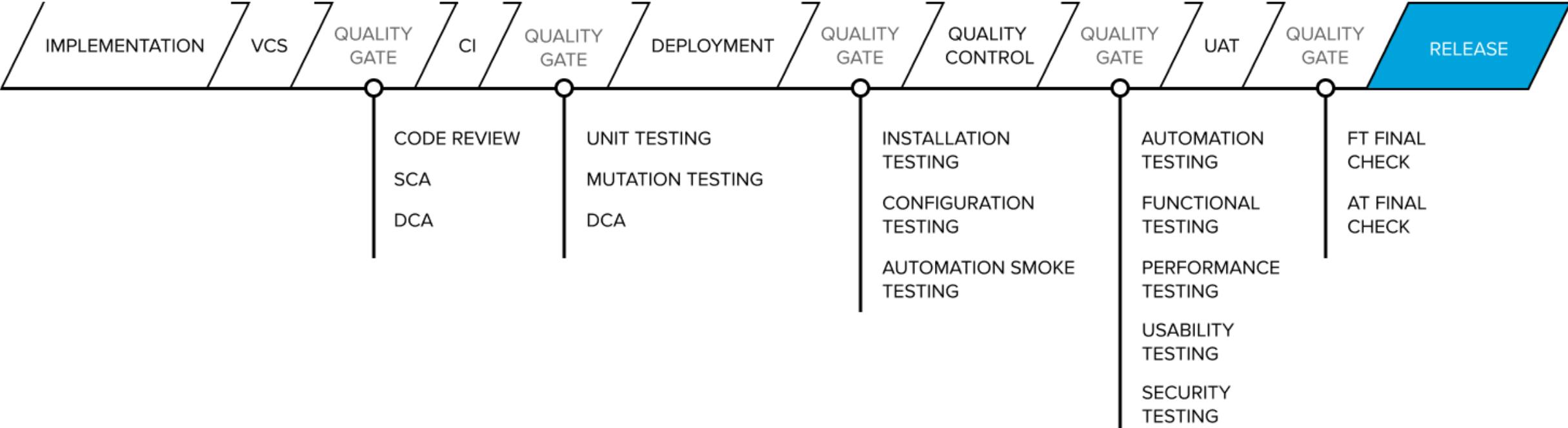
REDSYS: Use DevOps practices in test automation:

OBJECTIVE:
- Reduce the time frames required for acceptance, regression, and smoke testing;
- Simplify testing without an interface;
- Develop a test development tool;
- Create unique test data generators;
- Provide the ability for any team member to use automated tests;
- Gain the ability to rapidly deploy a test automation system on the customer's information system.

RESULT:
- A browser-based user interface was developed for running and developing tests;
- The time required to prepare test data was reduced 1000-fold, from 4 hours to 0.1 seconds;
- The time required for testing was cut by a factor of 30 by running tests on 50 threads through Docker container brokers;
- The ability to create test suites was developed;
- A Docker container was developed for deploying the test automation system in a single click.

0.1c

The time required
to prepare tests was
← **REDUCED BY A FACTOR OF 144,000**

The time required
for testing was
← **CUT BY A FACTOR OF 30 THANKS TO 50 THREADS**

PERFORMANCE LAB DEVOPS PLATFORM

**This is a cloud environment that includes a set of integrated tools for development, testing, and deployment.
It turns product development into a rapid pipeline.**

IMPLEMENTATION → VCS → QUALITY GATE → CI → QUALITY GATE → DEPLOYMENT → QUALITY GATE → QUALITY CONTROL → QUALITY GATE → UAT → QUALITY GATE → RELEASE

QUALITY GATE
- CODE REVIEW
- SCA
- DCA

QUALITY GATE
- UNIT TESTING
- MUTATION TESTING
- DCA

QUALITY GATE
- INSTALLATION TESTING
- CONFIGURATION TESTING
- AUTOMATION SMOKE TESTING

QUALITY GATE
- AUTOMATION TESTING
- FUNCTIONAL TESTING
- PERFORMANCE TESTING
- USABILITY TESTING
- SECURITY TESTING

QUALITY GATE
- FT FINAL CHECK
- AT FINAL CHECK

OUR OFFERING

- DevOps engineers based on Time & Materials

- Introduction of Continuous Integration

- Acceleration of Continuous Delivery

- Improved quality through Continuous Testing

- Cloud-based DevOps platform

CONTACTS

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