

# Escaping the Legacy Trap

A proven method for application modernization



“It’ll just take  
15 minutes.”

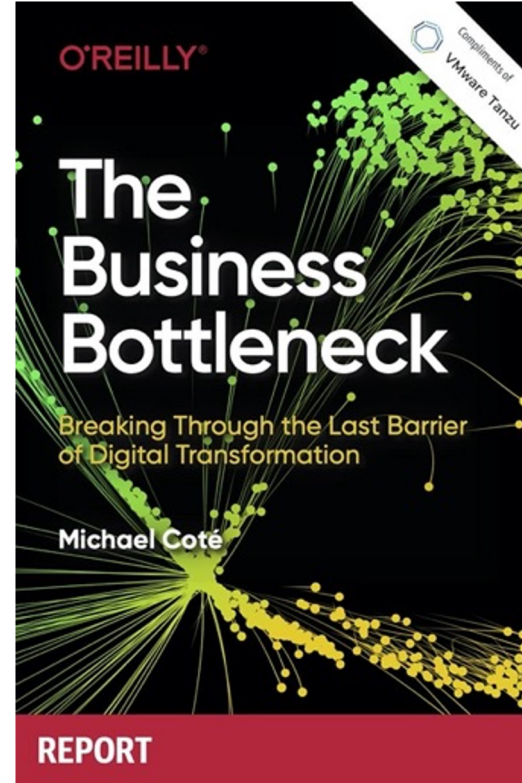
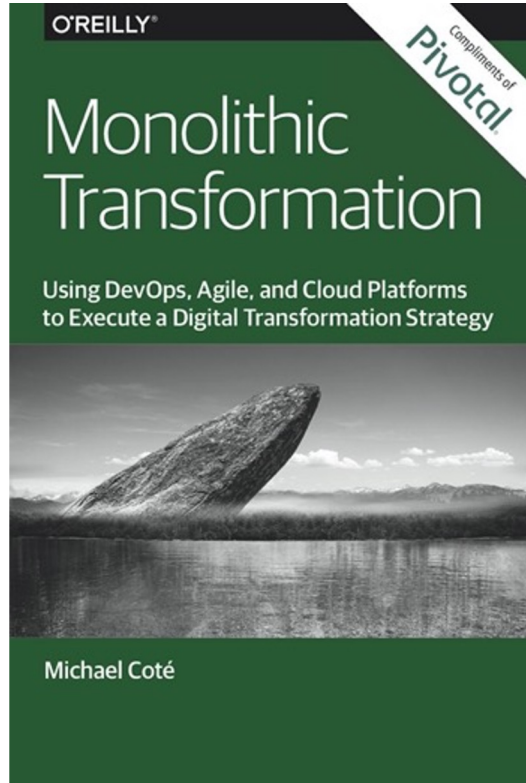




**76%** of executives say  
legacy software is holding them  
back.

# Coté

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October 2022



## The Legacy Trap

How to modernize applications that are holding you back, and why you need to start right now

By Michael Coté and Marc Zottner

vmware®



**Free Download:**  
<https://cote.io/legacytrap/>





# The Swift Methodology

A series of proven practices that jump-start application modernization in days, not months

vmware



Sources: [Swift method overview at Tanzu Developer center](#)



# Software that you need to change, but are afraid to change

“ Legacy technology is any technology that makes it difficult for organizations to change their application systems to support changing business requirements. And, therefore, it impedes business agility.”

*Anne Thomas,  
distinguished research VP at Gartner, in an email to CIO Dive*

“ Legacy code is code without unit tests.”

*Michael Feathers,  
Working Effectively with Legacy Code*



“IDC estimates there are  
**500 million**  
legacy applications in use around the  
world. The vast majority are found on  
x86 servers, with most running on virtual  
machines (VMs).”

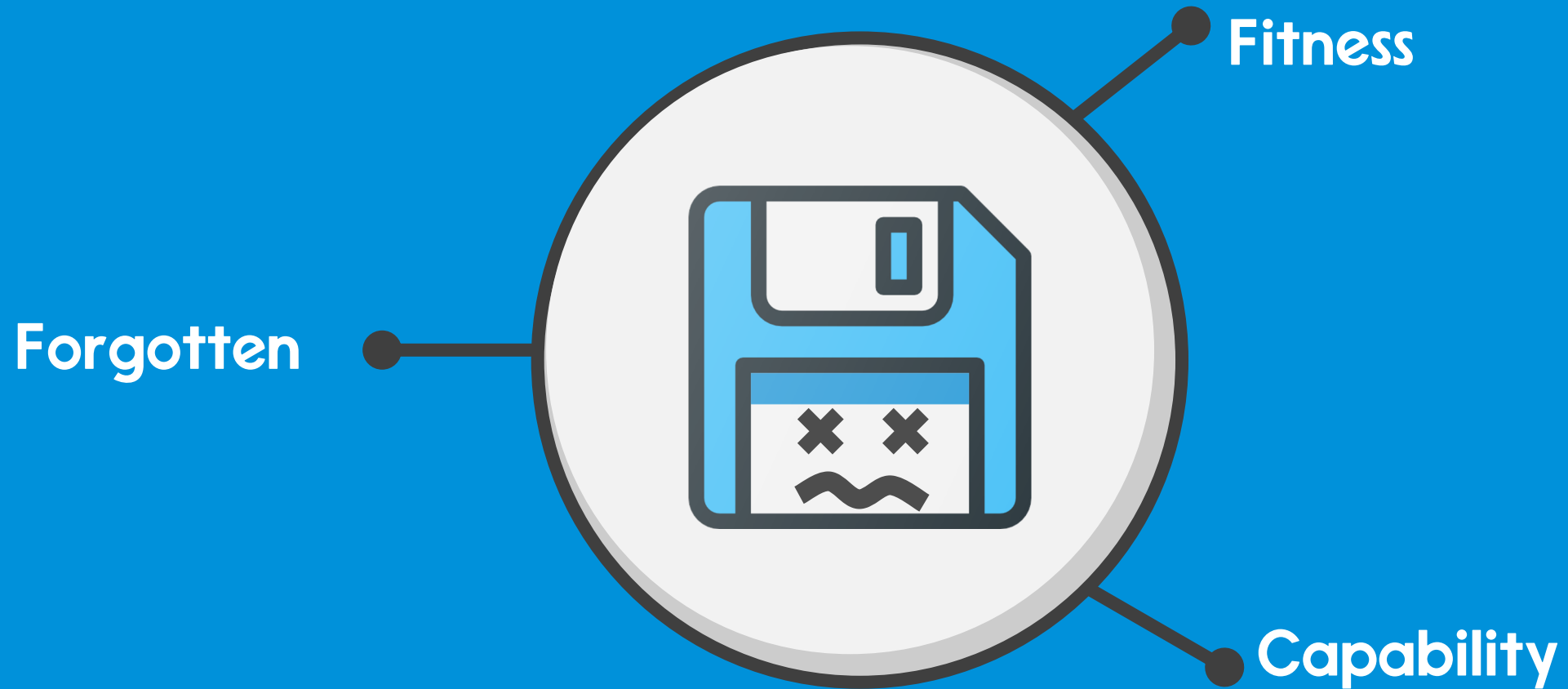


# Caught in the Legacy Trap

- Debilitating technical debt
- Maintenance efforts hinder innovation
- Bulky processes obstruct progress
- Desperate lack of knowledge and skills
- Low test coverage

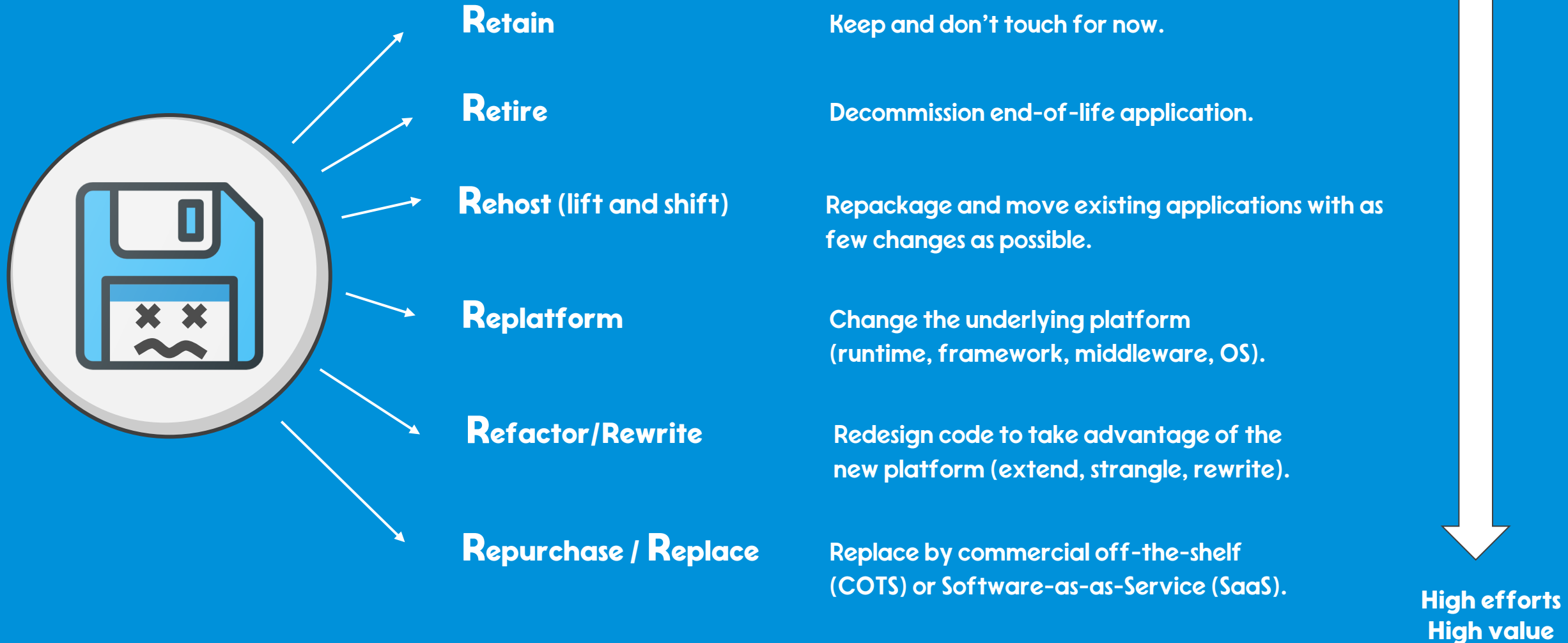


# How Software Goes Bad



# Common Fixes

## Modernization Strategies - The 7 Rs





# Holistic Way Out Of The Trap

## Culture

Continually improve  
and deliver customer success.

Startup  
Generative  
Empowered  
Psychological Safety

## Methodology

Learn the necessary practices  
to build modern software.

User-Centered Design  
Lean Product Management  
Extreme Programming  
Cloud-Native Practices

## Tools

Build with products focused  
On developer productivity.



Best in class tools

## Platform

Run any app, on any cloud,  
on a unified platform.

Portable  
Low coupled  
Standardized  
Matching abstraction

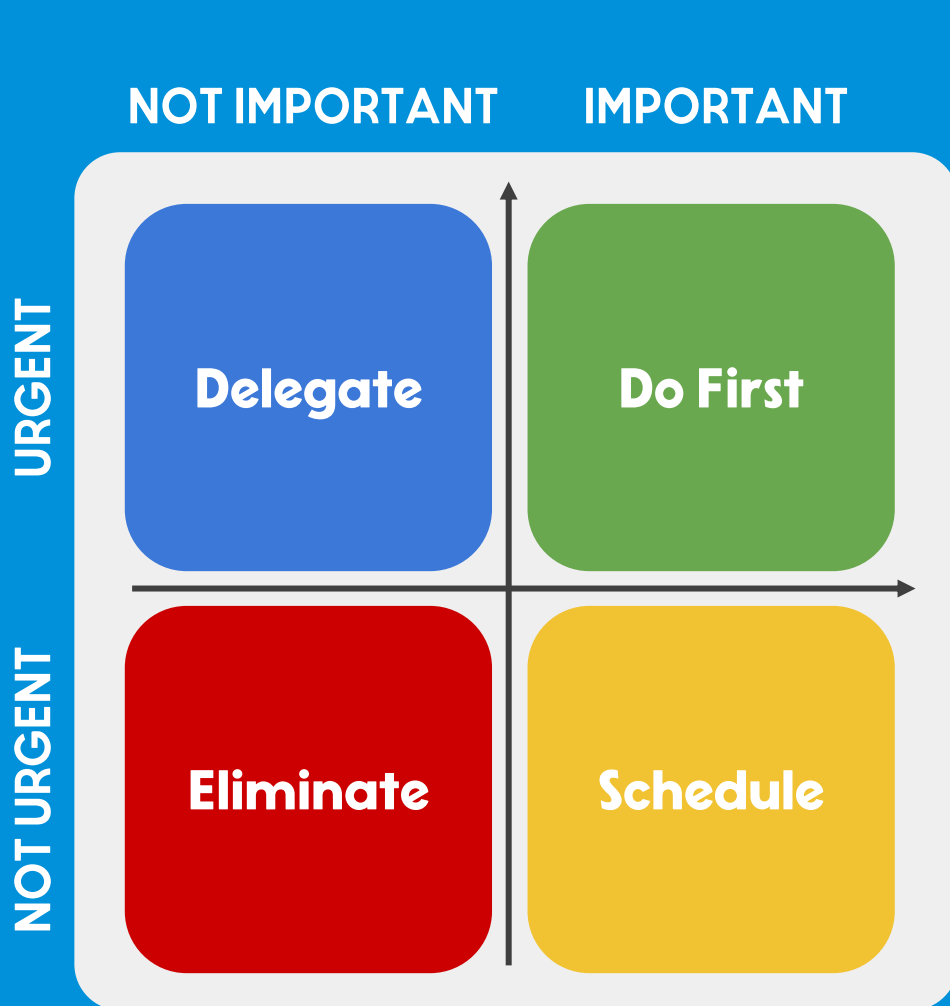
Spoiler  
“This is hard!”

# Stick to business outcomes for answering “why?”

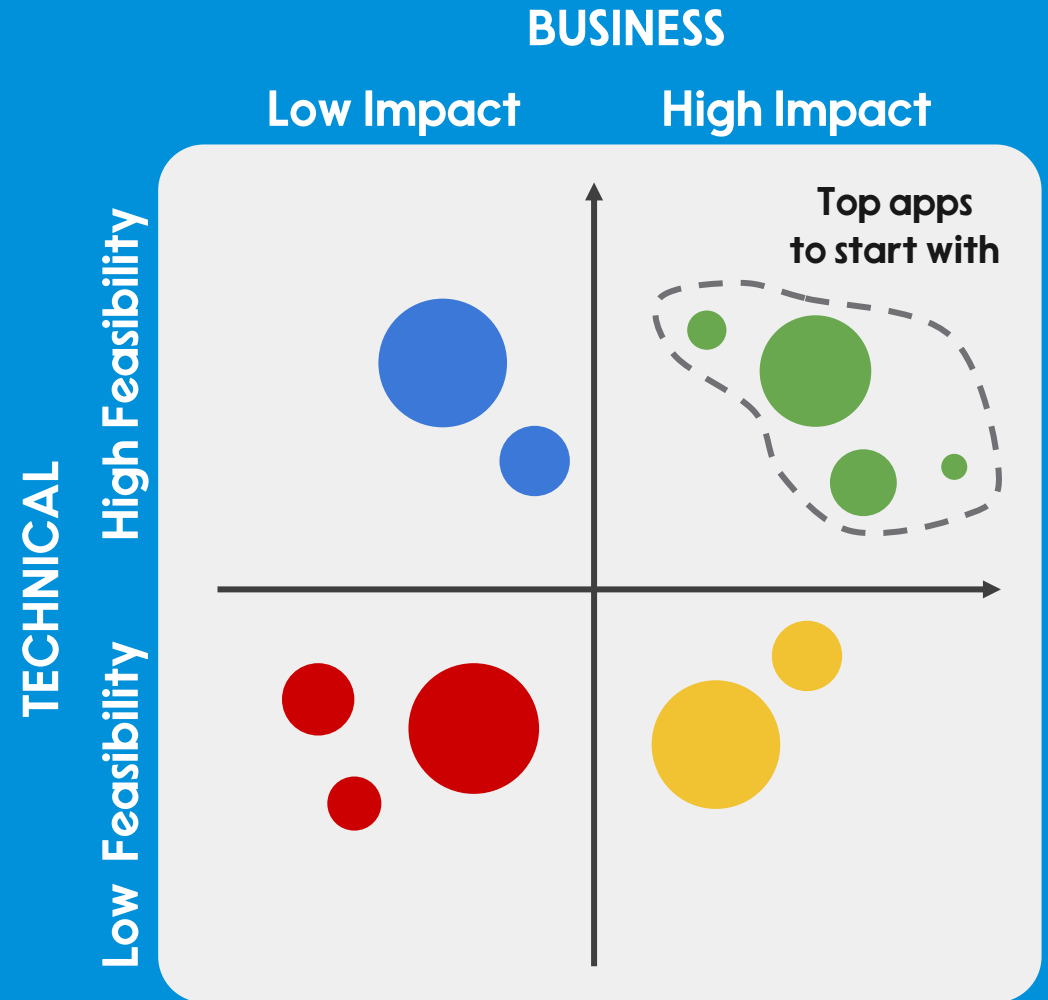




# Use Portfolio Rationalization to find what's important

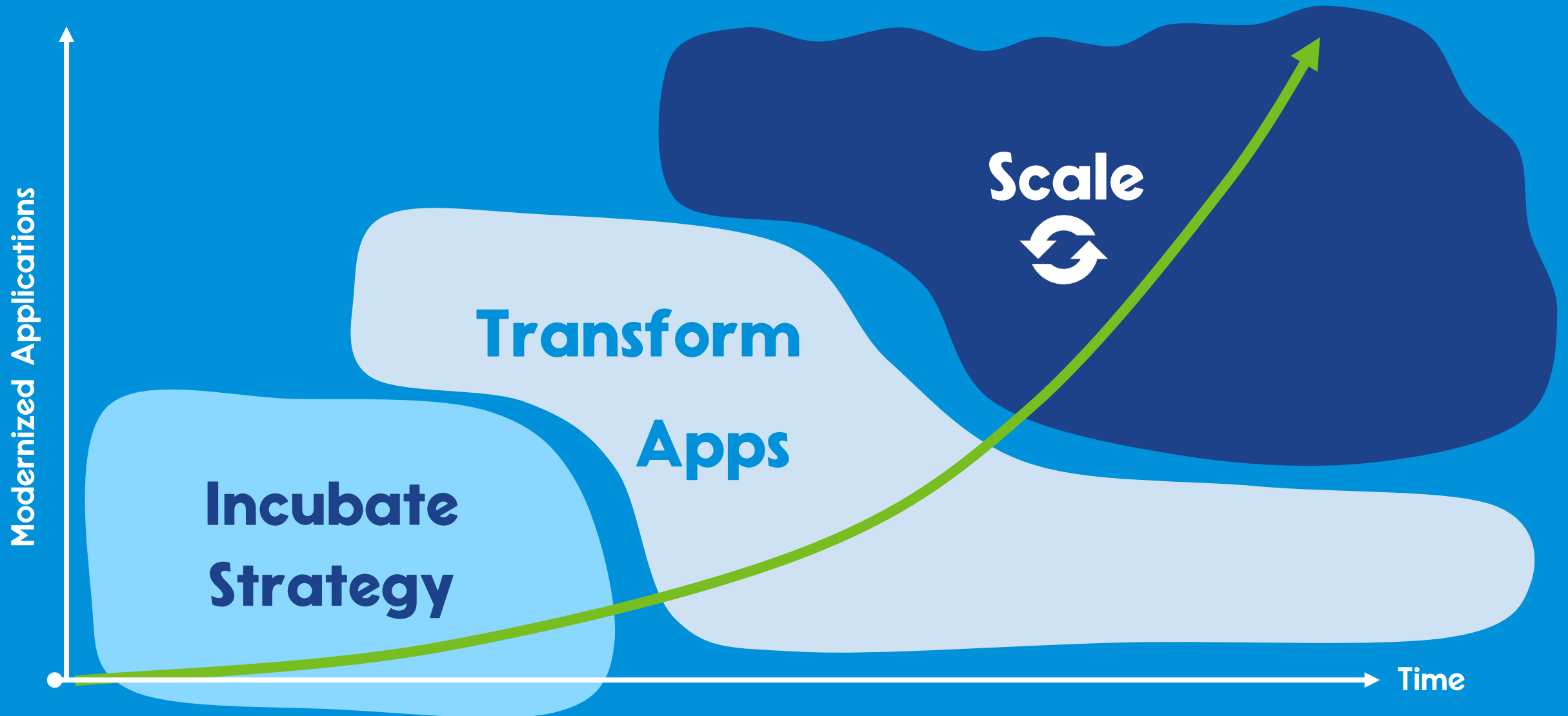


**Eisenhower Matrix**  
Escape the "Urgency" Trap

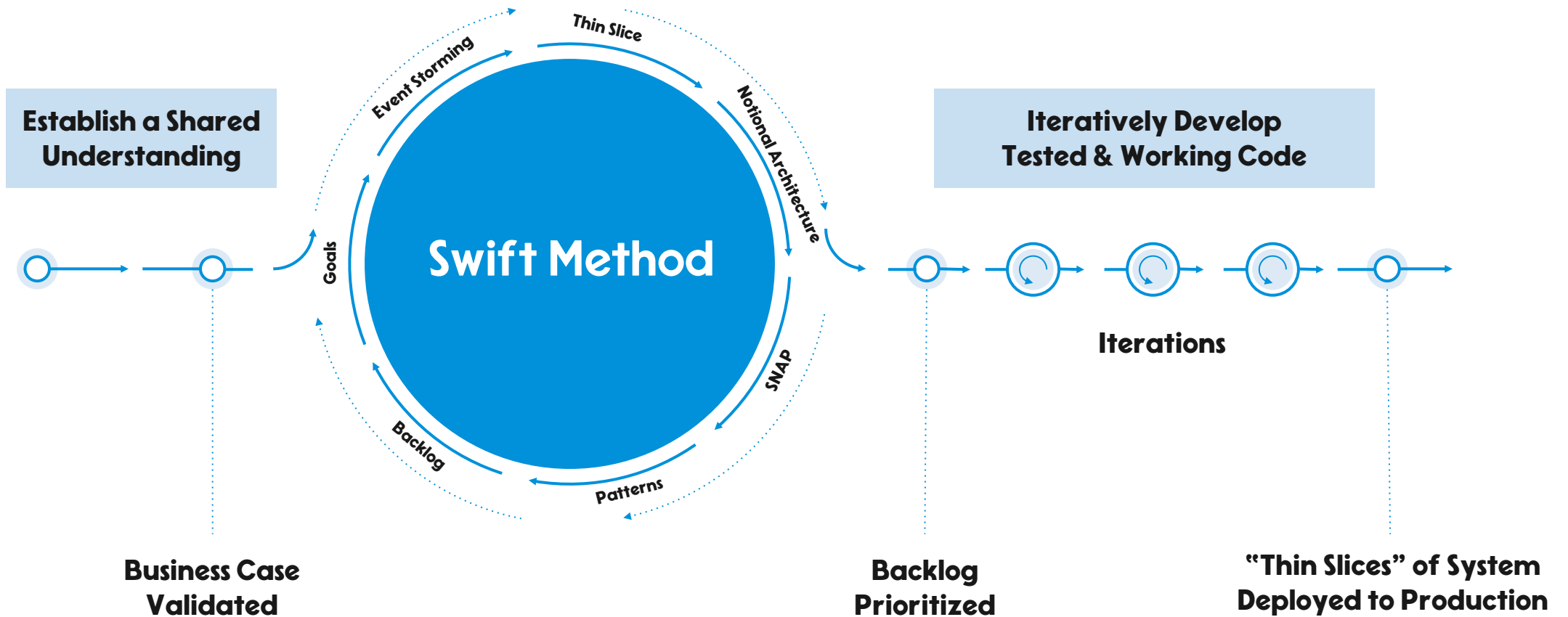


**Impact Effort Matrix (2x2)**  
Align modernization efforts & impact

Plan for a long journey – start small and agile, learning as you scale





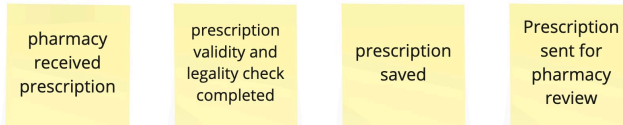




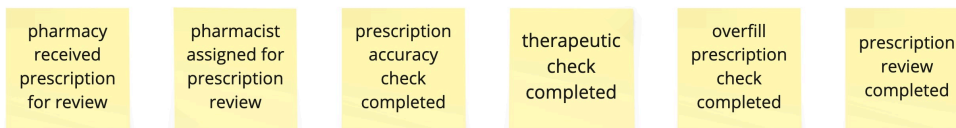


# Find the business processes and element with event storming

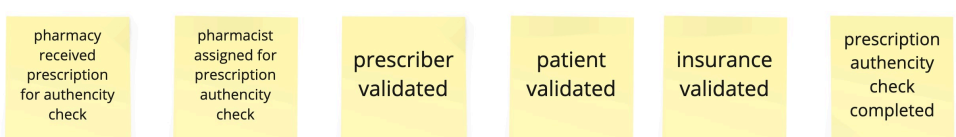
## ***prescription ingestion***



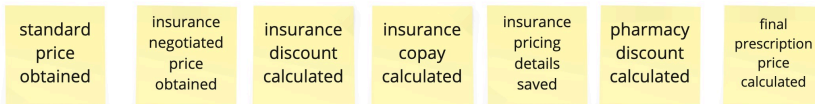
## ***prescription safety review***



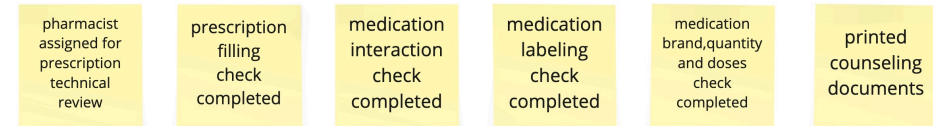
## ***prescription authenticity check***



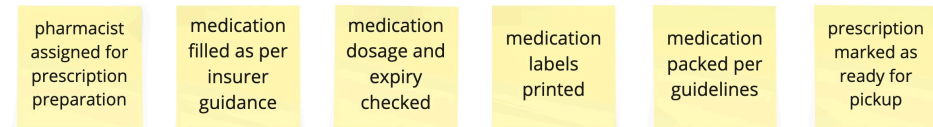
## ***prescription price calculation***



## ***prescription technical review***



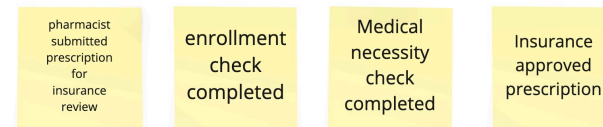
## ***prescription preparation***



## ***prescription dispensing***

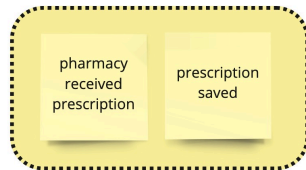


## ***insurance coverage verification***

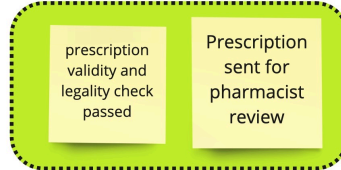


# Discover the bounded contexts, find shared services, design hygiene

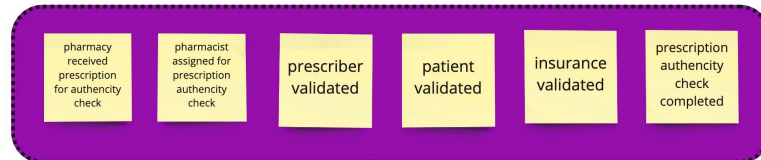
## *prescription ingestion*



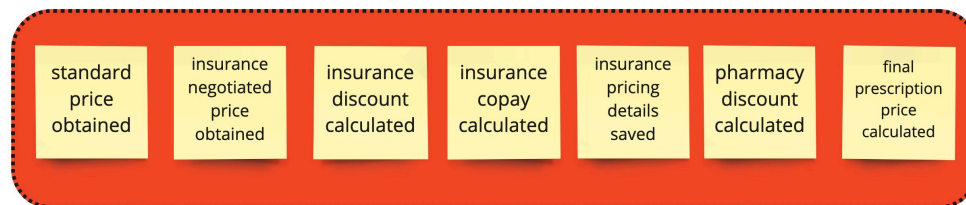
## *prescription safety review*



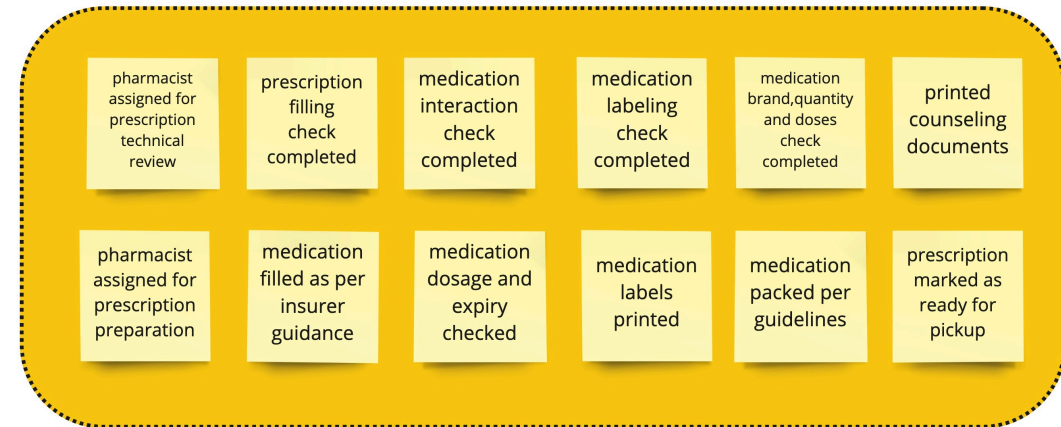
## *prescription authenticity*



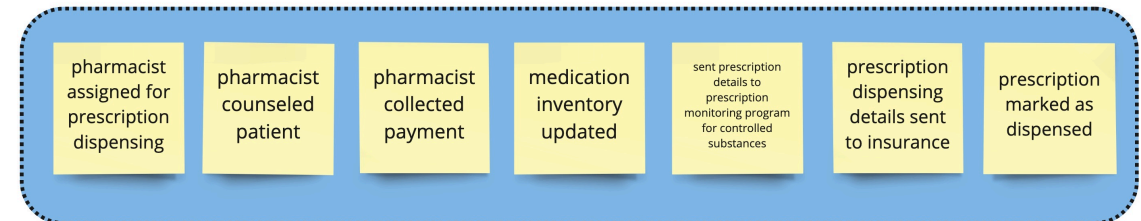
## *prescription pricing*



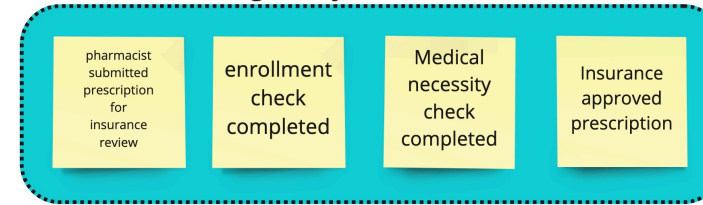
## *prescription filled by pharmacy*



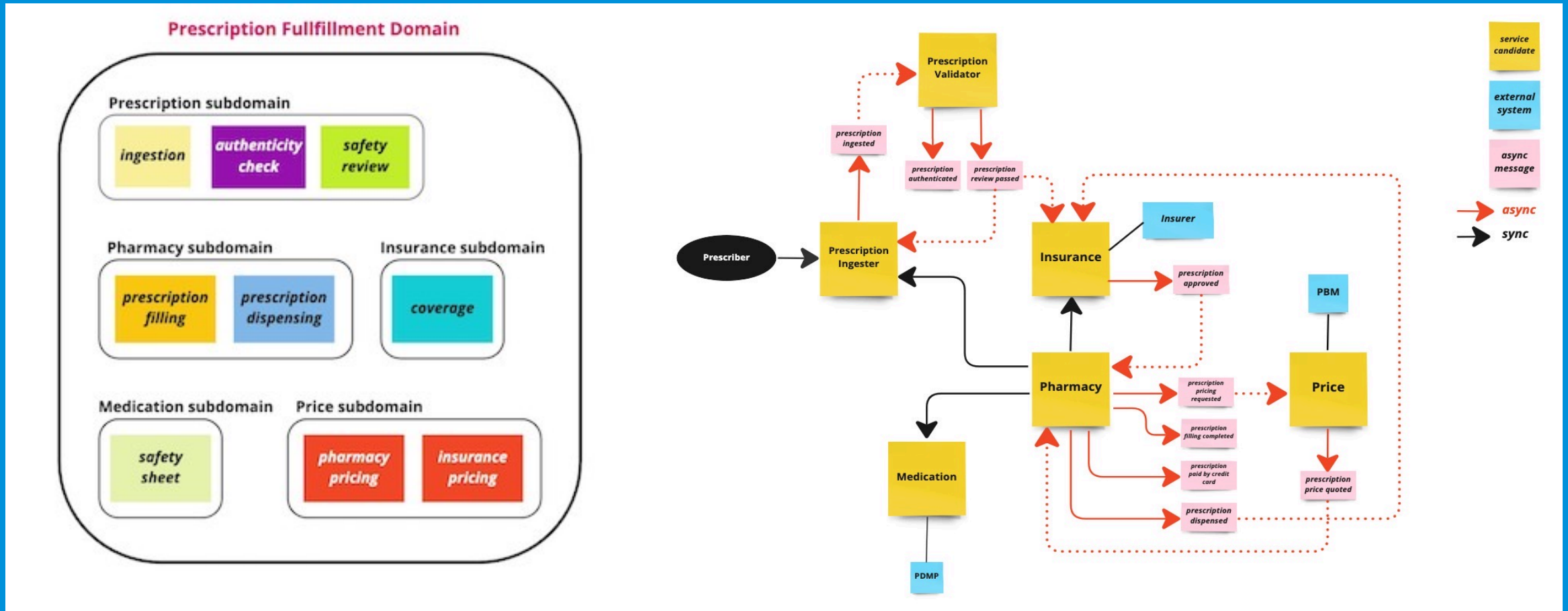
## *prescription dispensed by pharmacy*



## *insurance coverage verification*



# Pick an important, but small slice then re-architect based on business capability/process





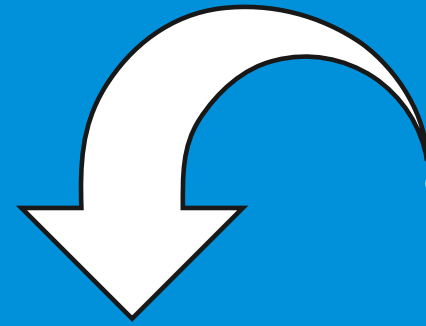
# Thanks!

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 <https://cote.io/legacytrap/>

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*Slides & stuff*

