Test Workshop 11 juli 2012

Hands-on met Microsoft Test Manager

Jan Willem van Buuren & Clemens Reijnen

Software Delivers Business Value

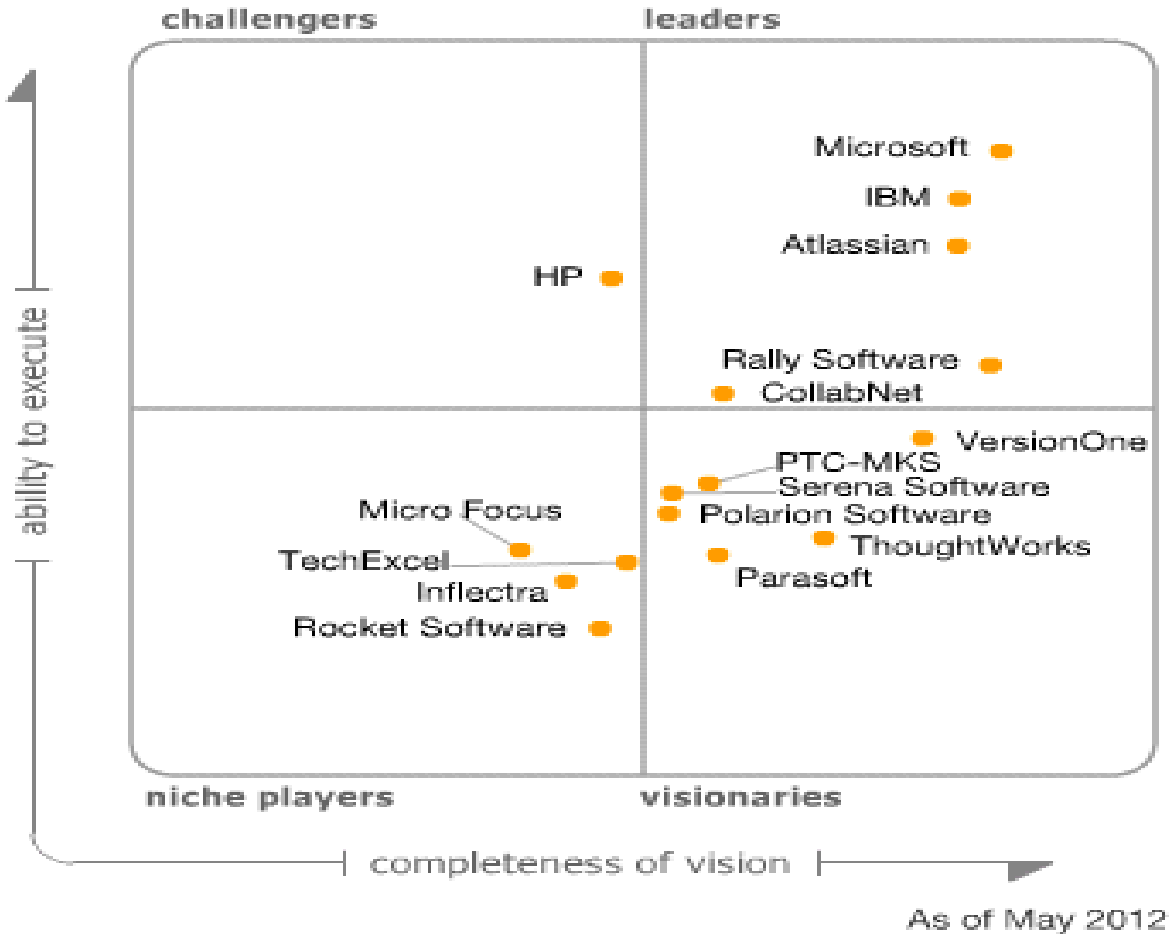
"Executives leading enterprises in highly competitive markets are always looking to respond faster and more effectively to market opportunities by delivering more value to customers and beating the competition… These efforts in turn create critical new objectives for application delivery organizations…"

– February 3, 2011 **Transforming Application Delivery**
by Diego Lo Giudice and Dave West – Forrester

Magic Quadrant for Application Life Cycle Management

Magic Quadrant

Figure 1. Magic Quadrant for Application Life Cycle Management

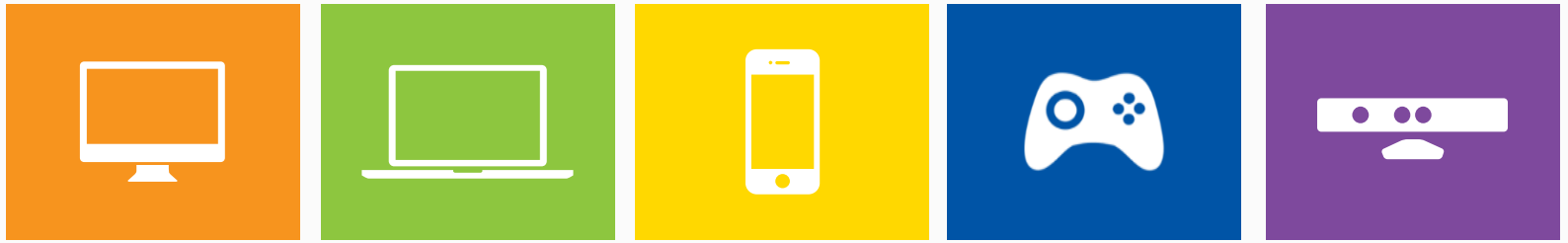


As of May 2012

Source: Gartner (June 2012)

Software Development&Test: Current and Future

Devices, Applications, and Services



IMMERSIVE APPS
Connected, x-device, viral, always evolving

CONTINUOUS SERVICES
Always on, always evolving, accessible anywhere/everywhere

FLEXIBLE INFRASTRUCTURE
Physical. Virtual. Private Cloud.

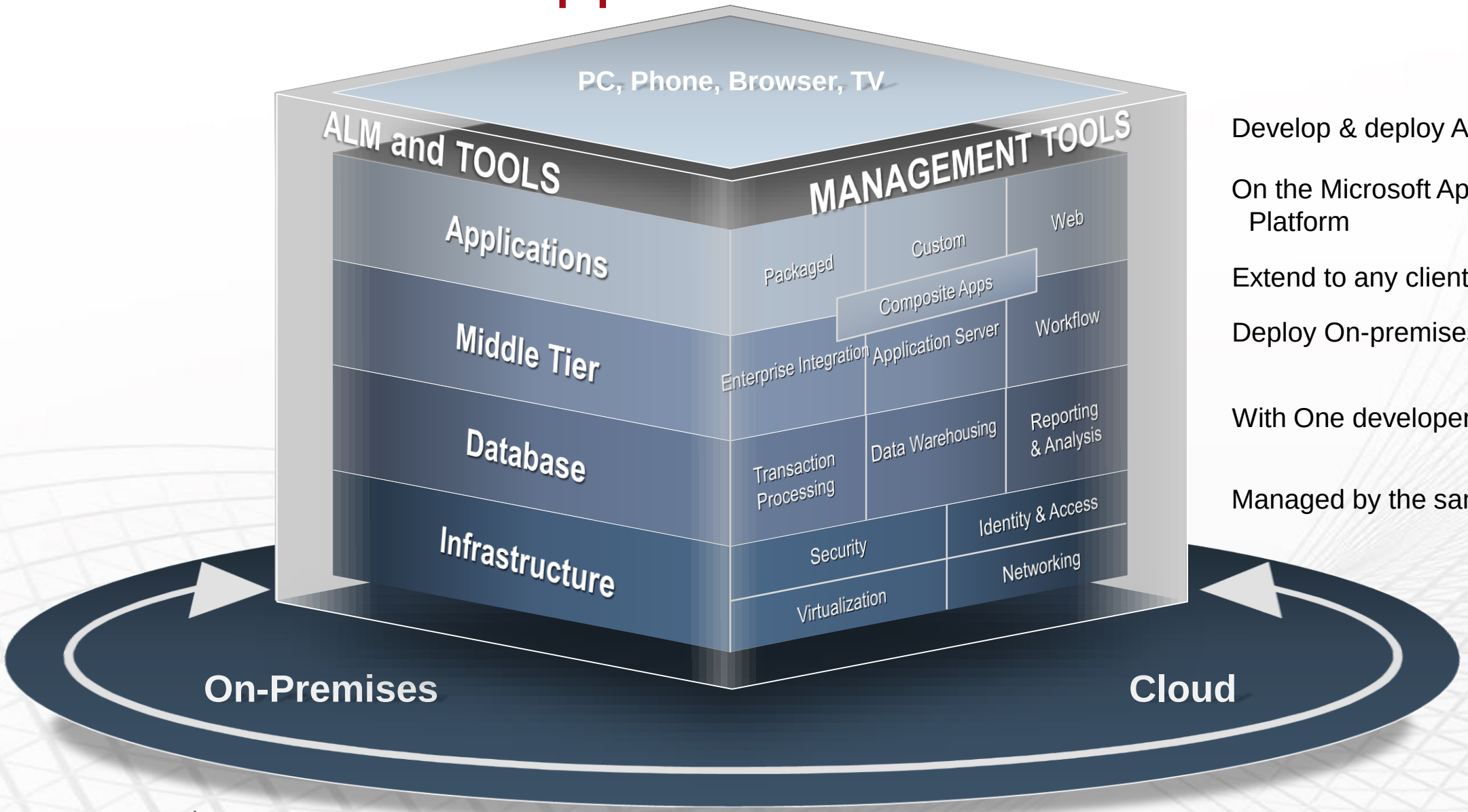
Windows Server · Microsoft SQL Server · Microsoft Office

Public Cloud.

Microsoft Office 365

Windows Azure

The Microsoft Application Platform



Develop & deploy Applications

On the Microsoft Application Platform

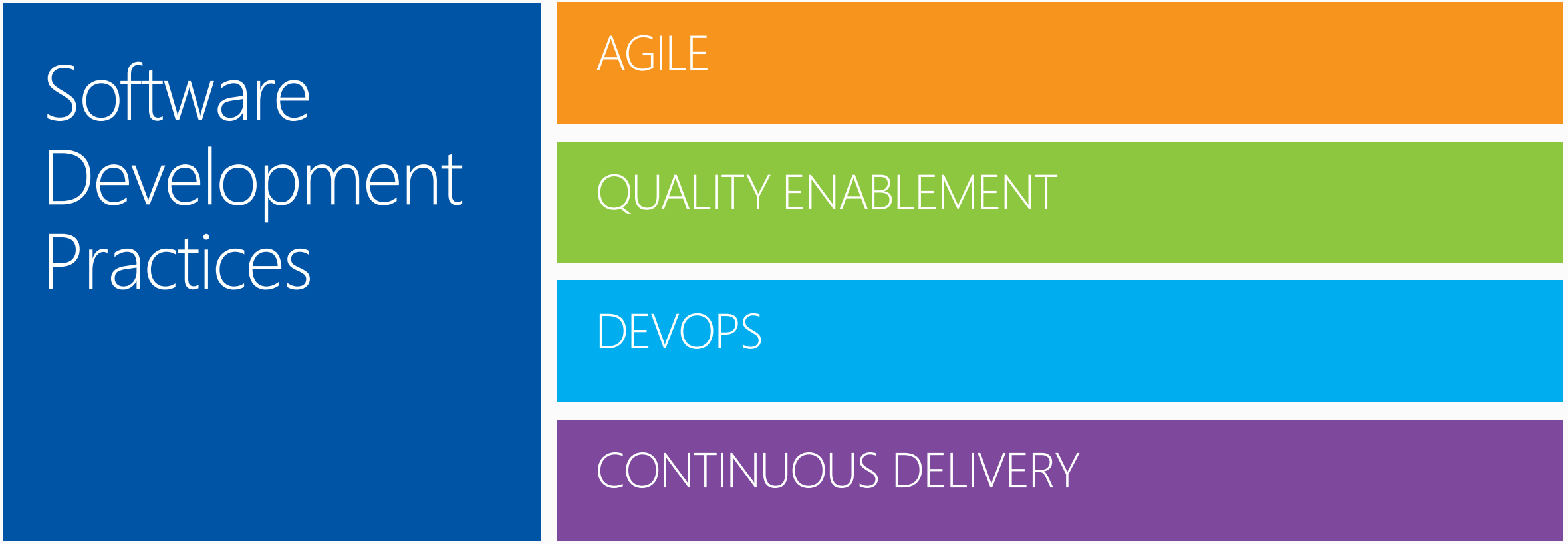
Extend to any client type

Deploy On-premises or in the cloud

With One developer experience

Managed by the same tools

Industry Trends in Development Practices



Trends to… Visual Studio 2012

Touch

Connected

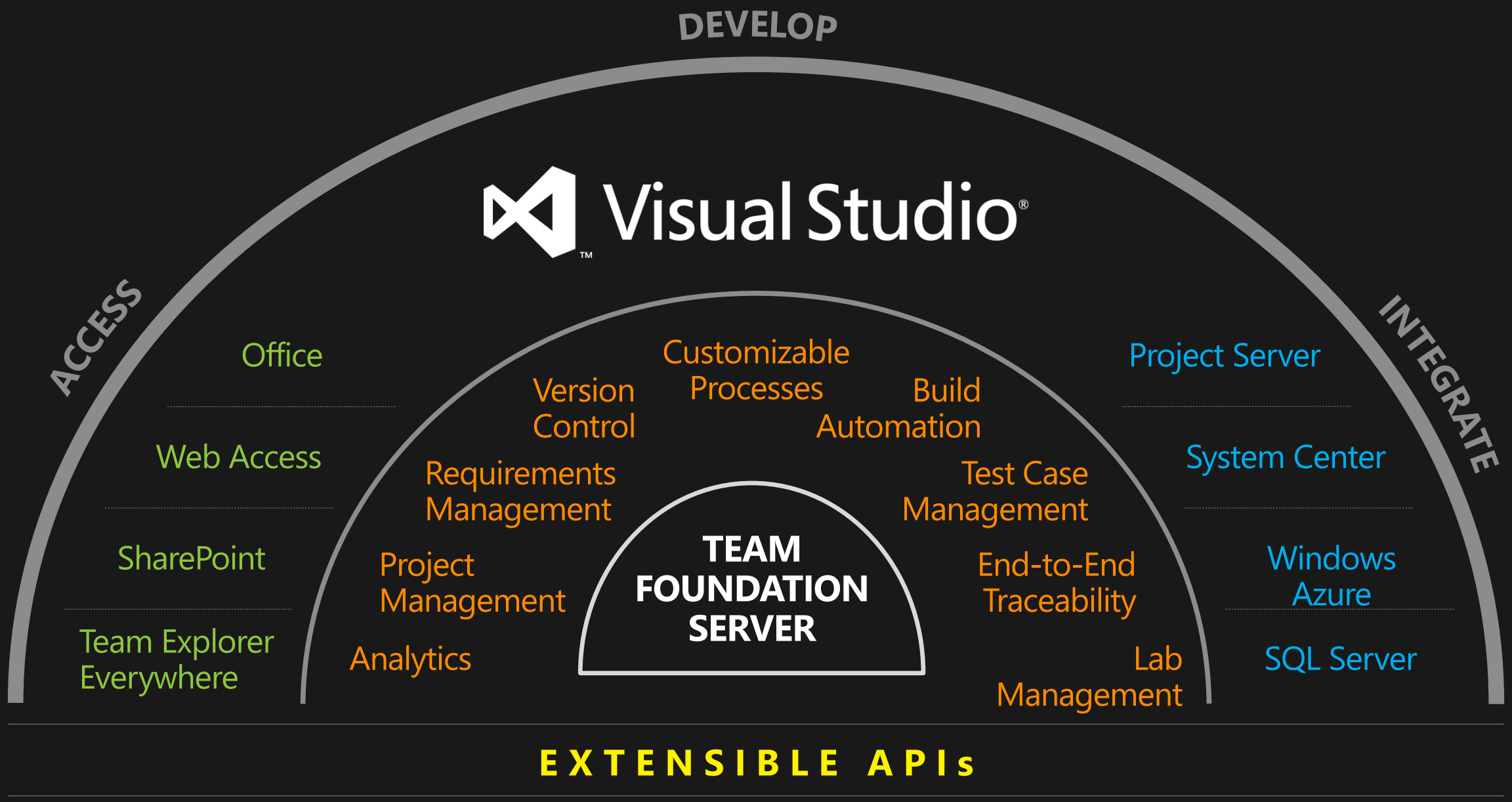
Consumerization of IT

Social

Cloud/Services

Visual Studio Family

Visual Studio


DEVELOP
Visual Studio®
ACCESS
INTEGRATE
Office
Web Access
SharePoint
Team Explorer Everywhere
Customizable Processes
Version Control
Build Automation
Requirements Management
Test Case Management
Project Management
End-to-End Traceability
Analytics
Lab Management
TEAM FOUNDATION SERVER
Project Server
System Center
Windows Azure
SQL Server
EXTENSIBLE APIs

Application Lifecycle Management

Empowering teams to deliver continuous value

Visual Studio

Engineering Trends

Agile practices

Developer services

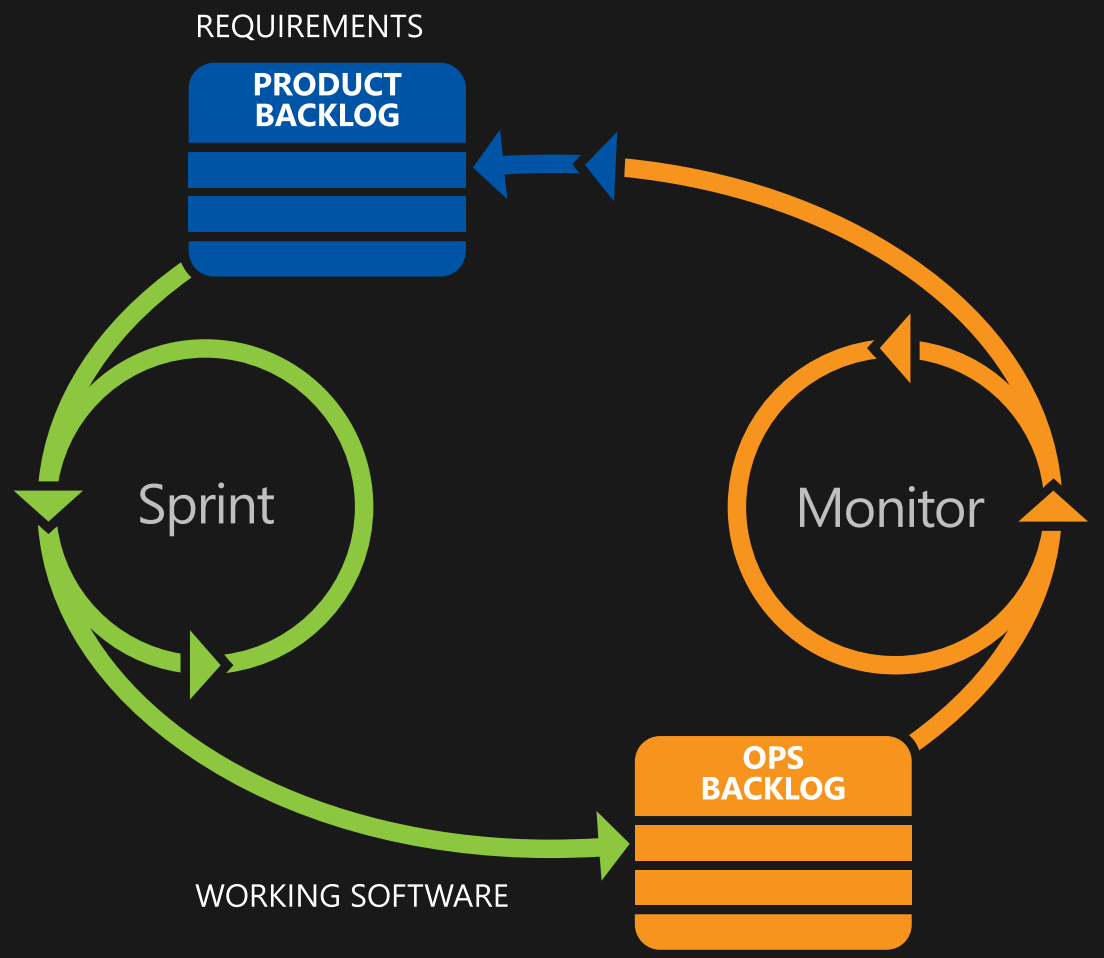
Testing advances

DevOps

Continuous Value Delivery

Define
Ideation

Develop
Idea to working software

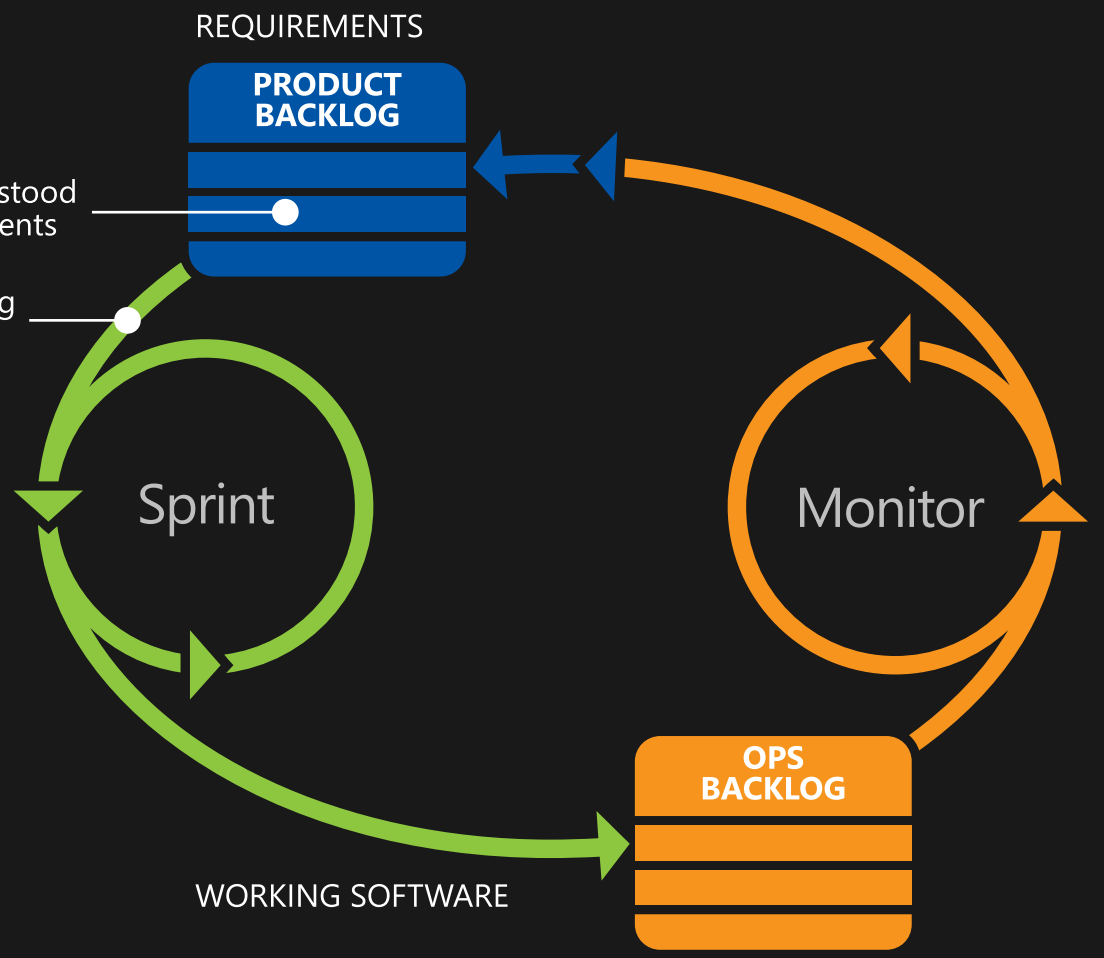


Operate
Deployment to feedback

Stakeholder Involvement

Define
Ideation

Develop
Idea to working software



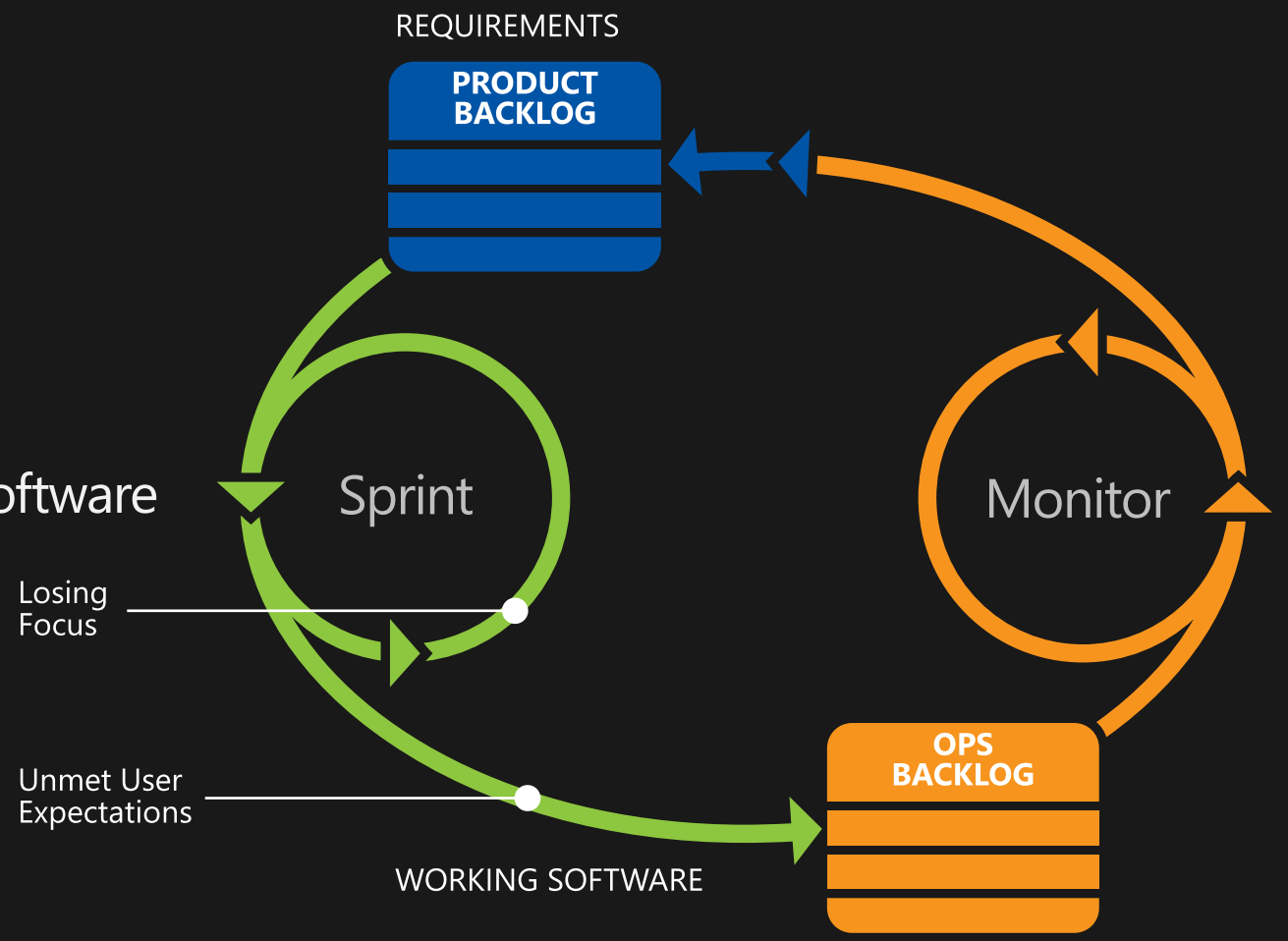
Operate
Deployment to feedback

Development Team Productivity and Integration

Define
Ideation

Develop
Idea to working software

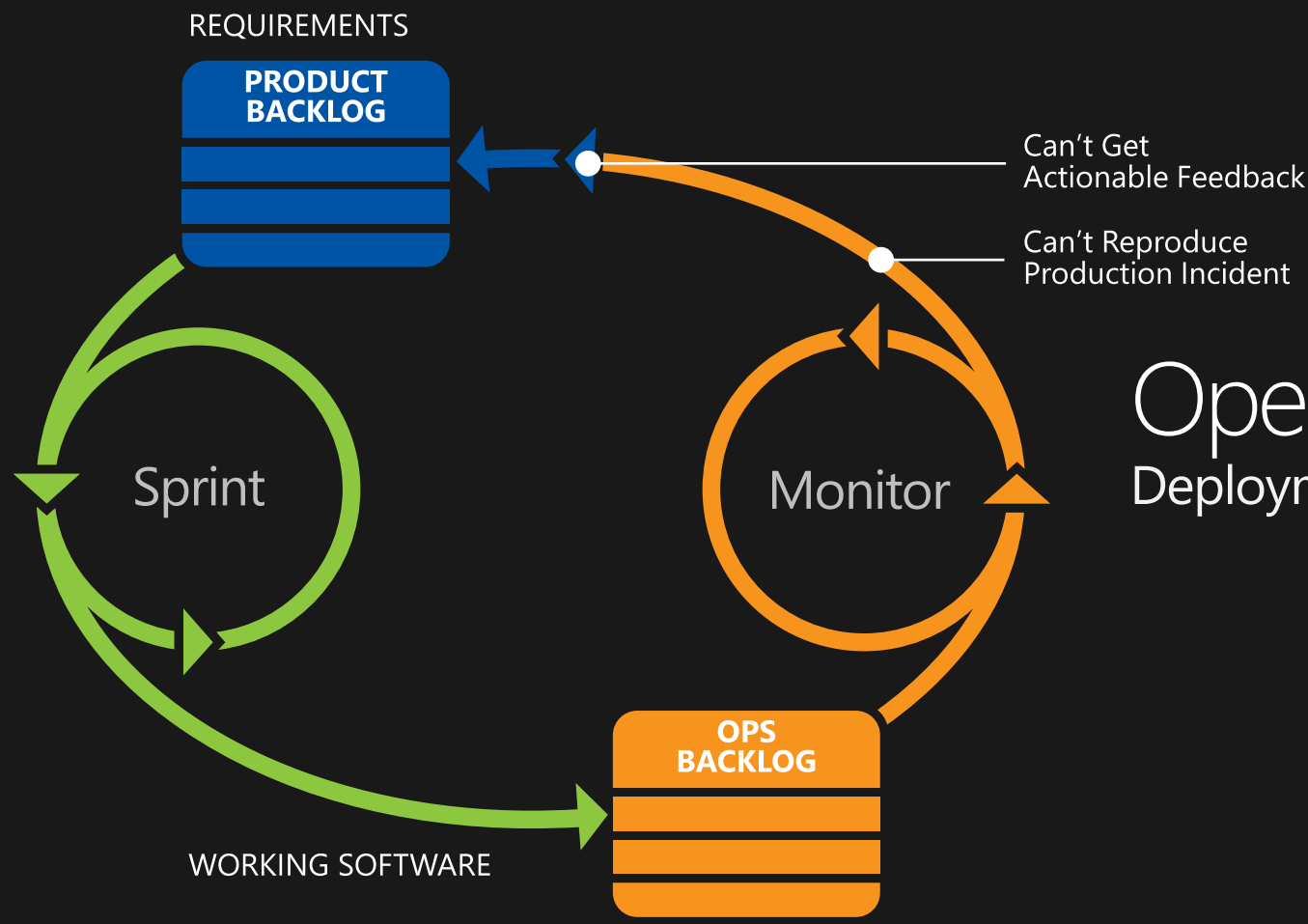
Operate
Deployment to feedback



DevOps

Define
Ideation

Develop
Idea to working software



Operate
Deployment to feedback

Continuous Value Delivery

Define

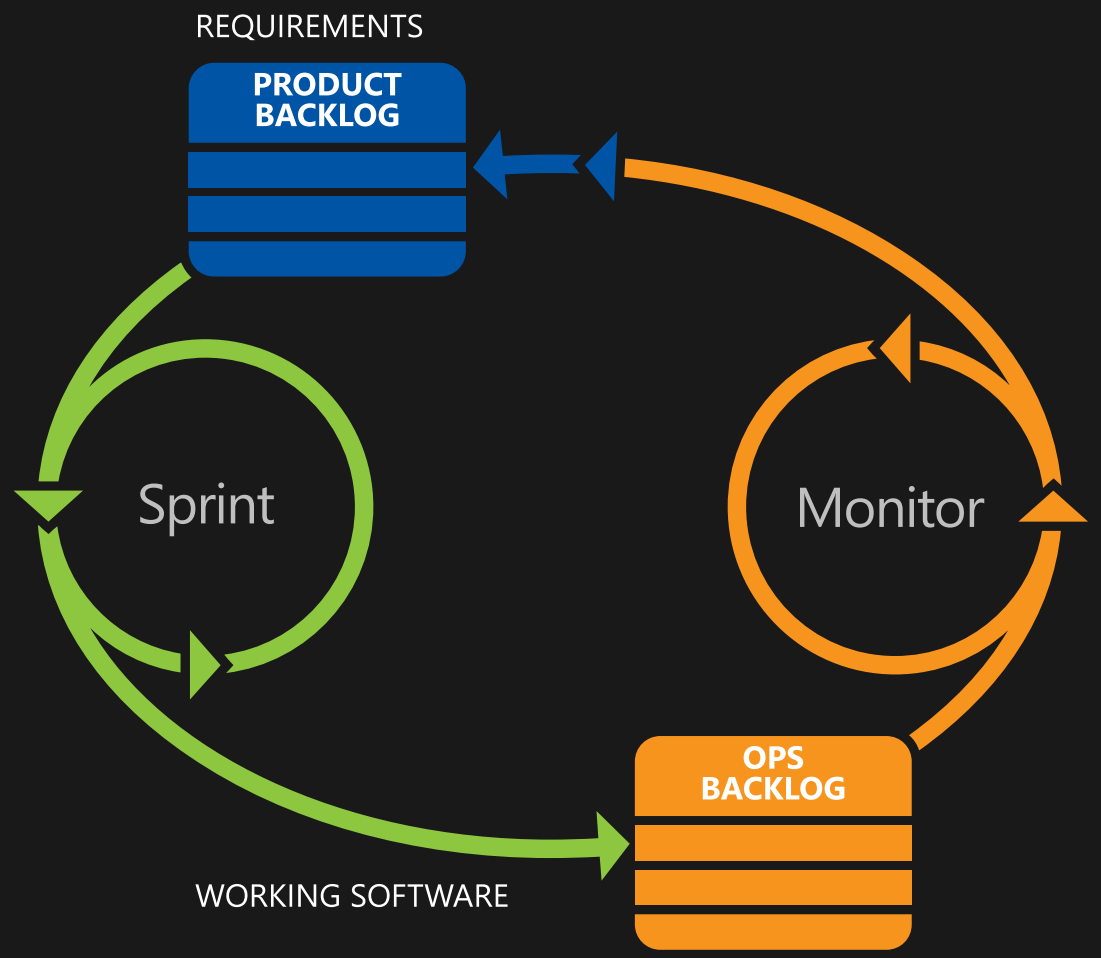
Ideation

PowerPoint storyboarding
Agile planning

Develop

Idea to working software

Suspend and resume
Code reviews
Feedback collection
Unit testing
Exploratory testing
Continuous integrations
Continuous deployments



Operate

Deployment to feedback

SCOM integration
IntelliTrace in production
PreEmptive analytics

3 Inevitabilities of Ops: (by Microsoft..)

Hardware will fail, software will have bugs, and people will make mistakes.

Getting Off On The Right Foot

Agile Planning

Centralized PBI
Prioritize user stories
Plan your iterations
Maximize team capacity
Touch-friendly task boards
Real-time burn down
Historic sprint velocity

manage
your backlog

decompose
your work

Maintain Visibility

insight
into productivity

focus
on quality

monitor
health and state of builds

track
velocity

forecast
based on historical trends

Effective Testing

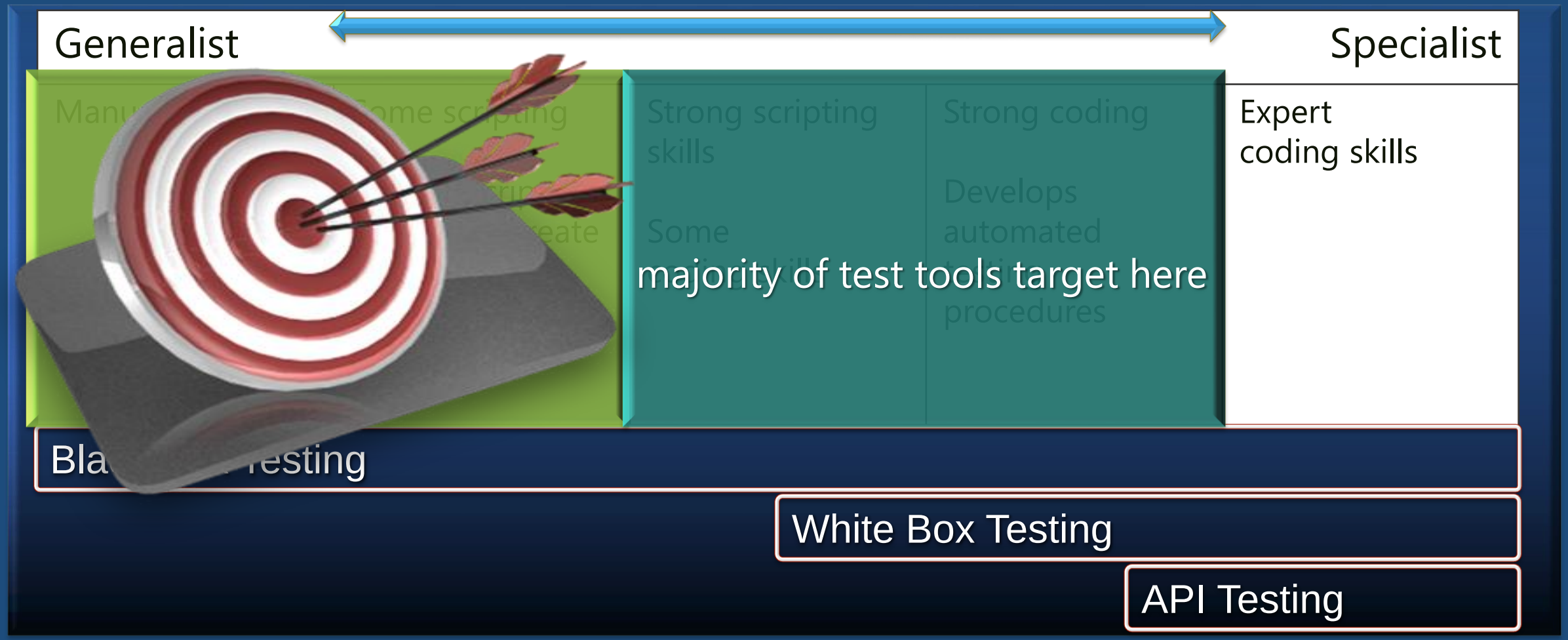
Microsoft Test Manager

Record test cases and capture rich bugs as you explore
Manual testing & fast forward
Record & playback automation testing
Data collectors for rich, actionable bugs

Virtual/Physical QA Lab

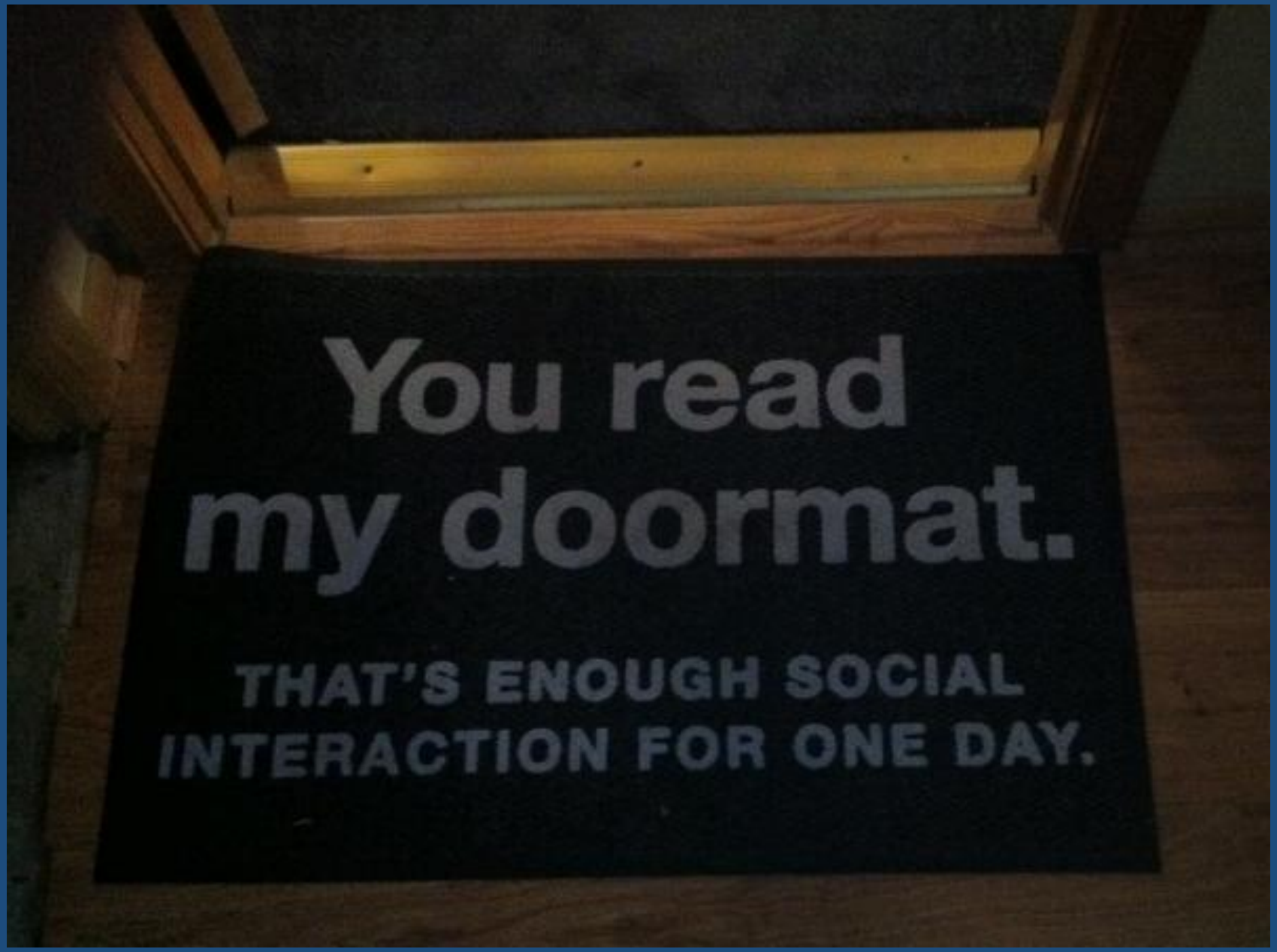
Standard environments
Test physical devices

Tester Segmentation



What usually happens when a tester finds a bug?

Graphic by Jeff Atwood (CodingHorror.com)


You read
my doormat.
THAT'S ENOUGH SOCIAL
INTERACTION FOR ONE DAY.

Challenges to Software Quality

Increasing Application Complexity

- Highly interrelated systems/services
- Cloud systems

Low Tolerance for Failure

- Increasing regulatory scrutiny
- Cost of software failure is very high

QA seen as the “preventer of software release”

- Caught between app complexity and low tolerance of failure
- Just In Time QA at the end of the cycle

Challenges to Development

Push to "Do More With Less"

- Economic downturn
- Rising software cost
- People/Training investment

Low Efficiency

- Utilize existing assets more efficiently, broadly
- Green IT movement
- Increase project velocity

Silos Across Teams

- Skills/Tooling
- Process and Languages
- No Repro Bugs

Comments from Test/QA Managers

"my testers are spending too long testing the same thing"

"developers and testers work in silos and don't communicate/speak the same language"

"we have a changed requirement, what do I need to test?"

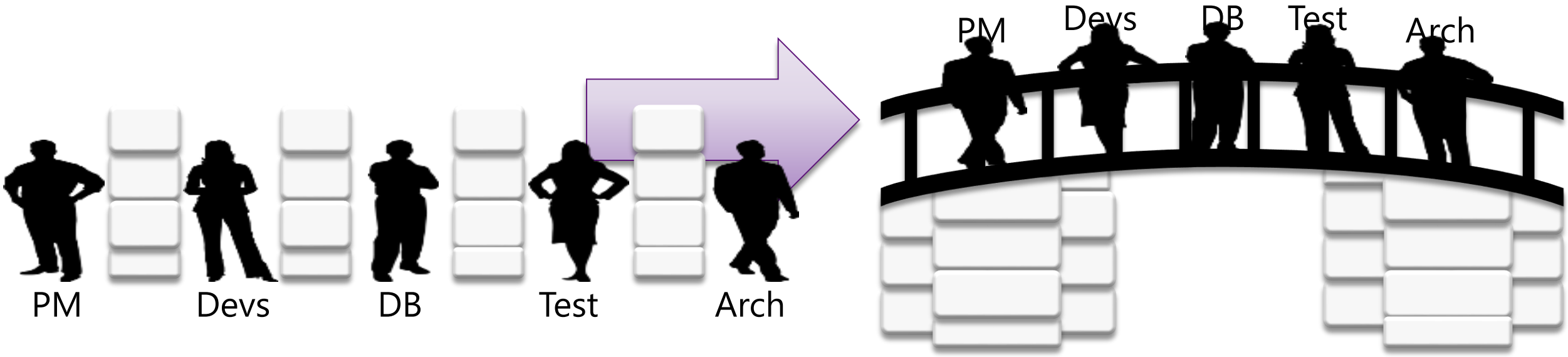
"tooling is expensive (time, licenses, people)"

"when is my software ready to ship?"

"the developers say the defects are useless"

Evolution of people and contexts

Trustworthy Transparency bridges the team



Testing Across the Lifecycle

An integrated offering optimized to discover issues early and streamline the flow actionable information

Manual Testing

The majority of testing is done here 'no more, no repro'

- **Actionable feedback**
- **Fast forward for manual testing**

70% Testing Here

Virtualized Labs

Dramatically improving the build, deploy test workflow

- **Test from an on-demand, known state**
- **Snapshot complex environments**

Test Management

A 360 degree view of relationships and progress ensures you are ready to ship.

- **Transparency across all roles**
- **Streamlined flow of feedback**

Developer Test

As code is developed automate critical tests

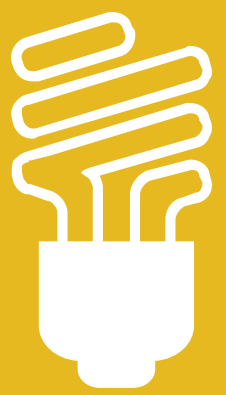
- **Unit testing, Code Coverage, Coded UI Testing**
- **Test impact analysis, Gated Check-ins**

Performance & Load

Find problems early lowering the impact of design flaws

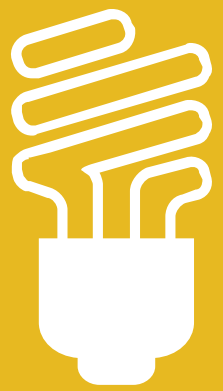
- **Validate design decisions**
- **Simulate production load**

Start Workshop



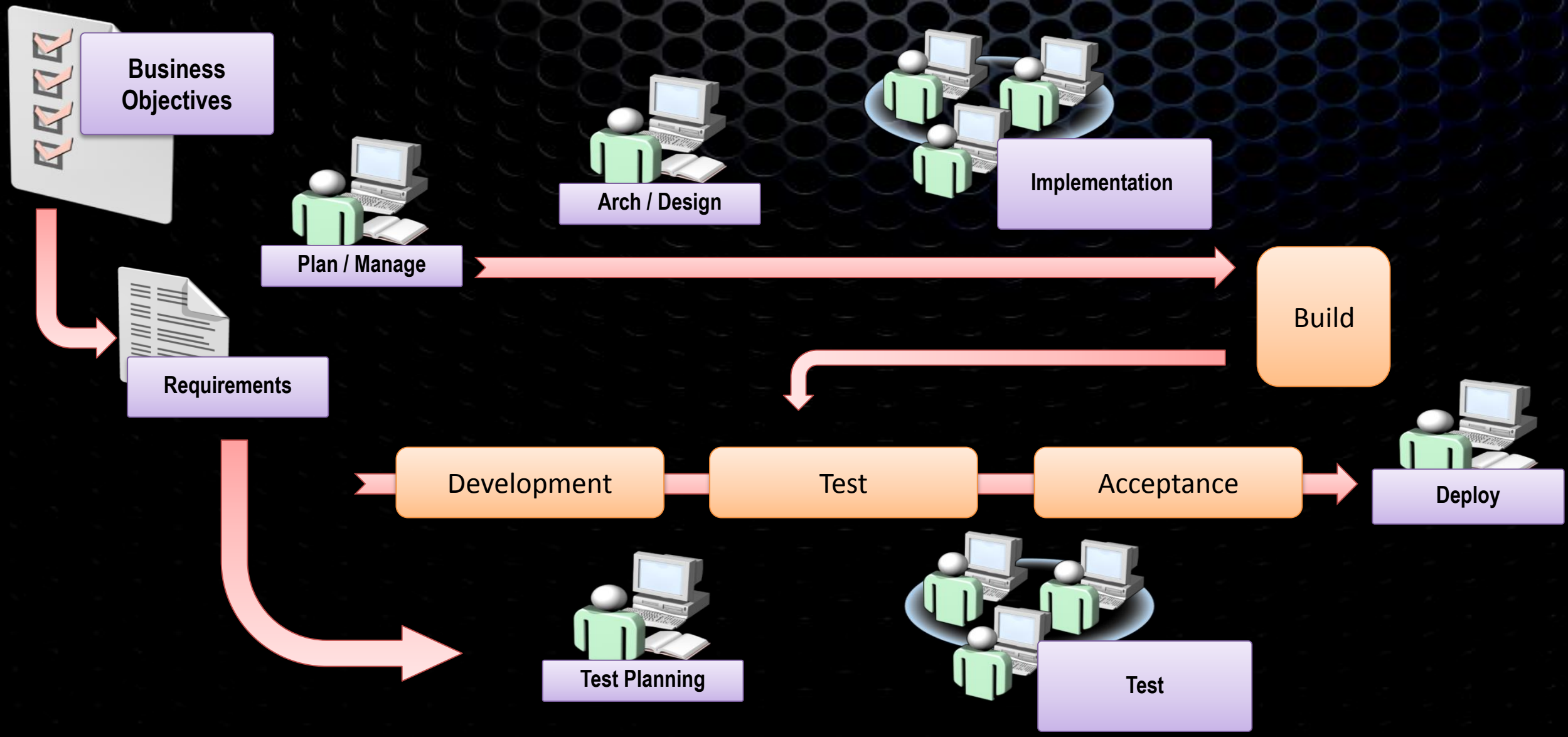
En dan nu.. “Hands-on” ☺

Wrap Up



Informatie/Downloads

ALM, de ontwikkel en Test Lifecycle=MSDN/Licenties



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Lage prijzen, tijdelijke kortingen waarvoor u in aanmerking kunt komen en de nieuwste versie bij marktintroductie als u vandaag nog besluit om Visual Studio met MSDN aan te schaffen

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- **Haal alles in huis wat u nodig hebt.** Maak gebruik van de technologie van Team Foundation Server, IntelliTrace en prestatieanalyse. Daarnaast hebt u rechtstreeks toegang tot Windows Server, SharePoint, SQL Server en meer dan 12.000 andere downloads. en ontvangt u de nieuwste versie wanneer deze wordt uitgebracht.
- **Mogelijkheden voor de toekomst.** Begin vandaag nog met het bouwen van uw Visual Studio 2010-applicaties en breid deze in de

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Een MSDN-abonnement toevoegen
Speciale aanbieding: u kunt tot wel 35% besparen op aanschaf van MSDN →

Besparingen voor testers
Speciale aanbieding: Bespaar 20% op Visual Studio Test Professional met MSDN →

Probeer Visual Studio 2012 RC vandaag nog →

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- Via MSDN hebt u rechtstreeks toegang tot Windows Server, SharePoint en SQL Server en kunt u meer dan 12.000 andere opties voor Microsoft-servers, -tools en -applicaties downloaden.

Scenarios & Information

1. **Eliminate bugs:**
   http://www.microsoft.com/visualstudio/en-us/scenarios/eliminate-bugs
2. **Manual Testing:**
   http://www.microsoft.com/visualstudio/en-us/scenarios/manual-testing
3. **Virtual Labmanagement:**
   http://www.microsoft.com/visualstudio/en-us/scenarios/virtual-lab-management

Scenarios & Information cont'd

1. **Building the Business Case**
   http://go.microsoft.com/?linkid=9776094

2. **Test Release Management**
   http://vsartestreleaseguide.codeplex.com/

3. **Planning, set up and configuring Test Labs**
   http://vsarlabman.codeplex.com/

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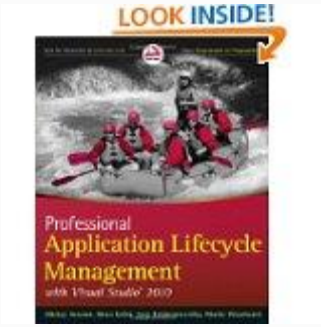
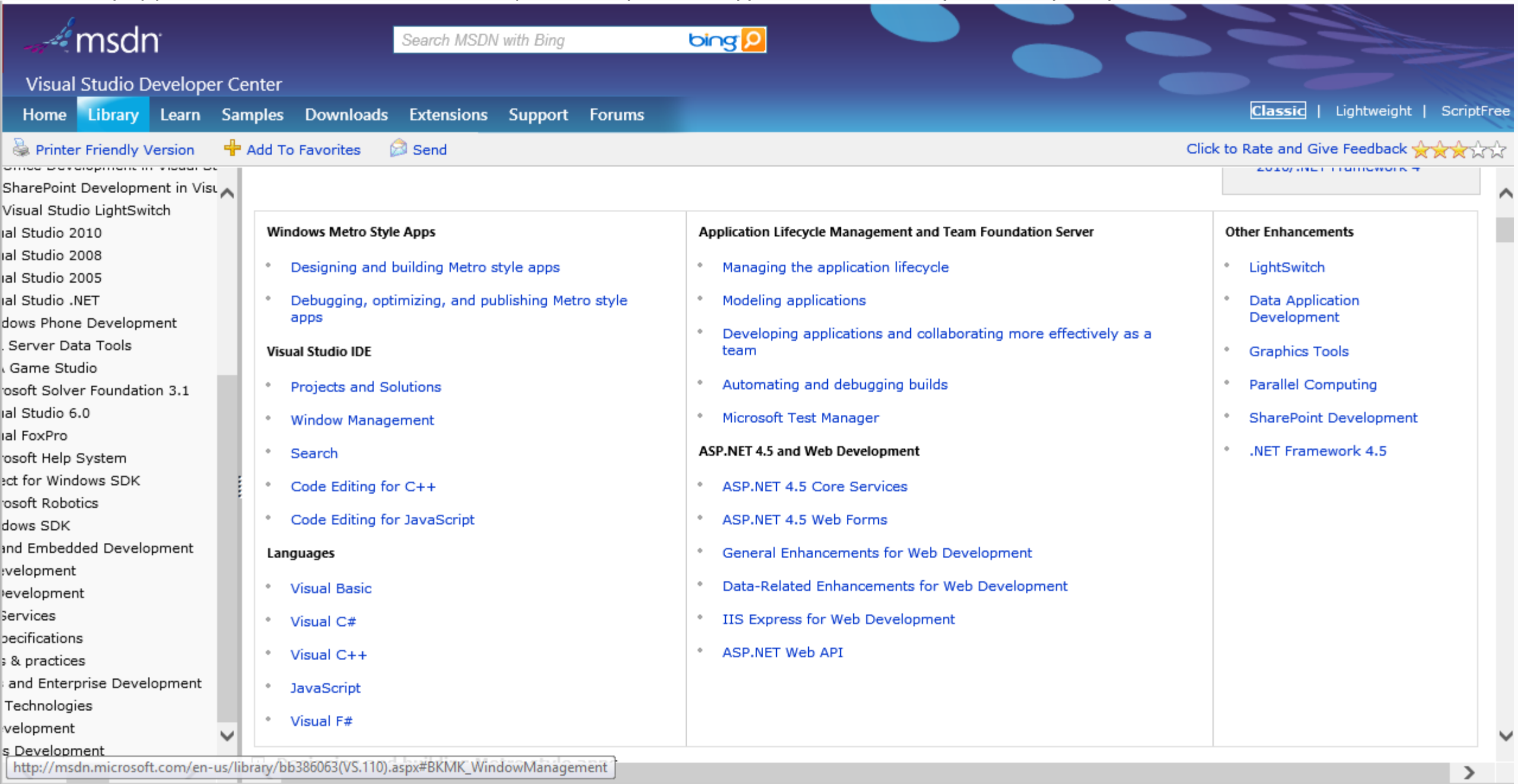
Microsoft ALM Resources



- **Team Foundation Server MSDN Page**
  - http://msdn.microsoft.com/en-us/vstudio/ff637362.aspx
- **Microsoft Visual Studio Team Foundation Server 2012 RC**
  - http://www.microsoft.com/visualstudio/en-us
- **Brian Harry's Blog Site**
  - http://blogs.msdn.com/b/bharry/
- **Channel 9 Team Foundation Server Videos**
  - http://channel9.msdn.com/tags/TFS/
- **Background info via Books/Whitepapers**
  - **http://www.microsoft.com/learning/en/us/book.aspx?ID=11240&locale=en-us**
- **Rangers informatie (Planning, Best Practices)**
  - **http://vsarplanningguide.codeplex.com/**

Patterns & Practises (NB. INFO OPNEMEN)

http://msdn.microsoft.com/en-us/library/bb386063(VS.110).aspx



Go get started!

- Download the RC: www.microsoft.com/VisualStudio/11
- Download the ALM VM: http://aka.ms/VS11ALMVM

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