



Red Hat Day Events

January 30, Vancouver

OpenShift
The Platform for Big Ideas



Red Hat

How to architect a cloud-native and reactive application environment

An Interactive demo session

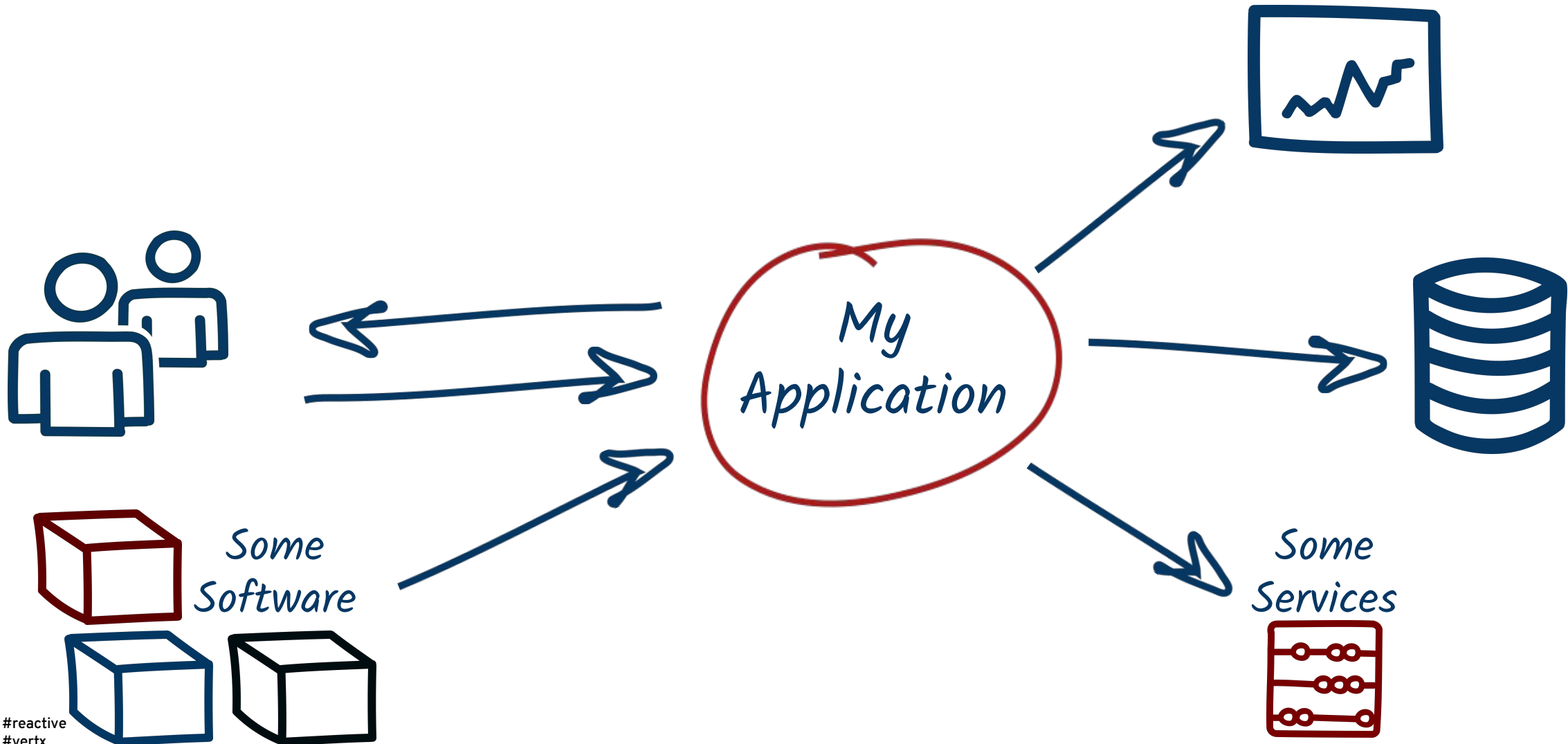
Syed M Shaaf

Sr. Principal Product Marketing Manager

@syshaaf

Mind the step...

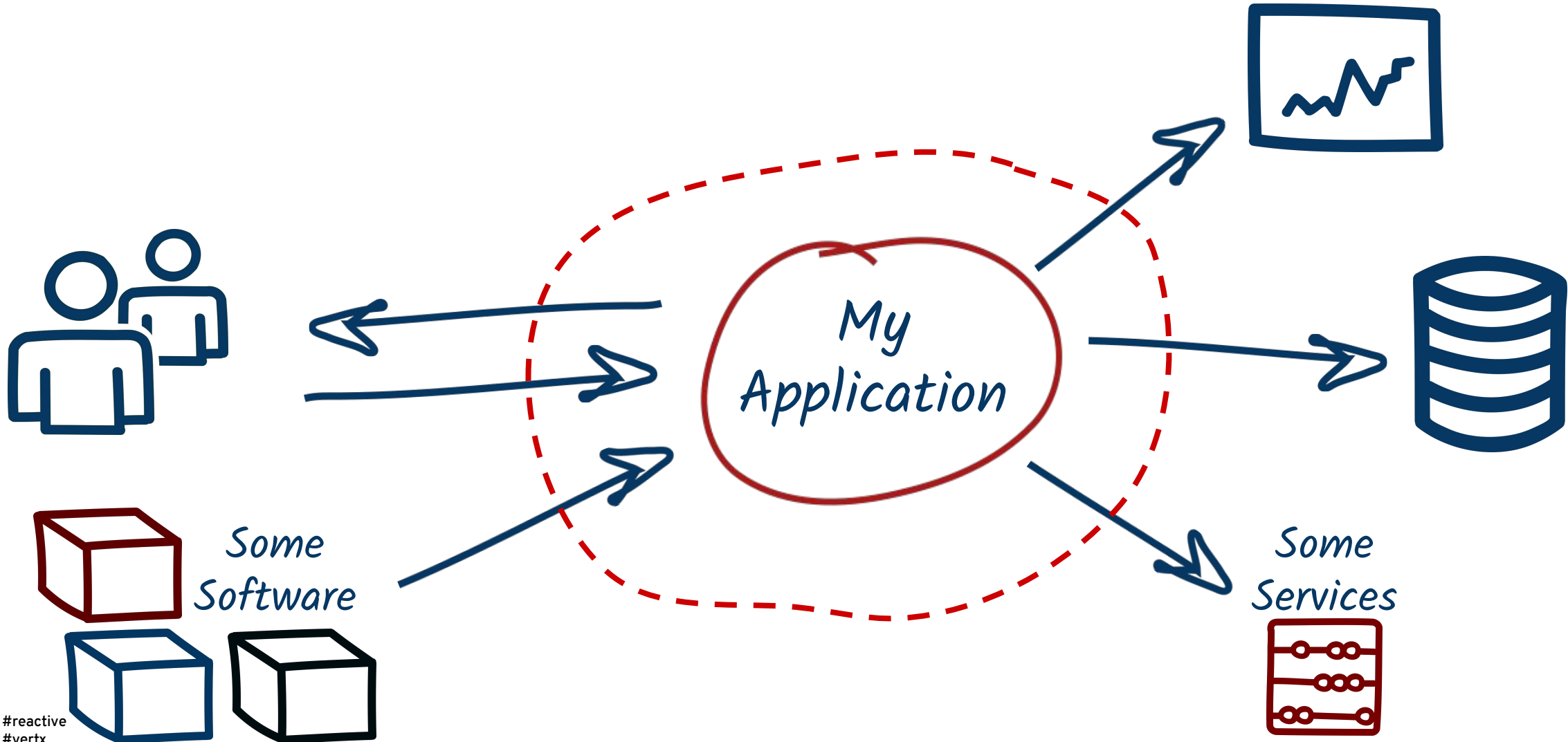
Why my simple application is such a mess...



#reactive
#vertx
#quarkus

Modern software is distributed...

CONFIDENTIAL designator

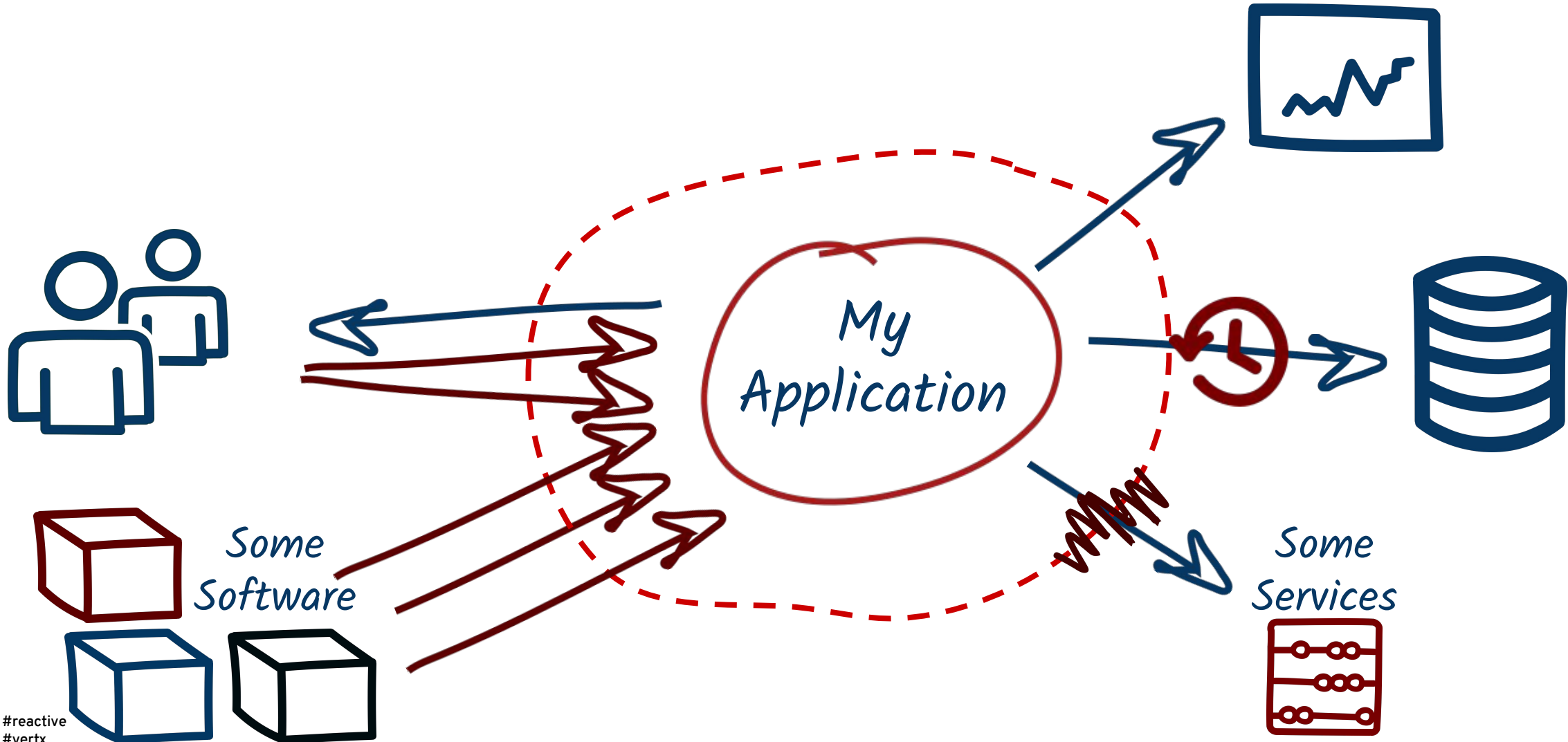


#reactive
#vertx
#quarkus

V0000000

Modern software is distributed...

CONFIDENTIAL designator

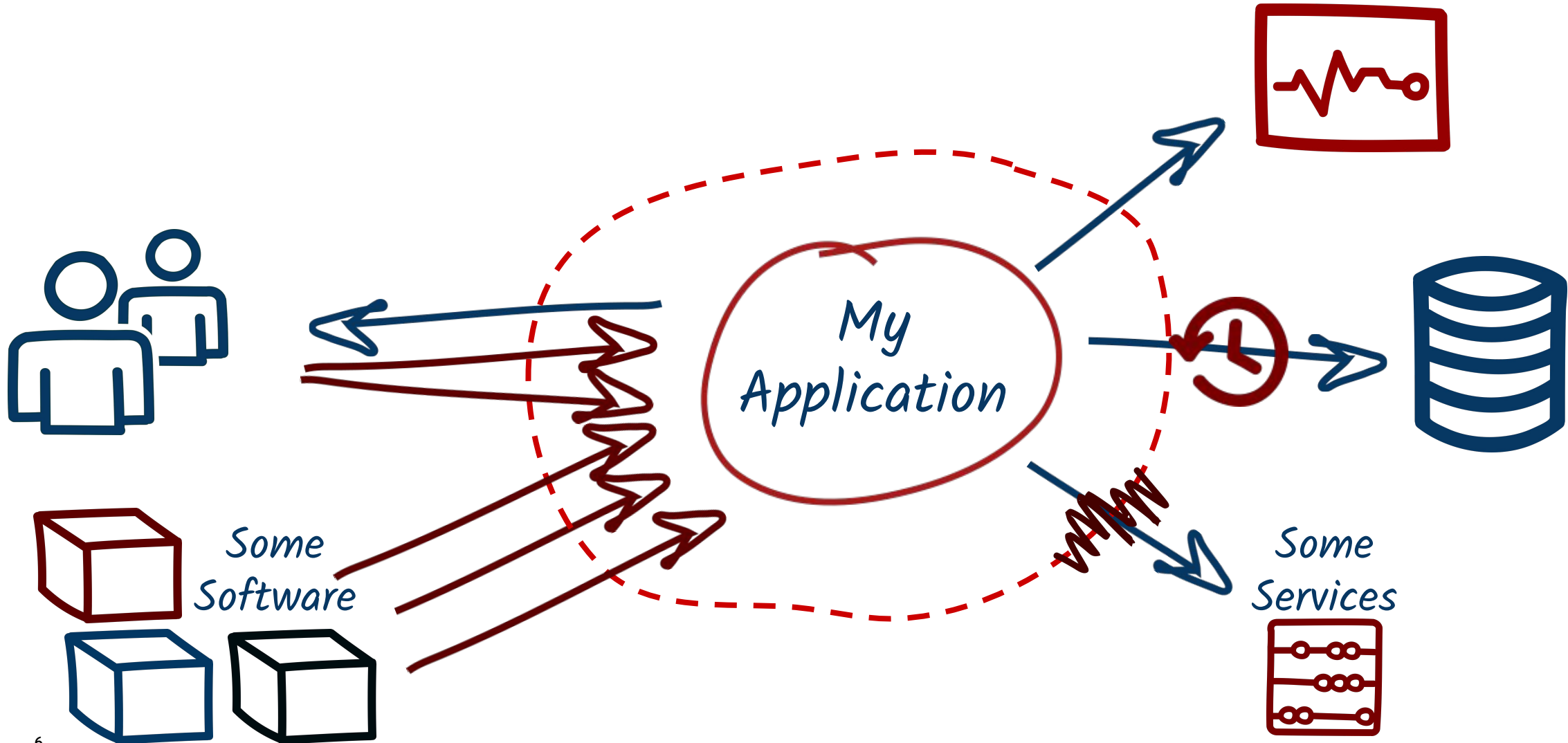


#reactive
#vertx
#quarkus

V0000000

Distributed systems fail

How to stay responsive in face of failures, under varying workload



JUST THE EVOLUTION OF SOFTWARE

CONFIDENTIAL designator

Distributed

*Massively
distributed*

*Dynamic
Environment*

Users

*No
Downtime*

Reply fast

Push vs. Pull

Data

*Increasing
amount of data*

Data in motion

Data Rivers

SOME USE CASES

CONFIDENTIAL designator

Edge

*High
Concurrency*

*Orchestration
of backend
services*

Interactive

*Bi-Directional
communication*

Push-first

Data

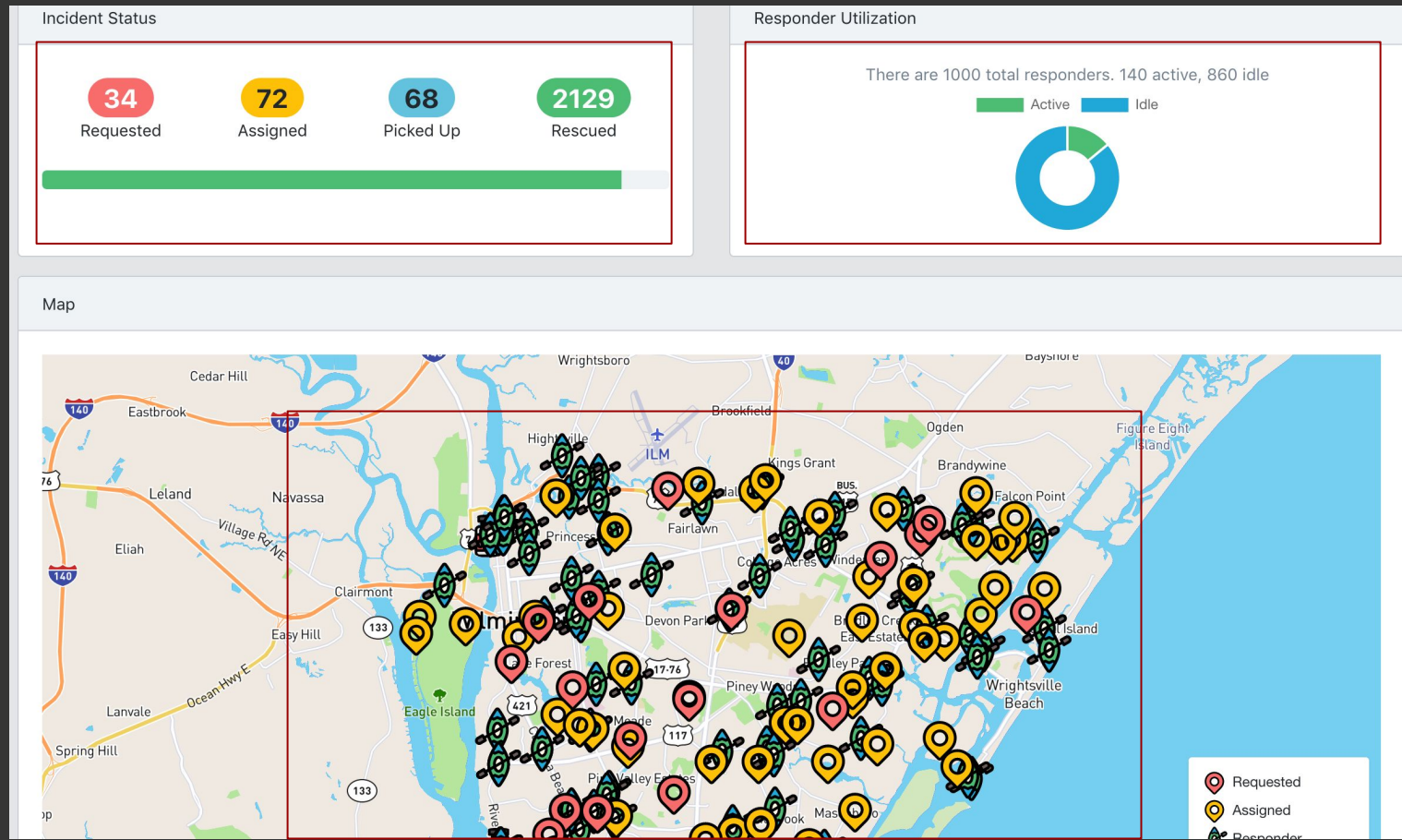
*Process data on
the fly*

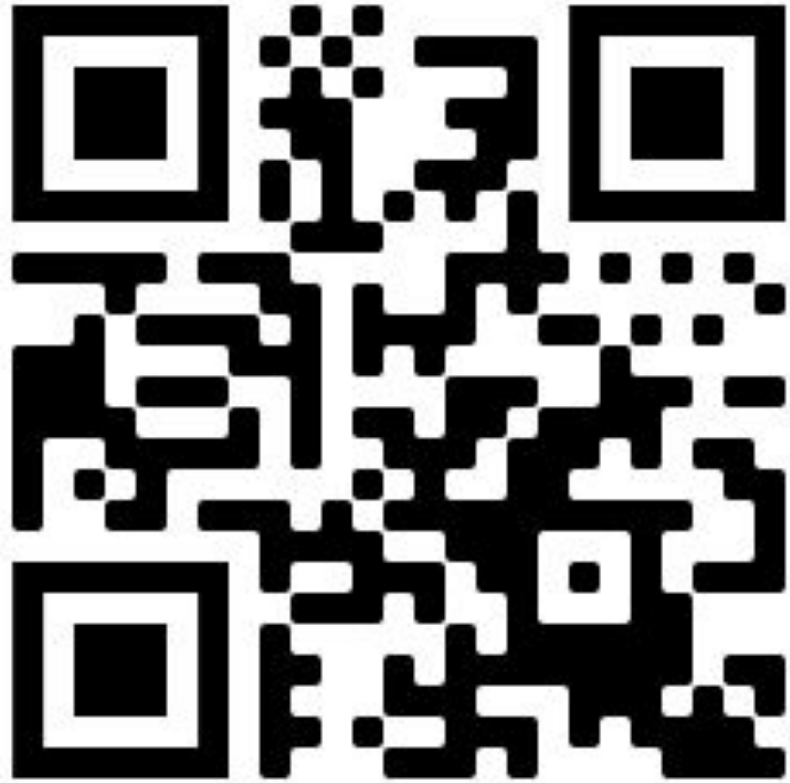
*React on data
changes*



- Community-Powered Disaster Response Solution
- Inspired by the Cajun Navy response from Hurricane Harvey
- As people are stranded need help, responders want to help
- We want to make it easy to engage the community to organize people who can help out
- Want to make it easy to engage the community that needs help

Live events, reactive services



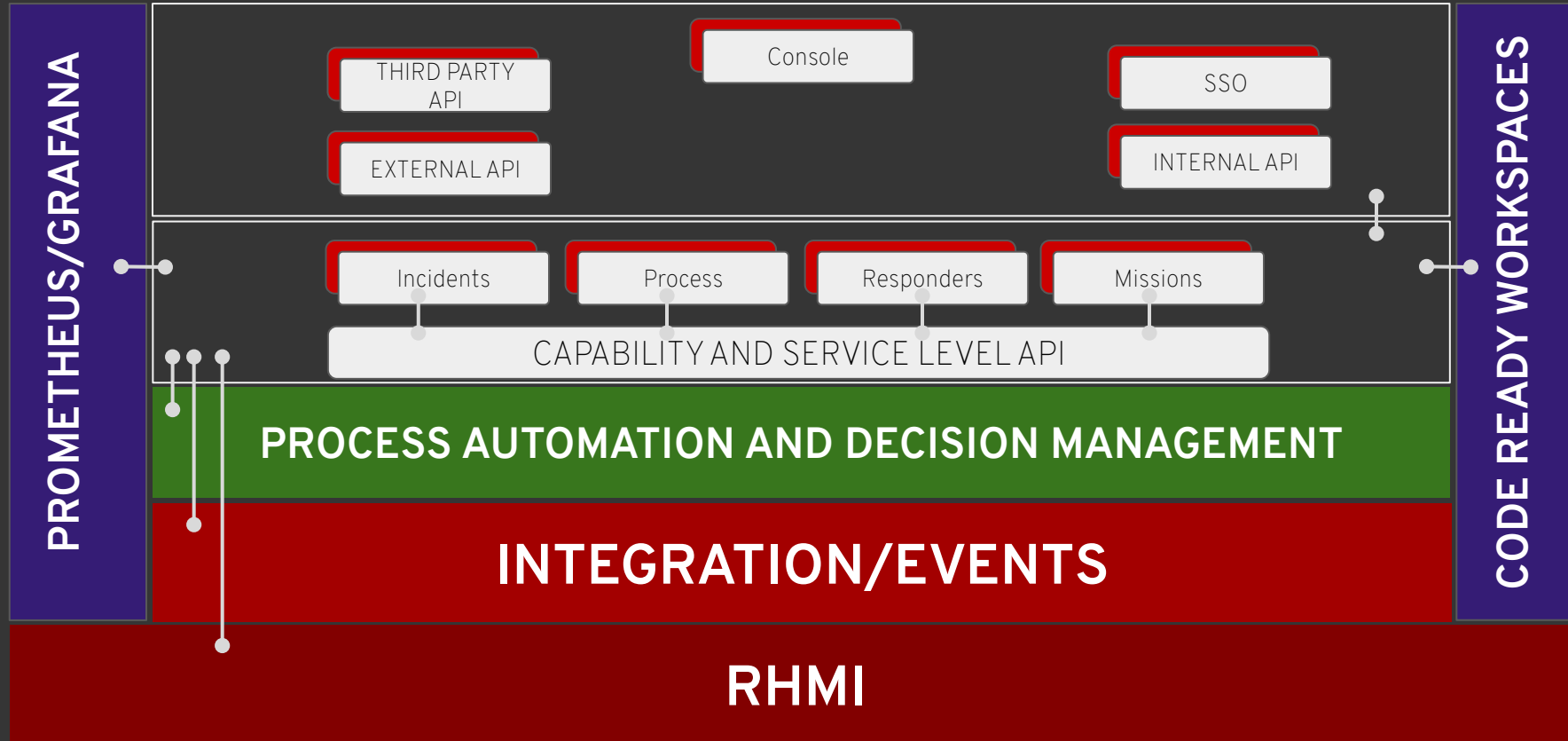


<http://bit.ly/erdemo-vancouver>

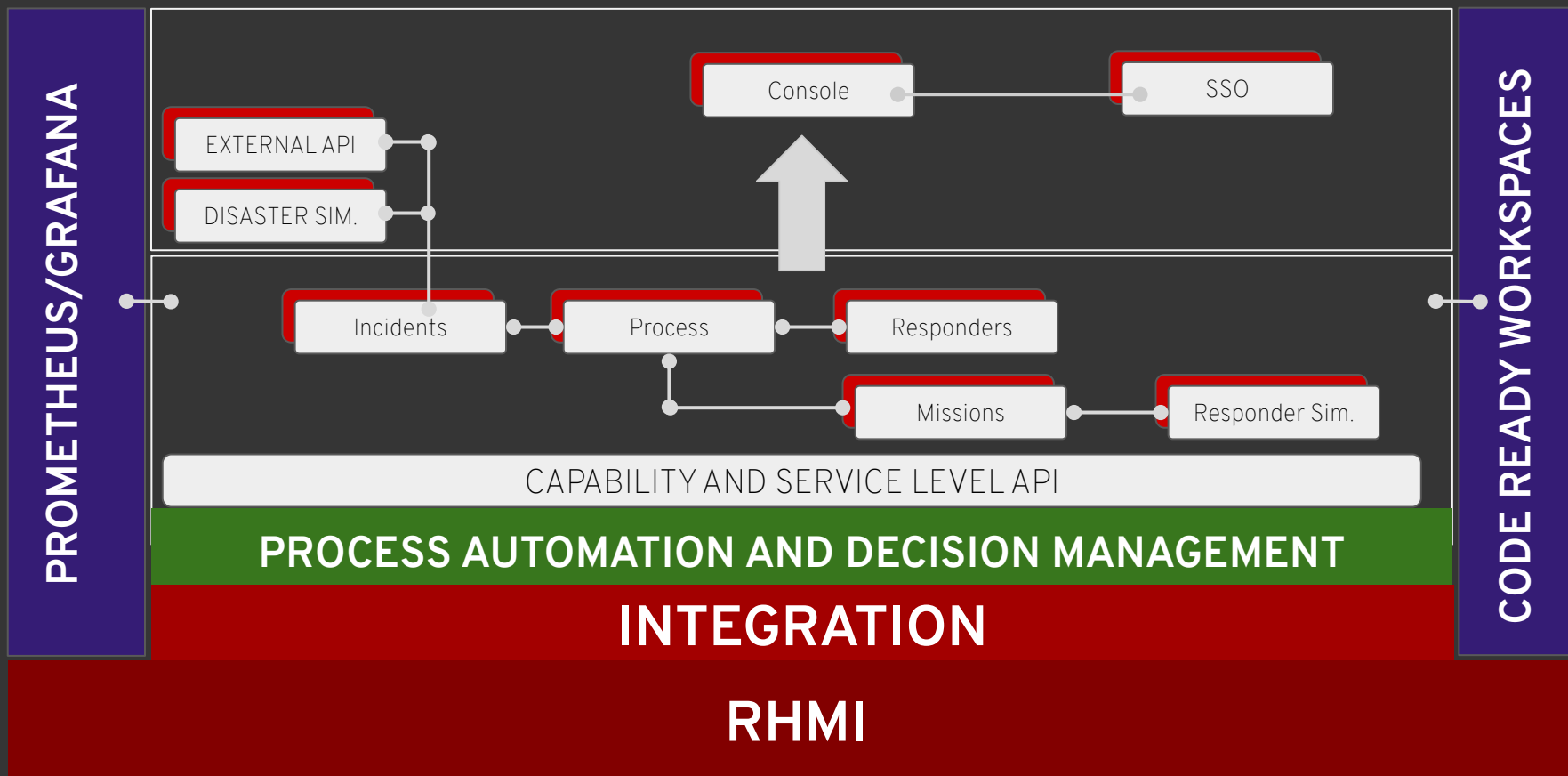
DEMO

- Community-Powered Disaster Response Solution
- Inspired by the Cajun Navy response from Hurricane Harvey
- As people are stranded need help, responders want to help
- We want to make it easy to engage the community to organize people who can help out
- Want to make it easy to engage the community that needs help

Defining capabilities



Flow of Events



Requirements for a new application



CONTAINER CAPABILITIES



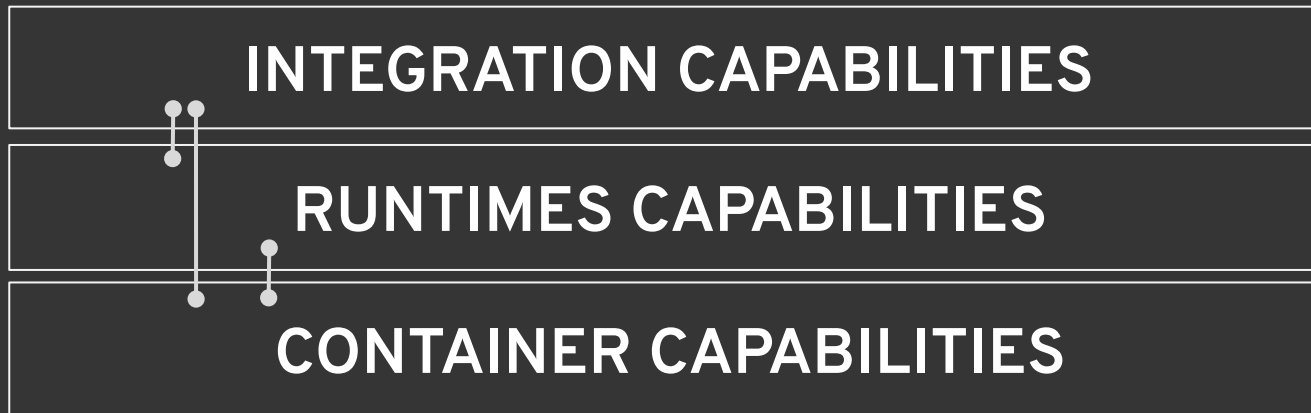
OPERATOR
LIFECYCLE MANAGER



Requirements for a new application



Requirements for a new application



Red Hat
Fuse

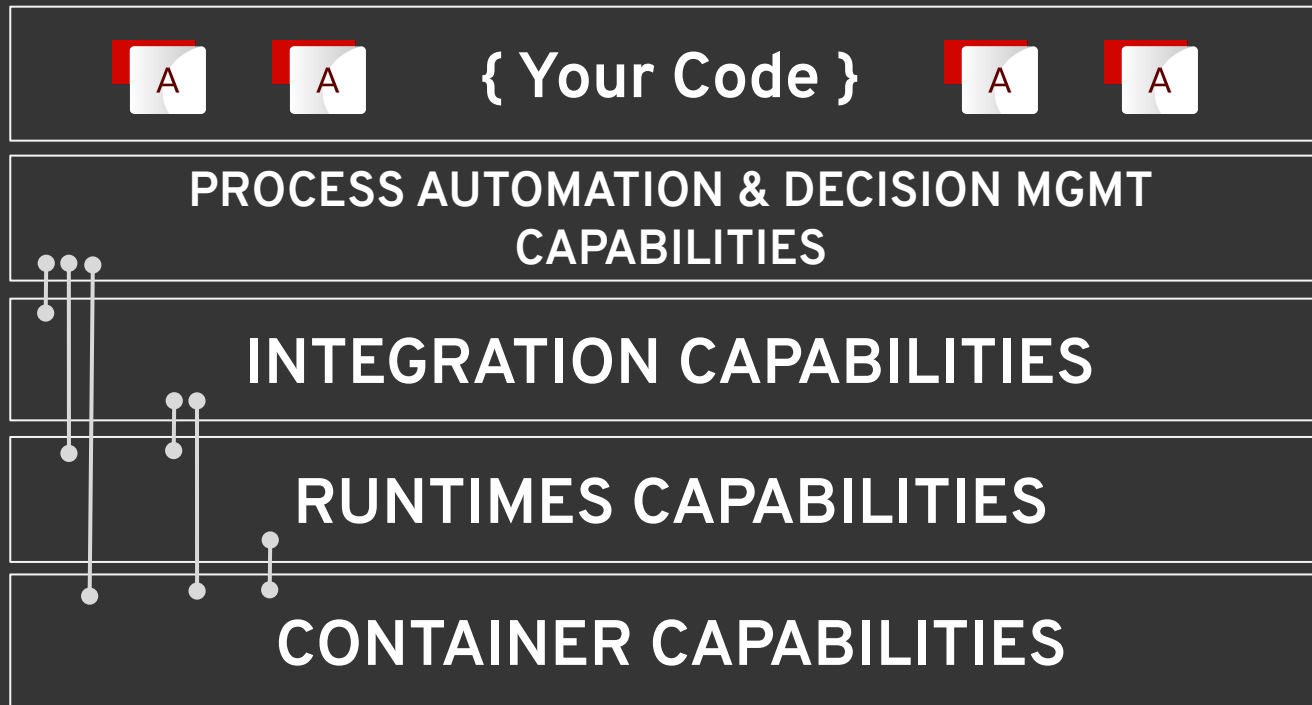


Red Hat
AMQ



Red Hat
3scale API
Management

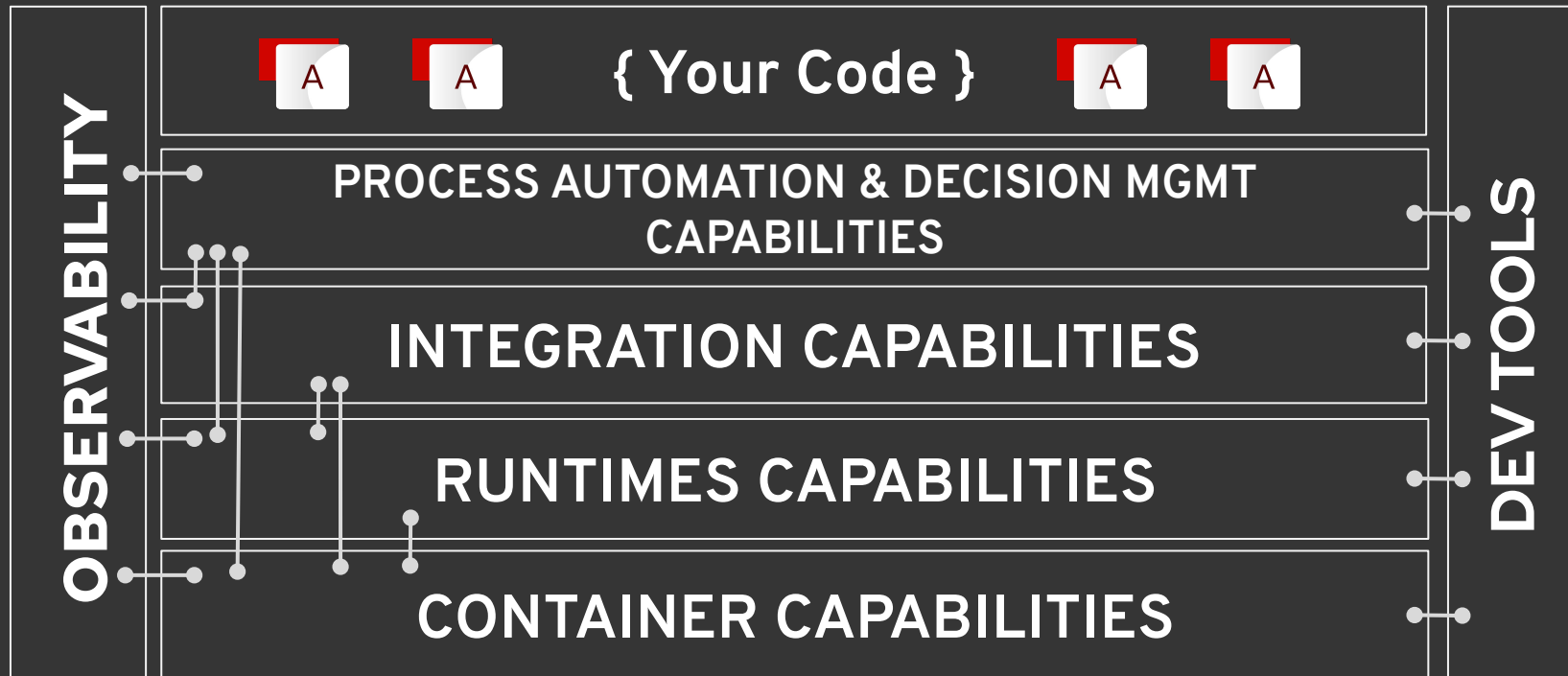
Requirements for a new application



 **Red Hat**
Decision
Manager

 **Red Hat**
Process
Automation

Requirements for a new application



RED HAT®
CODEREADY

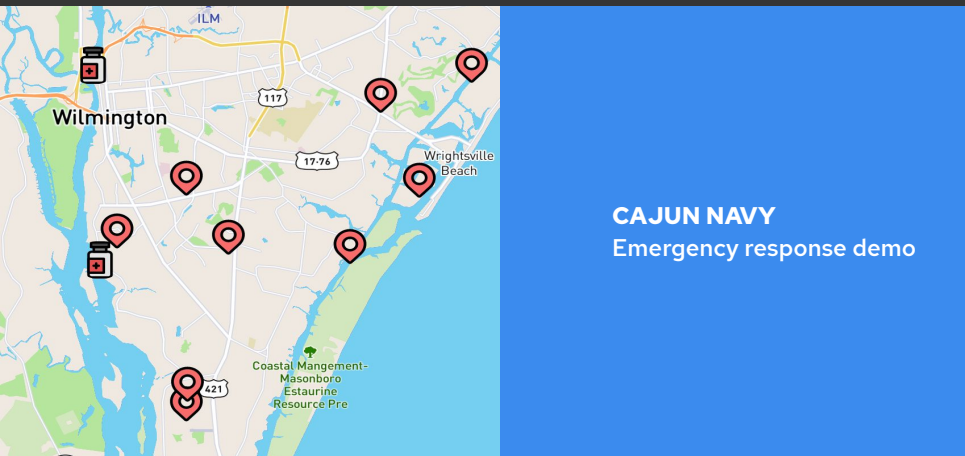
 **RED HAT®**
DEVELOPER

 **OPERATOR**
LIFECYCLE MANAGER

 elasticsearch  kibana

 Prometheus  Grafana

Resources



- More info: www.erdemo.io
- **PRs are welcomed!**
Github:
<https://github.com/Emergency-Response-Demo>
- Red Hat Developers -
<https://developers.redhat.com>
- Red Hat Middleware -
<https://www.redhat.com/en/products/middleware>

Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

 [linkedin.com/company/red-hat](https://www.linkedin.com/company/red-hat)

 [youtube.com/user/RedHatVideos](https://www.youtube.com/user/RedHatVideos)

 [facebook.com/redhatinc](https://www.facebook.com/redhatinc)

 twitter.com/RedHat



Red Hat Day Events

January 30, Vancouver

OpenShift
The Platform for Big Ideas



Red Hat