# PROVISIONING FROM DEVELOPMENT TO PRODUCTION

# ANDREVON DEETZEN @VDANDRE

# OLIVER WEHRENS @OWEHRENS

#### @BERLIN

#### "FASTER TIME TO MARKET"

# 

## MEANTIME BETWEEN DELIVERIES IN WEEKS



#### DEV/QA/OPS

# 

#### SOURCE REPOSITORIES

#### RELEASE

#### "FASTER TIME TO MARKET"



#### AREASTO CHANGE

# ARCHITECTURE DEPLOYMENT WORKFLOW

#### ARCHITECTURE

#### MANY SMALL SERVICES

#### STATELESS SERVICES

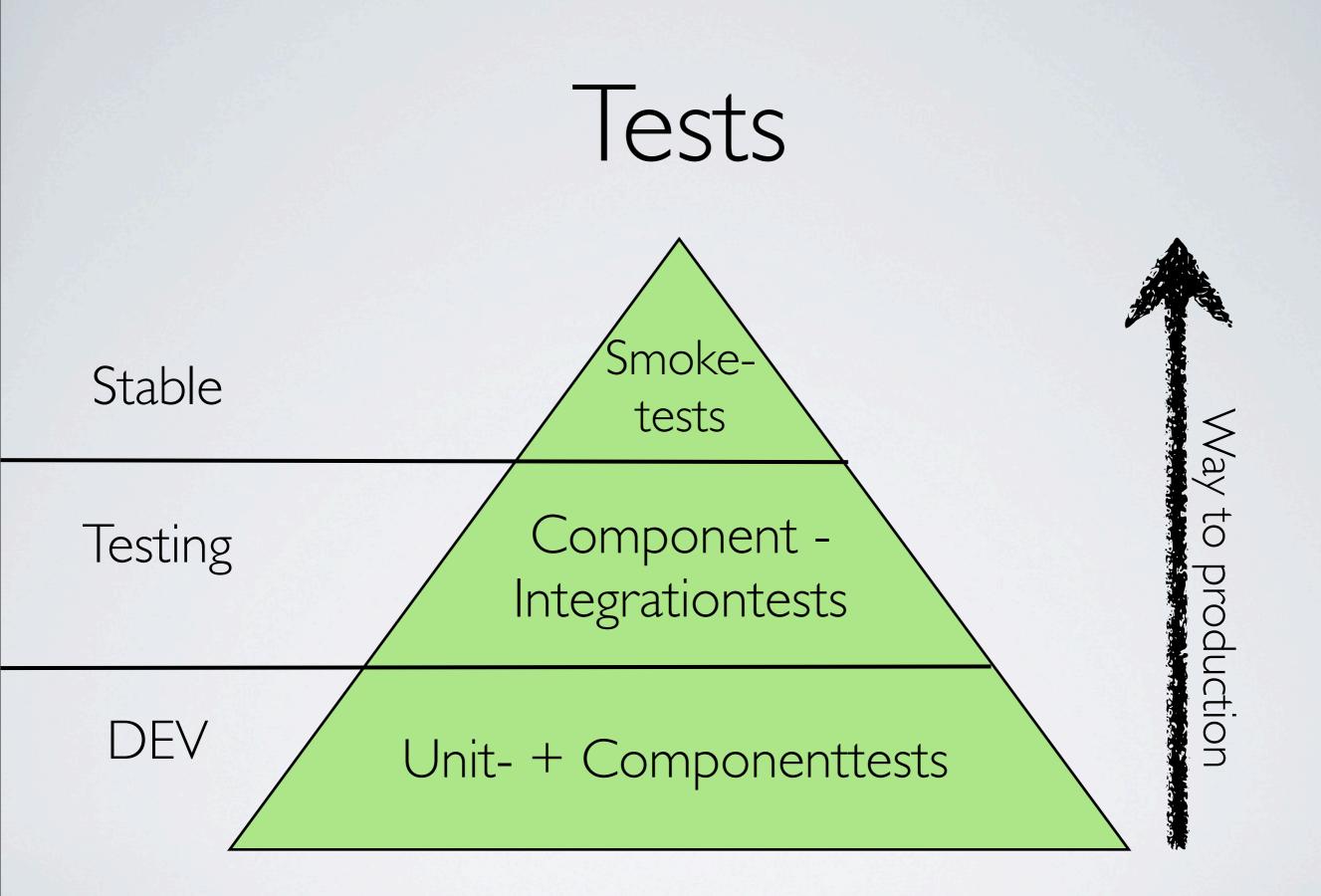
#### INDEPENDENT DEPLOYABLE

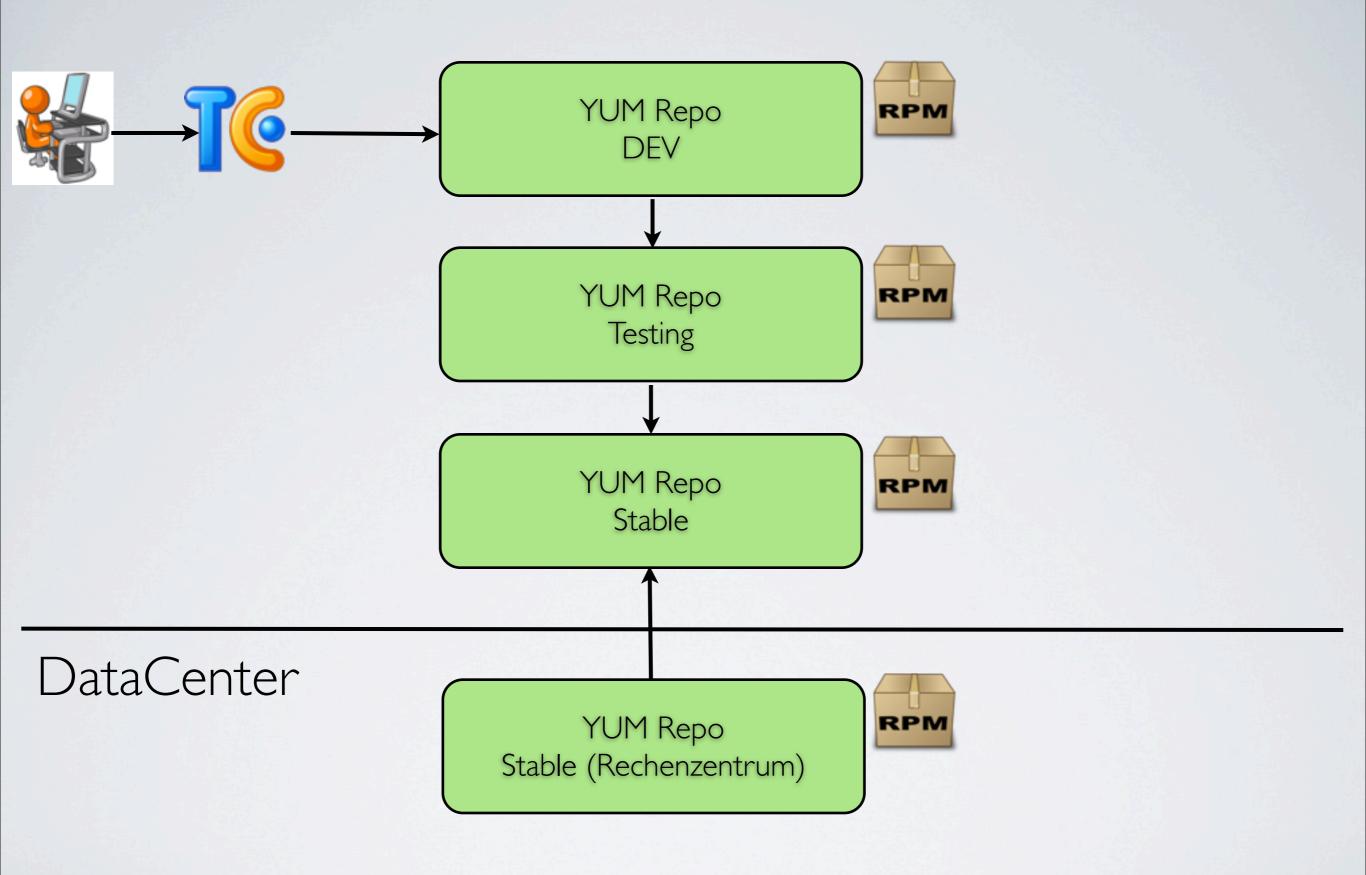
#### STABLE INTERFACES

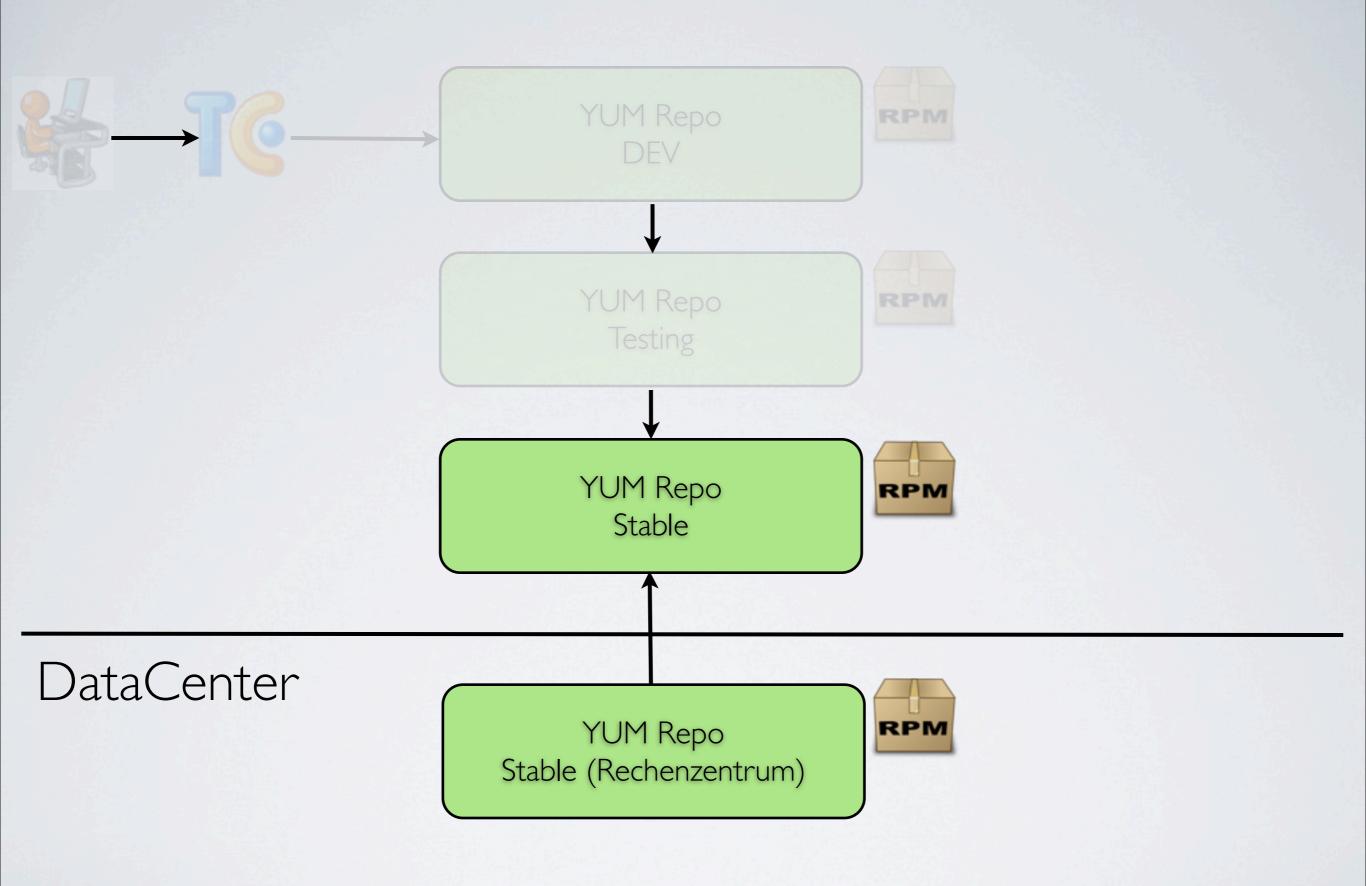
#### DEPLOYMENT PIPELINE

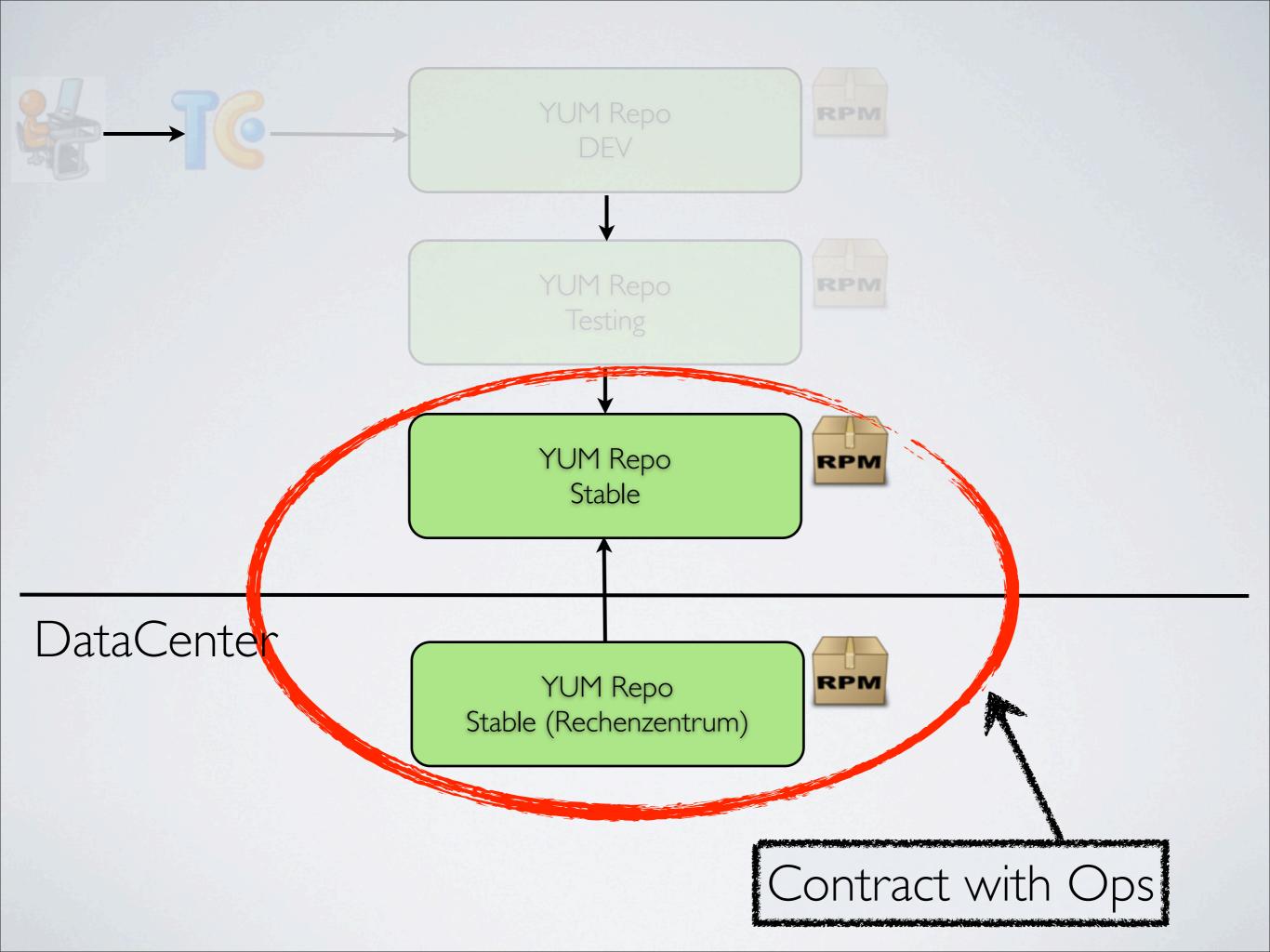
# Stages & Version

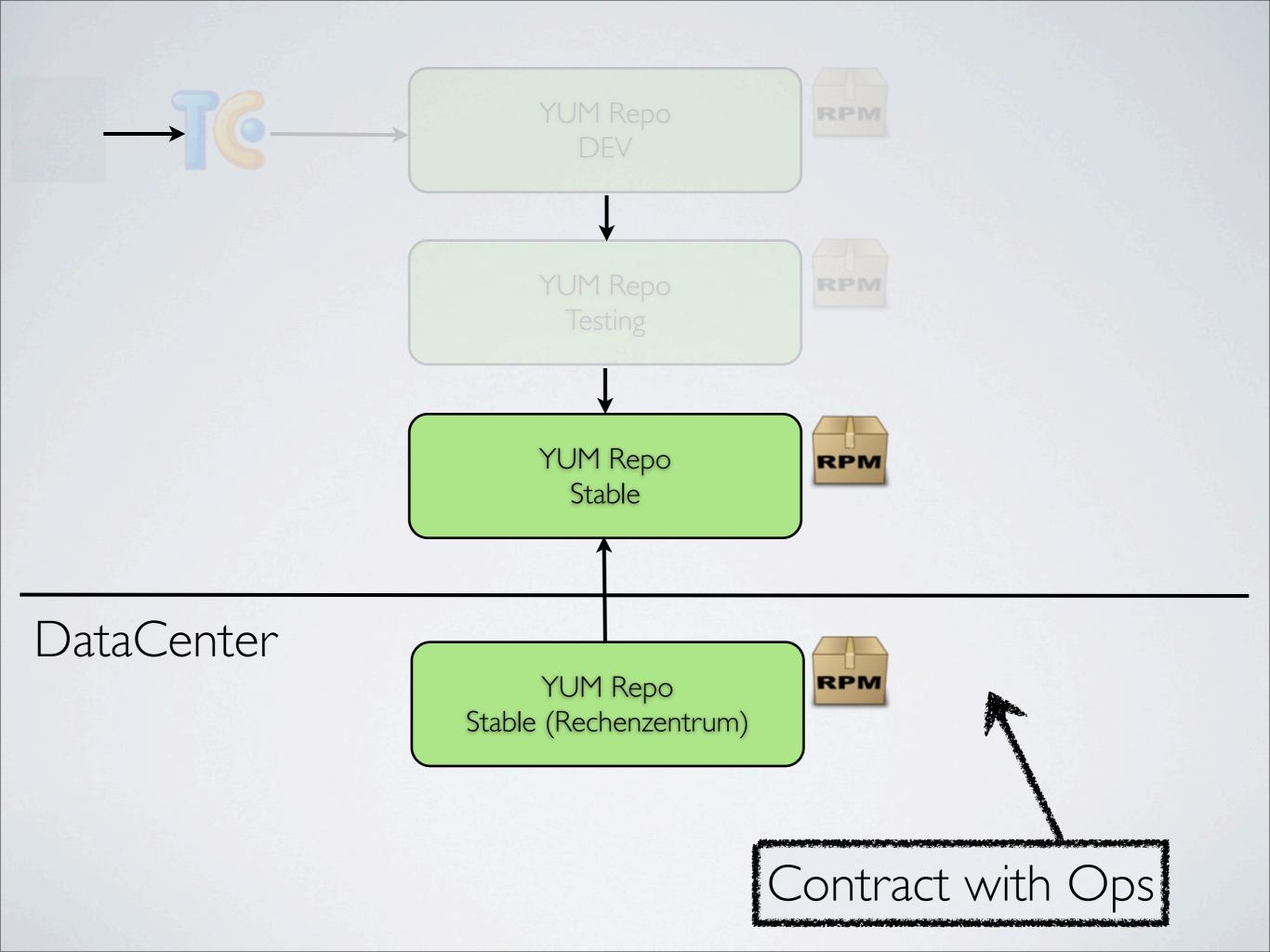
Stage	Version
DEV	Development
Testing	Release Candidate
Stable	Certified Release

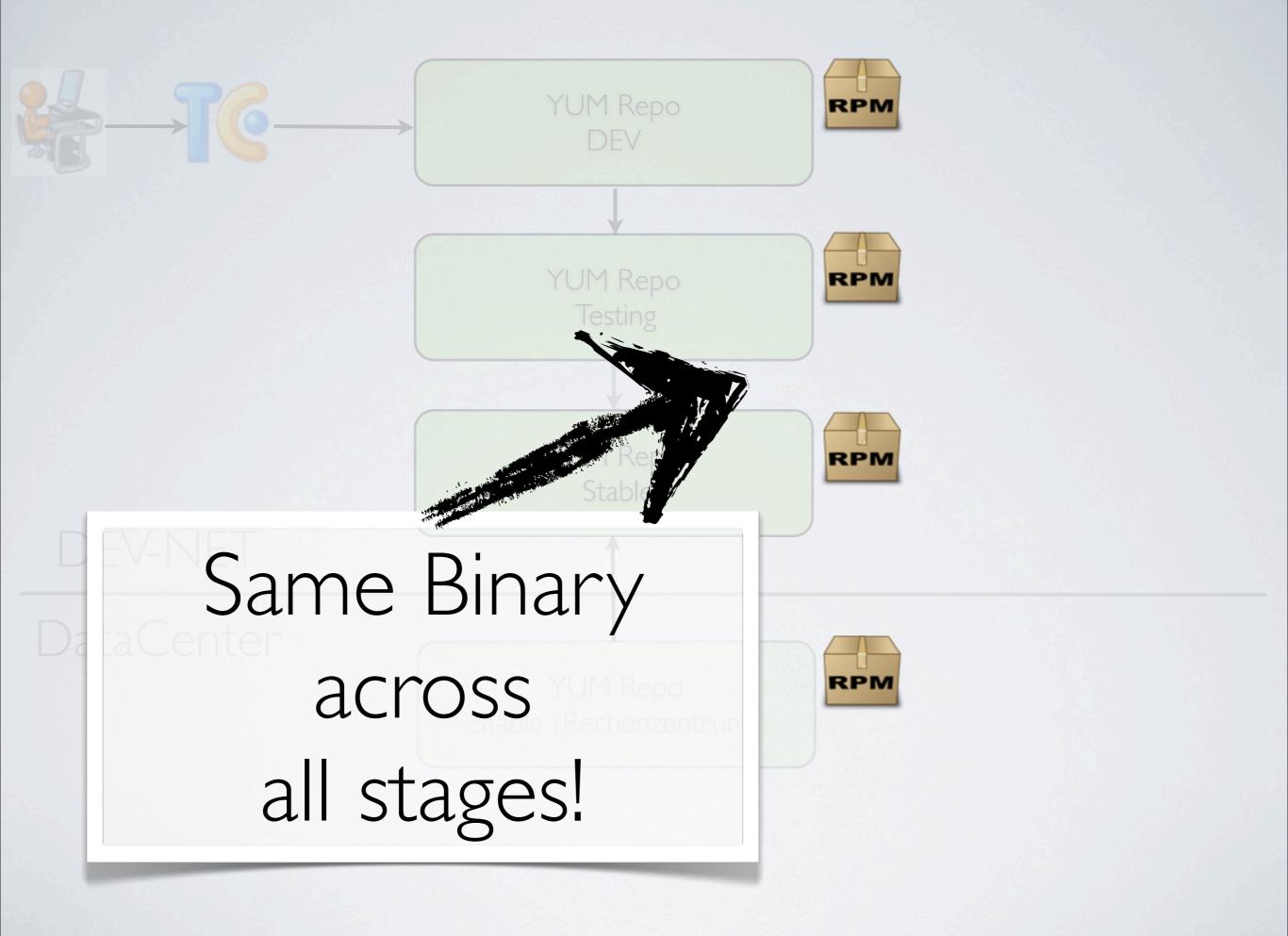


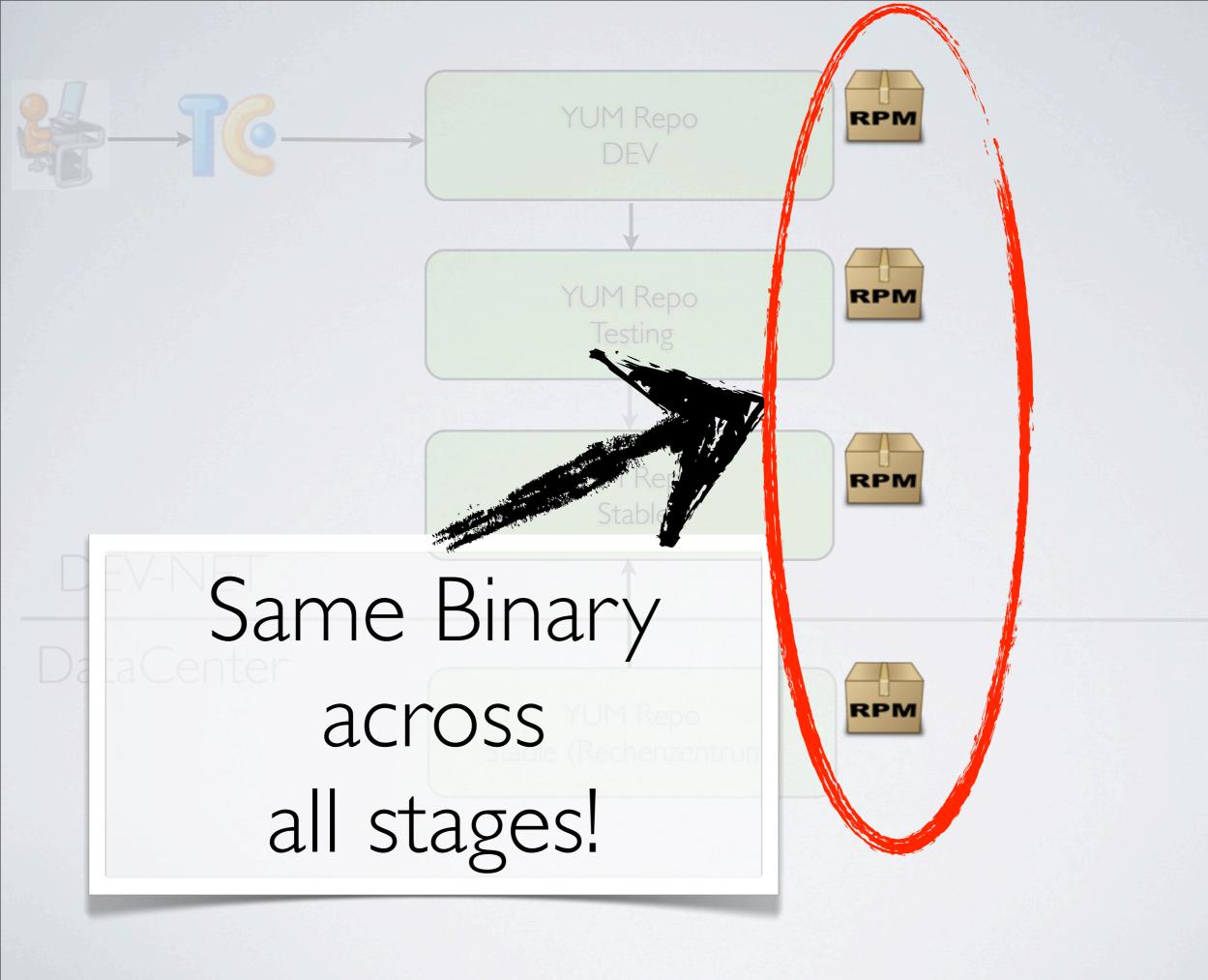




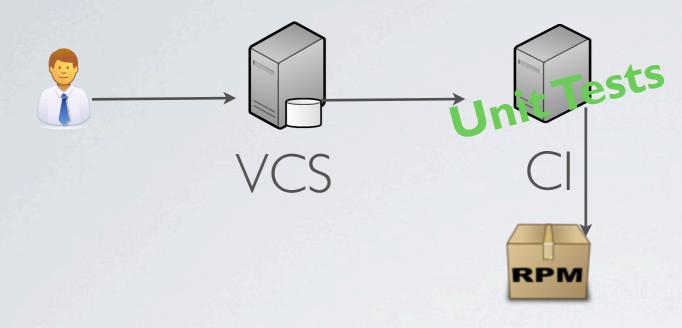


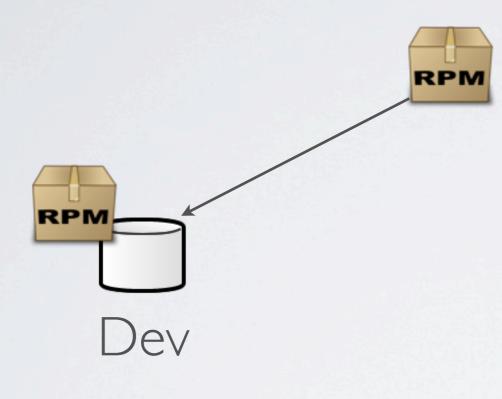




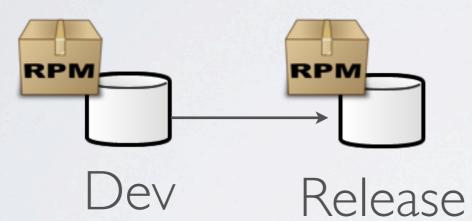


## CONFIGURATION MANAGED BY PUPPET

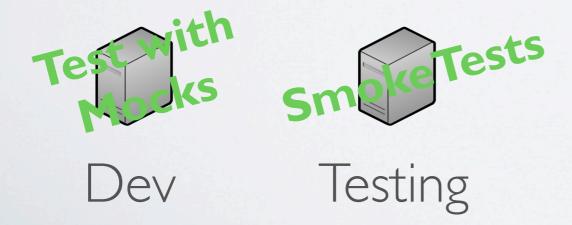


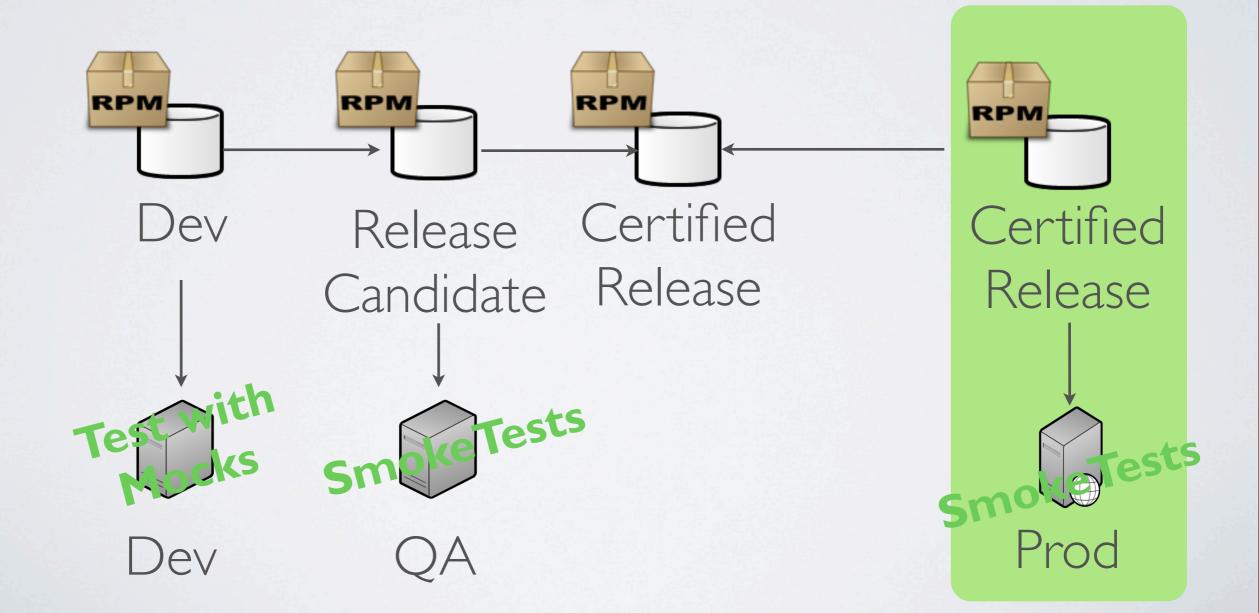


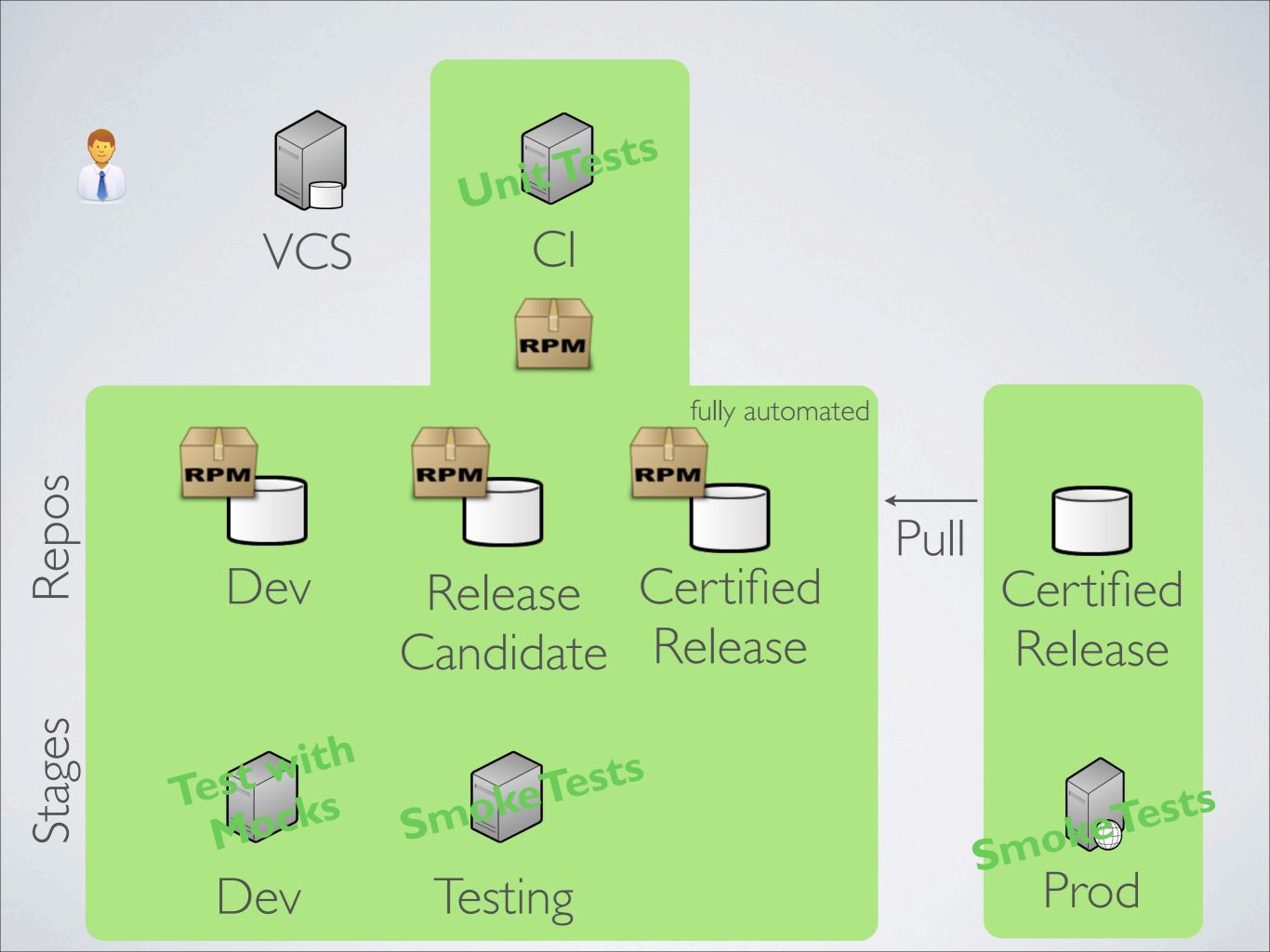




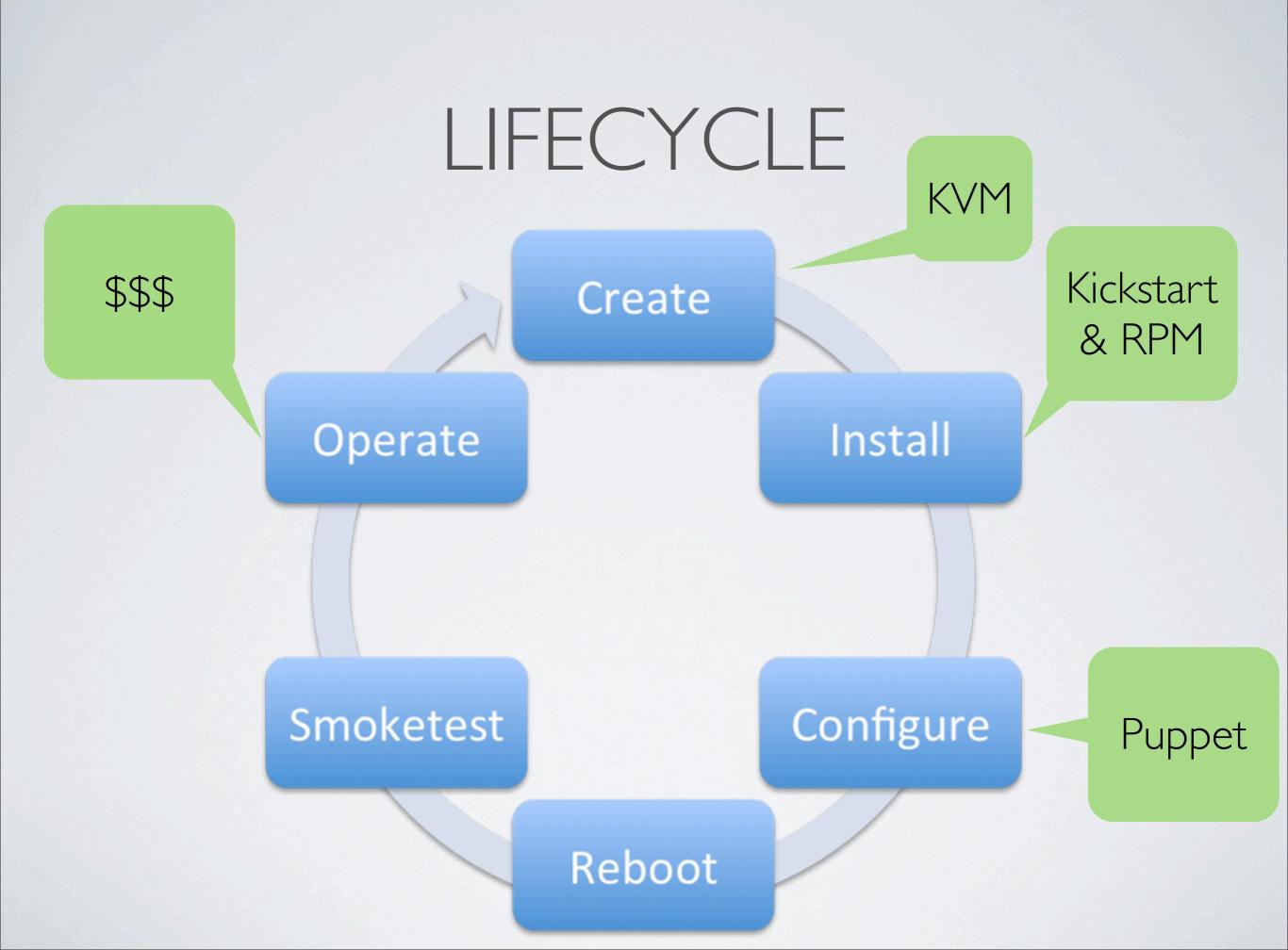
Candidate







#### PROVISIONING



## DISASTER RECOVERY BUILD IN

# BLUE - GREEN DEPLOYMENT

#### HOW TO TEST LOCALLY?







#### Developer Operating Systems





#### Everything can be tested locally with vagrant

(this means operating system like in production, configuration management, deployment, building packages, needed network interfaces, ...)

http://www.vagrantup.com

# WHAT CHANGED IN OUR WORKFLOW?

## TEAM IS RESPONSIBLE

# EVERY COMMIT GOES TO PRODUCTION

# DEPLOY ≠ FEATURE RELEASE

#### ROLL FORWARD

#### AUTOMATE ALL THE THINGS

# IF IT HURTS DO IT MORE OFTEN (EXCEPT MEETINGS)

#### TEST SETUP

## VISIBILITY



## NEXT STEPS

#### DB DEPLOYMENT

## COMPONENT PUPPET WITH HIERA

## SAME KICKSTART IN DEV & PROD

## FEEDBACK: LIVE DATA IN DEV WITH GRAPHITE

#### MEASURE, MEASURE, MEASURE

#### SELF HEALING

#### **LESSONS LEARNED**

# # I CLOSE TO PRODUCTION AS EARLY AS POSSIBLE

# #2 EVERYTHING CAN BE AUTOMATED

## #3 MANAGEMENT BUY IN



## #5 RESISTANCE WILL RISE

## #6 IT'S WORTH THE EFFORT

#### $\sim 30 \text{ MIN TO CR}$



QUESTIONS