

# APM und Agile Operations

## APM Roadmap

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December 10, 2015

“Software is  
eating the world”

- Marc Andreessen

Wall Street Journal, [Wall Street Journal, Software is Eating the World](#),  
August 2011



**\$316B**

*Public cloud services market  
expected to grow to \$316 Billion  
by 2019*



welcome  
to the **Application  
Economy**



**268B**

*By 2017, mobile apps will be  
downloaded more than 268  
billion times<sup>2</sup>*



**50%**

*By 2018, more than 50% of B2B  
collaboration will take place  
through Web APIs<sup>3</sup>*

# How CA supports your digital transformation

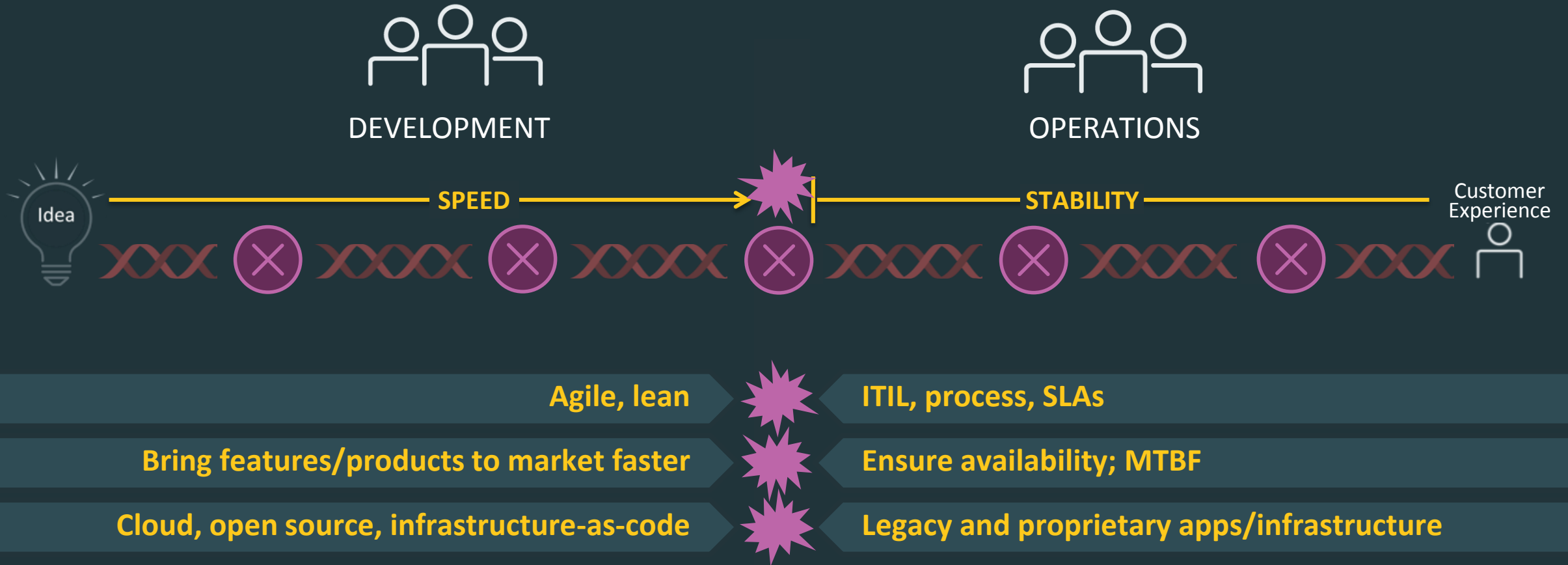




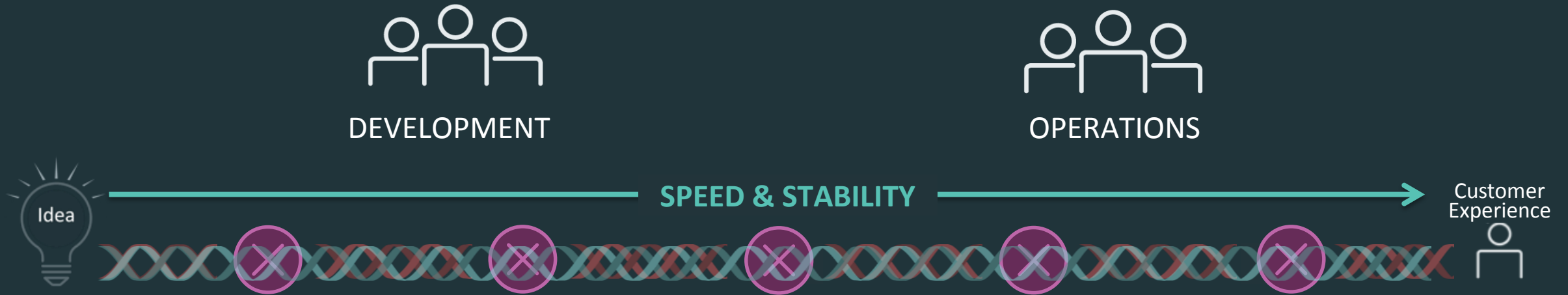
# CA solutions to support your digital transformation



# Why do we Struggle to Meet Expectations?



# DevOps Transforms People, Process AND Technology



**Communication and shared metrics and goals – driving business value**

**Collaboration and continuous feedback**

**Technology toolset enabling DevOps**

# Changing Imperatives for IT Operations

## Assurance

Reliability, avoid risk

System Performance

Incremental

In-house, Static

Internal processes, transactional

Long (months)



MINDSET

FOCUS

METHOD

INFRASTRUCTURE

DNA

PACE

## Agility

Innovate, adapt to change

Revenue, brand, user experience

Iterative

Elastic, outsourced, dynamic

Customer-centric, contextual

Short (days/weeks)



QUALITY



SCALE



SPEED

## AGILE OPERATIONS

## End-to-End Transaction Visibility

Follow transactions across all apps & infrastructure

Quickly identify what changed, where and when

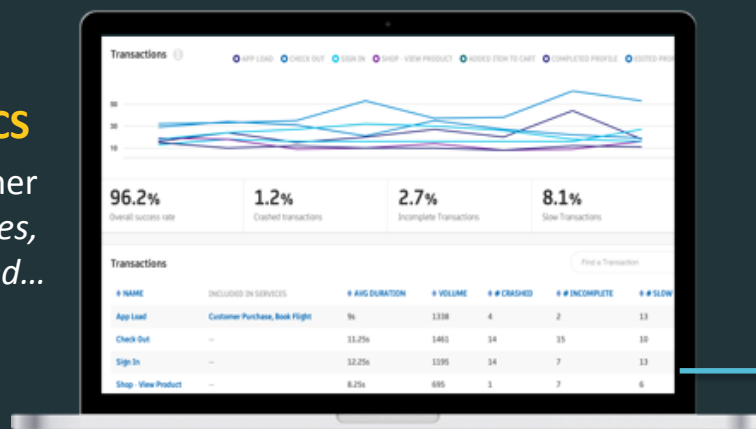
Continually optimize user experience



## MOBILE TO MAINFRAME

### DEEP ANALYTICS

Visibility in a customer context – *crashes, usage, speed...*



### FULL TRACEABILITY

Quickly pinpoint problem transactions



**QUICKLY IDENTIFY UNDERLYING CAUSES FOR FAILED TRANSACTIONS – IN INFRASTRUCTURE OR APPS**

*Clear visibility spanning complex business processes*



# The Light Bulb Moment – Monitoring in Pre-production

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*“Getting that insight in production is fantastic, but what is perhaps more brilliant is getting that insight in the development - and - test environment... We have been able to show that by putting APM into development and test — making it part of the process in those areas — you can stop defects from getting into production”.*

Prevented 10 high-severity incidents, saving more than a dozen hours of investigations.

Another partner improved performance by 85%.

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<http://rewrite.ca.com/us/articles/management-cloud/customer-obsessed.aspx>

# In the App Economy, Applications are Architected Differently

## Monolithic

Tightly-coupled, dependent, waterfall, change intolerant



## Microservices

Agile, loosely-coupled, independent, continuous delivery







**DevOps:** Getting Cake Delivered





Developer or Development ?



**React**





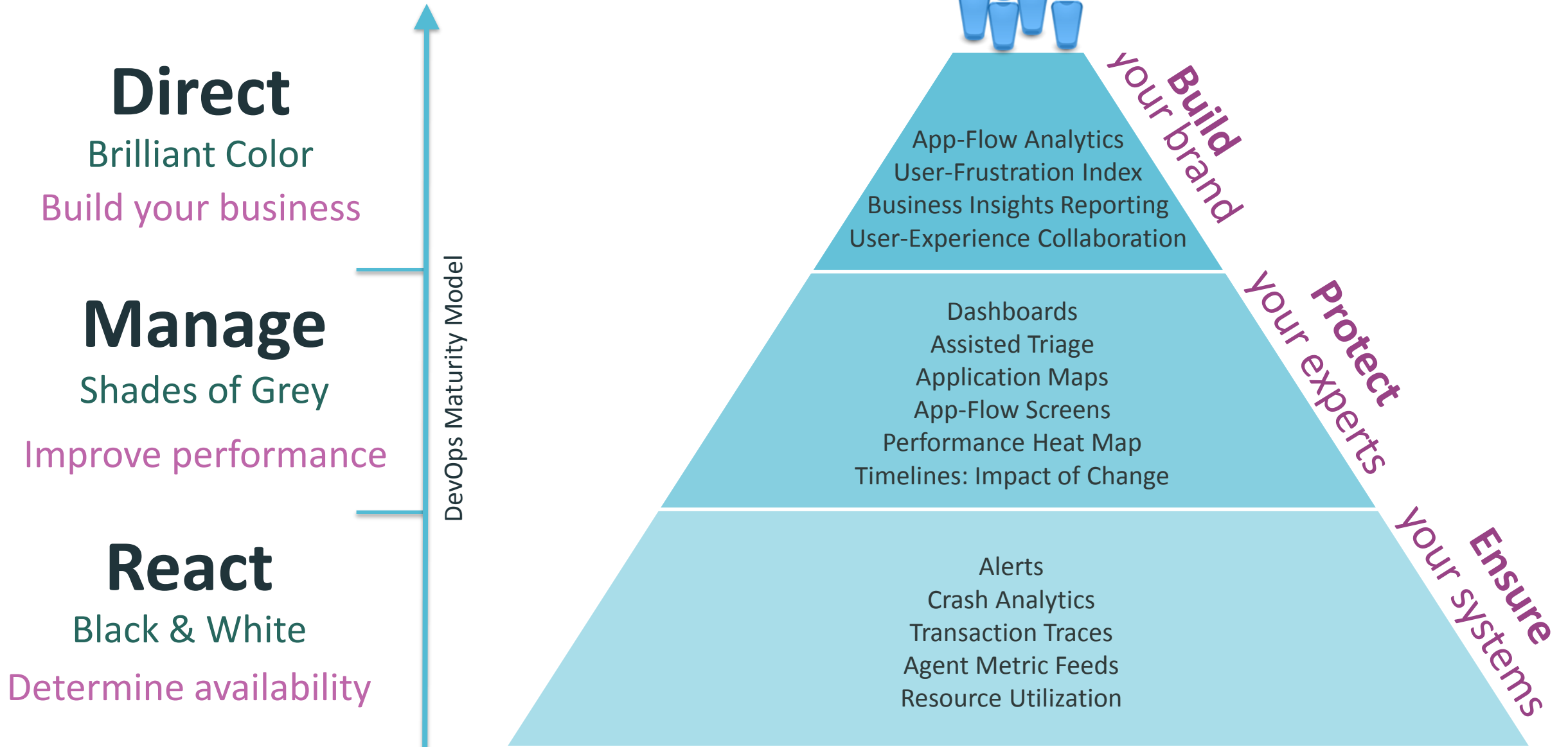
**Manage**





**Direct**

# DevOps Journey



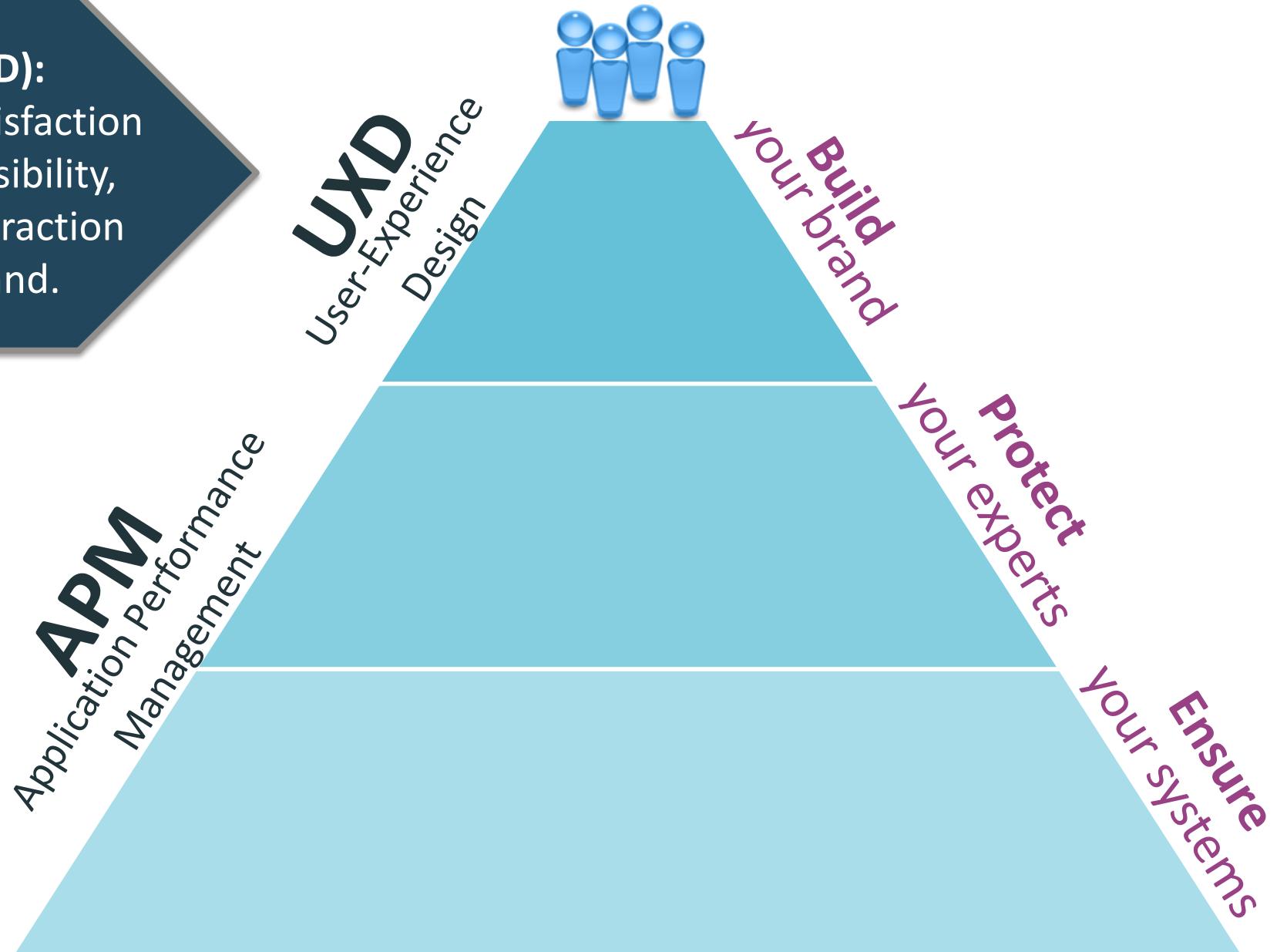
## User Experience Design (UXD):

The process of enhancing user satisfaction by improving the usability, accessibility, and pleasure provided in the interaction between the user and the brand.

# Manage

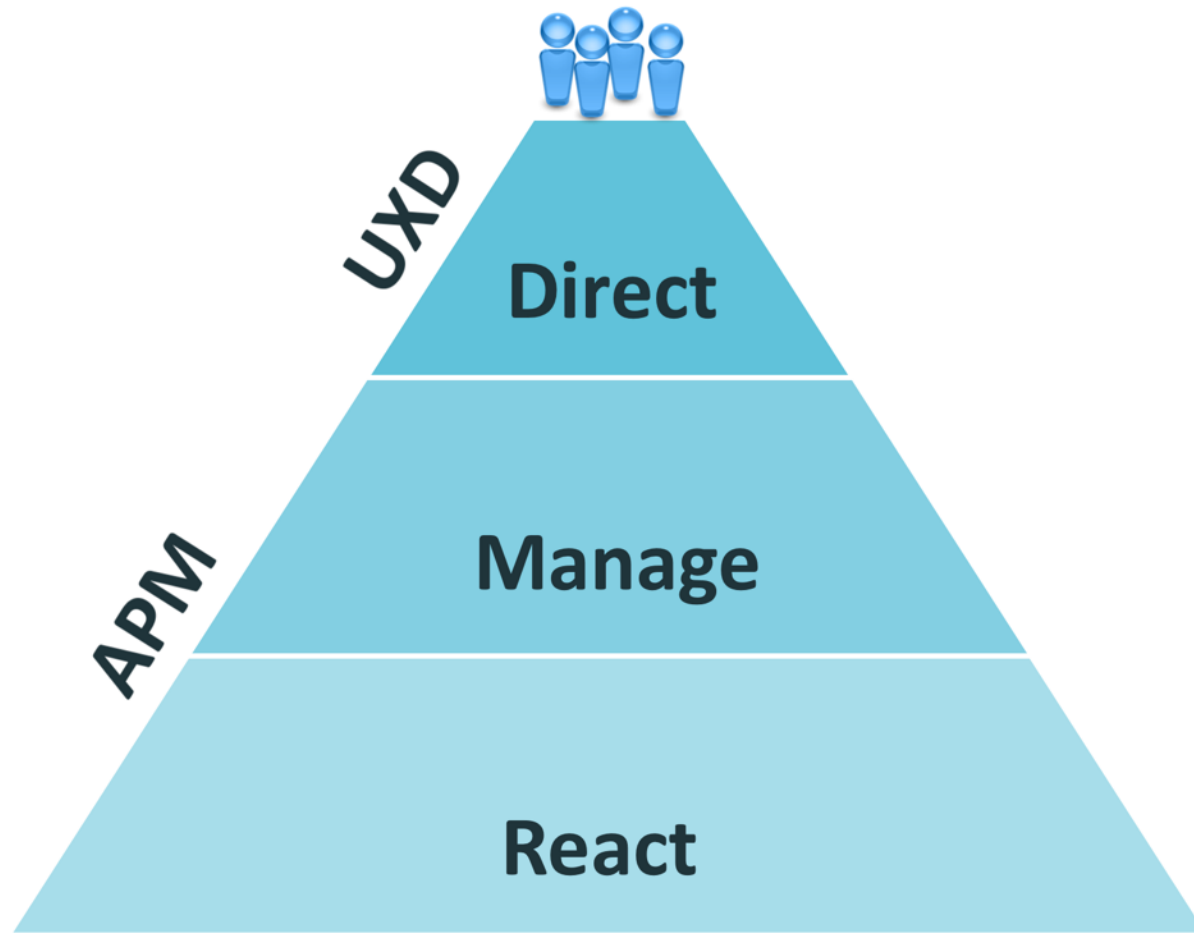
# React

DevOps Maturity Model





# Building Roadmaps in the App Economy : Durable Problems



## UXD Portfolio

User-Experience Analytics  
Proactive Customer Support  
Triage for App Owners  
Business Insights

User-Frustration Index

## APM Portfolio

Assisted Triage  
Zero-Config Agent  
Impact of Change

Mean Time to Resolution (MTTR) < 0







# CA APM Roadmap Theme

Moving from  
**DESCRIPTIVE**

to  
**PRESCRIPTIVE**

# Protecting Your Experts in the App Economy

> EASY

> PROACTIVE

> INTELLIGENT

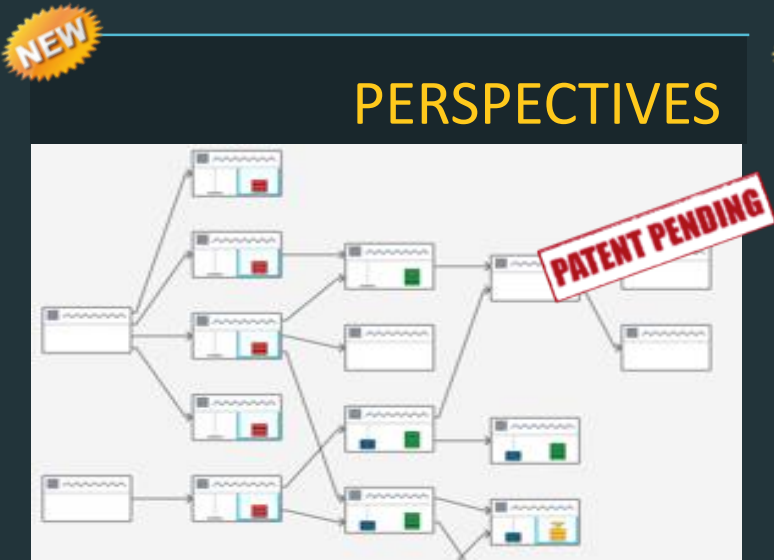
> COLLABORATIVE

E P I C

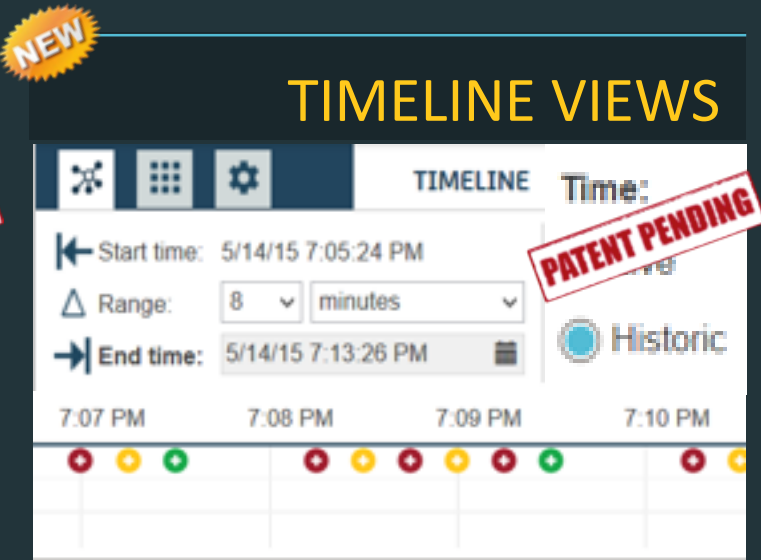
BUILDING PRESCRIPTIVE APM

# CA APM 10

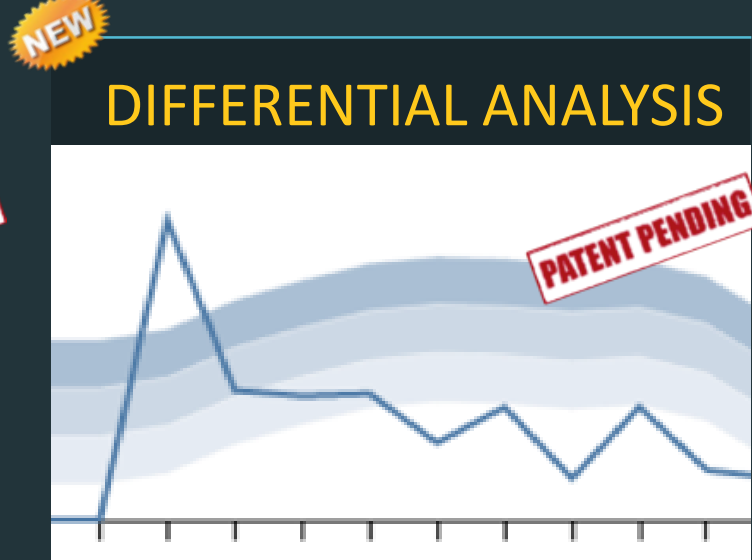
Delight your end user, protect your experts



Shared Expertise  
means  
Continual Optimization



Faster Resolution  
drives  
Improved Uptime



Higher Efficiency  
reduces  
Ownership Costs

# CA MAA 15.4

Where visibility meets mobility



Visualization  
means  
Quicker Insight



Behavior Analysis  
drives  
App Improvements



Deep Visibility  
reduces  
Mean-Time-To-Repair

# Marquee Features Delivered

Delivery Cadence Quickens

New Platforms  
Supported



## CA APM 9.7 – December 2014

- Smart Instrumentation (SI) – Automatic Evidence Collection
- End-to-end Mobile-Transaction Monitoring
- New PHP agent
- Enhanced Real-time Business-Transaction Metrics
- Java 8 Support
- Modern integration SDK (EPAgent RESTful API)



## CA APM 10.0 – June 2015

- All-new UI in APM Team Center with Custom Perspectives
- New Timeline View
- Analytics: Differential Analysis
- All-new Browser Agent
- APM Command Center 1.1: Agent-Management API's
- HTTP Correlation & REST Support
- Smart Instrumentation: Automatic Entry-Point Detection



## CA APM 10.1 – October 2015

- New Node.js Agent
- Team Center API's for custom-attribute decoration
- Team Center uses traces to create map relationships
- Domain changes require no EM restart
- ACC: Remote Controller Upgrades
- Maintenance Updates



# New Platform Support

## Supported with 9.7 (December 2014)

- IBM WebSphere Portal 8.5
- JBoss 6.4, 7
- Agent support for Oracle Java 8, Open JDK
- SQL Agent support for SQL Server 2014 database
- Agent support for Oracle 12c DB on Z/OS 2.1.x
- Browser support for WebView and CEM
  - IE 10, Firefox 28, 29, Chrome

## Supported with 10.0 (June 2015)

- Postgres DB on Solaris 11
- Tomcat 8
- IBM WebSphere App Server 8.5.5
- Tibco EMS 8.1, 8.2
- Axis 2 1.6
- Axis CXF 3.0
- G1 Garbage Collection
- Siteminder Manager 12.0.4 on RHEL 6.6

- EM on RHEL 7, SLES 12, OEL 7
- BRTM Agent Support
  - JQuery 2.0
  - Adobe CQ 5.x
  - IE (9,10,11), Firefox (v3x), Chrome (v3x), Safari (IOS 7.x, 8.x)
- Generic HTTP Correlation
  - Apache HTTP Client (3.x, 4.0 - 4.3)
  - JDK's built-in URL Connection (Java 6, Java 7, Java 8)
  - Spring HTTP Client (3.x and 4.x)
- Browser support for WebView and CEM
  - IE 11, Firefox 34, Chrome 38
- Workstation on Java 8
- IBM BPM 8.5.6

# New Platform Support

## Supported with 10.1 (October 2015)

- APMDB on Oracle 12c
- EM on Windows 10, OEL 7
- TIM on RHEL 6.6
- Jboss 9 / Wildfly

## Supported Fieldpacks

- PowerPack for WebSphere Portal
  - Updated for “new mode”
- SQL agent with parameters
- Oracle SOA-BPEL-OSB 12c
- WebLogic Communication Tracing
- Tibco BW 5.12
- IBM IIB 10

*(Contact CA Support for software access)*

**NOTE:** Additional field packs are being certified regularly for official support; contact your presales or services consultant for more details.

# CA APM Open-Source Developer Community

*Extending the Reach of CA APM*

## Come & Contribute

### Updated API

EPAgent RESTful API now makes it easier (and more efficient) than ever to integrate outside data sources into CA APM.

### Hackathon

CA recently held an event to foster innovation and collaboration. 18 new ideas were conceived and prototyped for fieldpacks.

### Teamwork

Learn from those who have done it before. Code examples, tips & tricks, recipes and more are all available.

### Join Today!

[http://bit.ly/caapm\\_dev/](http://bit.ly/caapm_dev/)





# CA APM Beta Community

*Come Peek Inside the APM Factory*

**Collaborate & Influence the Evolution of APM!**

## Details

Gain access to more-detailed information about planned and under-consideration features.

## Feedback

Share your voice in design reviews and solution concepts long before the traditional beta-testing phase.

## Access

Touch the software and features while the paint is still wet and updates can be made.

## Join Today!

[http://bit.ly/apmbeta\\_instructions](http://bit.ly/apmbeta_instructions)



**Easy. Proactive. Intelligent. Collaborative.**

*Driving Toward*

**E.P.I.C. APM**

*The Key to Stimulate User Loyalty and  
Differentiate Your Business in the **App Economy***