



# IT MODERNIZATION STRATEGIES

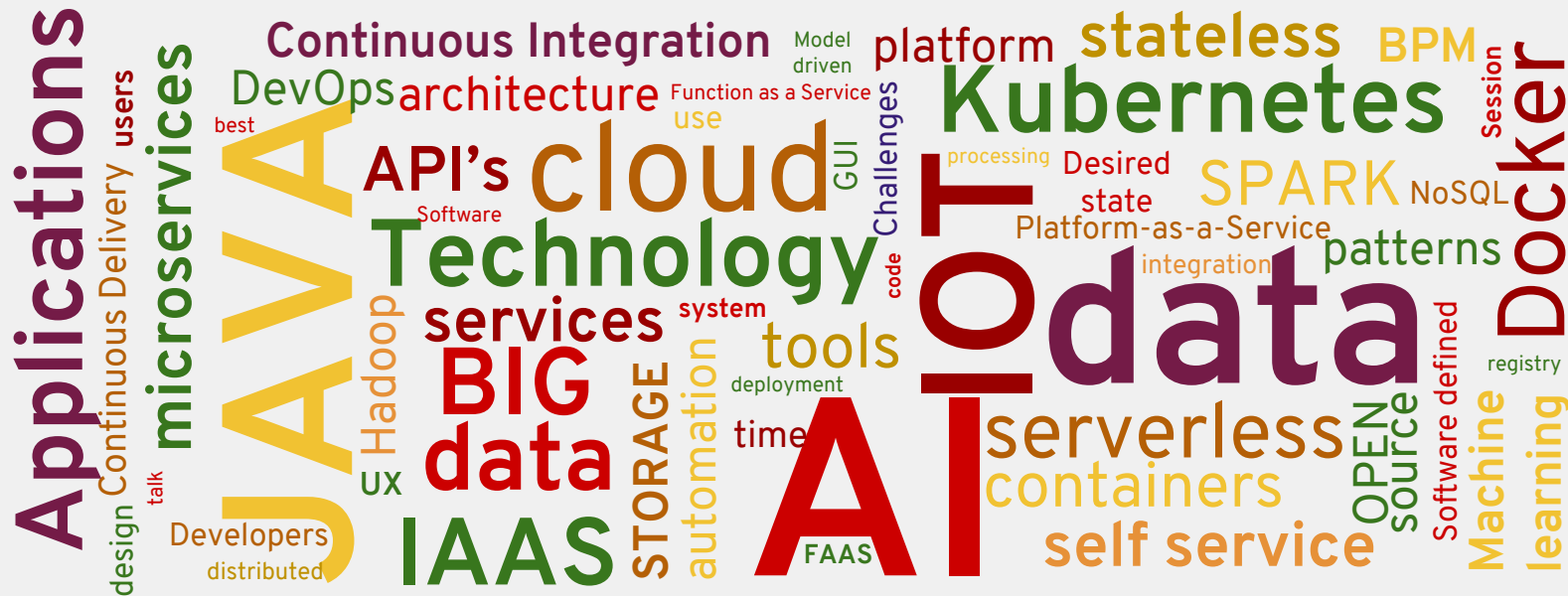
Taking it one step at a time

Roel Hodzelmans - Solution Architect  
Wilco Riemersma - Key Account Manager

October 3<sup>rd</sup>, Red Hat Forum Breda

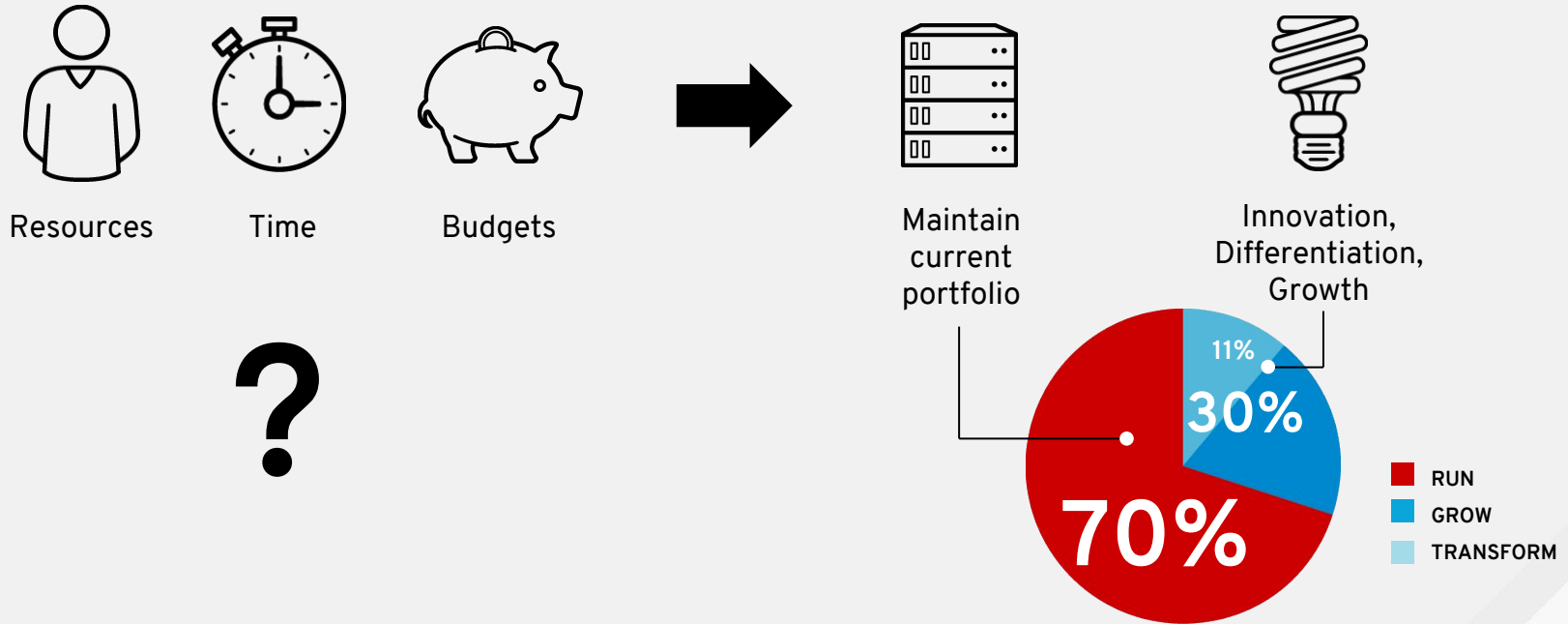
# IT'S COOL TO TALK ABOUT...

ISN'T IT?



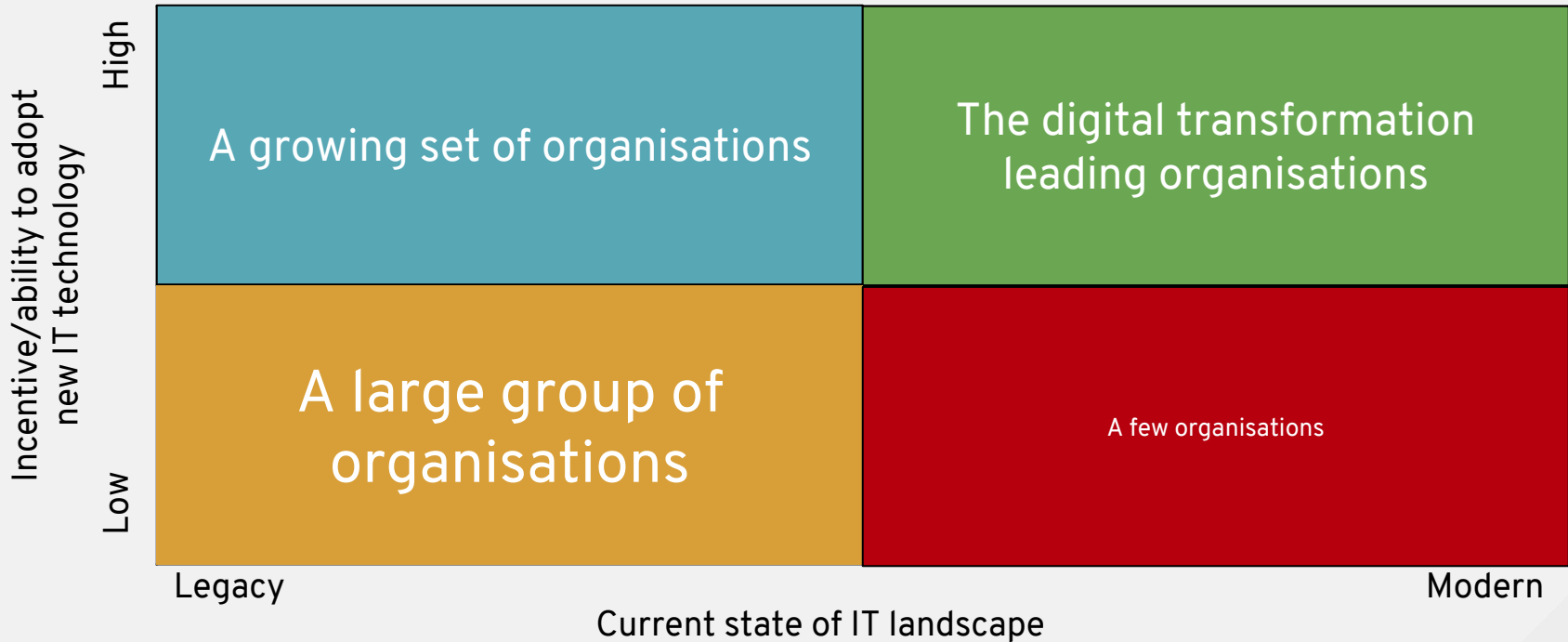
# THE CIO DILEMMA

BUSINESS EXPECTATIONS BECOME IT CHALLENGES



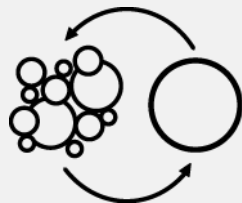
# LET'S DO A REALITY CHECK

WHAT'S THE ACTUAL STATE YOUR COMPANIES IT IS IN, IN REAL LIFE?



# BARRIERS TO CHANGE

ANTIQUATED: PEOPLE, PROCESS, TECHNOLOGIES



Industry disruptors either ...

- ... are **greenfield** and do not have legacy challenges.
- ... have **re-tooled** to be competitive in the current landscape.

# HOW TO BECOME BETTER AND FASTER?

THERE ARE FOUR MAIN AREAS TO ENABLE CHANGE

## BUDGET

Change the run-change balance

Move away from legacy  
platforms

Introduce cost-effective  
alternatives

## TIME

Get out of the daily grind

Automate repeating manual  
tasks

Create a separate team to take  
care of the innovation

Rationalise

## SKILLS

Adopt new way of working

Train

Mentor

Coach

Hire

## VISION

Shift the paradigm

IT is value, not cost

IT is change enabler

Take bold decisions

Take a risk

# 4 MODERN APPLICATION CONCEPTS

ENHANCING APPLICATIONS, PLATFORM & PROCESSES

## BETTER SOFTWARE ARCHITECTURE

Future-proof applications

- Modularize
- Adopt standards
- Reuse instead of reinvent
- Clean technical debt & risk

## AGILE INTEGRATION

Bridge old and new

- Decouple, expose & integrate APIs, services & applications
- Need hybrid-cloud-enabled integration platform

## STREAMLINE APPLICATION LIFECYCLE

Speed up your business

- Accelerate time from idea to production
- Continuous Integration & Delivery (CI/CD)
- Automation & self-service
- Container technology

## CONTINUOUS INNOVATION

Foster an agile culture

- Agile methodology
- DevOps principles
- Collaboration

# BETTER SOF

FUTU

## ASSESSMENT

When is this pathway applicable?

High cost legacy middleware

Technical debt

Need for modern technology

Slow application delivery

Demand for continuity

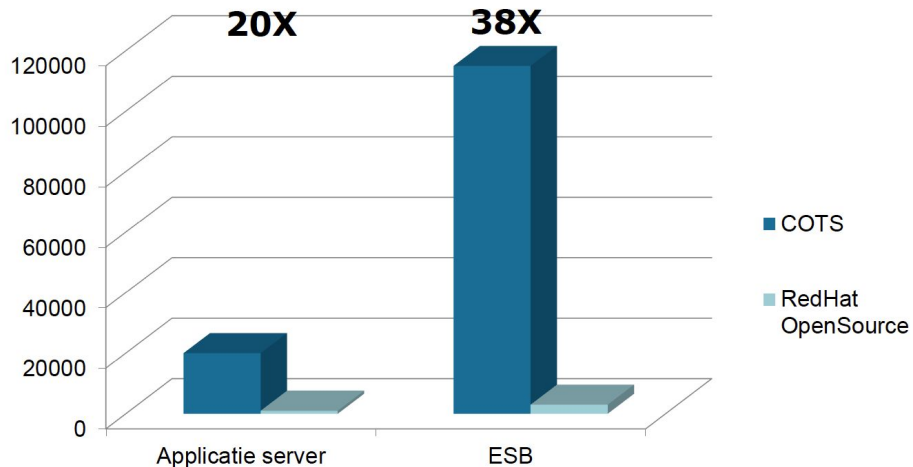
## USE CA

Who did this



Dienst Uitvoering Onderwijs  
Ministerie van Onderwijs, Cultuur en  
Wetenschap

Financiële schaalbaarheid: 2 cores extra



24

15 oktober 2015, Van 6 weken naar 6 minuten met OpenSource

Replaced Windows with RHEL

100% automation self-service  
(6 weeks to 6 minutes)

Saving **66%** OPEX

Application Modernization and  
Migration service offering

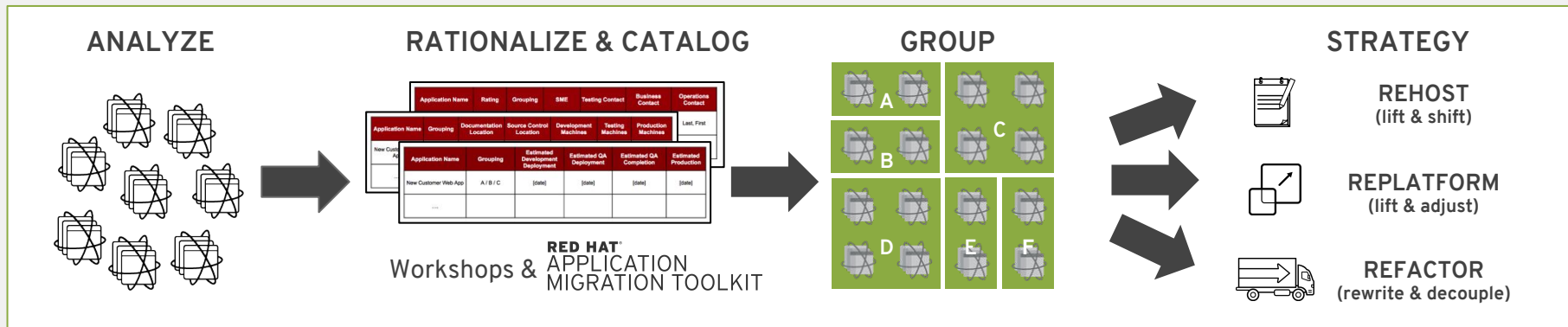


# APPLICATION MODERNIZATION & MIGRATION

ITERATIVE, MANAGED SERVICE, FACTORY SCALE UP.



Typical duration



# AGILE BRIDGE

## ASSESSMENT

When is this pathway applicable?

High cost of legacy (Sonic MQ) integration middleware

Need for Agile (API-based) integration

Keep legacy apps and build on top of that

## USE CASE

Who did this before



## Explore our APIs to see how they add value



### Flight API

A wealth of information on current and scheduled flights to and from the airport.

[How our flight API works →](#)



### Operational Flight API

Additional operational information on current and scheduled flights to and from the airport.

[How our Operational Flight API works →](#)



### Wait Times API

Predicted wait times for various locations where queues might arise.

[How our Wait Times API works →](#)



### Wayfinding API

Relevant information on routes and POIs at the airport, for travellers, airlines, floor managers and other staff.

[How our Wayfinding API works →](#)



### Boarding Pass Service

Provides airlines direct information about the number of passengers who successfully scanned their boarding pass at the security filter.

[How our Boarding Pass Service works →](#)



### Beacon Registry API

Provides details about the many crowd control beacons hanging all over the terminal buildings.

[How our Beacon Registry API works →](#)

# THE OPPORTUNITY AHEAD

STANDARDIZE AND ACCELERATE BUSINESS VALUE THROUGH API-BASED INTEGRATION



Fragmented efforts



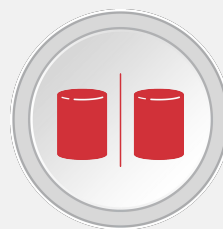
API Centric -  
Integration



Monolithic apps



AGILITY



Siloed applications



EFFICIENCY



No link to business value



INSIGHT

# STREAMLINE

## ASSESSMENT

When is this pathway applicable?

Need for faster delivery

Need for developer self service

Multi tenancy

(Hybrid/Multi) Cloud

## USE CASE

Who did the work?

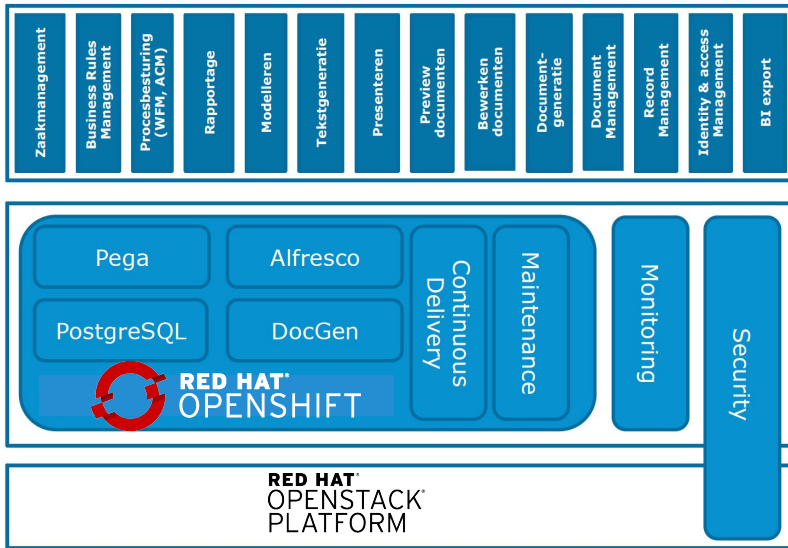


Dienst ICT Ministerie v

PaaS (= Platform as a Service)

## Multitenant platform

(Multidisciplinary team with product knowledge)



management  
Reduced HW cost

Functionality and Interfaces

Standard Solution and Middleware

Infrastructure

# THE CONTAINER ADOPTION PROGRAM

AN APPROACH TO GET REAL VALUE OUT OF CONTAINERS

## Program Objectives

- ✓ Drive app dev self-service
- ✓ Improve time-to-market
- ✓ Reduce cost to operate
- ✓ Increase security
- ✓ Improve reliability
- ✓ Delight stakeholders

## PILOT



A meaningful workload runs in production on a minimally viable container platform managed by a select team

Agile Increment 1

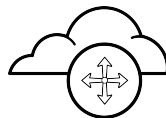
## PREPARE



Repeatable onboarding processes are implemented and new apps brought onto an enhanced platform

Agile Increment 2

## EXPAND



Distributed development teams guide app onboarding *en masse* using standardized approaches

Agile Increment 3

## ACCELERATE



Small teams are enabled and empowered to enhance designs in support of rapid response to the market

Agile Increment 4

## OPTIMIZE



Infra and app instrumentation enables DevOps practices to be adopted by leadership and informs strategy

Agile Increment 5

## SELF-SUSTAIN



Culture, process, and technology changes permeate the organization to drive continued improvement

Ongoing

DIGITALLY TRANSFORM YOUR APPLICATIONS AND BUSINESS

RED HAT

Customer Success



# CONTINUOUS INNOVATION

## FOSTER AN AGILE CULTURE

### ASSESSMENT

When is this pathway applicable?

Breakthrough innovation

Leapfrog to adopt new methodologies

Wish for improved Business vs. IT alignment

Need for fast results

### USE CASE

Who did this before?



### OUTCOME

What did they achieve?

Created an all new data driven interface to identify where they can provide support for schools in Colombia.

Adopted the Open source way of working in communities

Fast delivery/first time right

### RED HAT OFFERING

How can Red Hat help you?

Red Hat Open Innovation Labs



unicef 



# RED HAT INNOVATION LABS

A RESIDENCY STYLE INNOVATION BOOSTER

## MODERNIZE TRADITIONAL APPS

- Extend applications
- Optimize applications
- Scale applications
- Expose to orchestration

**INNOVATION  
ACCELERATED**

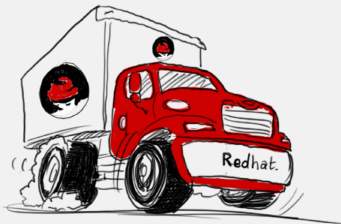
## DEVELOP CONTEMPORARY APPS

- Develop on PaaS environment
- Transform how you design and develop apps
- Adopt lean and agile principles
- Master DevOps practices



### COLLABORATION

Space to work,  
innovate, and discuss



### RESIDENCY

An eight-week accelerated  
teaming engagement



### COMMUNITY INCUBATION

Communities  
supporting innovation



# WHO CAN HELP YOU SCALE UP?

THESE ARE THE PARTNERS THAT CAN HELP YOU.



# WHY CHANGE WITH RED HAT?

SOLUTIONS FOR TODAY AND THE FUTURE



RE-BALANCE  
MAINTENANCE  
AND  
INNOVATION



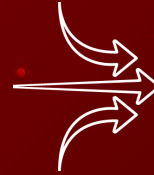
DECREASE  
COMPLEXITY,  
INCREASE  
EFFICIENCY



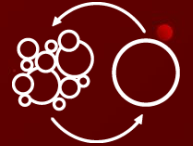
REDUCE / AVOID  
VENDOR LOCK-IN,  
INFLEXIBLE  
LICENSE MODELS



INCREASE SPEED &  
BECOME  
MORE  
PRODUCTIVE



REMOVE  
TECHNICAL  
DEBT &  
RISK



ADOPT  
AGILE  
METHODOLOGIES,  
DEVOPS



# THANK YOU



[plus.google.com/+RedHat](https://plus.google.com/+RedHat)



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



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



[twitter.com/RedHatNews](https://twitter.com/RedHatNews)



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