

Why DevOps Stops

75% of DevOps initiatives will fail to meet expectations due to organizational learning and change issues.



What is Krista?

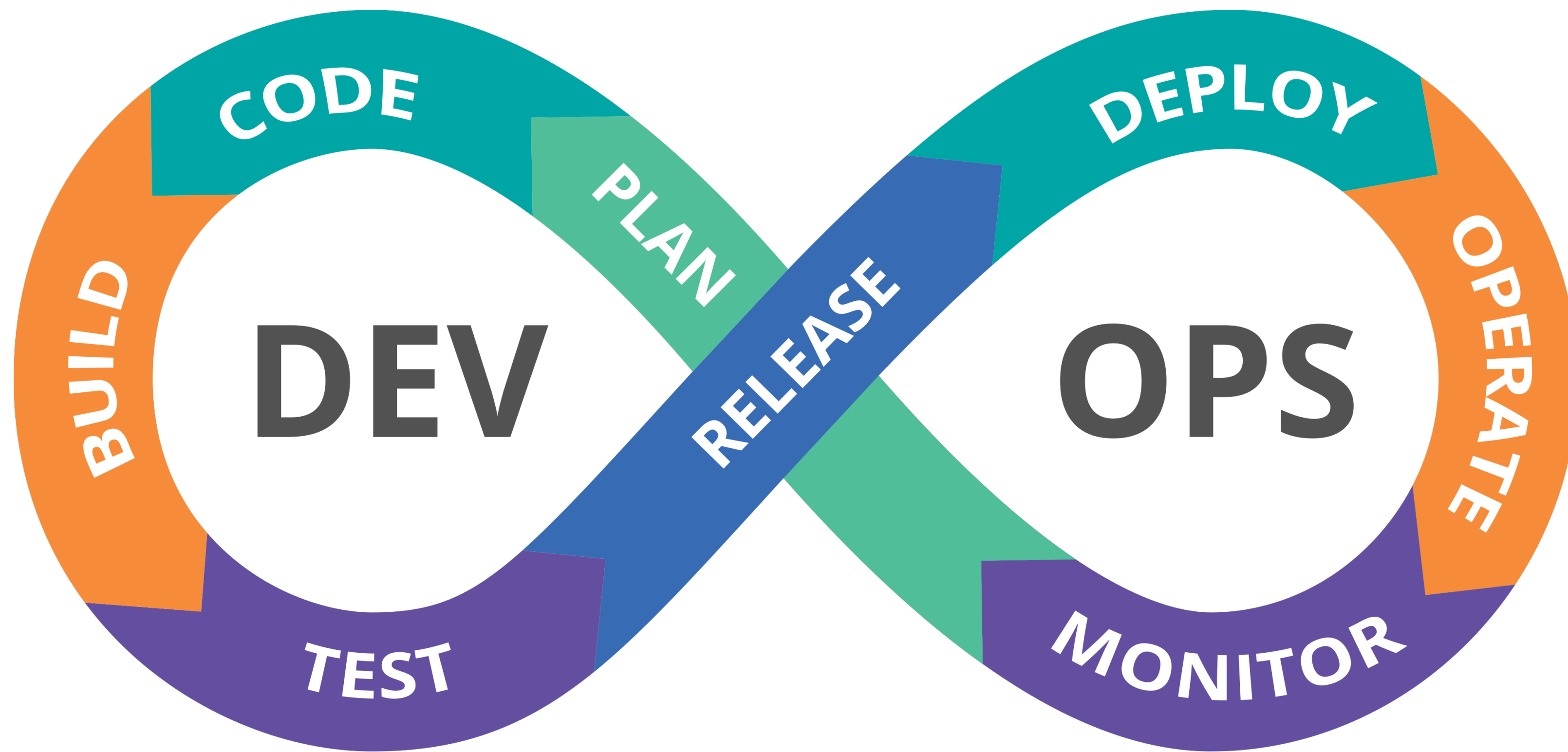
Intelligent Automation

Krista is a modern conversational Intelligent Automation platform designed to easily leverage existing IT assets. Krista's unique informal approach enables business process owners to quickly build new lookup or data entry workflows without waiting in line for expensive IT or development resources. Krista uses a unique programming method similar to a text conversation between one or more people. By following the way humans already communicate, Krista enables anyone to build and create workflows around business process constraints. The conversational workflows eliminate maintenance and upkeep required from traditional record and playback automation tools. Krista's conversations are beautifully simple, with enough power, scale, and security to find any answer inside the largest enterprises.

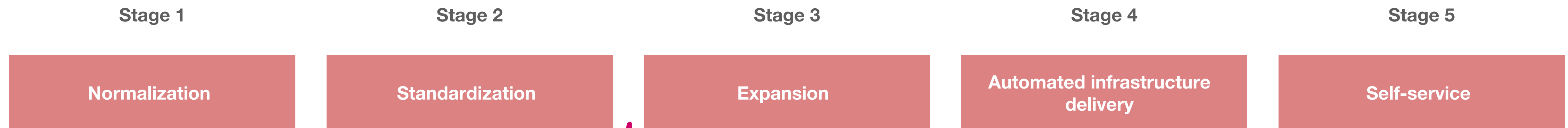
Deployment is Simple

Krista's Natural Language Processing supports voice, text, and *bots to deliver automation anyone understands. By utilizing existing communication methods in conversations, you take advantage of how your employees already communicate. Krista quickly deploys to existing desktops, mobile phones, Slack, and web browsers that your employees are already using. You won't need to train employees or maintain brittle documentation since the automation follows existing voice and texting conversations similar to WhatsApp or Facebook Messenger. If your employees can text, they can interact with numerous systems to support customers, consume enterprise services, deploy IT changes, or update important KPIs.

DevOps – It's improving.

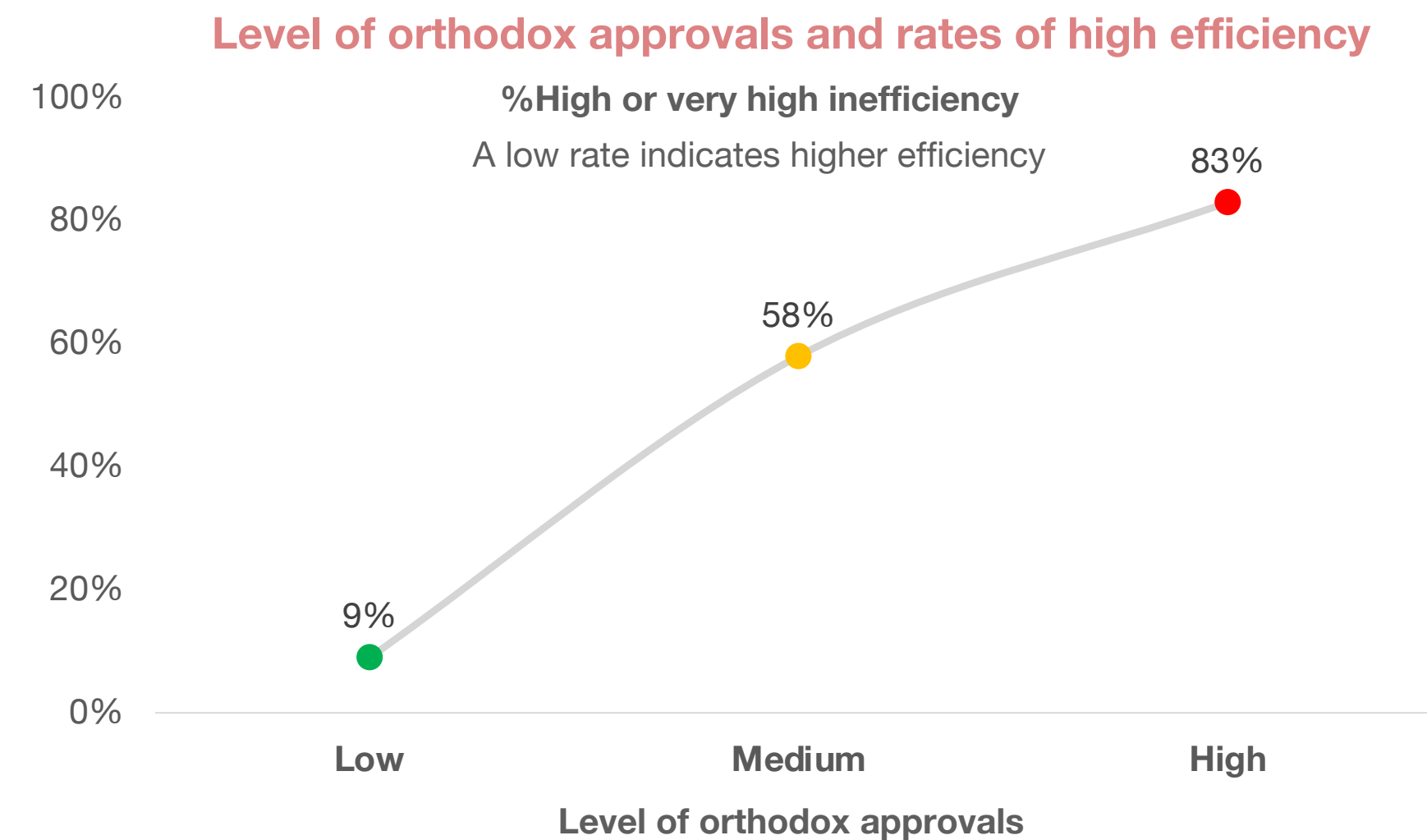


DevOps Evolution Model



Many DevOps initiatives and cultures slow or stop at Stage 3 and fail to scale since organizational structures (aka people) become constraints in the Neutral Zone.

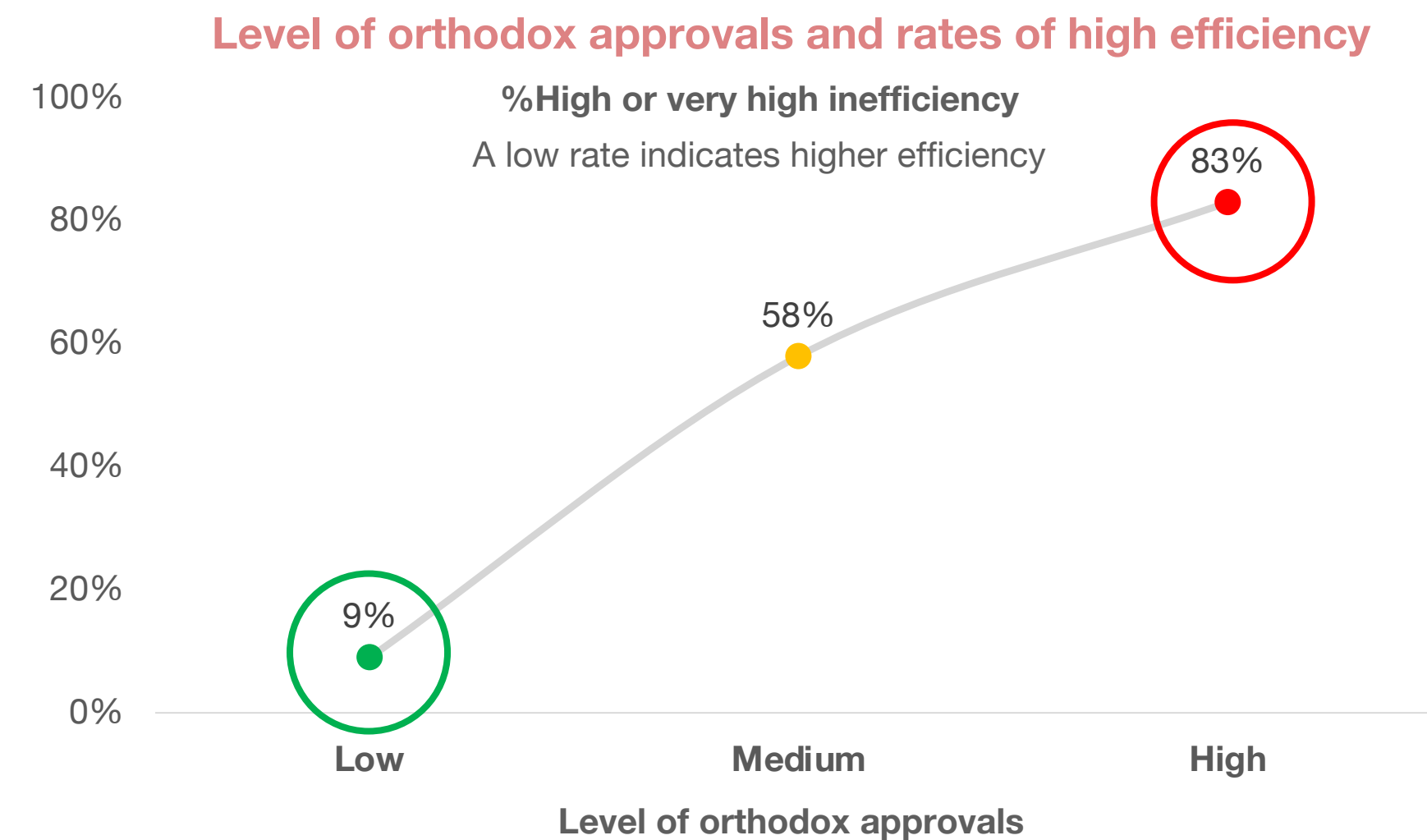
People / Approvals in the Change Management Process



Orthodox change approval is based on strict adherence to established practices:

- Changes are approved by a committee.
- Approval is required from multiple levels of management.
- Changes can be made only in predefined windows.
- The person requesting the change cannot implement the change (separation of duties).

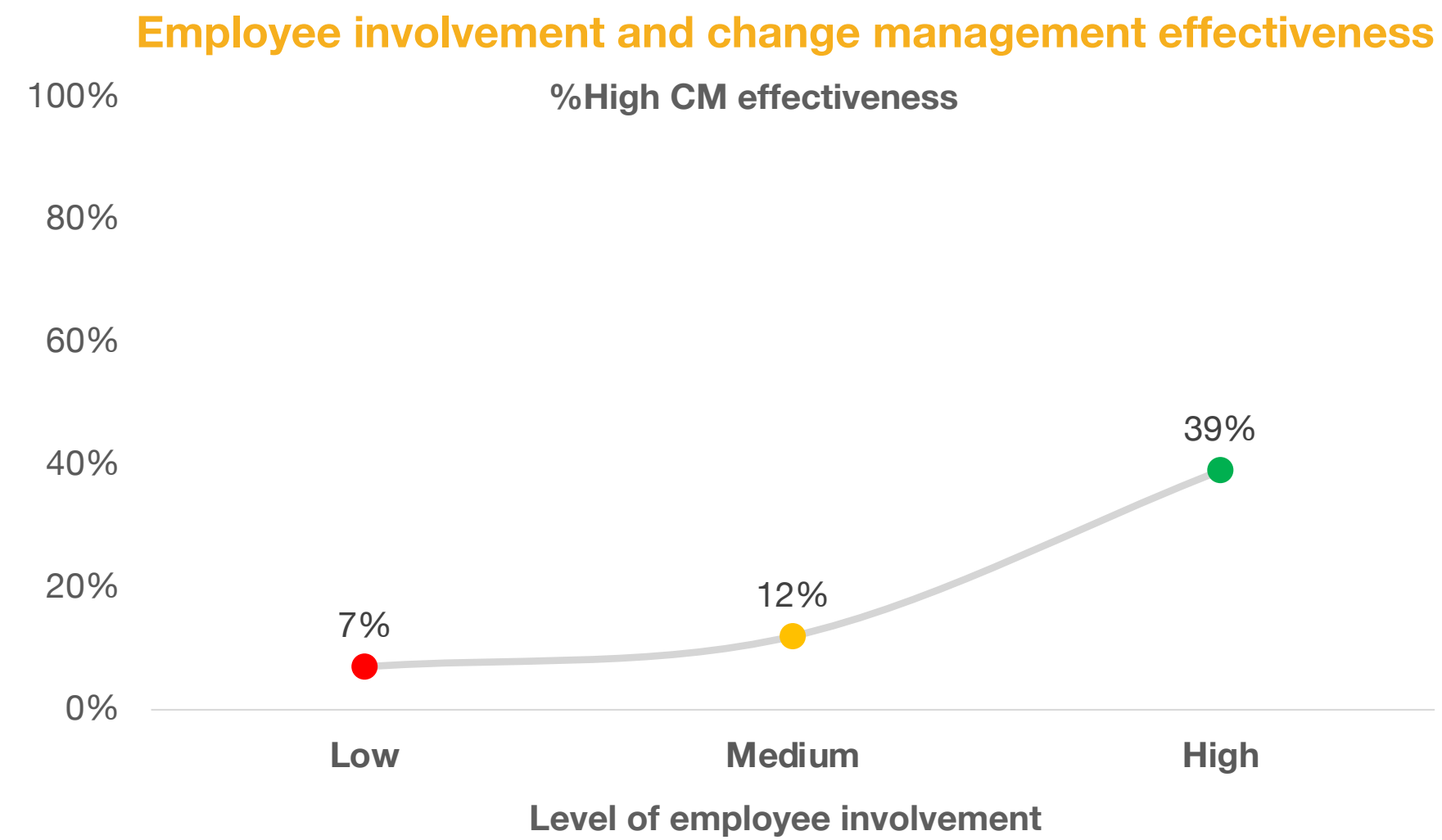
People / Approvals in the Change Management Process



Orthodox approvals make the change management process less efficient.

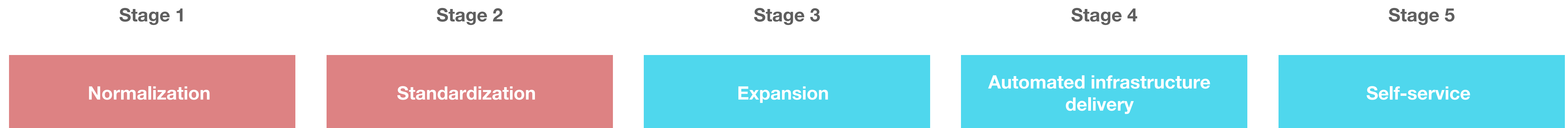
Firms with low orthodox approvals are nine times more efficient than firms with high orthodox approvals.

People / Approvals in the Change Management Process



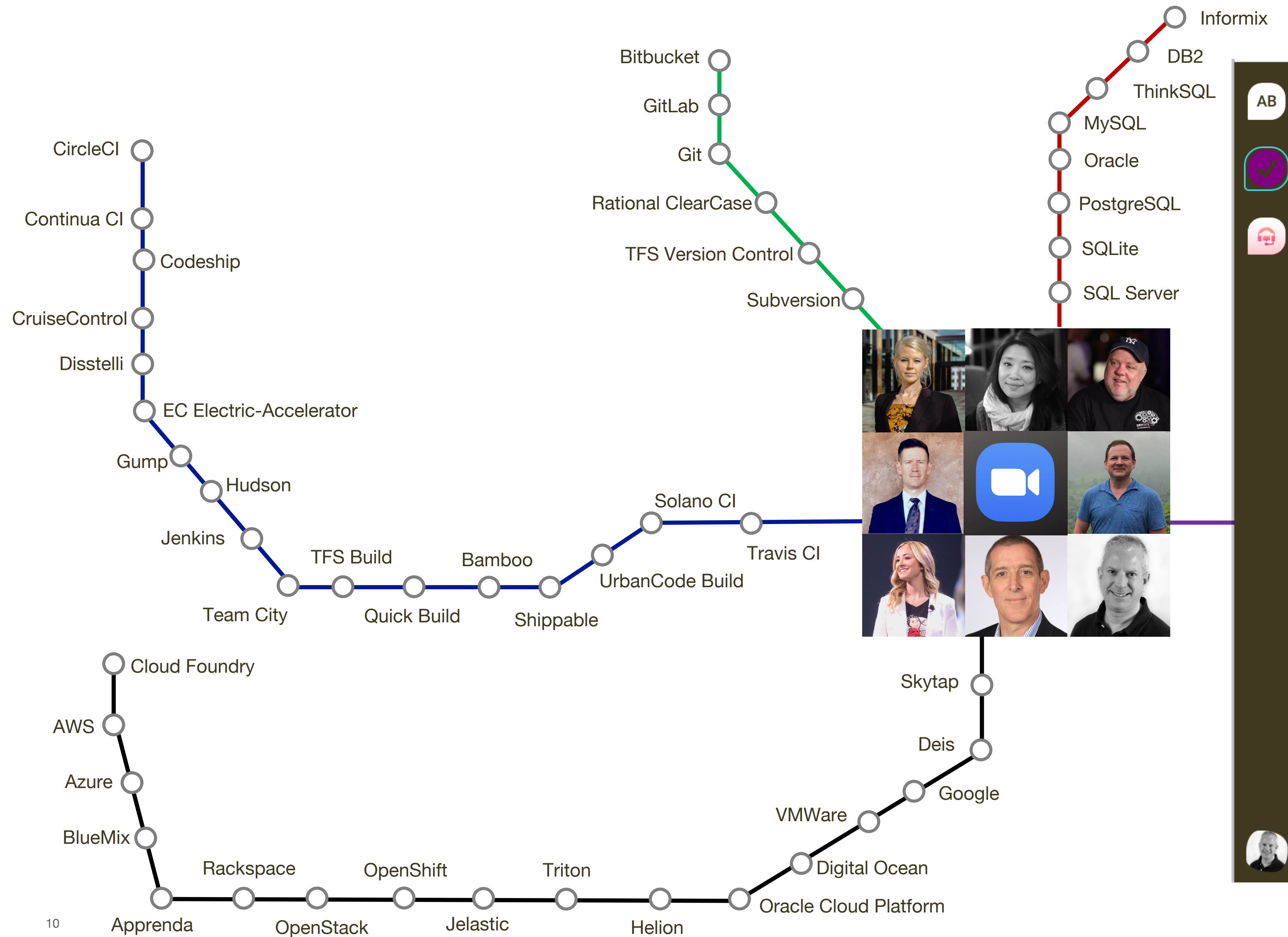
Firms with high employee involvement in the change management process are more than five times as likely to have highly effective change management than firms with low employee involvement

DevOps Evolution Model



Krista integrates your people and existing technology and tools to help scale deployments and increase collaboration amongst your people and teams.

Reality – disconnected tools with manual workflows



The screenshot shows a chat interface for a 'webinar' with the following conversation:

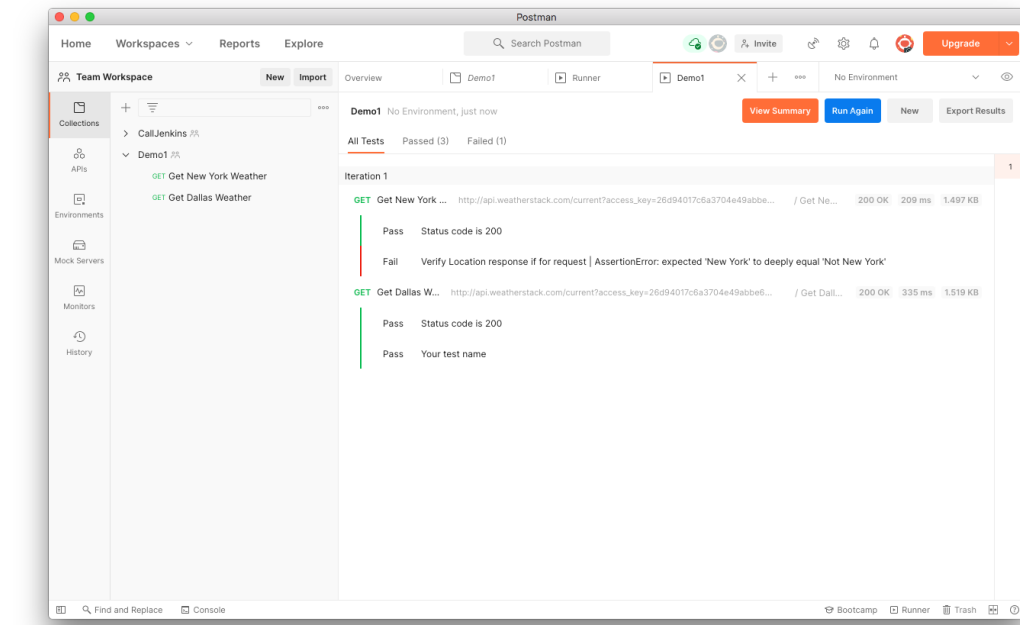
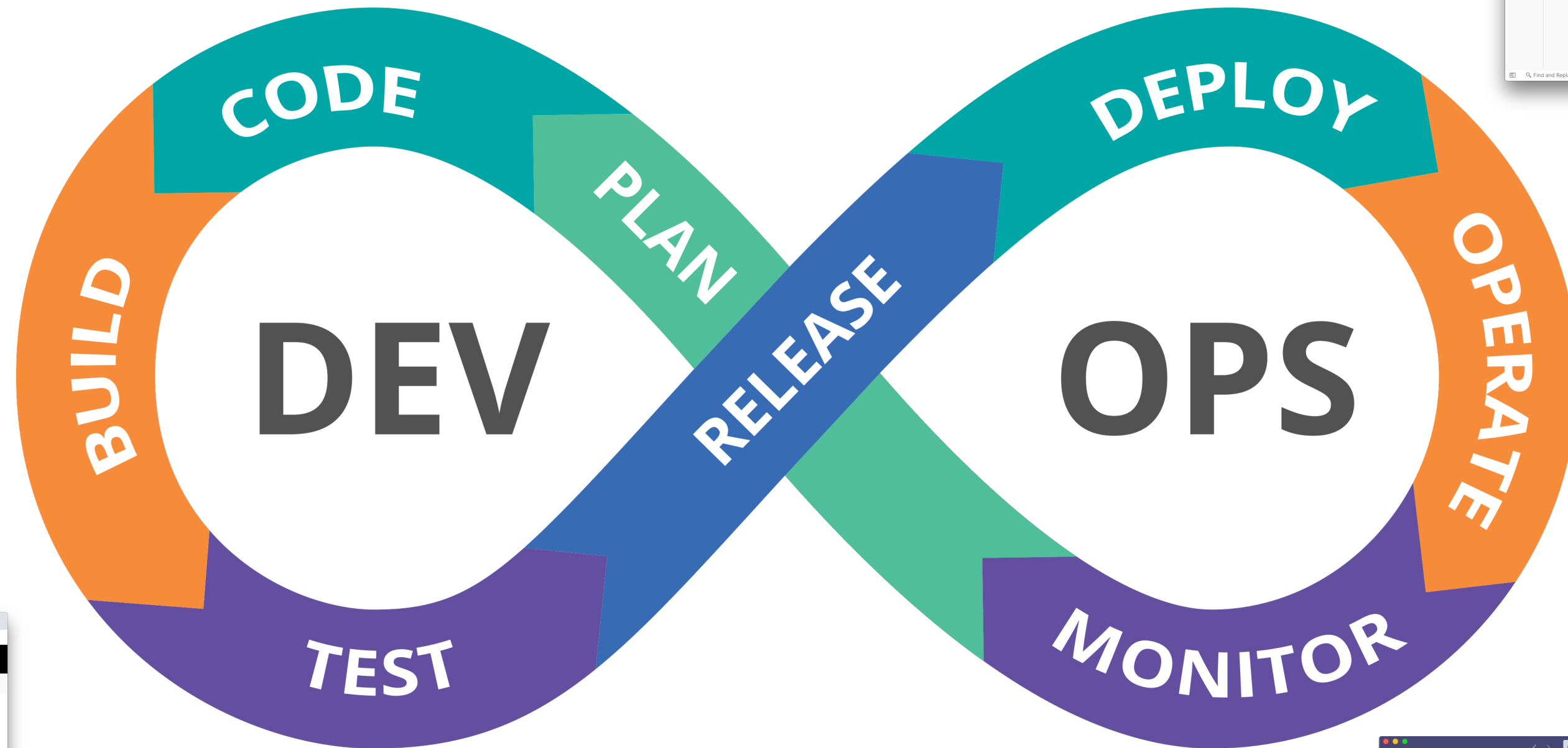
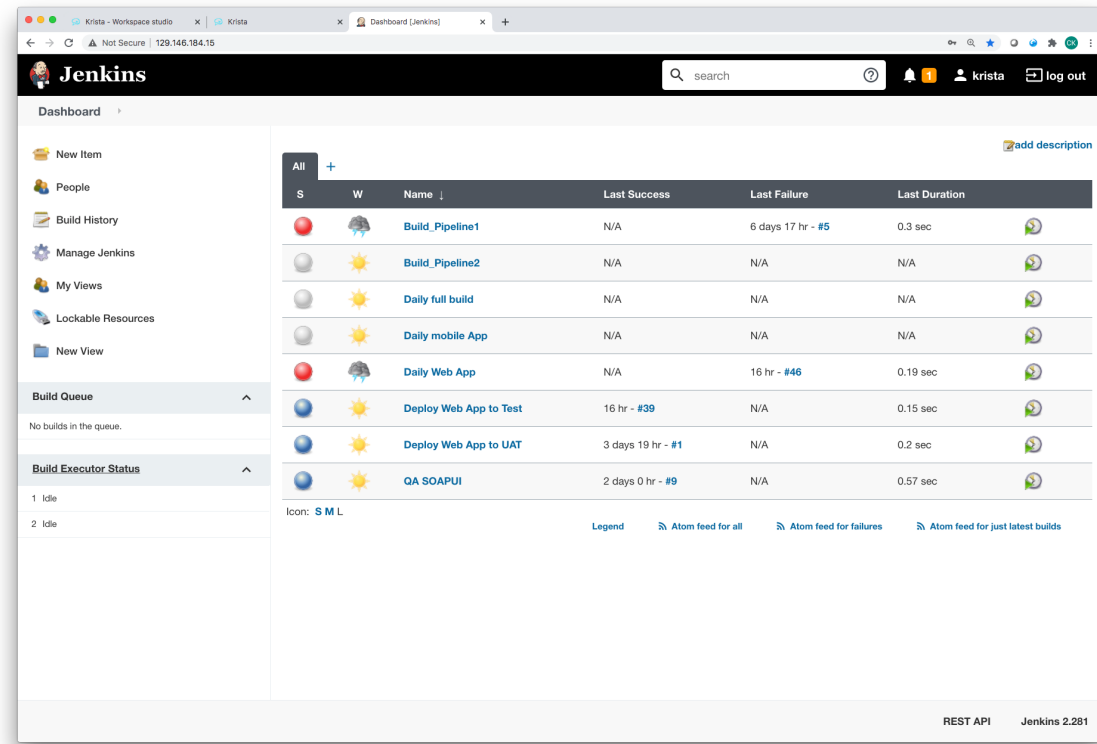
- User:** How can Krista help? (4:03 PM)
- Krista:** No one has the complete map (4:03 PM)
- Krista:** People start with a couple legs that are not connected (4:03 PM)
- Krista:** Not all processes are automated (4:03 PM)
- Krista:** Humans in the middle to handshake or complete the process (4:03 PM)
- Krista:** Thanks! Let me know if you need anything else. (4:03 PM)

At the bottom of the chat, there are buttons for 'Cancel Order', 'Conversation - 1', and a menu icon.

Today World - Tools implemented and integration via Alt Tab



Automation in siloed
Need Orchestration across
technology and humans



```

Demo1
- Get New York Weather
  GET http://api.weatherstack.com/current?access_key=26d94817c6a3784e49abbefac32080b36query=New York [200 OK, 1.63KB, 301ms]
  ✓ Status code is 200
  1. Verify Location response if for request

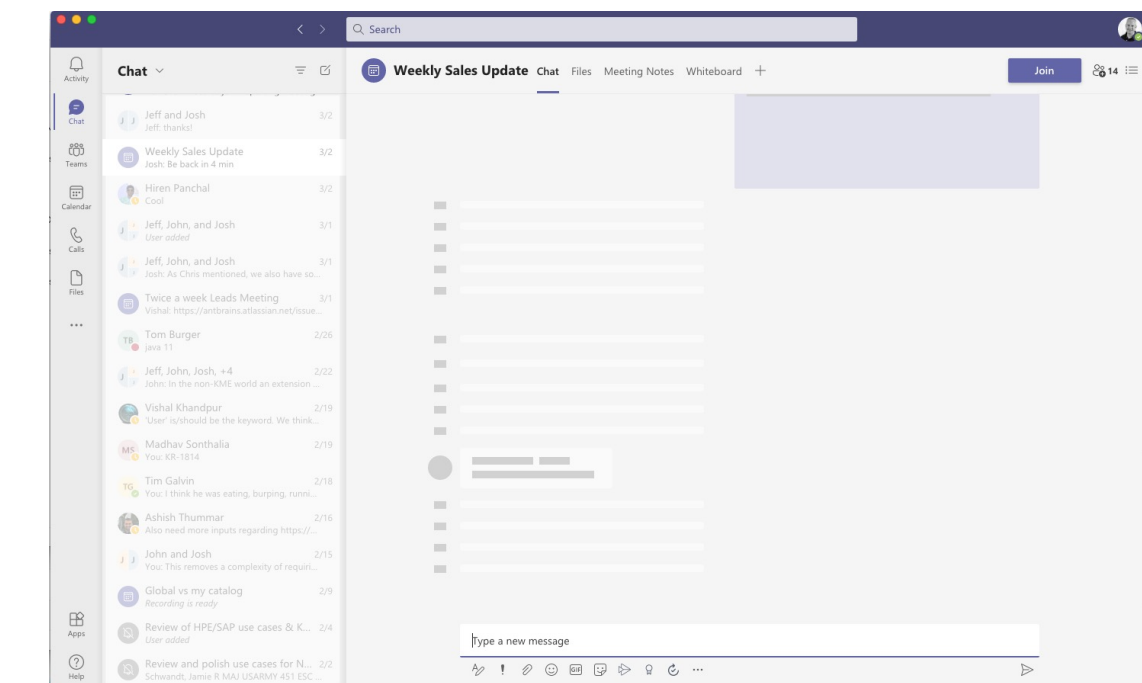
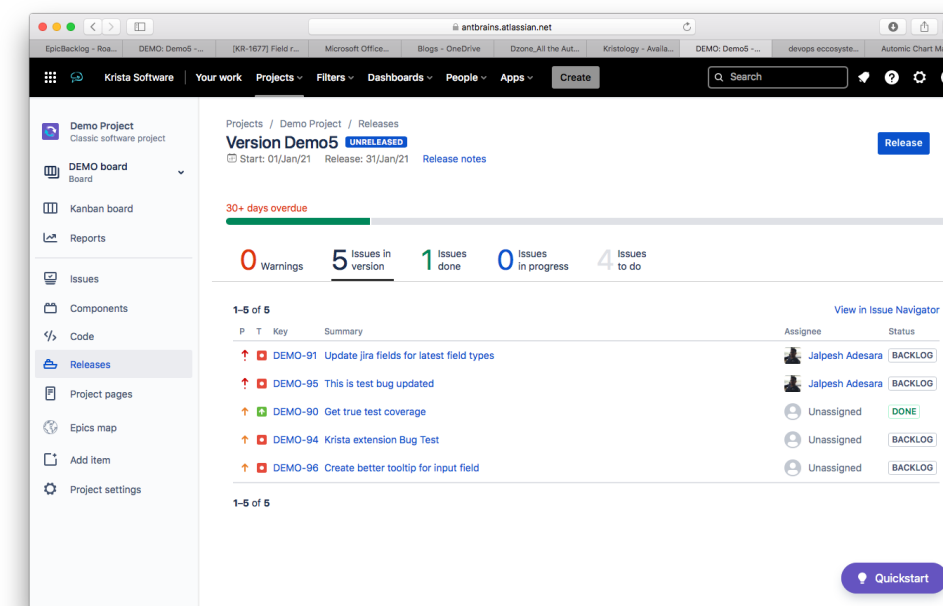
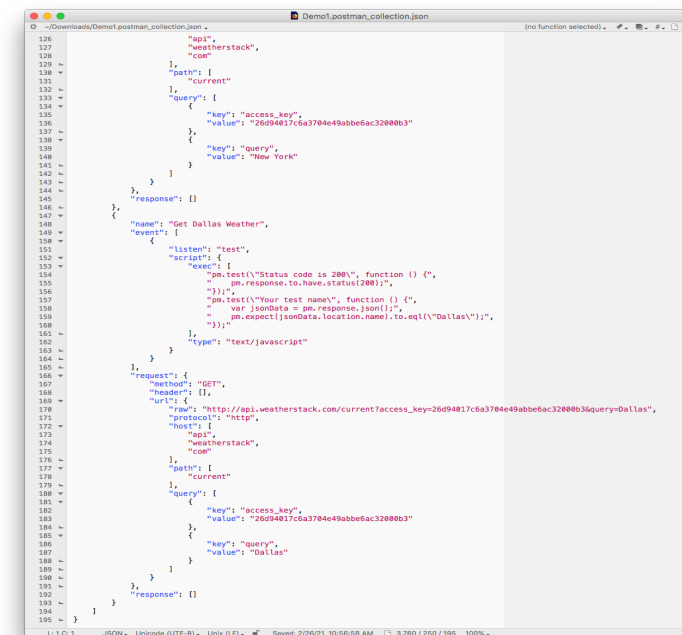
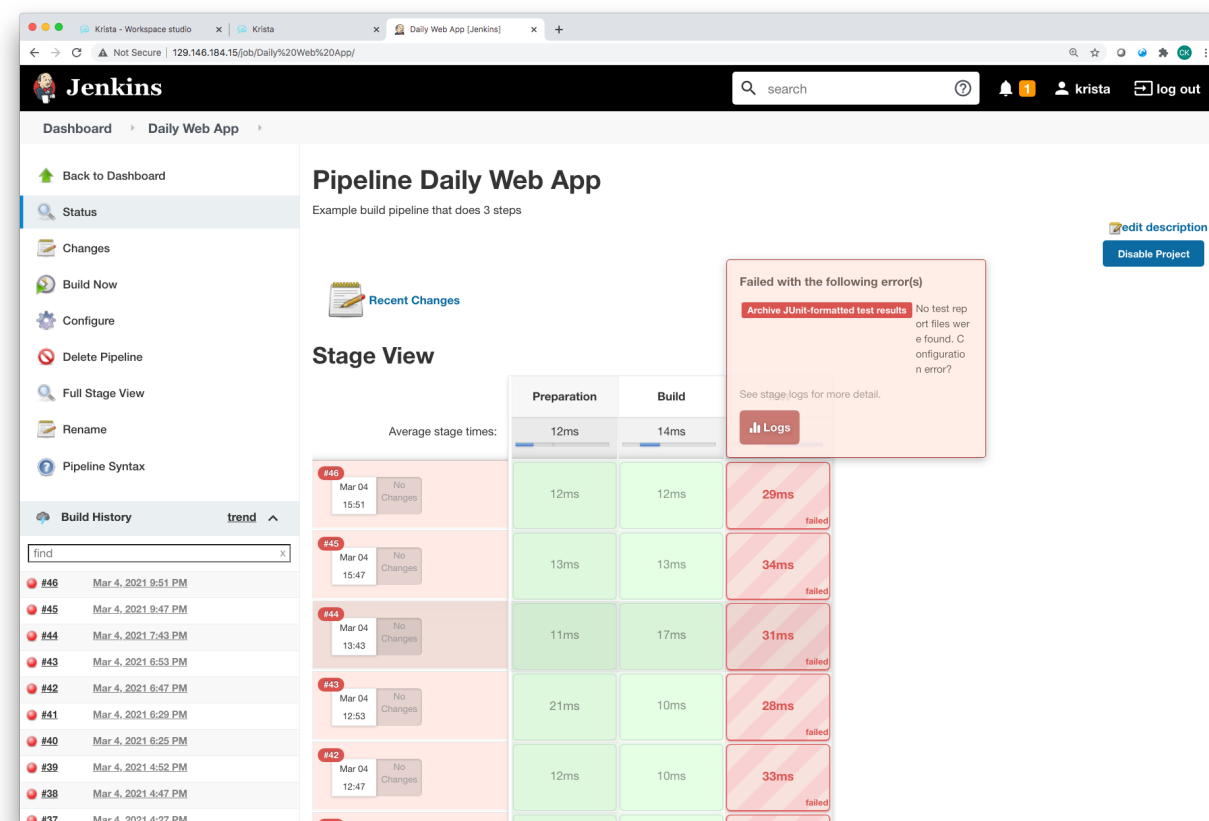
- Get Dallas Weather
  GET http://api.weatherstack.com/current?access_key=26d94817c6a3784e49abbefac32080b36query=Dallas [200 OK, 1.47KB, 411ms]
  ✓ Status code is 200
  ✓ Your test name



|                      | executed | failed |
|----------------------|----------|--------|
| iterations           | 1        | 0      |
| requests             | 2        | 0      |
| test-scripts         | 2        | 0      |
| prerequisite-scripts | 0        | 0      |
| assertions           | 4        | 1      |


total run duration: 786ms
total data received: 1.42KB (approx)
average response time: 356ms (min: 301ms, max: 411ms, s.d.: 55ms)

# failure detail
1. AssertionErr. Verify Location response if for request
   expected 'New York' to deeply equal 'Not New York'
   at assertion:1 in test-script
   inside "Get New York Weather"
    
```



Krista responses are

GoNoResponse

UserName	GoResponse
KRACH03	go
BRAJE01	go

Krista
Do you want to request approval for for push to UAT?

Summary Audit

What's happening

8,640

Conversation Actions

567

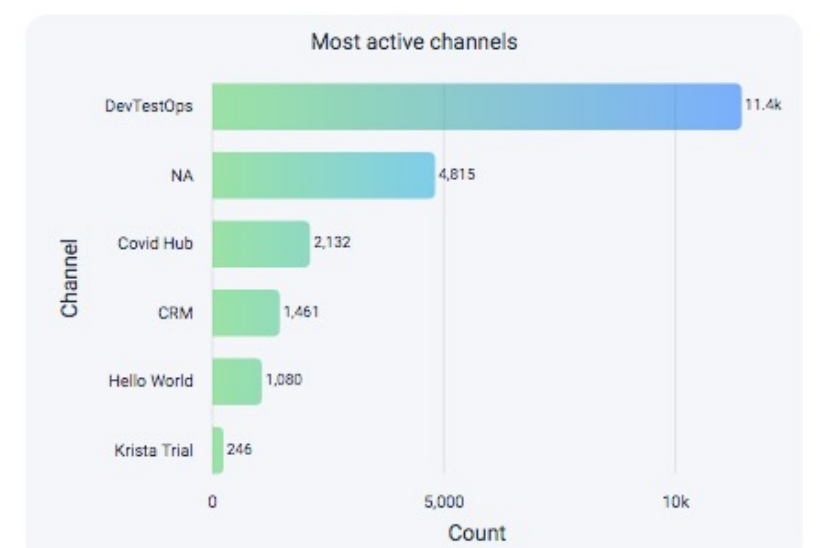
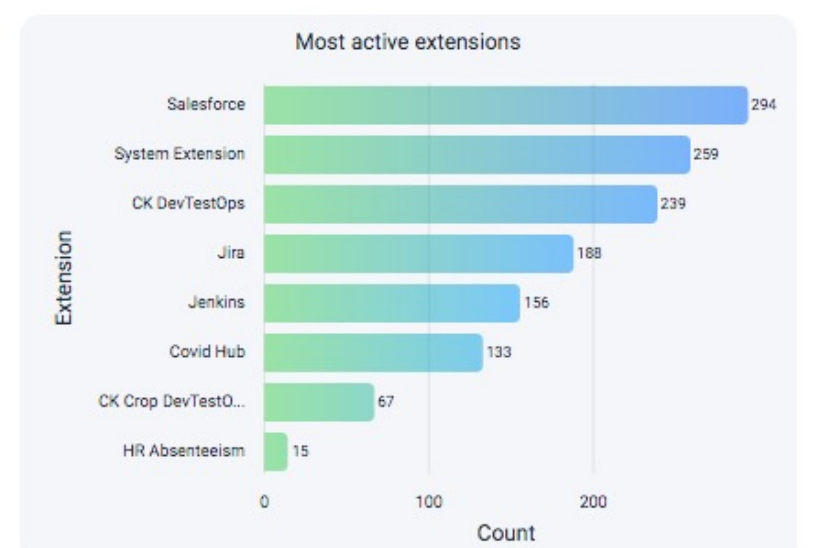
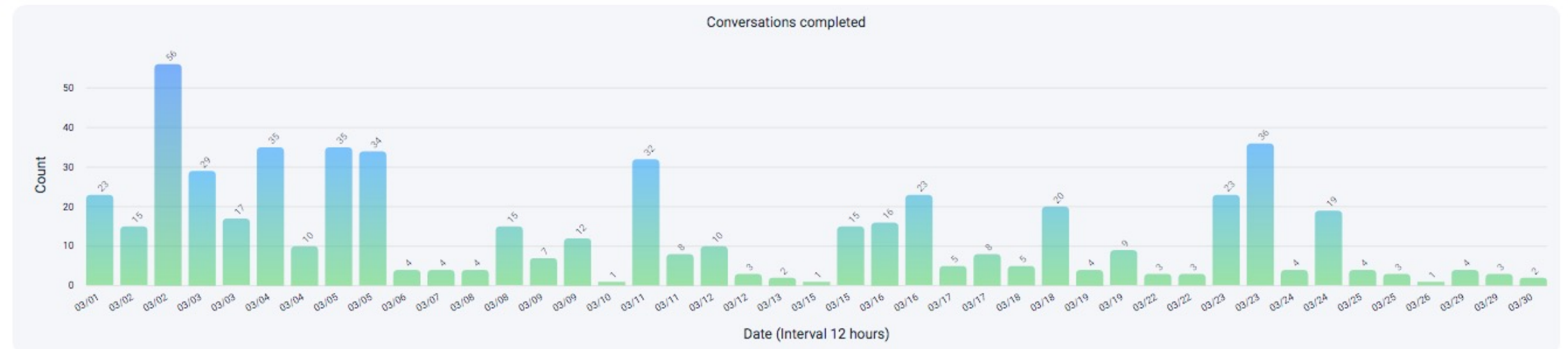
Completed Conversations

16

Active Extensions

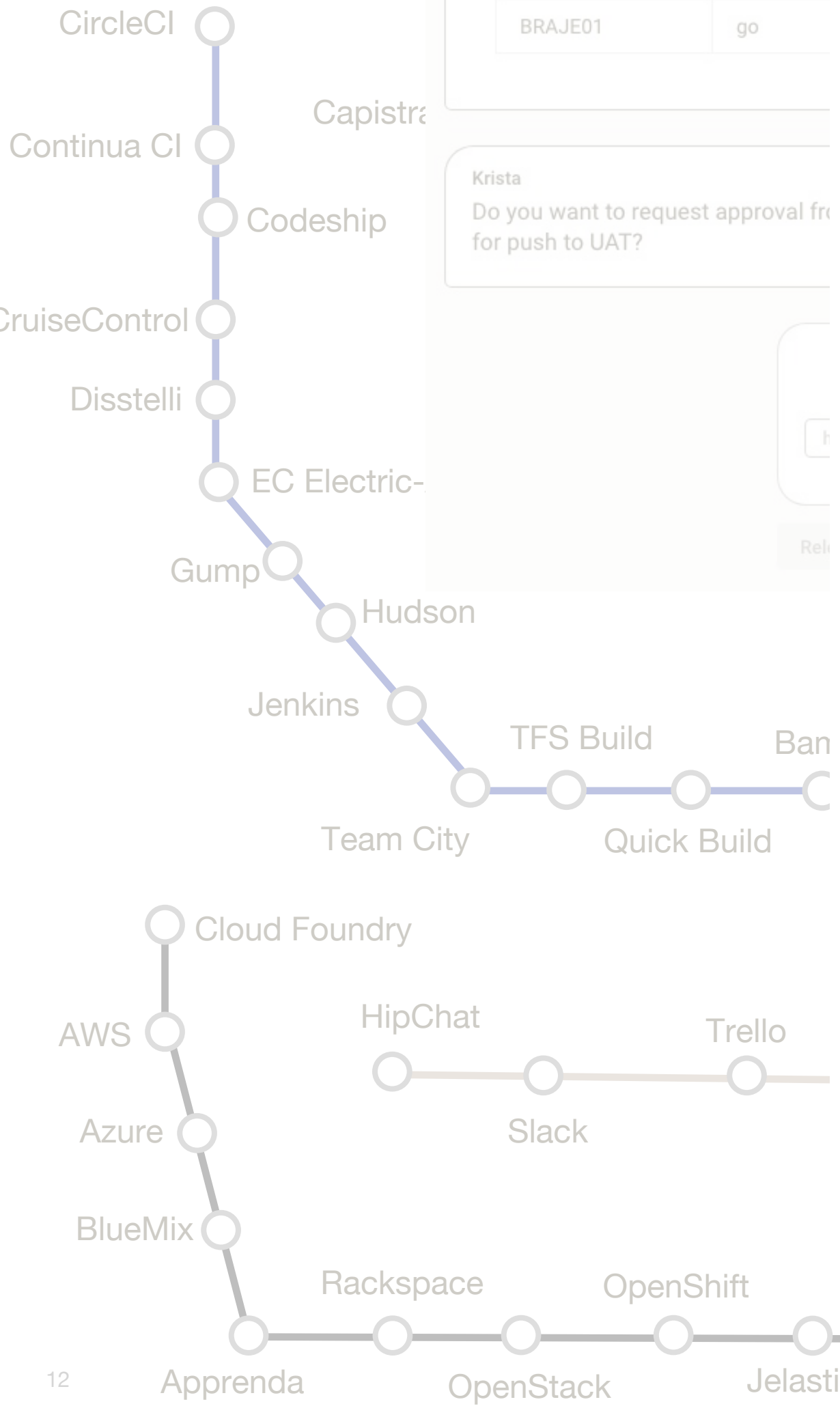
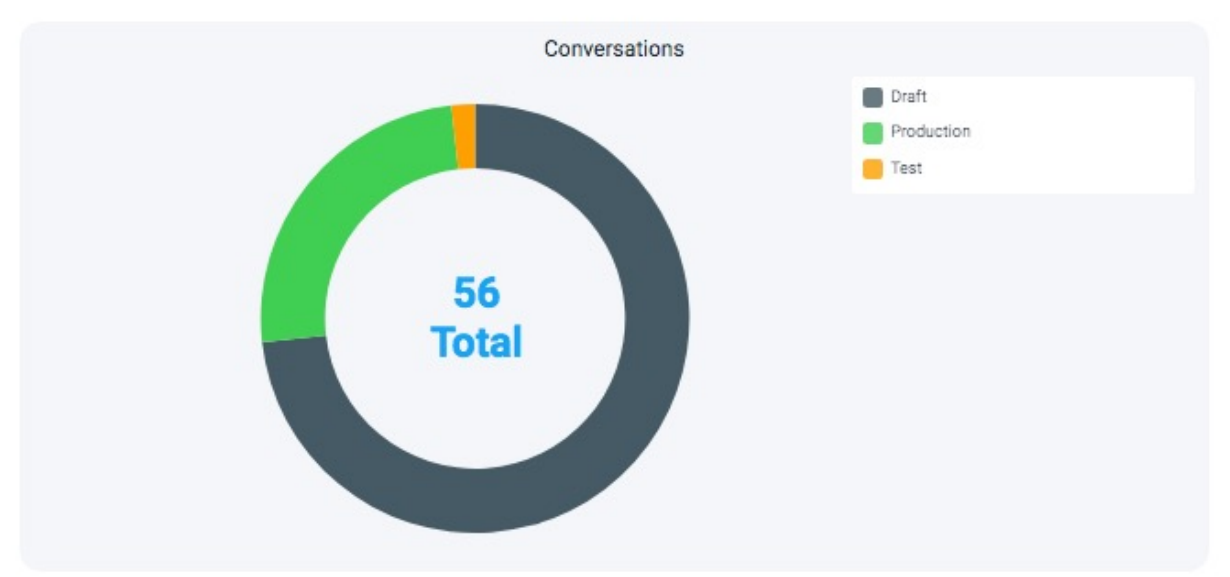
1,351

Extension Requests



Recent activity

- Chris Kraus**
Hello World
Conversation Suspended - SUCCESS
webinar2 9:27 AM
- Chris Kraus**
Hello World
Conversation Message Received - SUCCESS
webinar2 9:27 AM
- Chris Kraus**
Hello World
Conversation Resumed - SUCCESS
webinar2 9:27 AM
- Chris Kraus**
Hello World
Conversation Suspended - SUCCESS
webinar2 9:27 AM



9:24 PM
elected recipes being

9:24 PM
tores.

9:24 PM ✓
Document Store Configured

9:25 PM
ent.

9:25 PM
instance names.

ix
Actifio

Tomcat

MS Test Manager
CA LISA

Chocolatey

Krista™

- MongoDB
- Couchbase
- CouchDB
- DynamoDB
- MarkLogic
- Cassandra Base

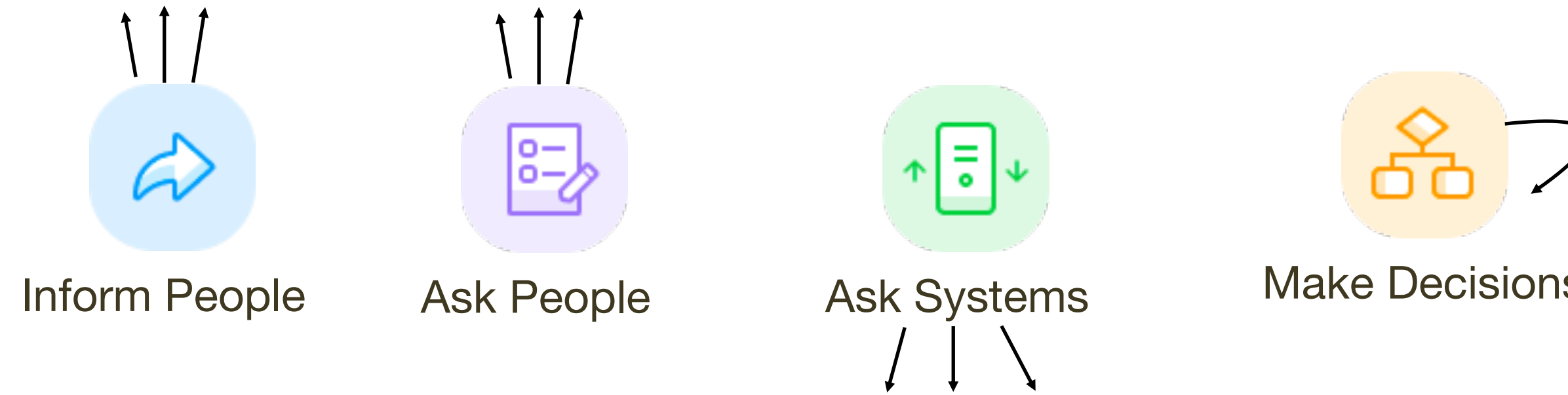
Krista's client interactions



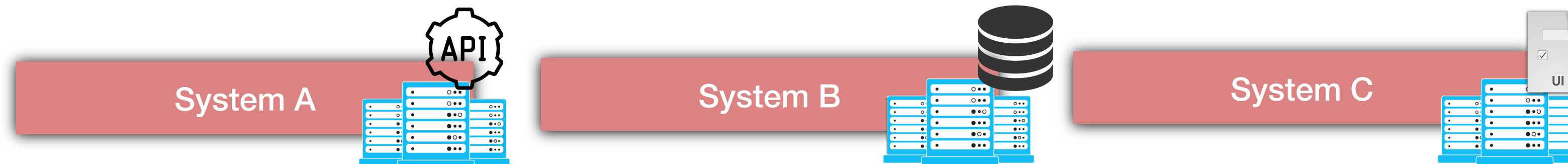
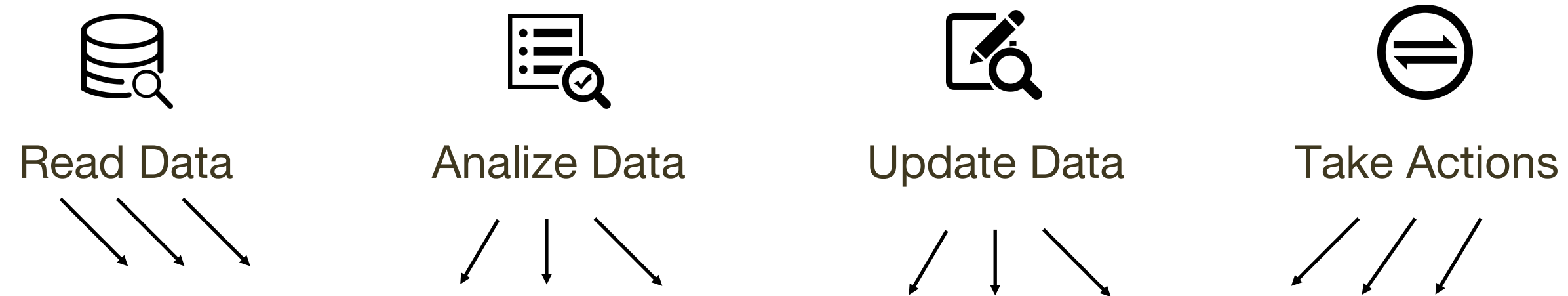
People



Conversations / Processes



Extensions / Information



Human in the Middle

- While we learn to trust the automation
- Work through stability – Trust but Verify
- Change control needs to see history success
- Automate People in manual review, signoff, etc.

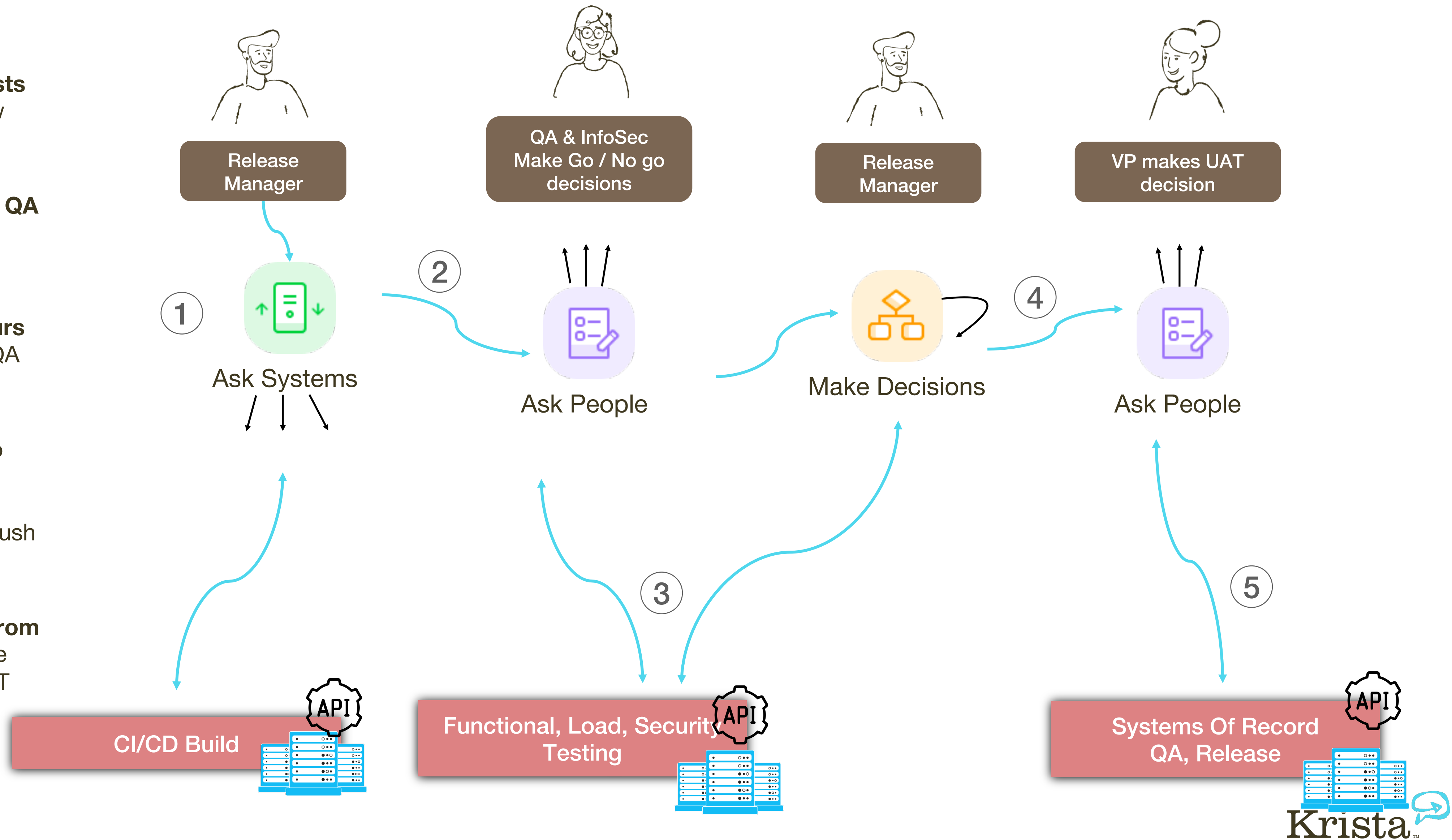
Higher Levels of Automation

- Notifications from automation per role
- Inclusion of humans for specific decisions
- DevOps tooling need to be included in orchestration and strategically people



Krista Orchestrating your DevOps workflow with humans

- 1 **Release Manager requests build** via Krista and review build status
- 2 Release Manager **notifies QA and Infosec** to perform testing
- 3 **QA & InfoSec have 2 hours** to perform validations in QA labs
- 4 QA & InfoSec Go or No go **decision is made.** Release manager then notifies VP of request to push to UAT
- 5 VP reviews **dashboards from multiple systems** to make decision on publish to UAT

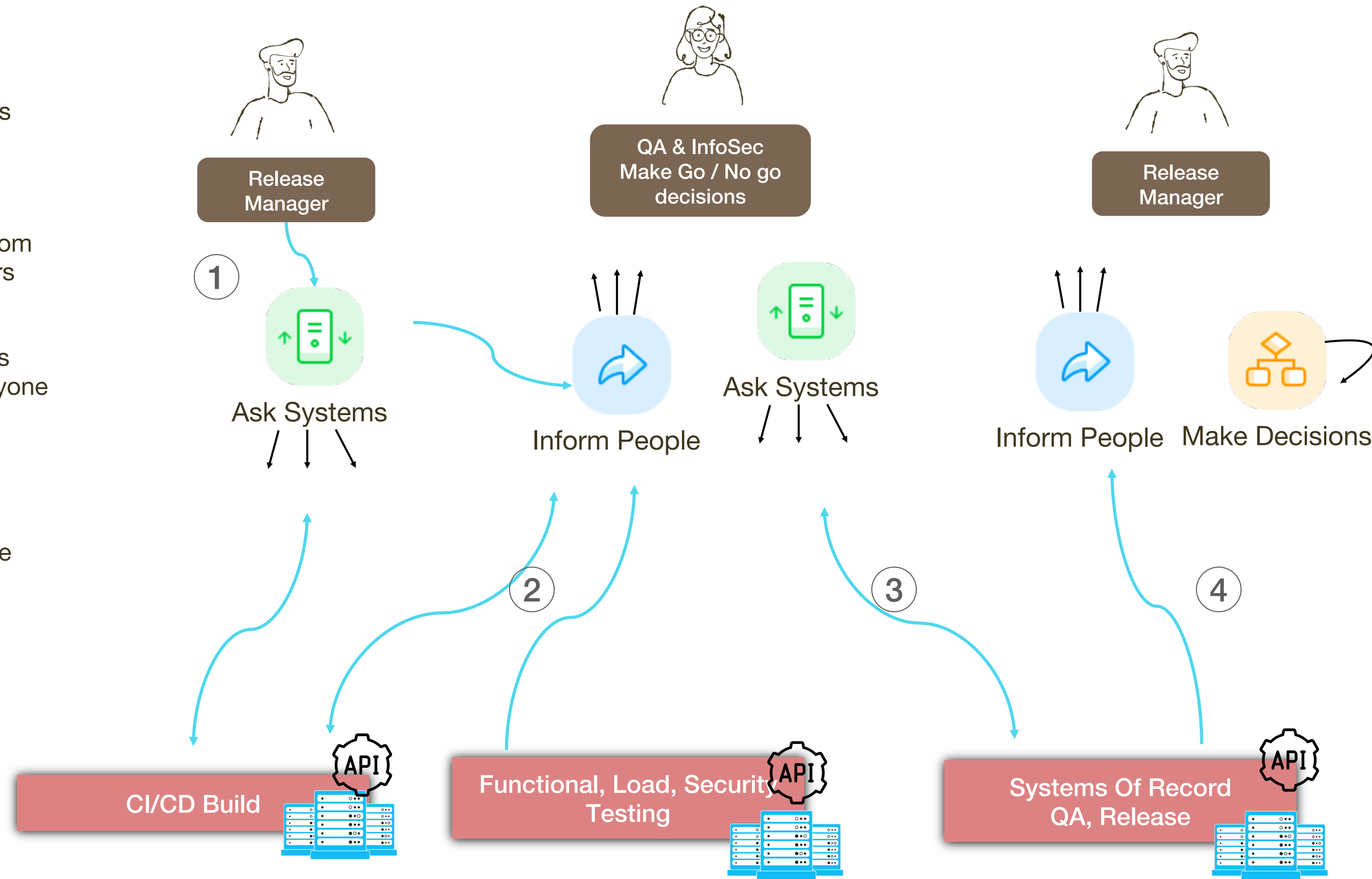




Krista watching and providing notifications

Higher levels of automation with Krista

- 1 Release Manager requests build via Krista
- 2 **Krista provides status** from build steps to stakeholders
- 3 As the pipeline progresses through automation, everyone is informed
- 4 **Final go / no go to UAT decision** based on release status



Human in the Middle

Value of orchestration is the key to higher levels of maturity

- Release manager did not have to understand and go into Jenkins (just make it so)
- Humans are included in the workflow with timers and escalation, so nothing get left out or stalls
- Aggregation of release information from multiple systems. No need for VP to know where and how to use & log into multiple devOps systems for information
- The Release Manager can write this conversation without code or asking development to put on backlog
- Each actor can have a conversation with Krista vs. being trained on different systems

Higher Levels of Automation

- Orchestration is key to moving past maturity 3
- Messaging platforms get you to level 2 and 3
 - But work against you the more people you add
 - Firehose of messages & spending hours keeping up with the threads
- Best of both worlds is Messaging + Krista plugin (ie. Slack) together to cross and attain levels 4 -5
 - Have conversations between specific parties who are stakeholders in a topic
 - Conversations can provide notifications and provide orchestrated actions across multiple systems and roles
 - Business can use Krista client for reporting and conversations
 - Developers stay in Messaging platforms they are used to



Krista

Krista Software is in an unrelenting pursuit to help businesses find the right answers. Krista Software produces Krista, a modern Intelligent Automation platform. Krista empowers businesses to leverage existing IT assets by building low-cost automation applications.

Web: KristaSoft.com

Twitter: [@KristaSoft](https://twitter.com/KristaSoft)

LinkedIn: [/Krista-Software](https://www.linkedin.com/company/Krista-Software)