

Automated Governance Changed What We Believe In



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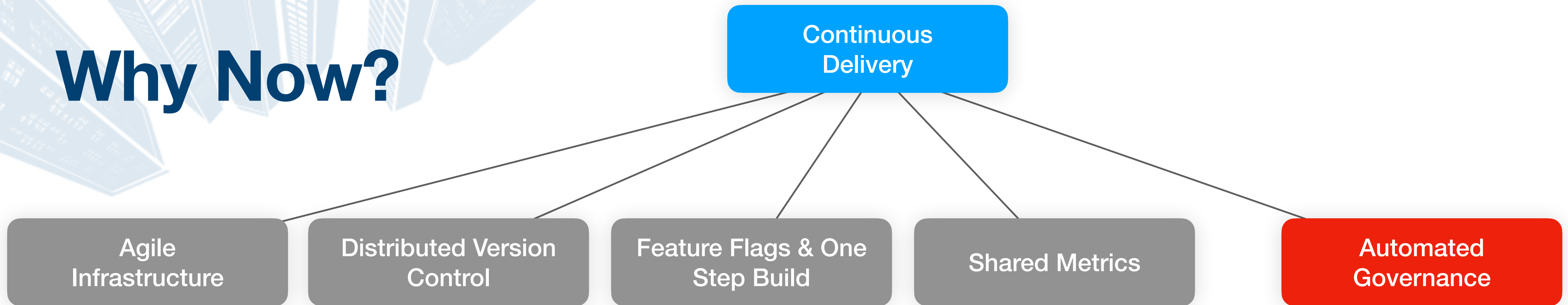


Disclaimer

Law of Two Feet **w/ Words and Things**

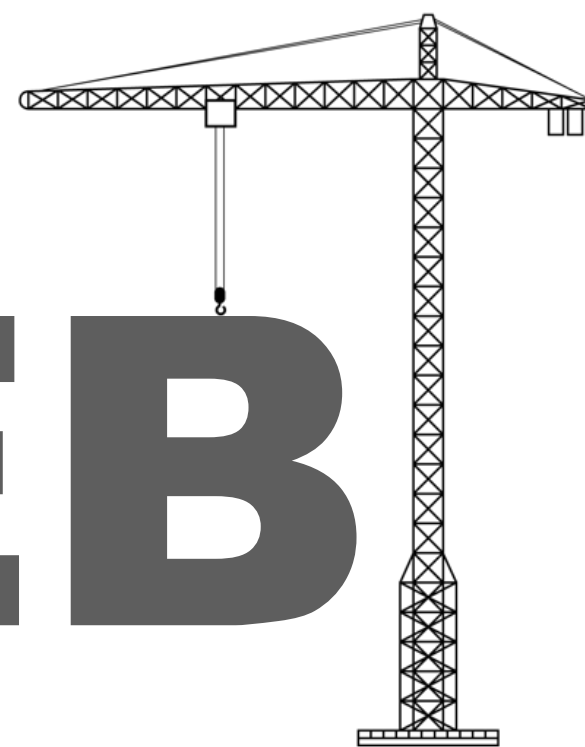
- If people find themselves in situations where they are neither learning anything nor contributing, they are responsible for moving to another place using their two feet.
- Ask “Is this meeting about **words** or **things**?” If its words make sure you consider the law.
- Ideally meetings should end with “**Lets go do the things!**”

Why Now?



BUILDING the BIG

WEB



NETFLIX

aws

Etsy

Google



Regulated Industries

Remove Traditional Thinking of “Dev’s job to add new features and Ops’s job to keep the site stable and fast” - John Allspaw & Paul Hammond

Lower Risk of Change

*“Lowering Risk of Change thru Tools & Culture”
- Also by John Allspaw & Paul Hammond*

We Do This Already

Developers Have The Tools and We Have The Processes



Secure Coding Standards



Pipeline Integration



Change Record Creation

My tool has:

- **Banking industry knowledge and competence sufficient to respond appropriately to the risks of material misstatement in the company's systems**
- **Meet any additional regulatory requirements that may be part of an audit**
- **Magic abilities to adopt to companies policies and procedures**
- **An ability to make toast**



**If You Build It
They Will Come**



Vision

A Super Highway



Automated Governance Reference Architecture

IT Revolution, 2019



- Defined Stages of Metadata and Asset Collection
- Reference of Controls Required
- Fine Grained Access Controls for Metadata
- Implementation Reference Architectures



Our Beliefs





Belief #1

Developer Autonomy



Belief #2

Carrots Instead of Sticks



Belief #3

No Downward Pressure



Strategy

A simple, shared language.



PASS



WARN (PASS)

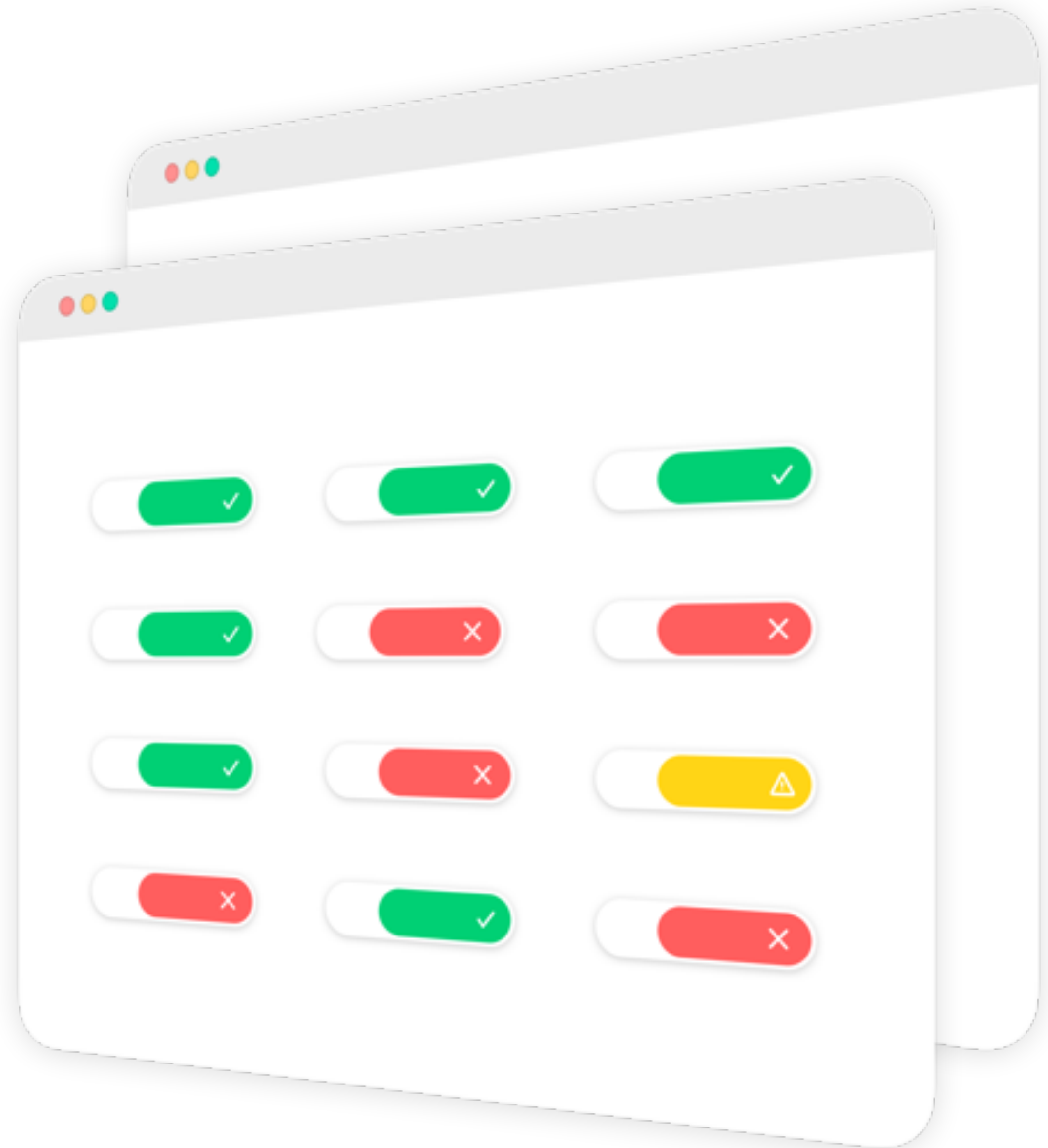


FAIL



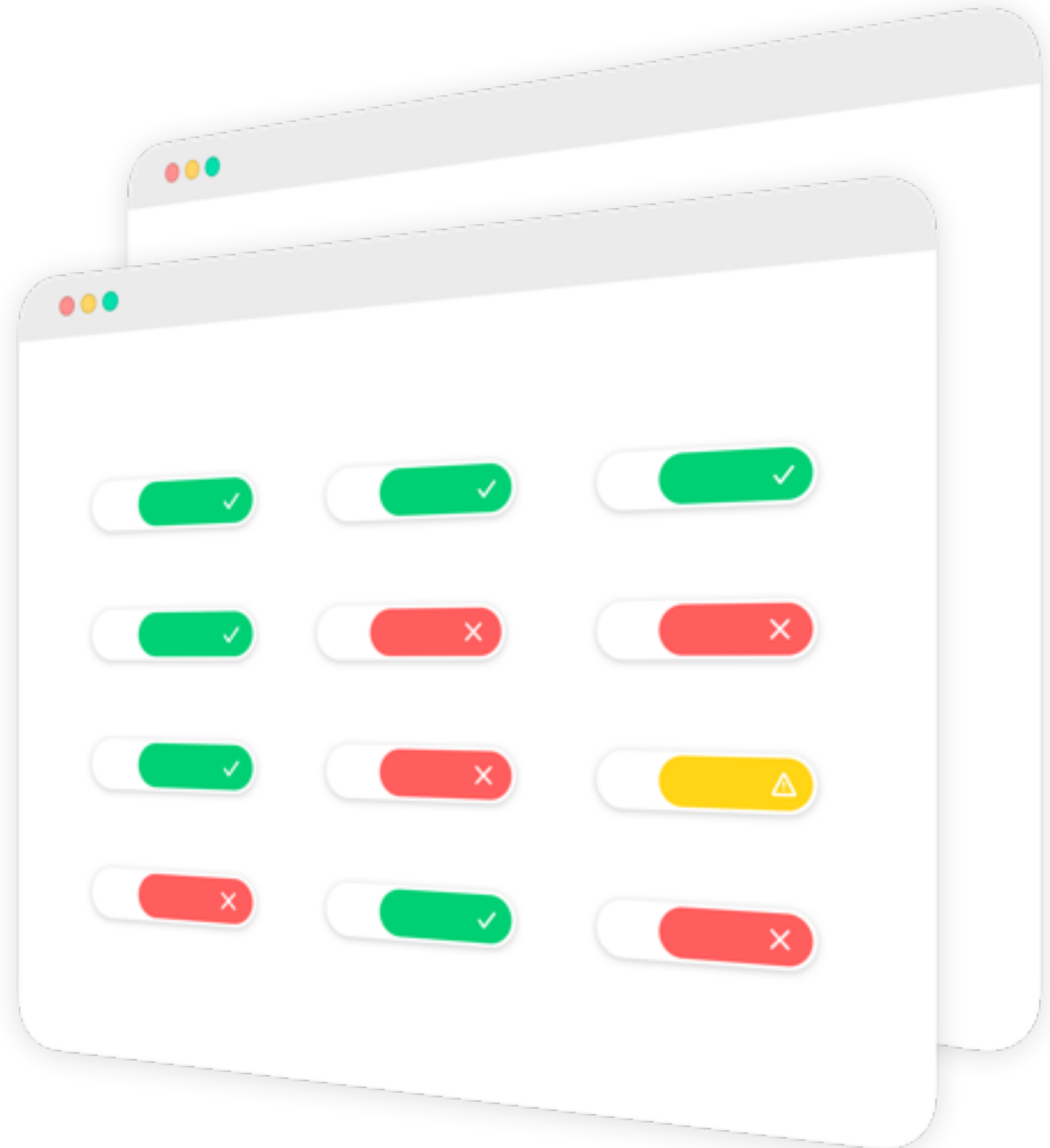
NOT FOUND (FAIL)

We Built It



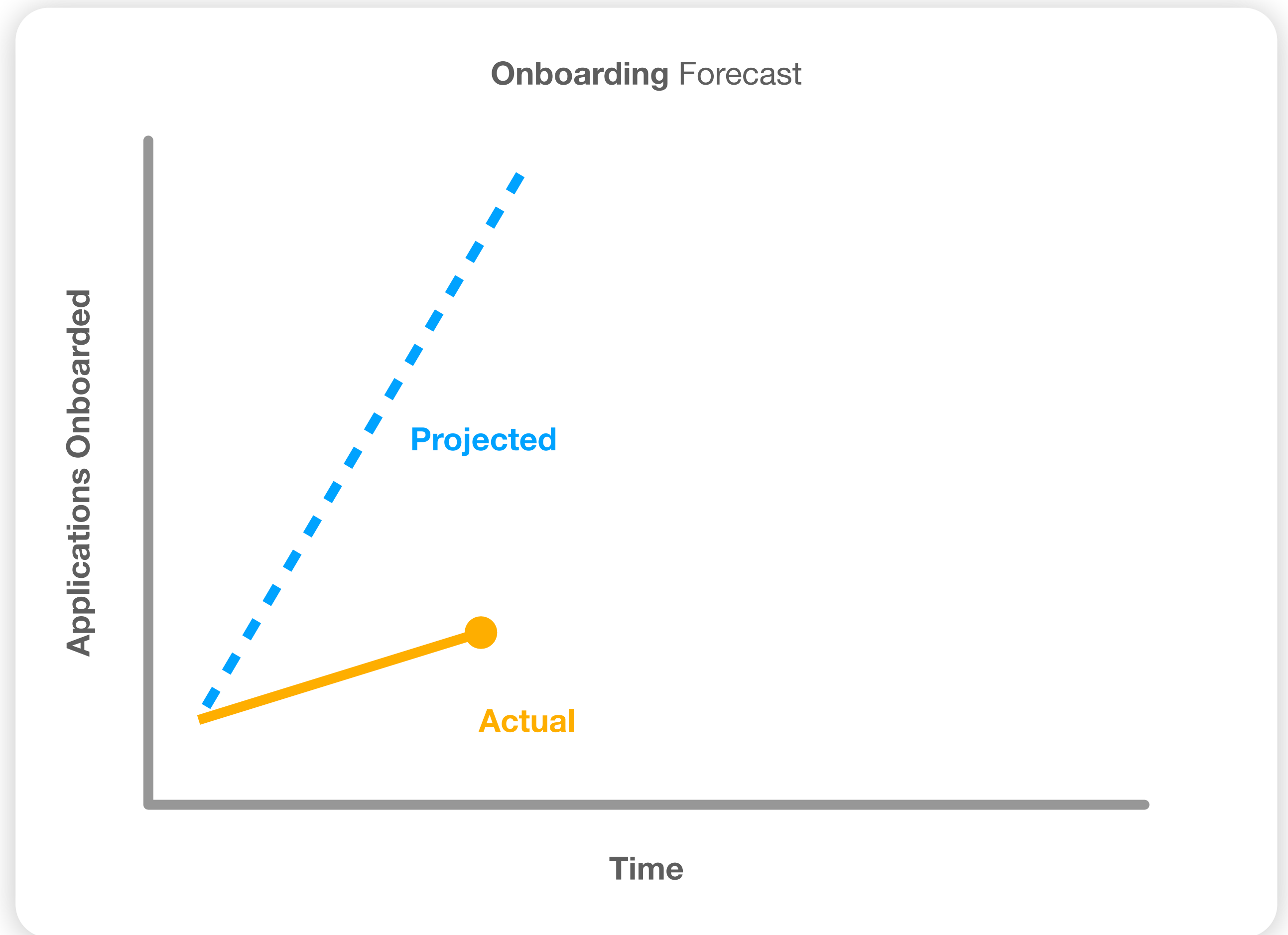
We Built It

But they didn't come...



Onboarding Failed

You can't onboard what you can't see.



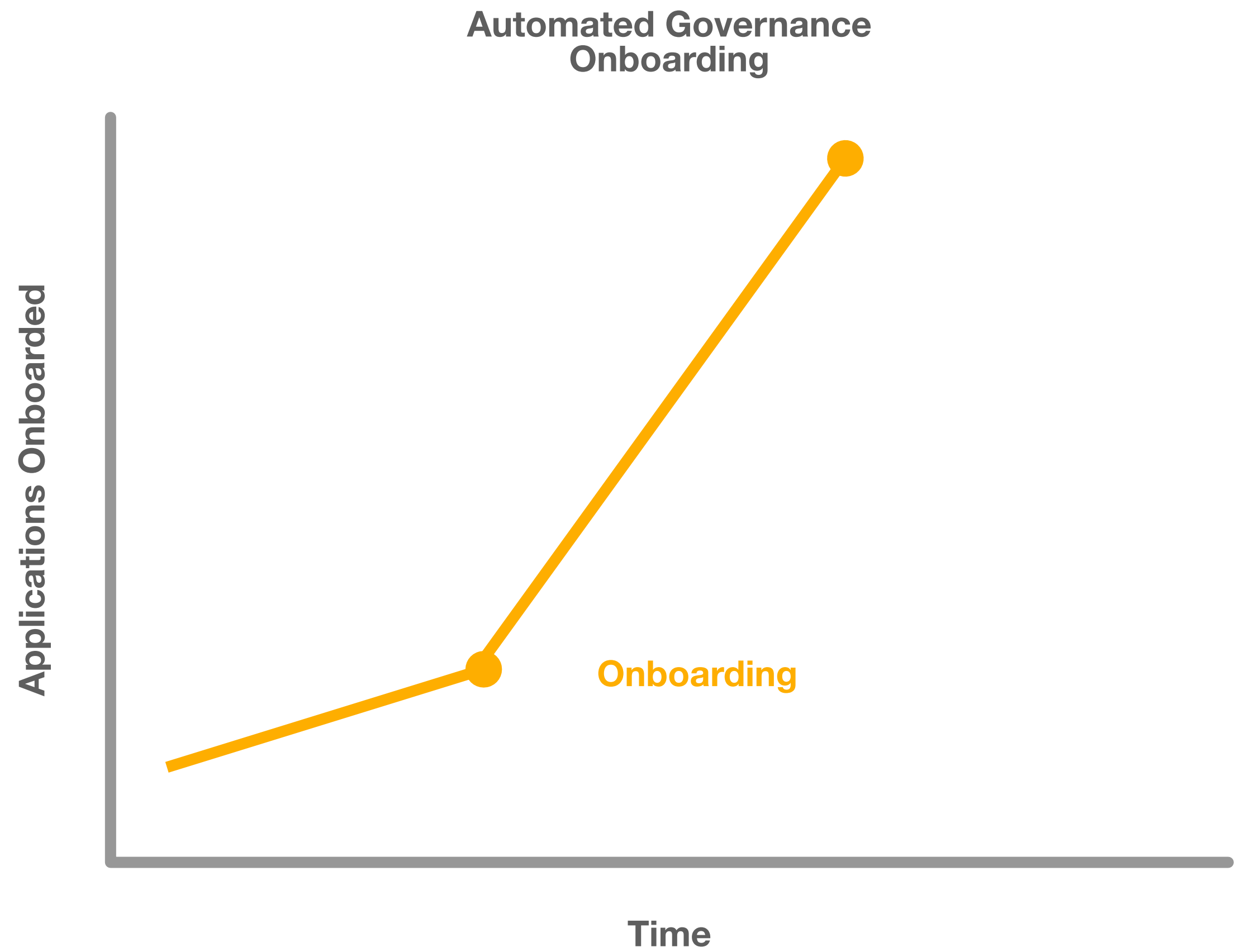
Choice #1

Autonomy or Standardization



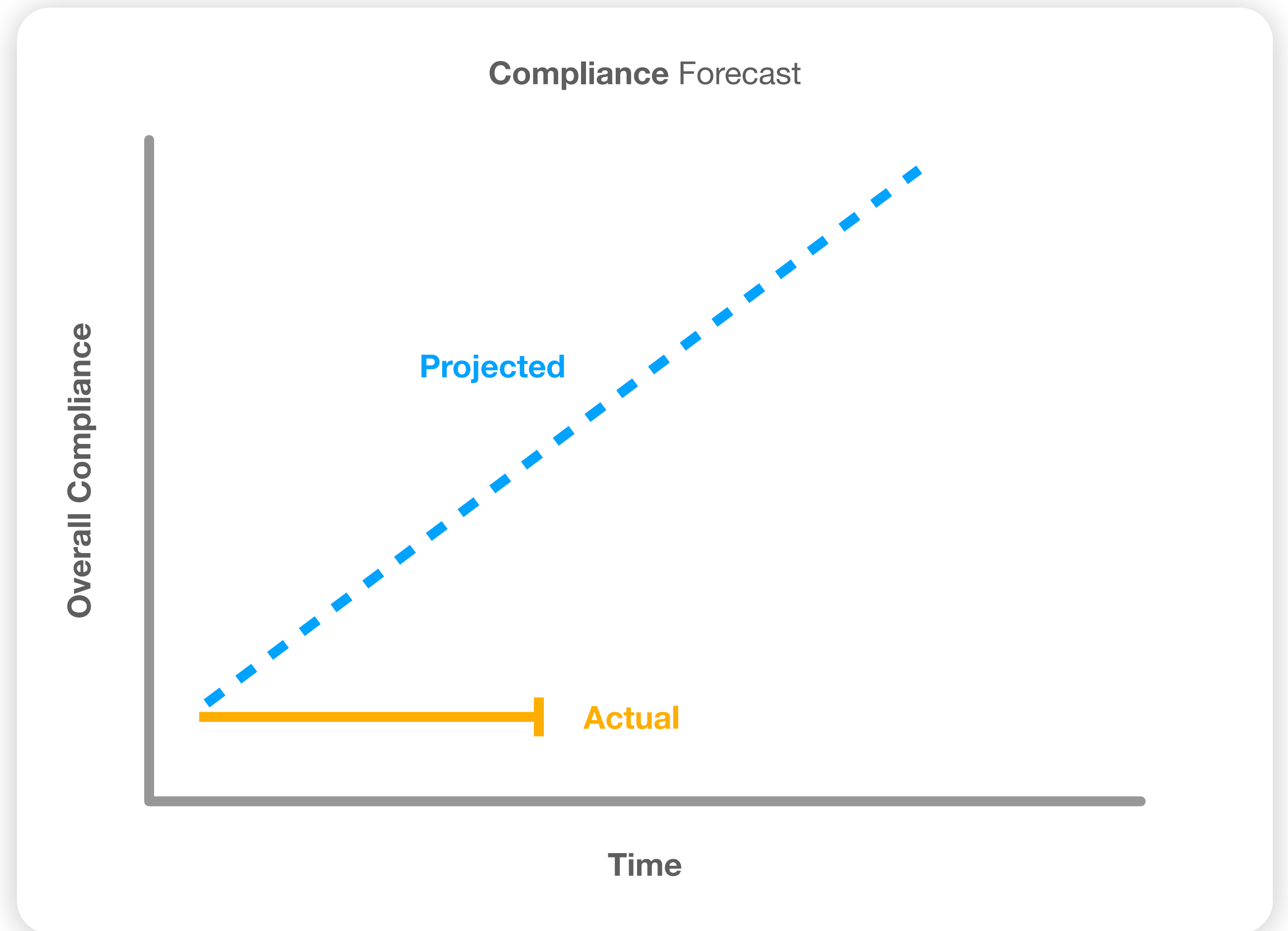
We Standardized

And onboarding took off



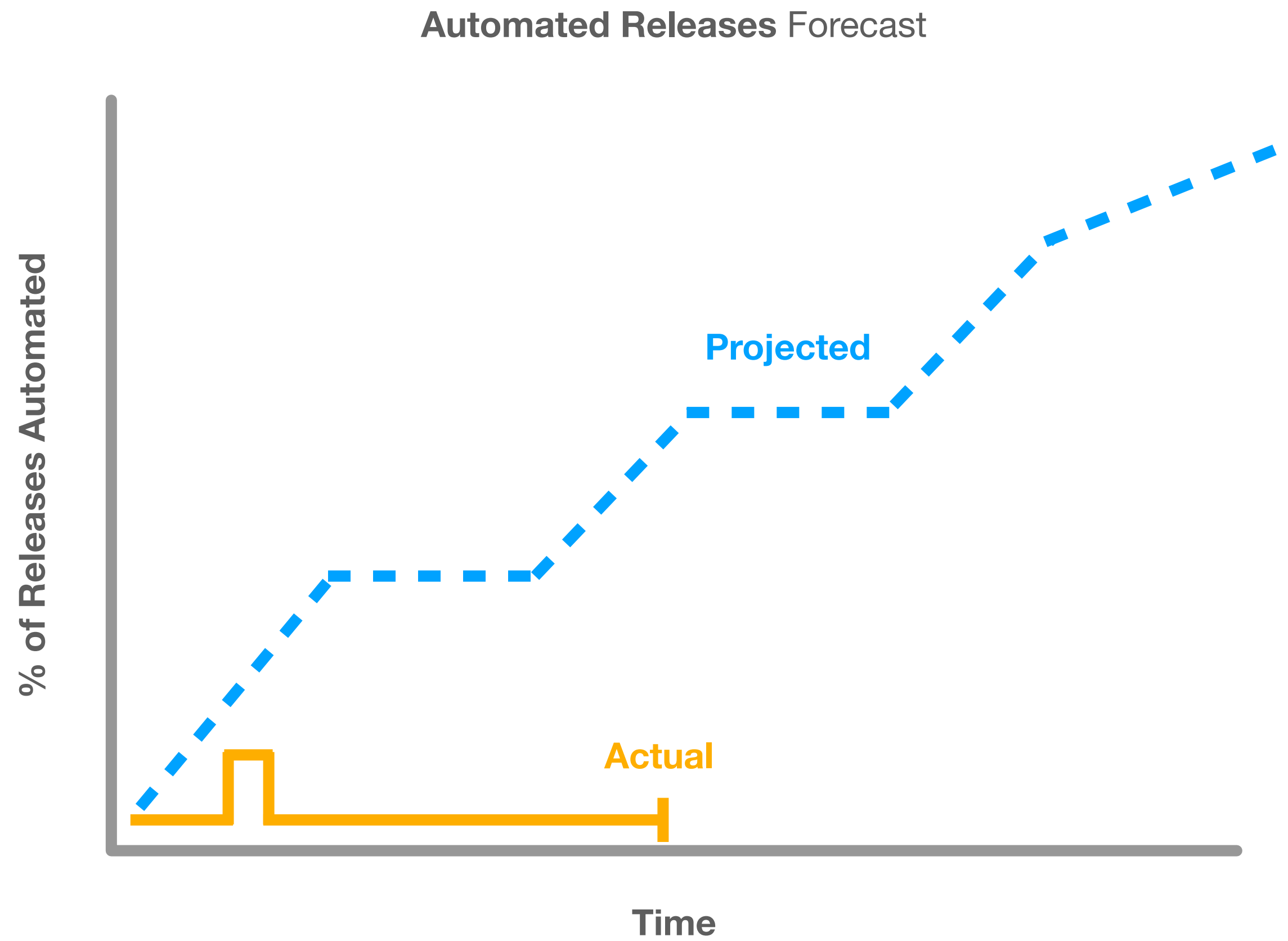
Then We Fell Flat

Compliance didn't improve.



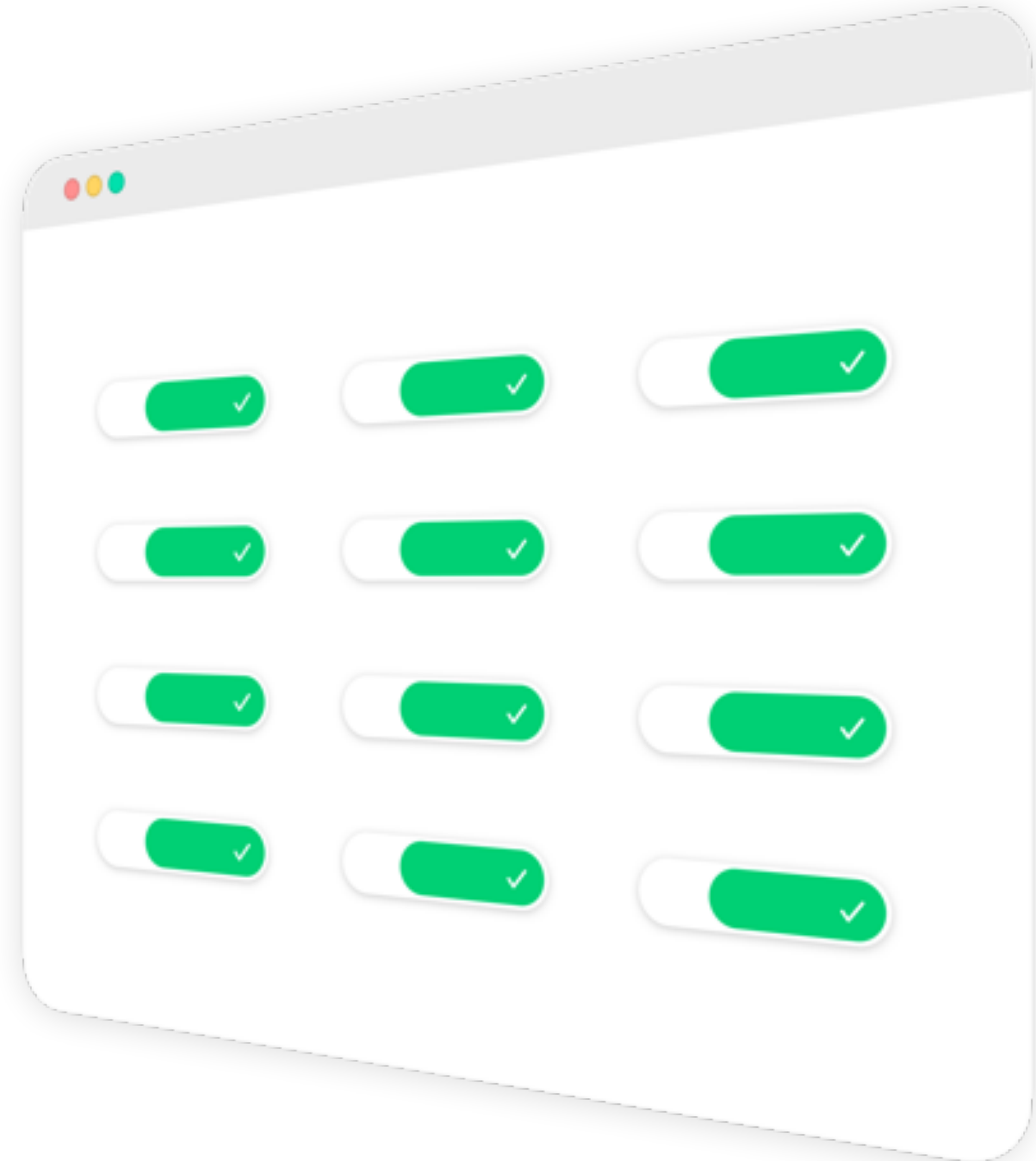
Then We Fell Flat

Automated releases flatlined.



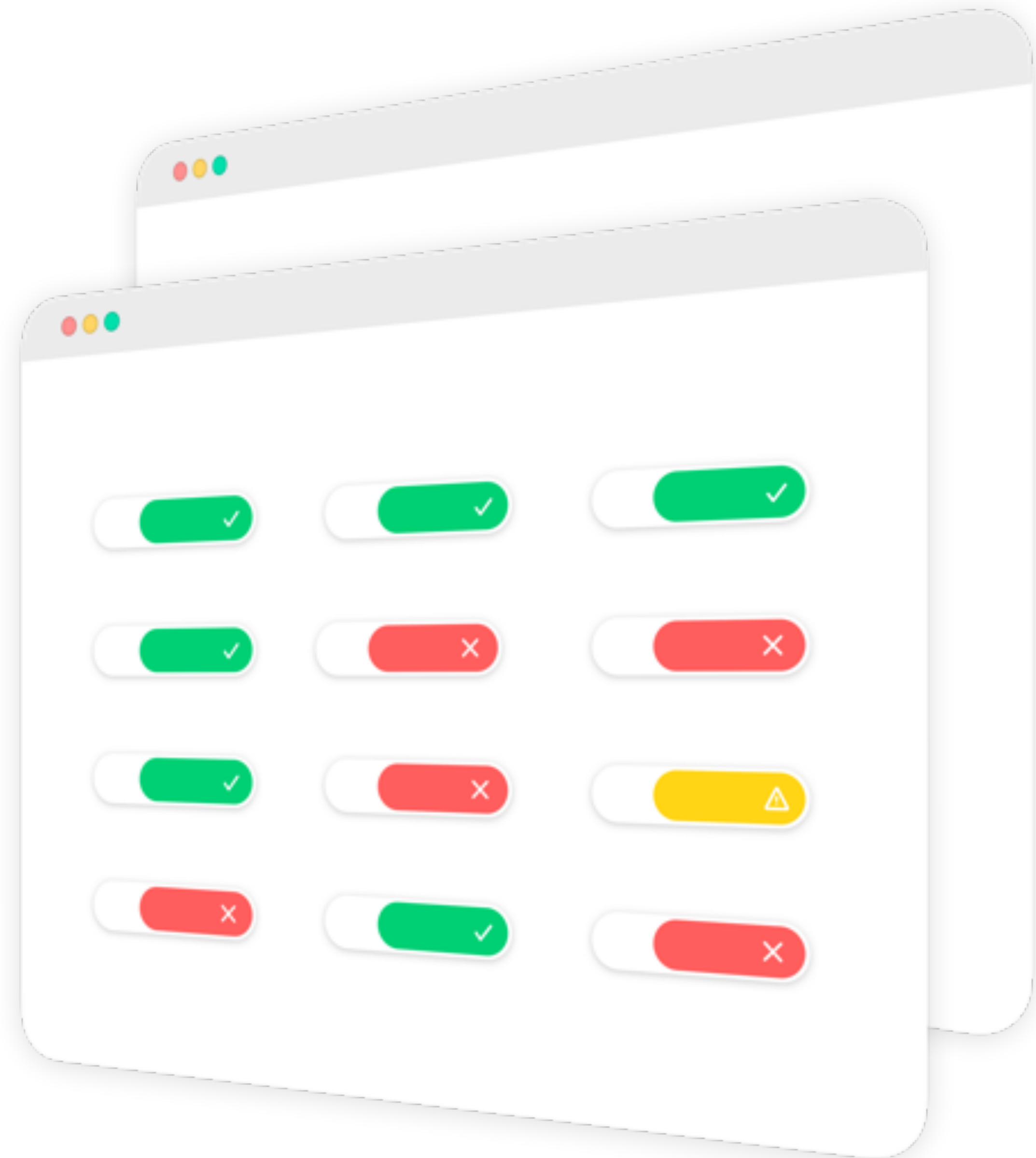
What We Sold

A superhighway, driven by compliance.



What They Saw

The reality of application compliance.



Teaching to Fish

Developers must be responsible for the compliance of their applications.



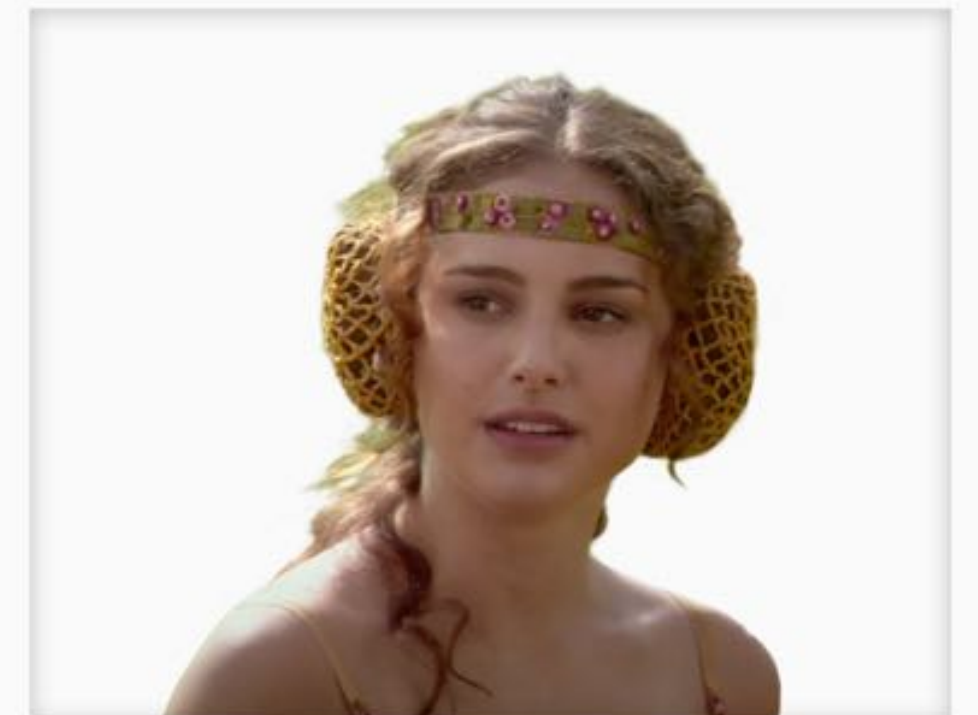
Your compliance badges
are over here.



Great! Let me know when
they're all green.



?

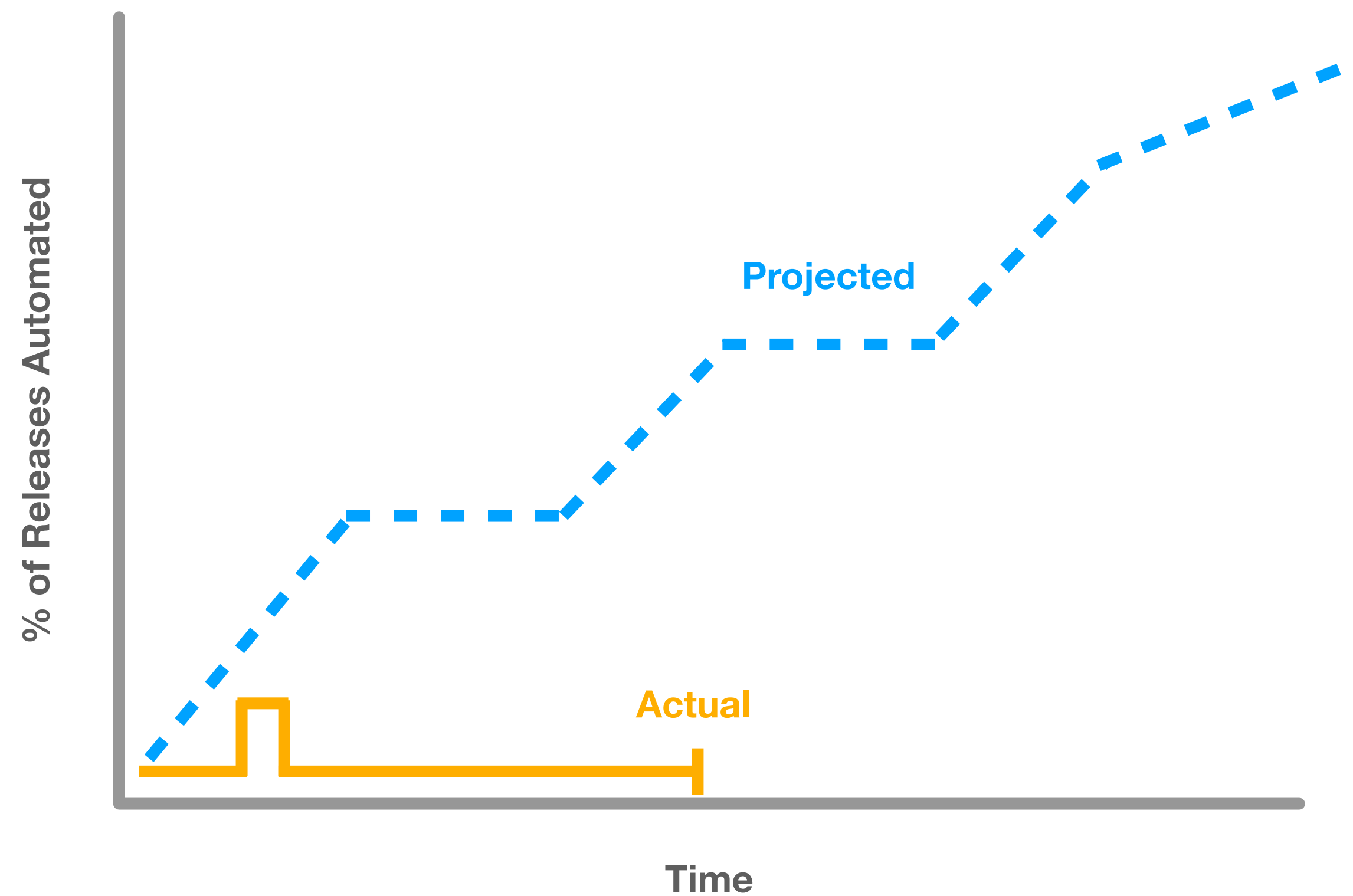


You're going to make them
green for me, right?

Our First Carrot Didn't Work

We had to try something different.

Automated Releases Forecast

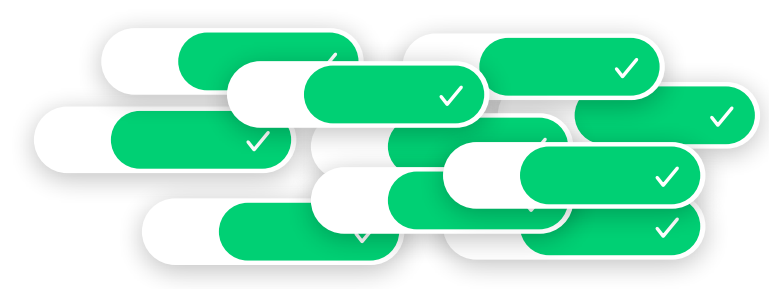


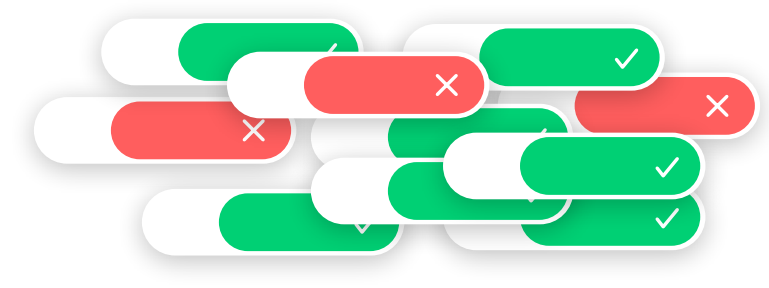


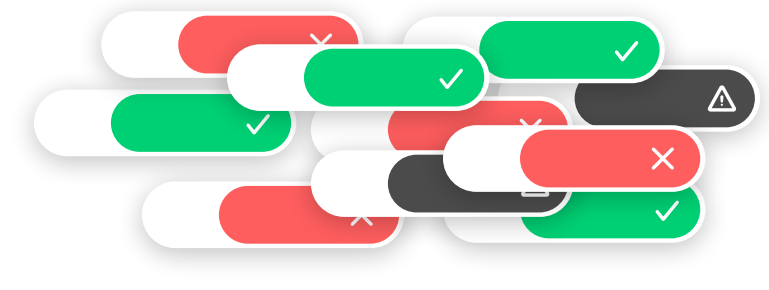
The Scorecard



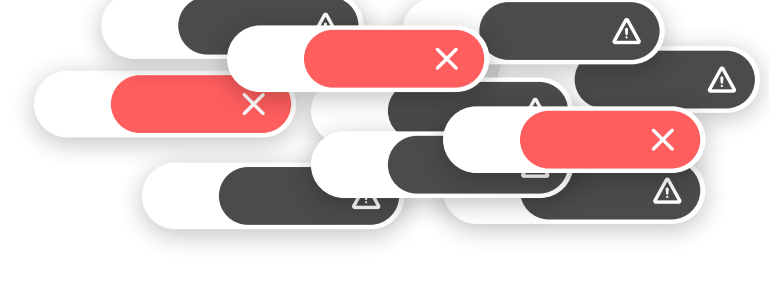
The Scorecard

 = **A**

 = **B**

 = **C**

 = **D**

 = **F**



Choice #2

What should our data be used for?



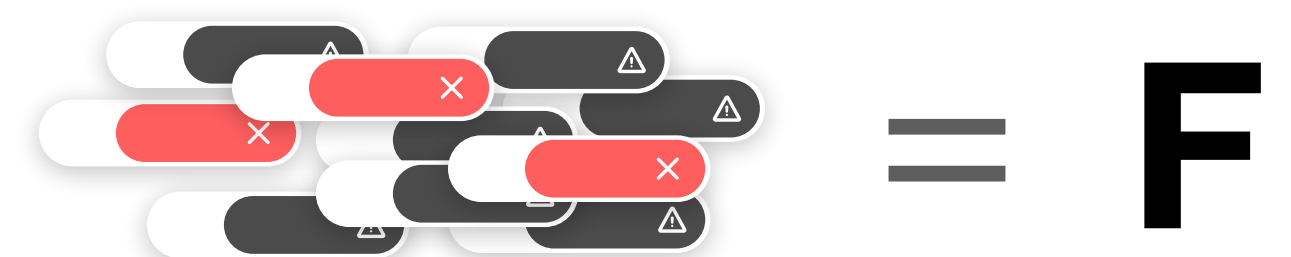
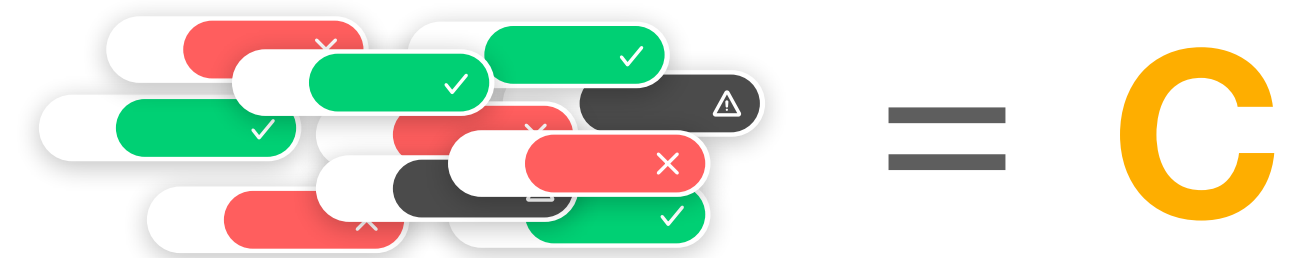
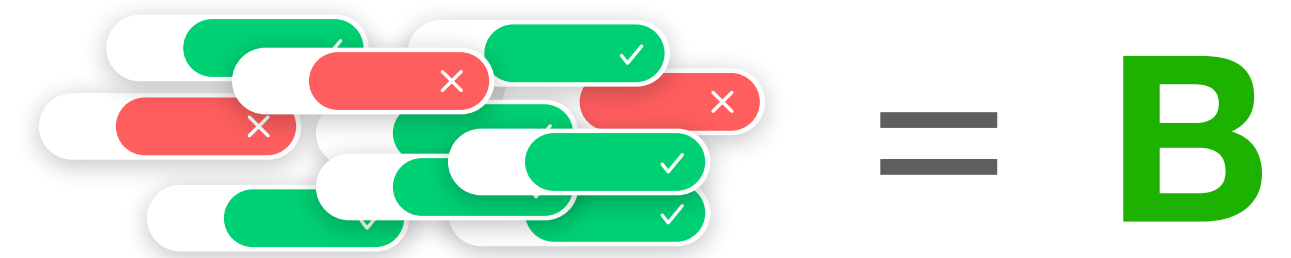
**DON'T TALK TO ME UNTIL
YOUR SCORES ARE HIGHER**



**I GOTCHA RIGHT
WHERE I WANT YOU**

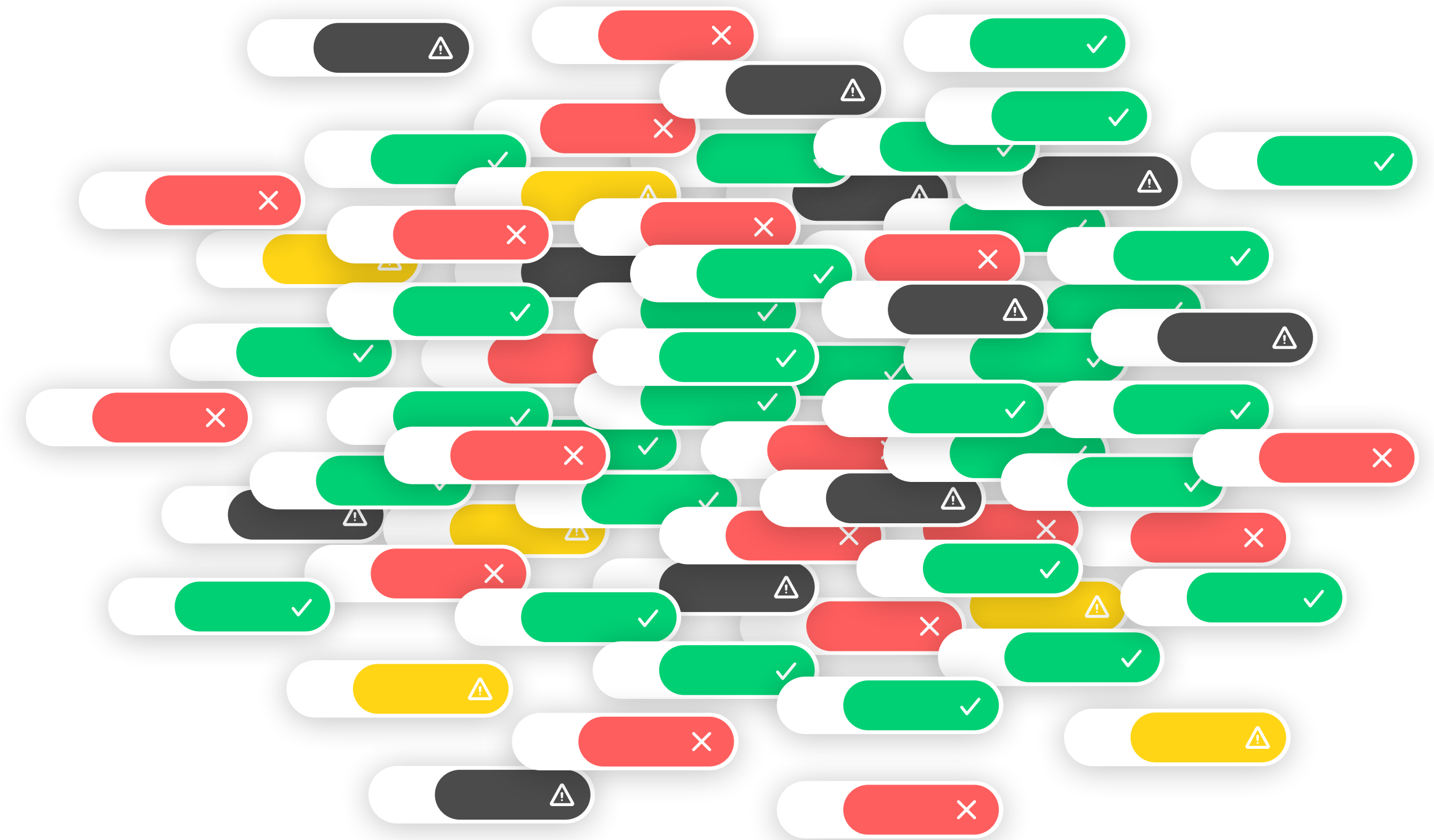
Abstraction

Provides directionally accurate insights, but insufficient detail for automated governance.



Details

With great power comes great responsibility.

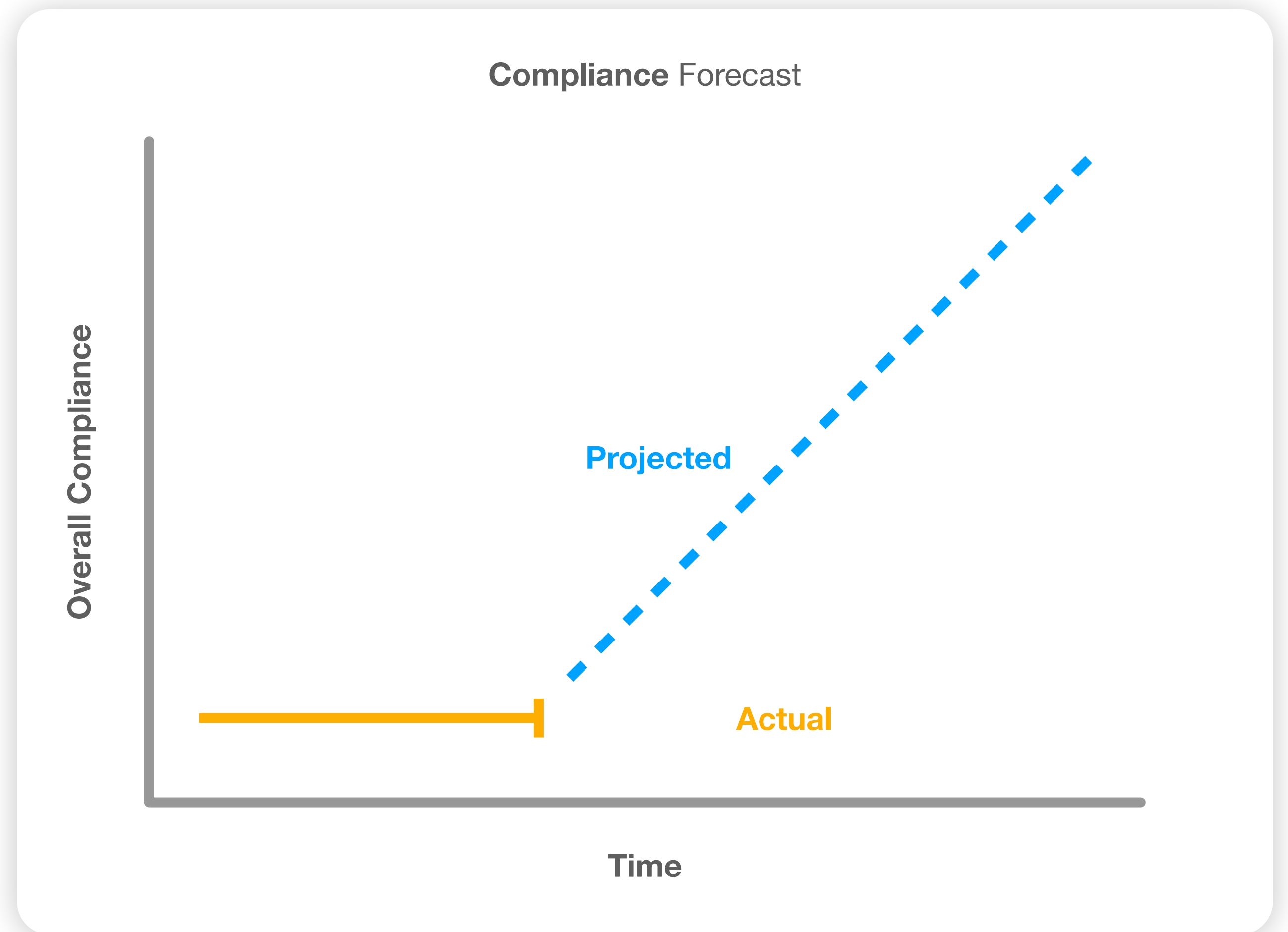


Details

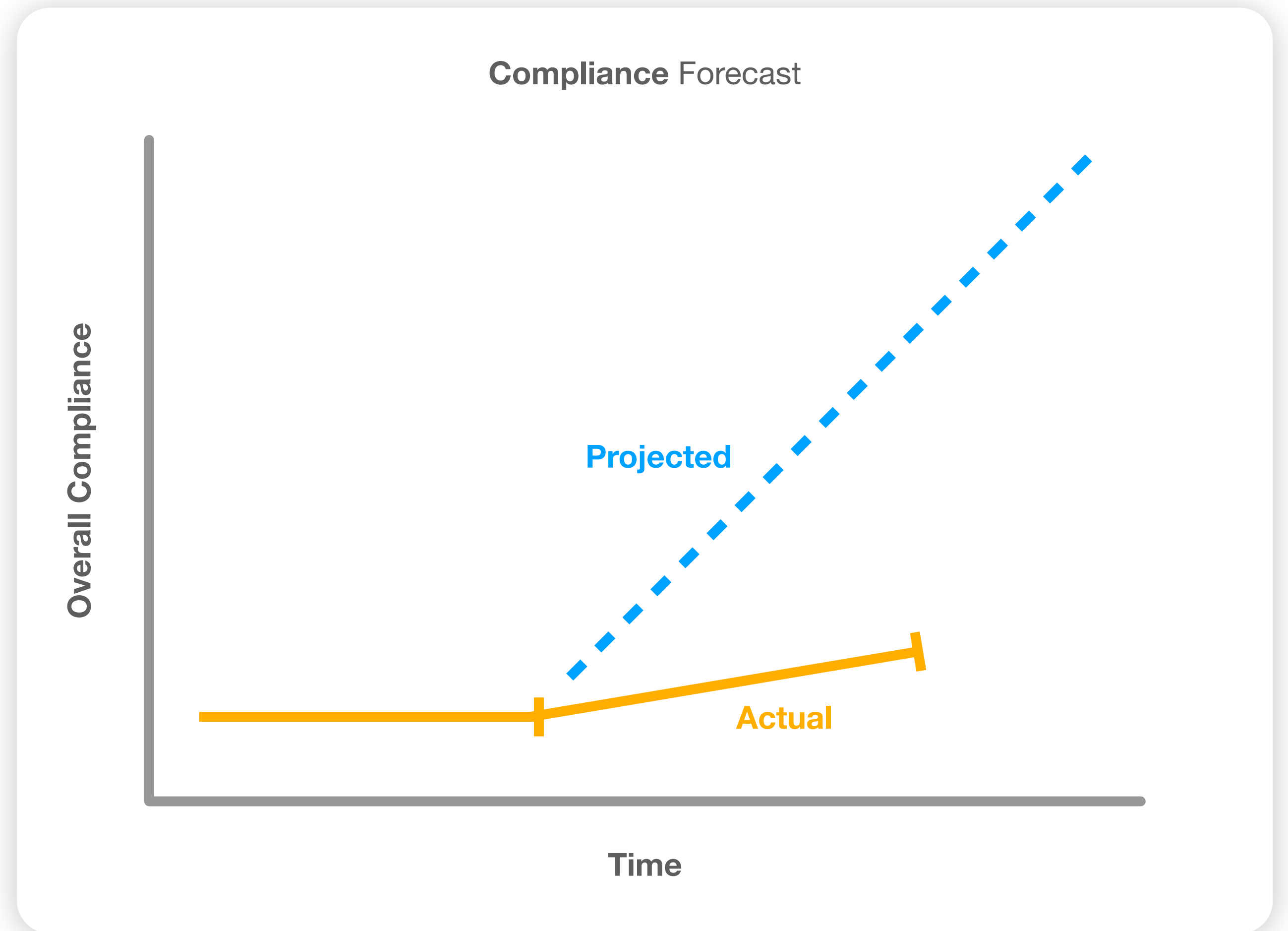
With great power comes great responsibility.



The Scorecard



The Scorecard Didn't Make a Difference





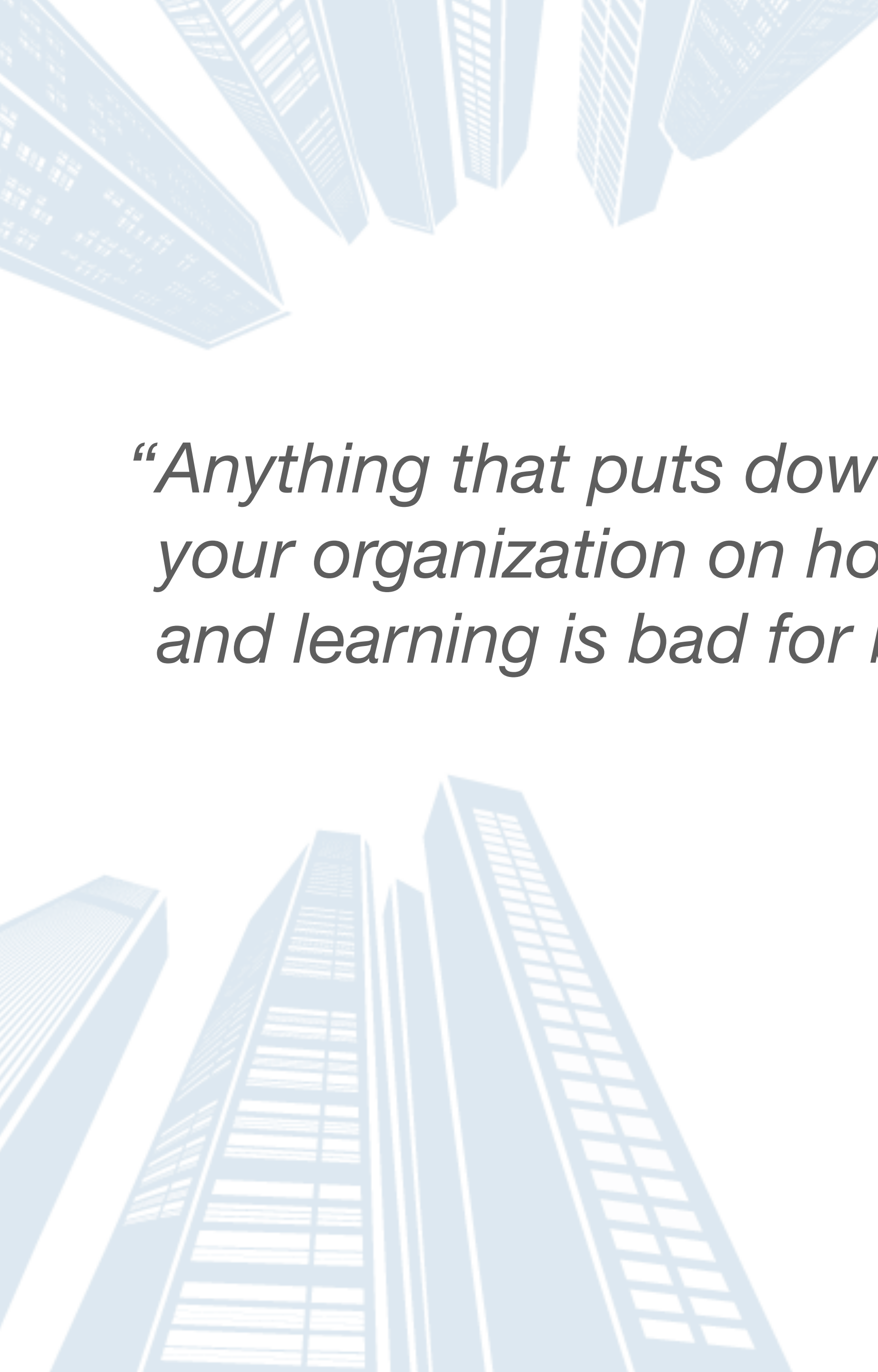
Downward Pressure



Choice #3

**If you can use downward pressure,
does that mean you should?**





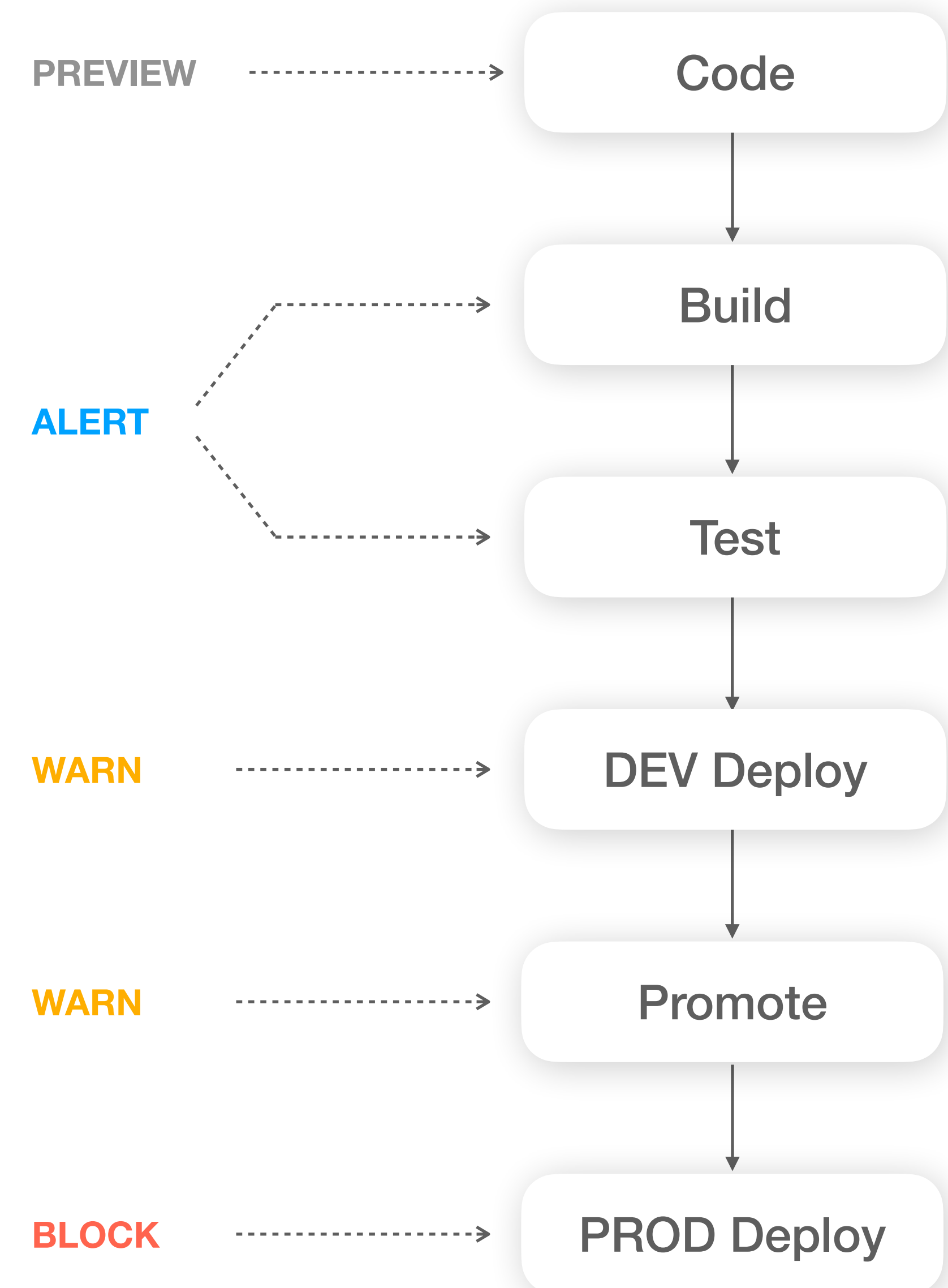
“Anything that puts downward pressure in your organization on honesty, openness, and learning is bad for business”

- Sidney Dekker



Automated Enforcement

How It Works



Game Theory





Automated Enforcement

Governance, Risk, and Compliance

Optimal

Not Optimal

Optimal

Substantive Compliance

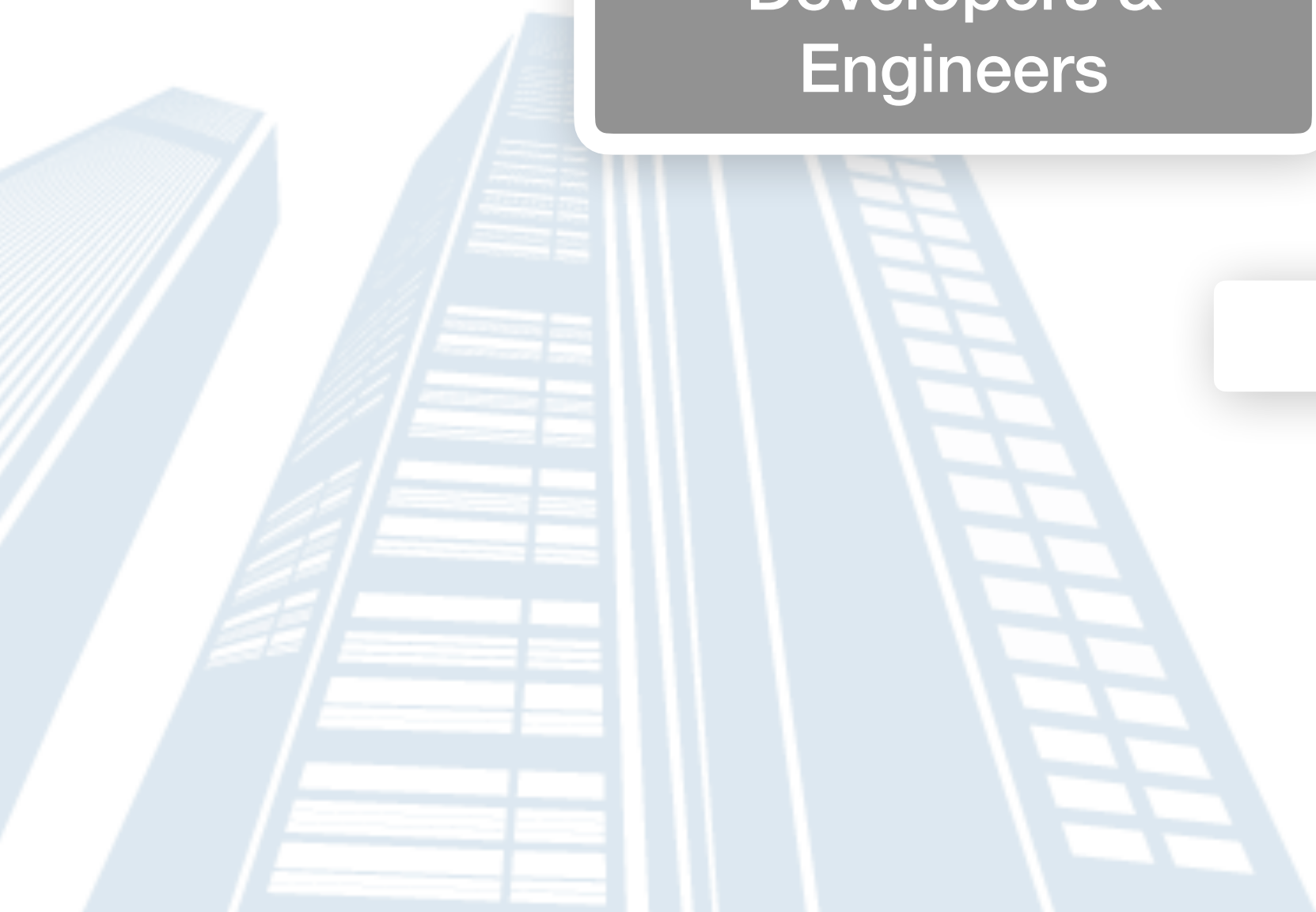
Formal Compliance

Developers & Engineers

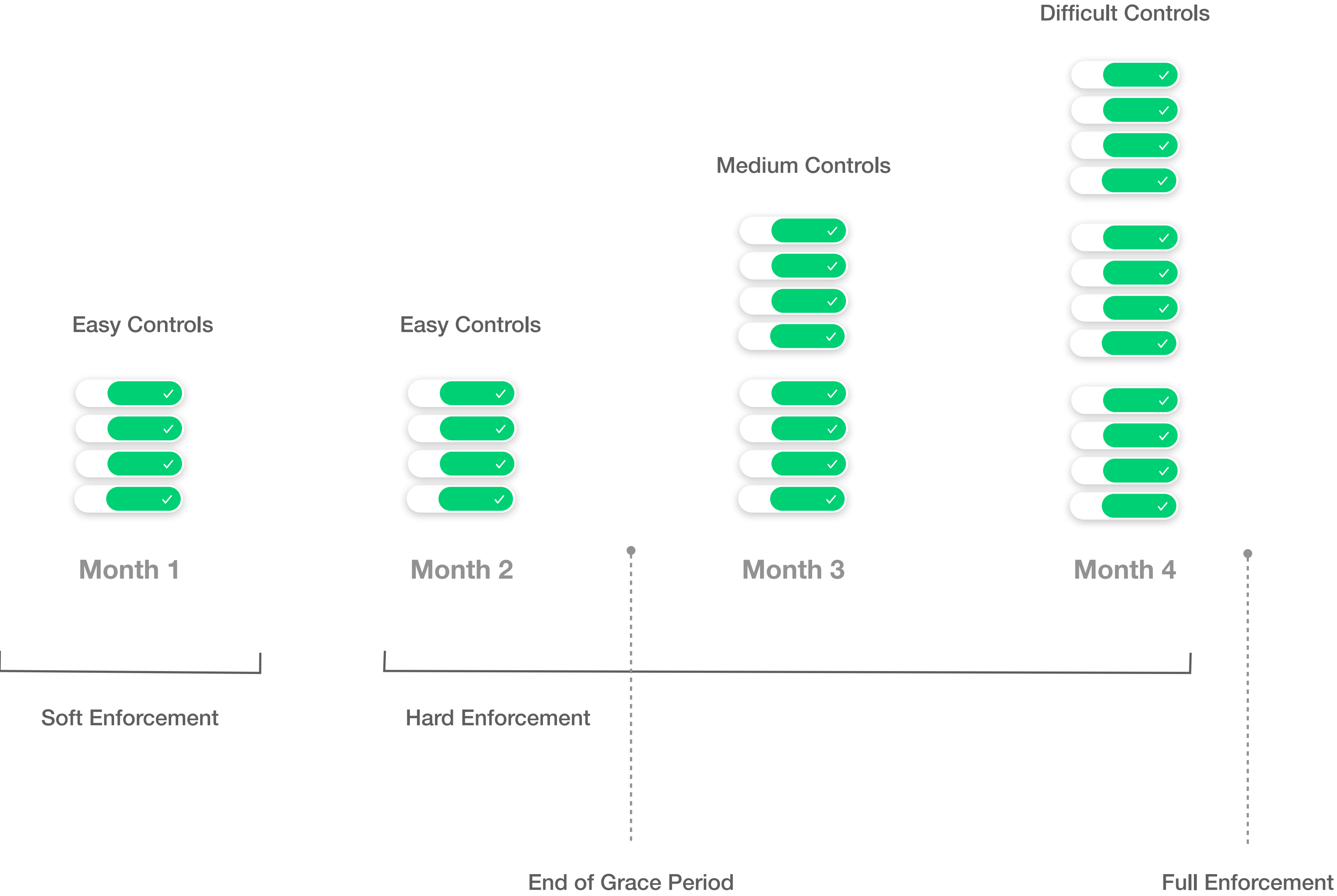
Not Optimal

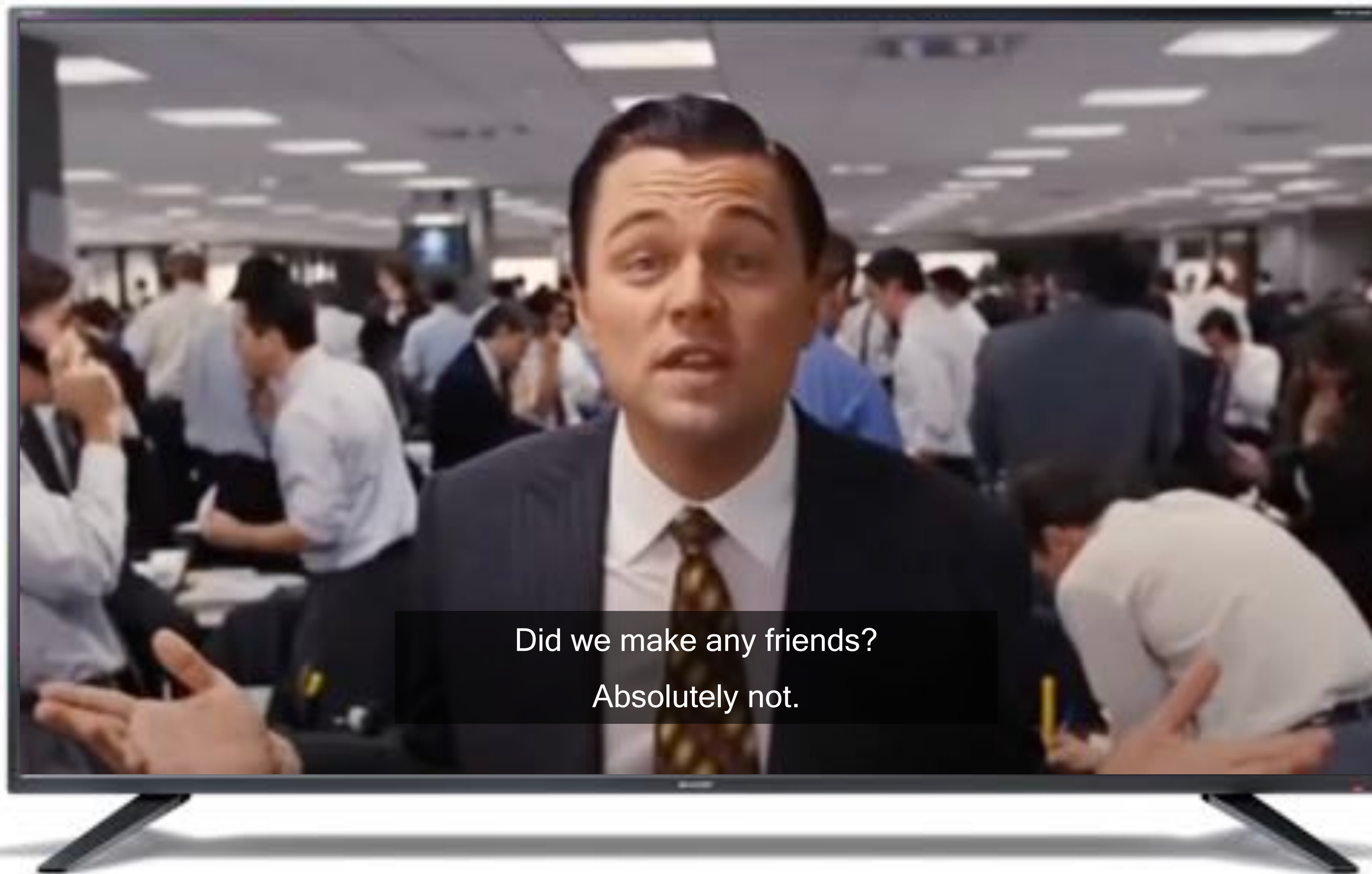
12 Key Levels of Compliance

Automated Governance



Rollout





Did we make any friends?
Absolutely not.



The Automated Enforcement Effect

Chat Room Engagement

5x



Office Hours Attendance

10x

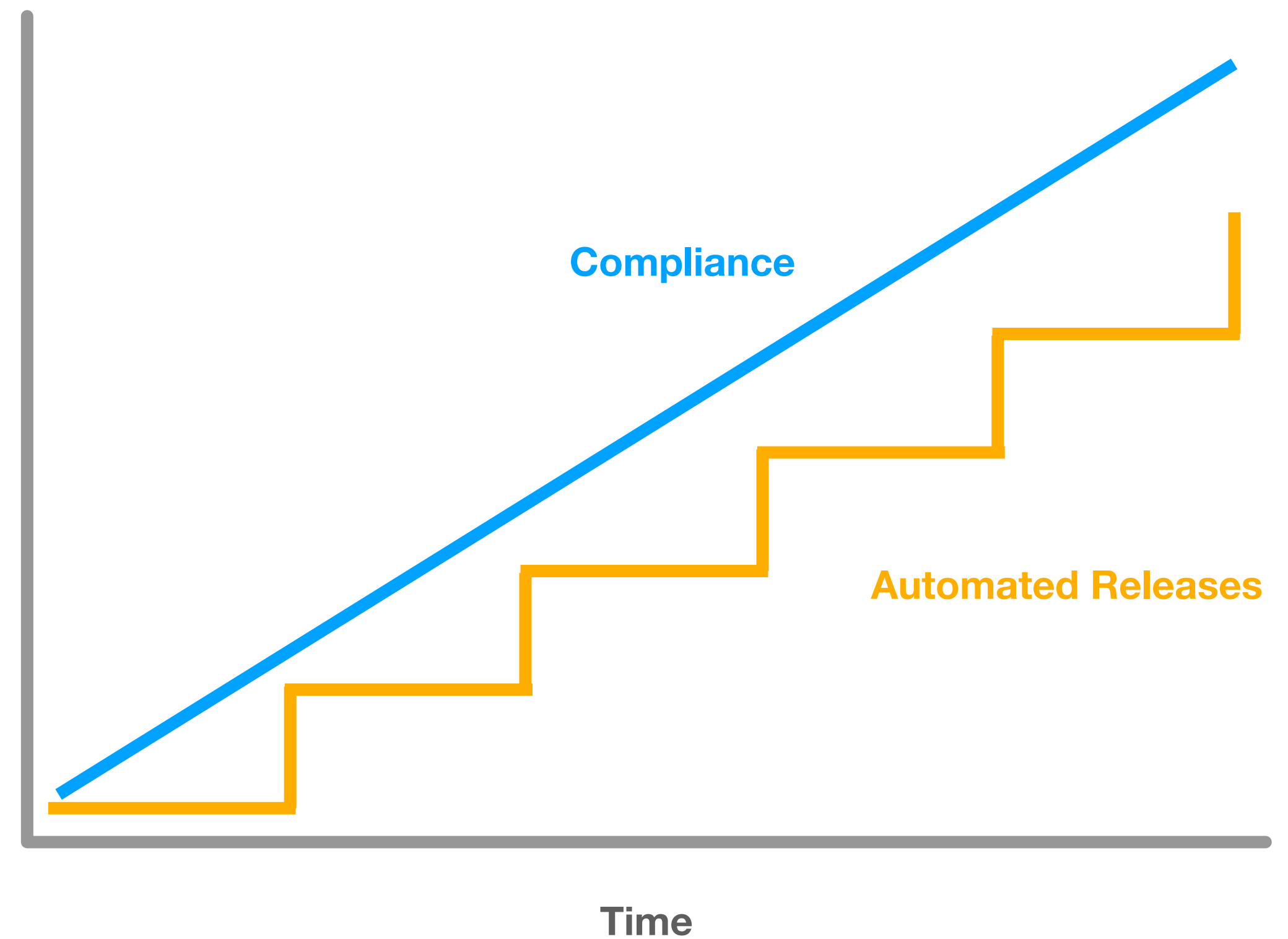


Production Incidents
Caused by Gates

Zero

The Automated Enforcement Effect

Compliance & Automated Releases





**What onboarding or adoption
stories can you share?**



Let's go do the things!