

A traditional Japanese wooden arched bridge spans a pond in a lush garden. The bridge has a curved railing and is supported by wooden posts. The garden is filled with green trees and plants, and there are large rocks in the foreground. The scene is peaceful and scenic.

A 200-Year-Old Company Inside Out

or how we implemented security into software development

YOUNIQX

OSD



OESTERREICHISCHE STAATSDRUCKEREI

200 years ago ...



1873



D

den elfden FEBRU

Negentienhonderd drie-en

is deze BOKKORDE met bijbehoorend Amemb

D

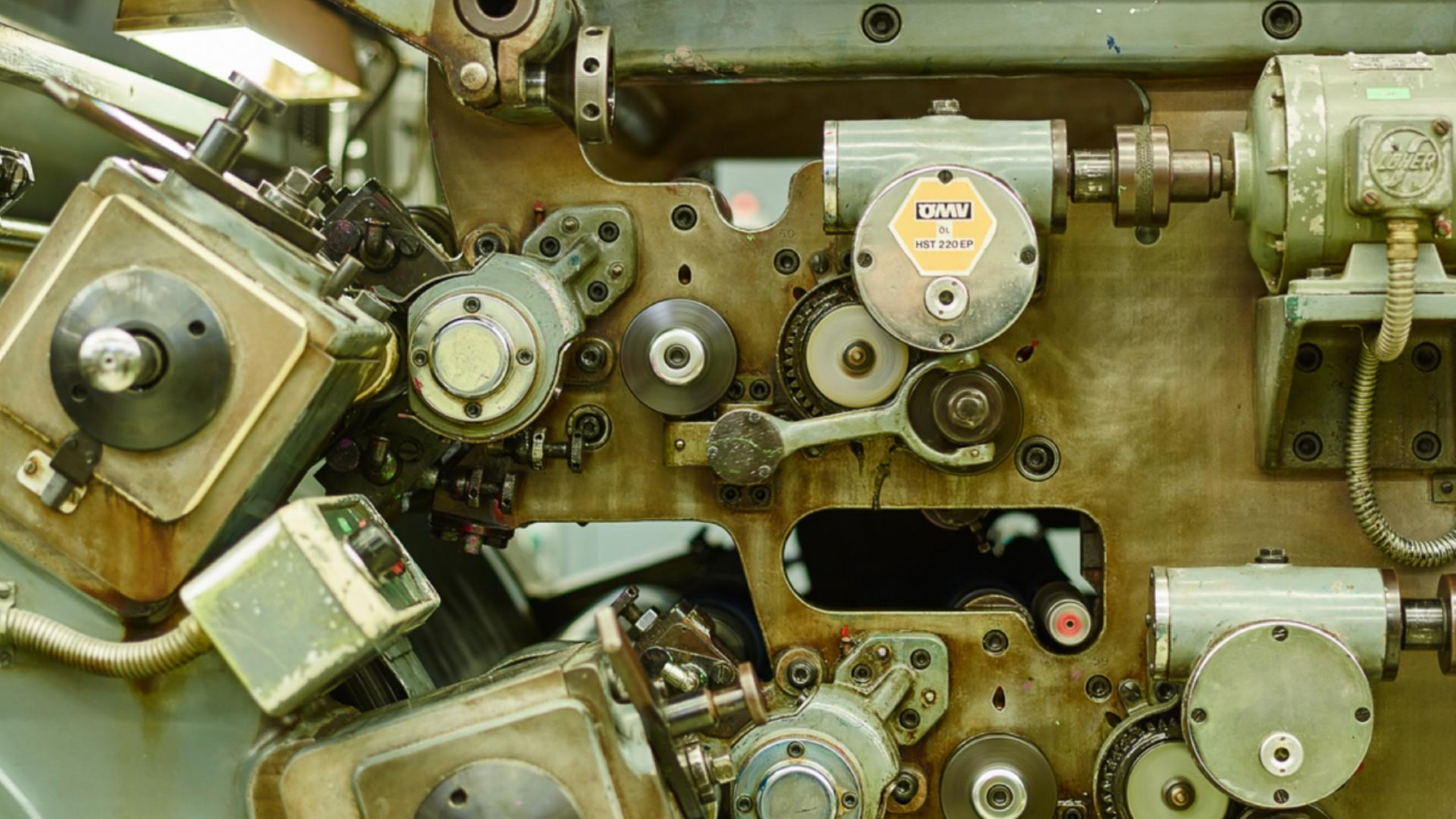


REISEPASS
EUROPÄISCHE UNION
REPUBLIK ÖSTERREICH



REISEPASS
EUROPÄISCHE UNION
REPUBLIK ÖSTERREICH





DMV

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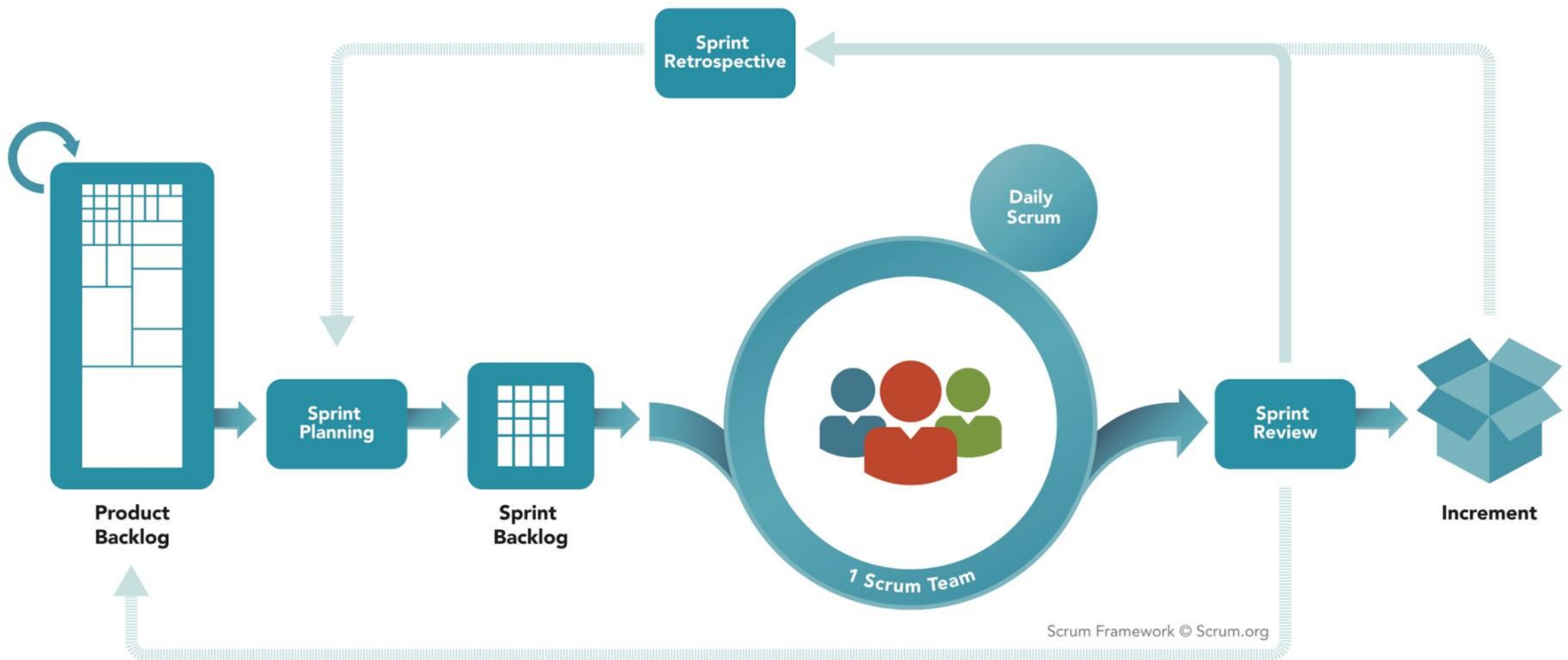




Waterfall Problems



- **Not Adopting to Change**
Once a plan is made, the waterfall follows that plan no matter what.
- **No Feedback from Downstream Stages**
The implementation phase does not get any feedback from the testing phase
- **Testing Only at the End**
The testing phase is one of the last phases. So the whole system is most probably built on a pile of bugs



Scrum Problems



- **Mini Waterfall Sprint**
- **Sprint Lengths are Arbitrary**
- **Operations is not Calculated for**



Kanban

Why Kanban?



- **Open**
- **No Arbitrary Sprints**
- **Operations Built-In**

CONTINUOUS DEPLOYMENT
PIPELINE MONITORING DELIVER
PRODUCTION TOOLS VISUALIZATION
DEVELOPMENT TALK OPERATIONS
BUILD PEOPLE BUILD FAST FEEDBACK
SHIFT LEFT DEVOPS KANBAN PROCESSES
INFORMATION CULTURE HELP DEPLOY
AUTOMATION CHATOPS SELF SERVICE PROJECT
PERFORMANCE CONTINUOUS INTEGRATION



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LONG PLAIN

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The Three Ways

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graph LR; A[System Thinking] --> B[Fast Feedback]; B --> C[Continuous Improvement];
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System
Thinking

Fast
Feedback

Continuous
Improvement

The image features a dark, moody background with a heavy metal chain and a padlock. The chain is made of large, interlocking links and is attached to a padlock that has the word "COMMERCIAL" embossed on it. The background consists of dark, textured panels, possibly metal, with some faint, embossed patterns. A semi-transparent white rectangular box is centered horizontally across the middle of the image, containing the word "Security?" in a bold, black, sans-serif font.

Security?

Biggest **DATA BREACHES** of the 21st century

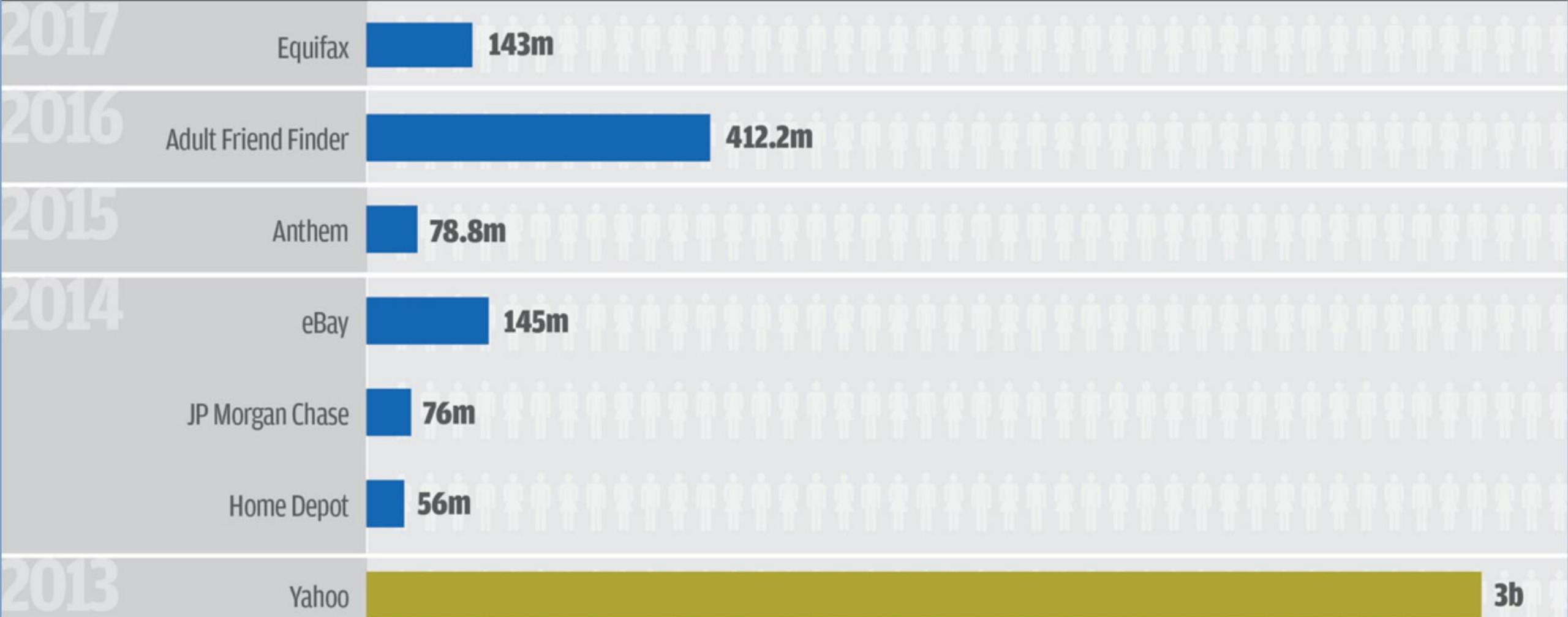
Accounts
Compromised



by the millions



by the billions



The background is a dark, textured surface, possibly a metal door or wall, with a heavy metal chain and padlock. The chain is made of thick, dark links and is attached to a large, ornate metal padlock. The padlock has the word "COMMERCIAL" visible on its side. The overall tone is dark and industrial, suggesting a focus on security and protection.

We Need More Security!

100

Dev

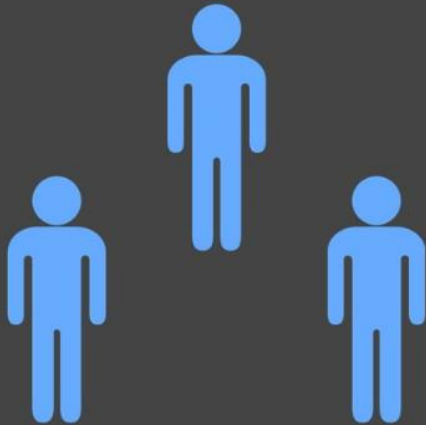
10

Ops

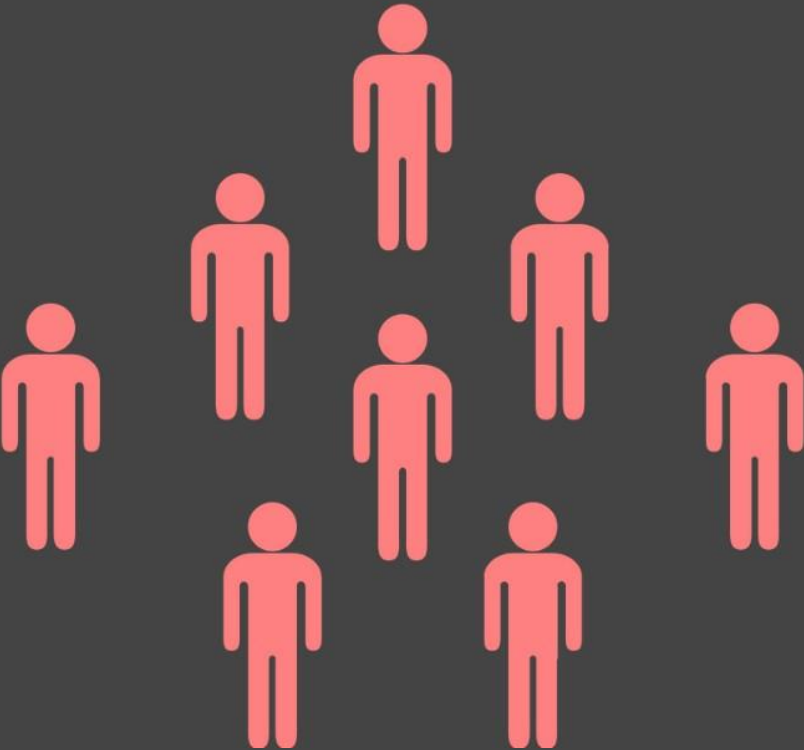
1

Sec

Security Team



Development Team



A man with dark hair, wearing a dark green or black jacket, is shown in a medium shot. He is holding a black mobile phone to his left ear with his left hand and a black handgun in his right hand, pointing it towards the camera. The background is a dark, industrial-looking interior with a blue-grey wall and a vertical orange textured panel on the right. The lighting is dramatic, highlighting his face and the gun.

I WILL FIND YOUR BUGS

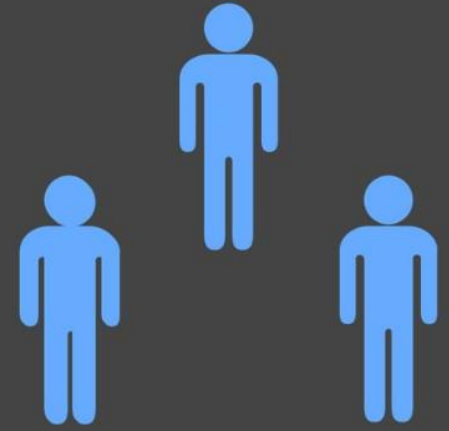
AND KILL THEM ALL

IT'S NOT A BUG

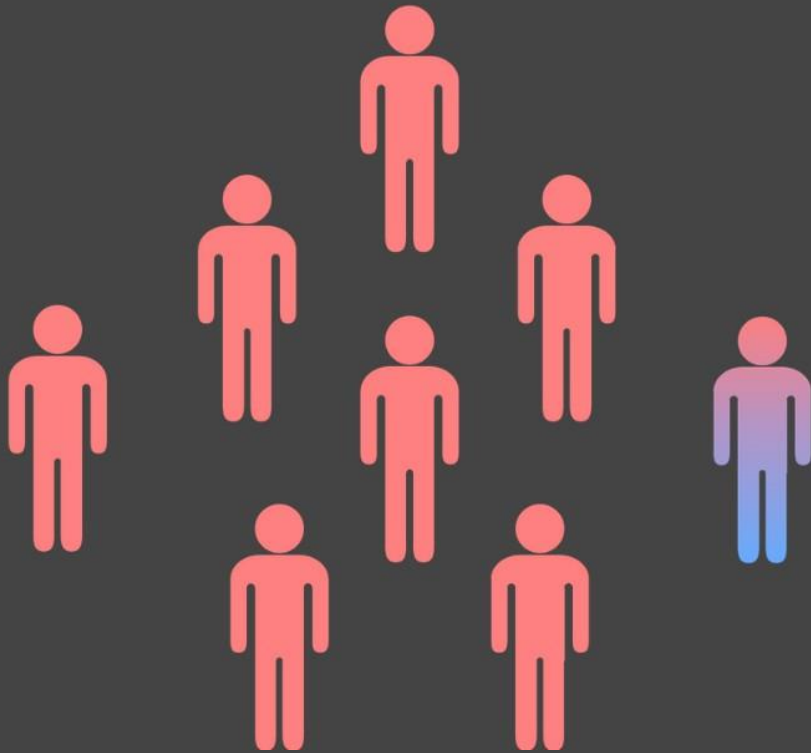


IT'S A FEATURE

Security Team



Development Team





DevSecOps

A close-up, high-angle photograph of a complex mechanical engine, likely a motorcycle or small car engine. The image shows various metal components, including a chain drive on the left, a timing belt, and various pipes and valves. The lighting is dramatic, with strong highlights and deep shadows, creating a sense of depth and texture. A semi-transparent white rectangular box is centered over the image, containing the text "Automate the Shit out of It" in a bold, black, sans-serif font.

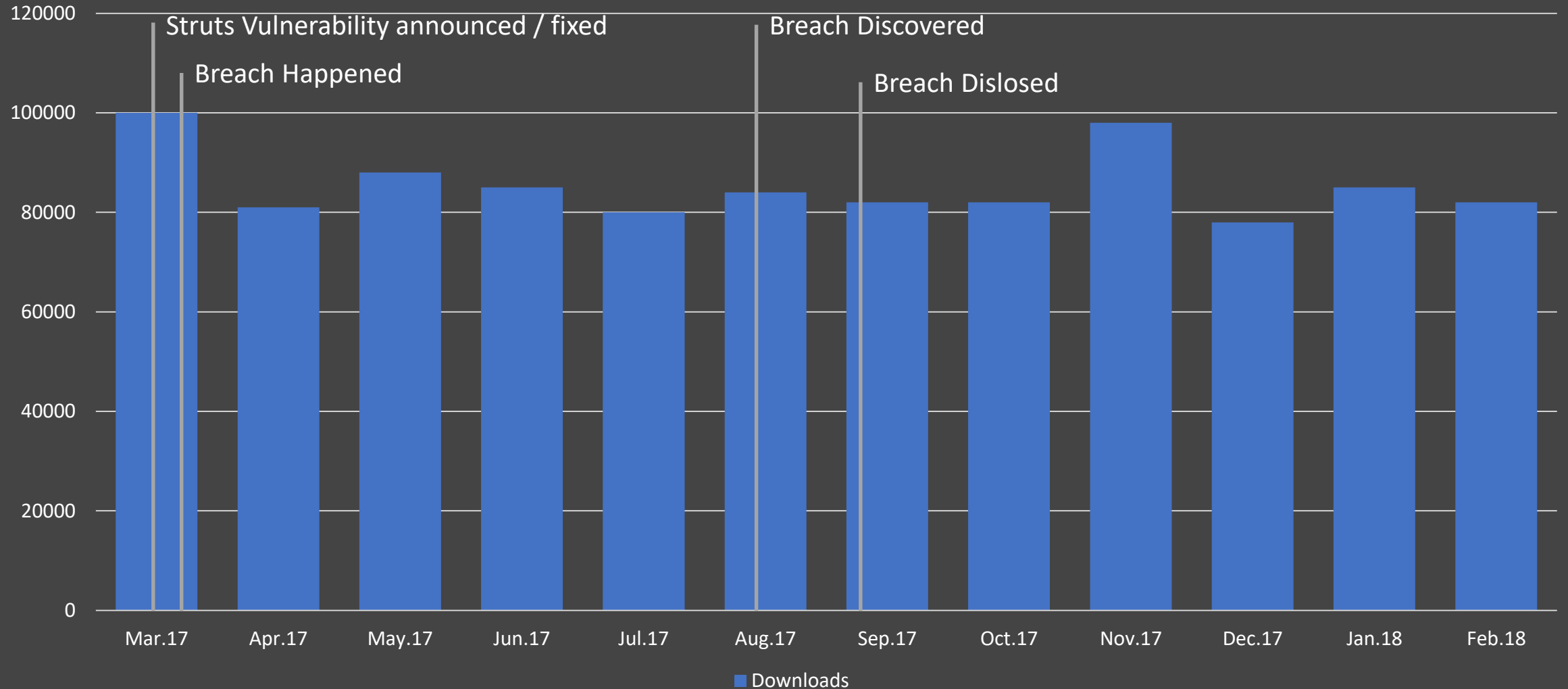
Automate the Shit out of It

The Equifax Breach



STRUTS

Downloads of Vulnerable Struts Versions



“Emphasize performance of the entire system and never pass a defect downstream.” (Gene Kim)

Lots of Tools



OWASP
Dependency Check



Sonatype
Nexus Pro



Jfrog Xray

A photograph of a long pipeline stretching across a snowy, hazy landscape. The pipeline is supported by a series of dark brown metal pillars. The ground is covered in a thick layer of snow, and the sky is a pale, overcast blue. A semi-transparent white rectangular box is overlaid in the center of the image, containing the text "Integrate into Your Build Pipeline" in a bold, black, sans-serif font.

Integrate into Your Build Pipeline

PLUS

Visualize

10:51:53
10 Feb 2009 Tue



Break the Build



How to Change?



How to Change?

- **Get Management on Board**
- **Bottom Up**
- **Small Steps**
- **Review Changes**
- **Don't be afraid of Failure**

YOUNIQX

Thank

You