

Test Workshop 11 juli 2012



Hands-on met Microsoft Test Manager

Jan Willem van Buuren & Clemens Reijnen



Software Delivers Business Value

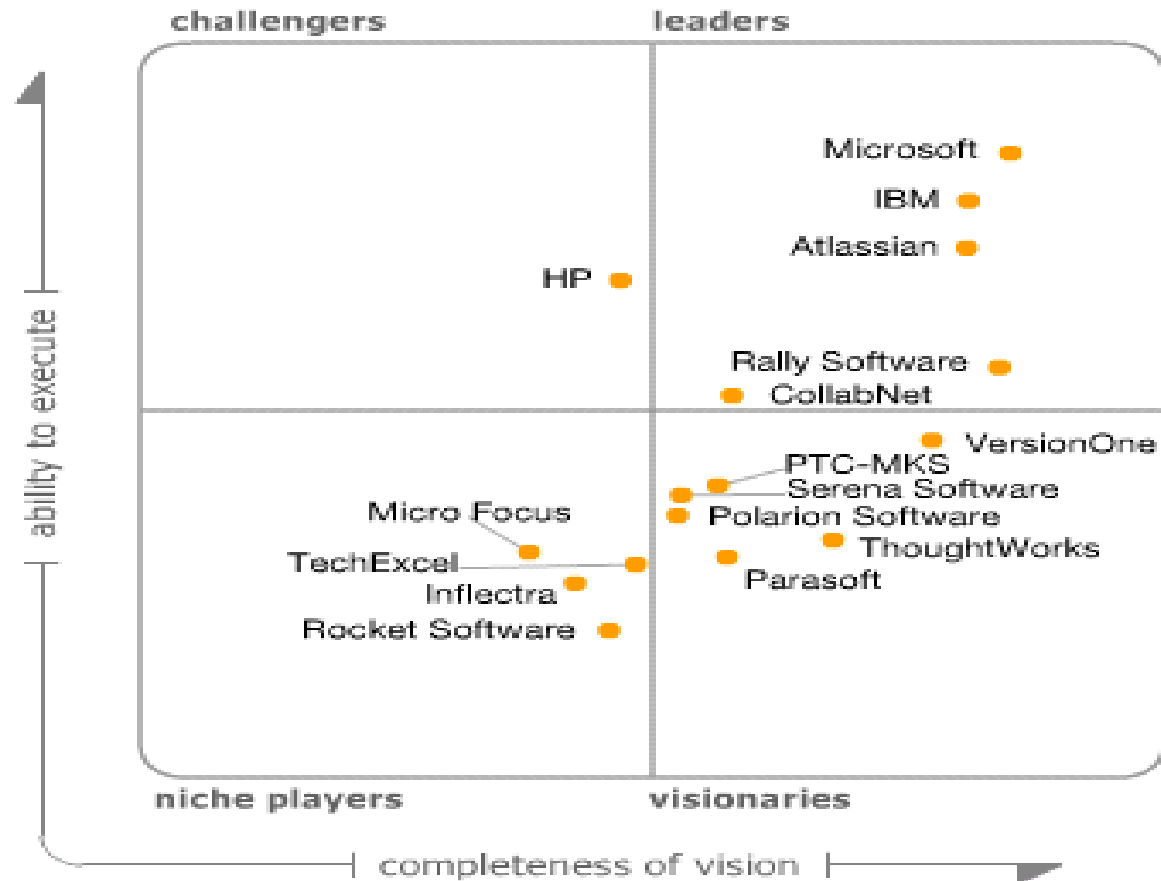
“Executives leading enterprises in highly competitive markets are always looking to respond faster and more effectively to market opportunities by delivering more value to customers and beating the competition... These efforts in turn create critical new objectives for application delivery organizations...”

– 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

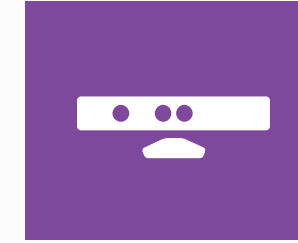
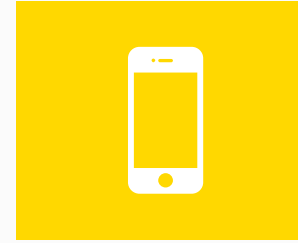


As of May 2012

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.

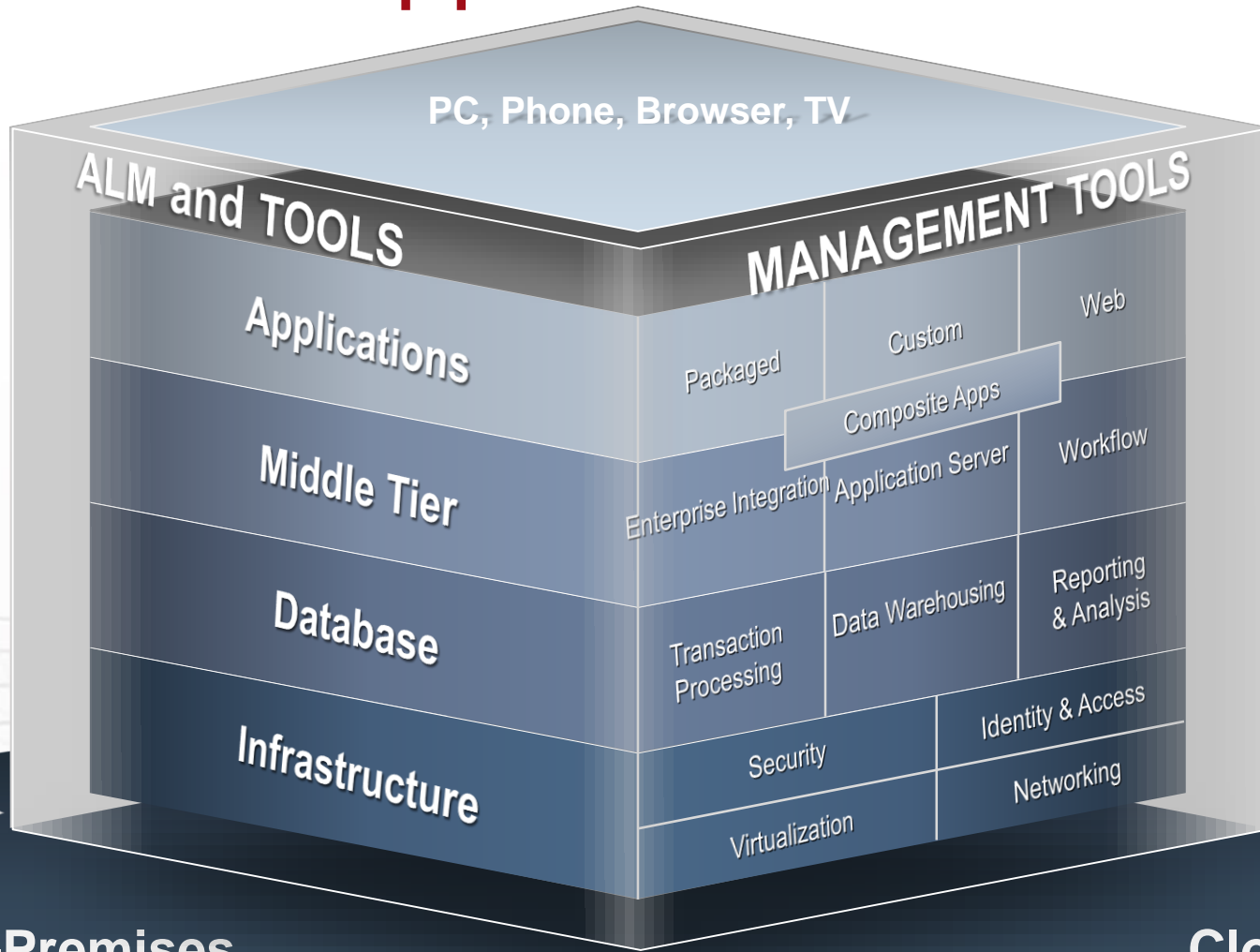


Microsoft®
Office 365



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

Software Development Practices

AGILE

QUALITY ENABLEMENT

DEVOPS

CONTINUOUS DELIVERY

Trends to... Visual Studio 2012

Touch



Connected



Consumerization
of IT



Social



Cloud/Services



Visual Studio Family

DEVELOP



ACCESS

INTEGRATE

Office

Web Access

SharePoint

Team Explorer Everywhere

Version Control

Customizable Processes

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

Engineering Trends

Agile practices



Developer services



Testing advances



DevOps

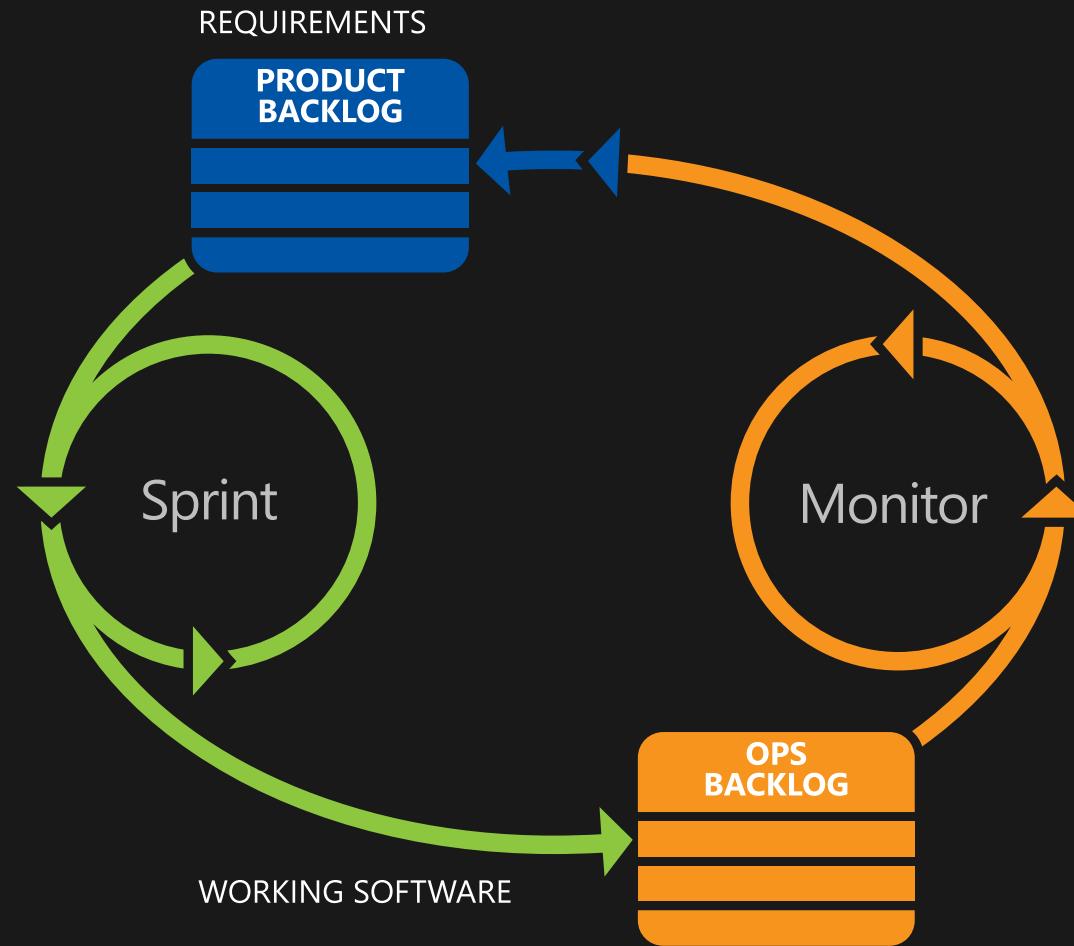


Continuous Value Delivery

Define
Ideation

Develop
Idea to working software

Operate
Deployment to feedback

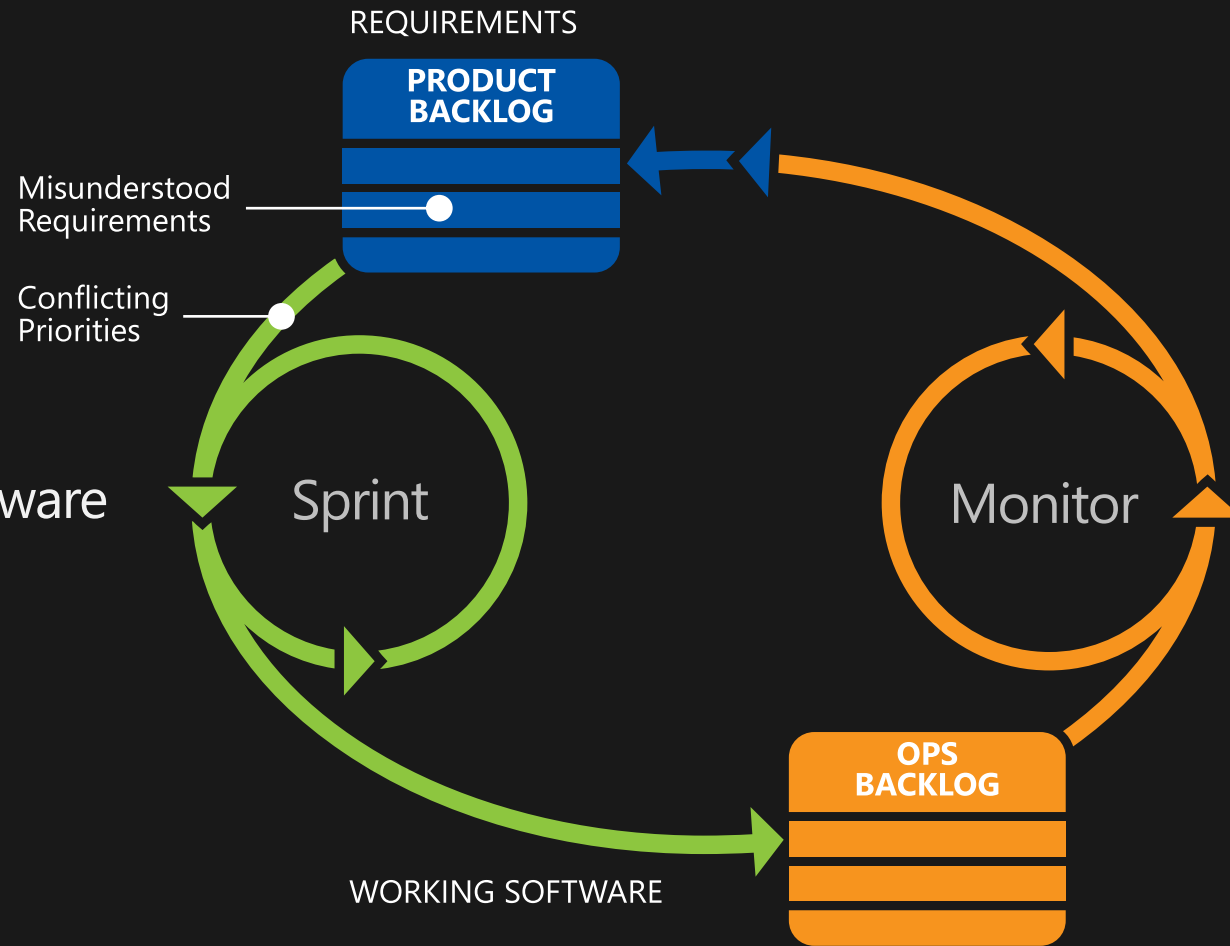


Stakeholder Involvement

Define
Ideation

Develop
Idea to working software

Operate
Deployment to feedback

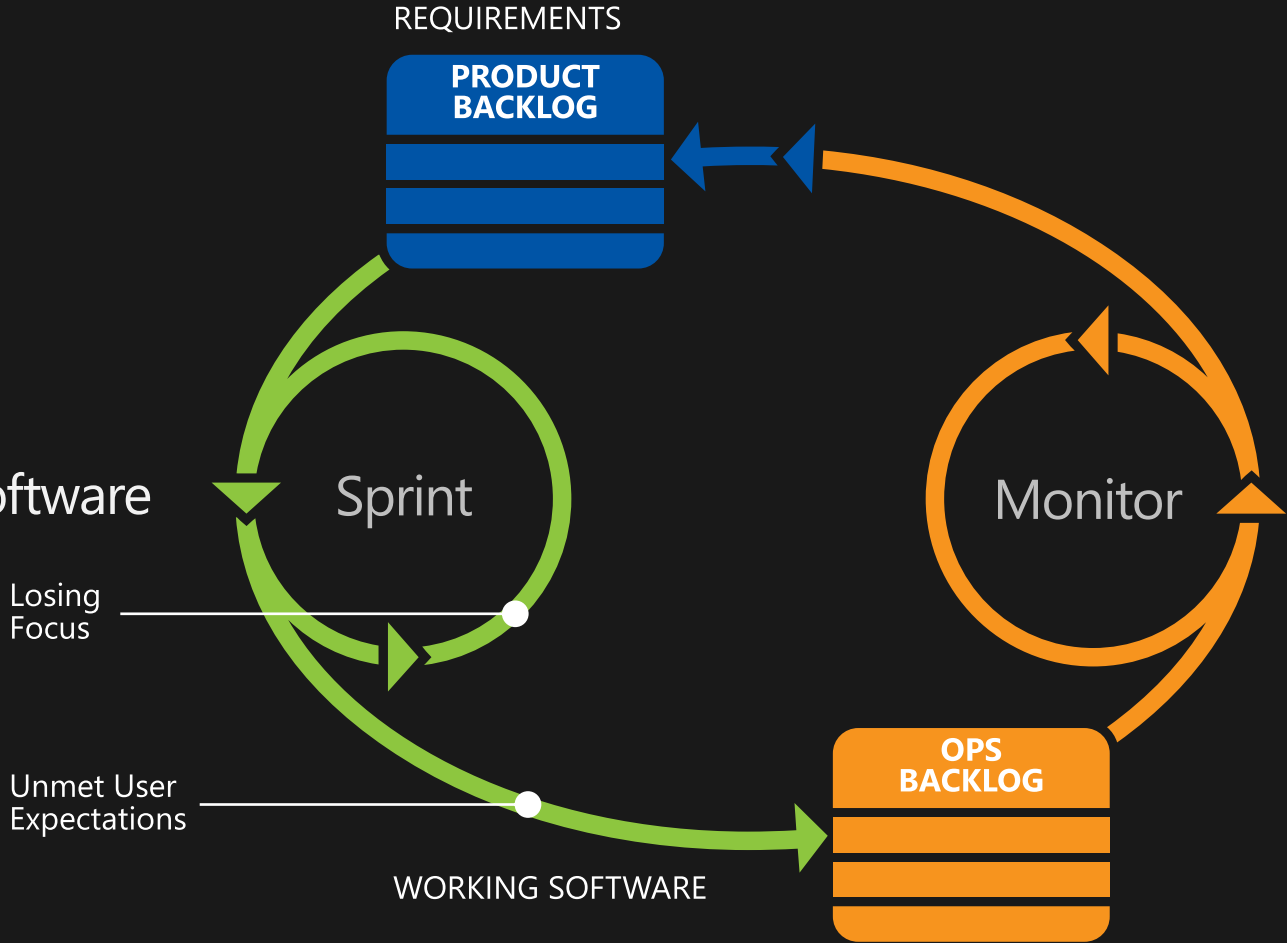


Development Team Productivity and Integration

Define
Ideation

Develop
Idea to working software

Operate
Deployment to feedback

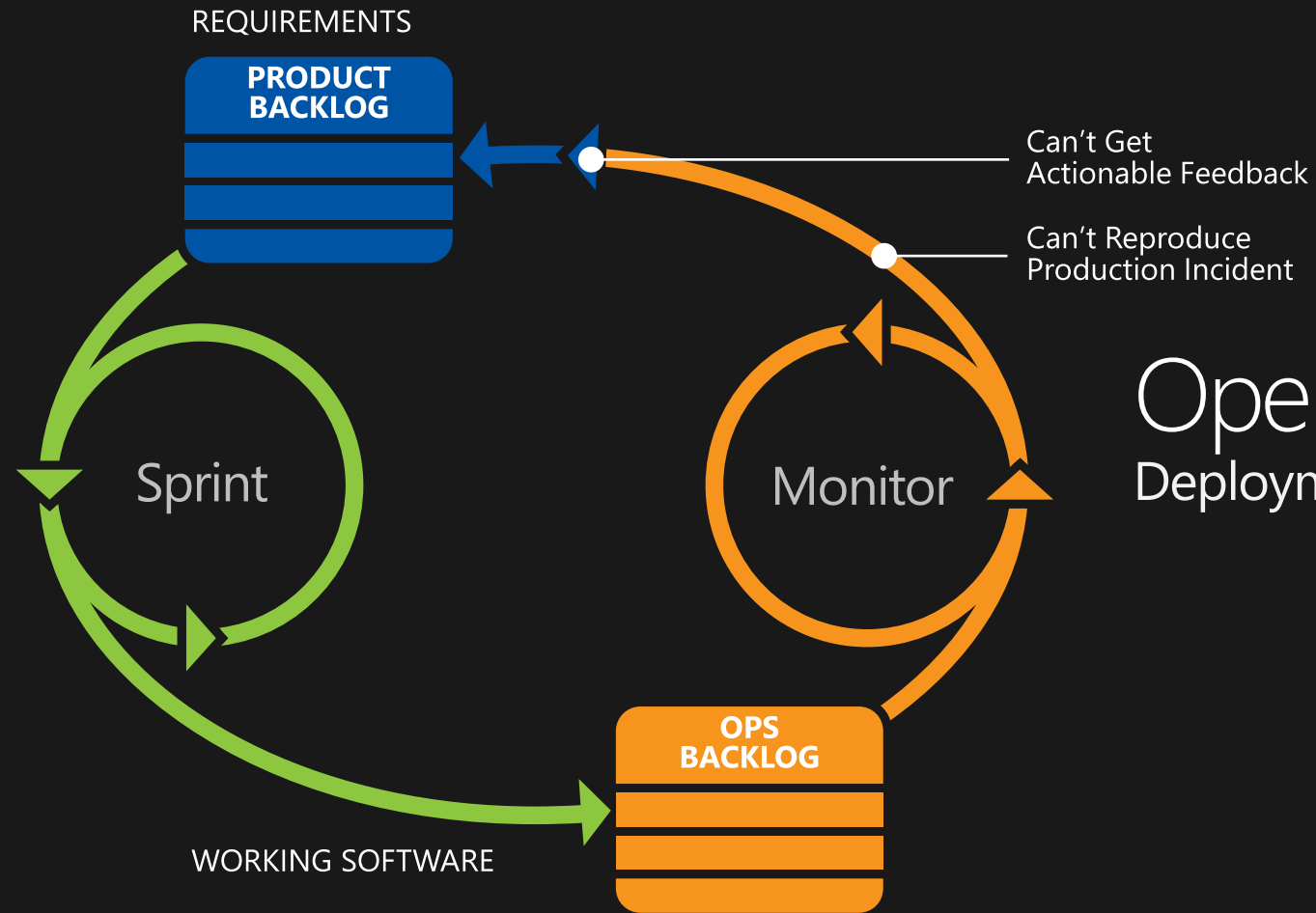


DevOps

Define
Ideation

Develop
Idea to working software

Operate
Deployment to feedback



Continuous Value Delivery

Define

Ideation

PowerPoint storyboarding
Agile planning

Develop

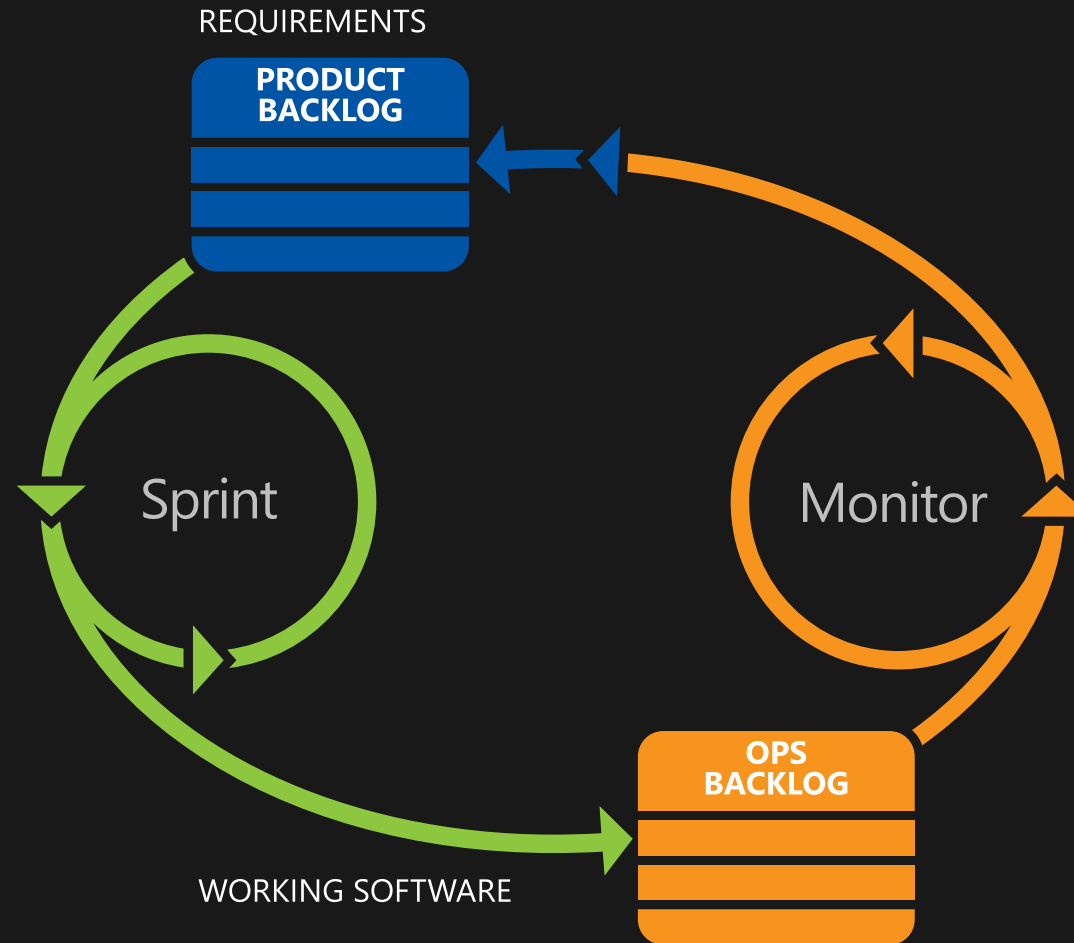
Idea to working software

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

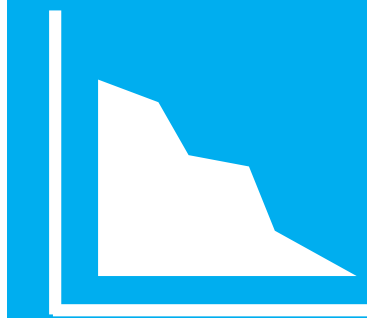
insight
into productivity

track
velocity



focus
on quality

monitor
health and state
of builds



forecast
based on
historical trends

Effective Testing

Microsoft Test Manager

Record test cases and capture rich bugs as you explore

Manual testing & fast forward

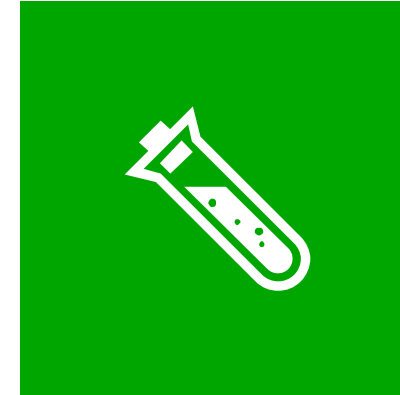
Record & playback automation testing

Data collectors for rich, actionable bugs

Virtual/Physical QA Lab

Standard environments

Test physical devices

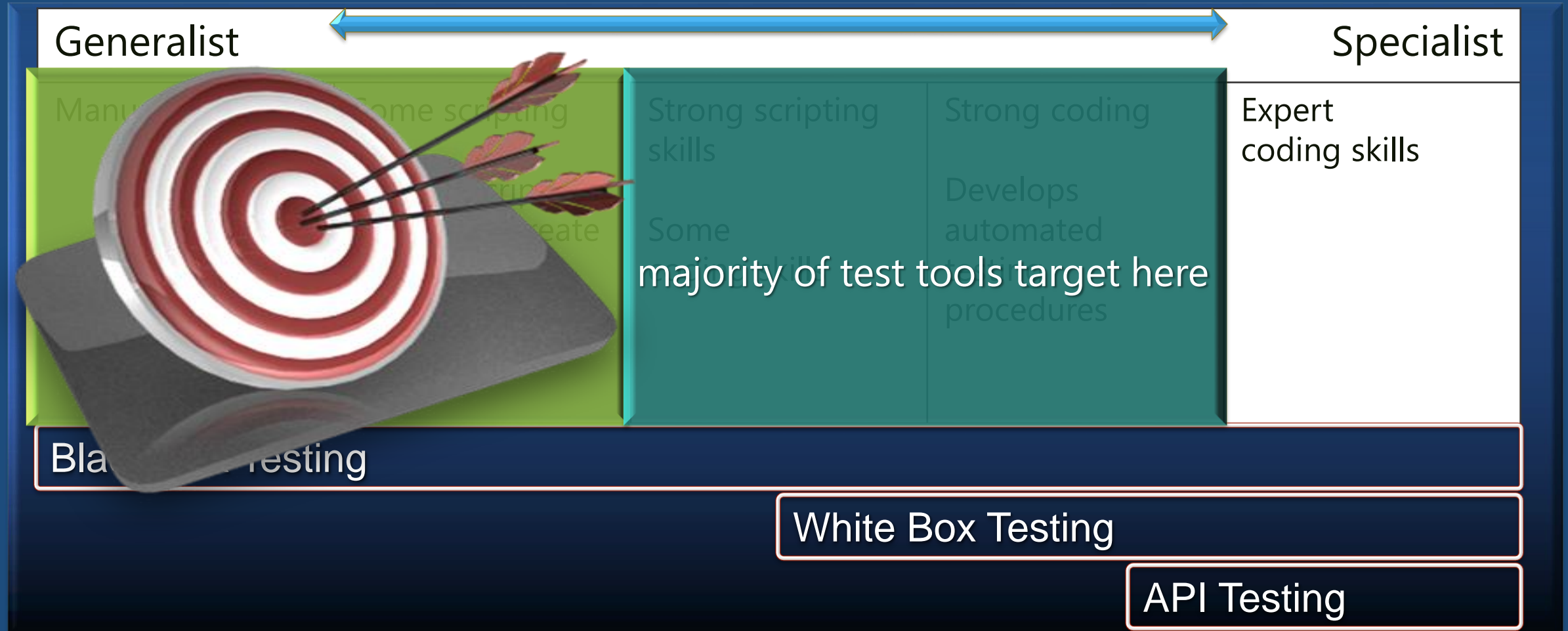


centralize
test case
management

team up
developers and
testers

manage
test
environments

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?"

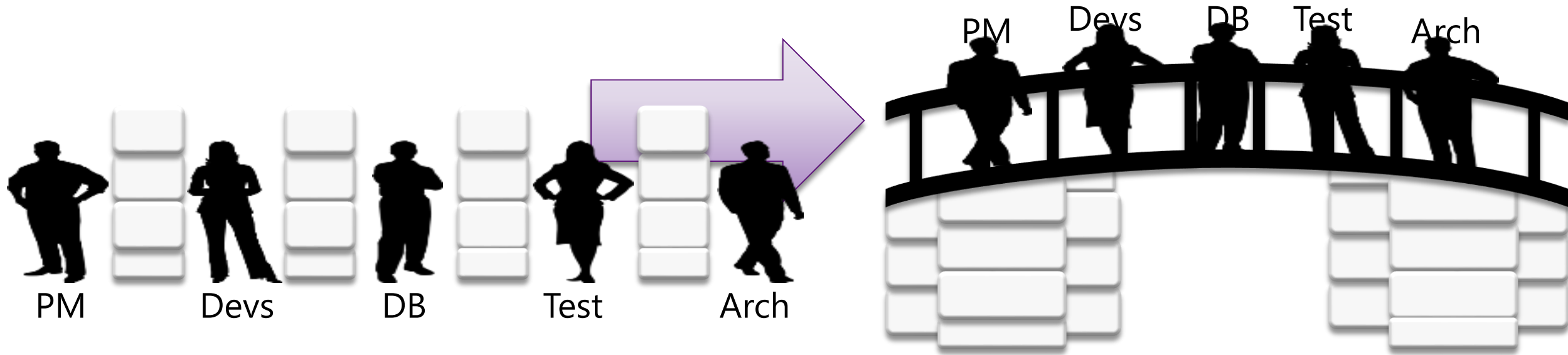
"tooling is expensive (time, licenses, people)"

"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

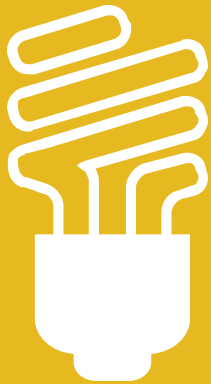
- **Unit testing, Code Coverage, Coded UI Testing**
- **Test impact analysis, Gated Check-ins**

Performance & Load

Find problems early lowering the impact of design flaws

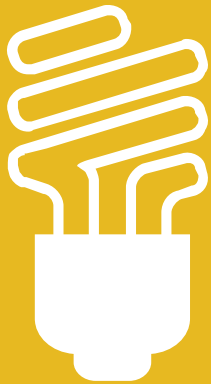
- **Validate design decisions**
- **Simulate production load**

Start Workshop



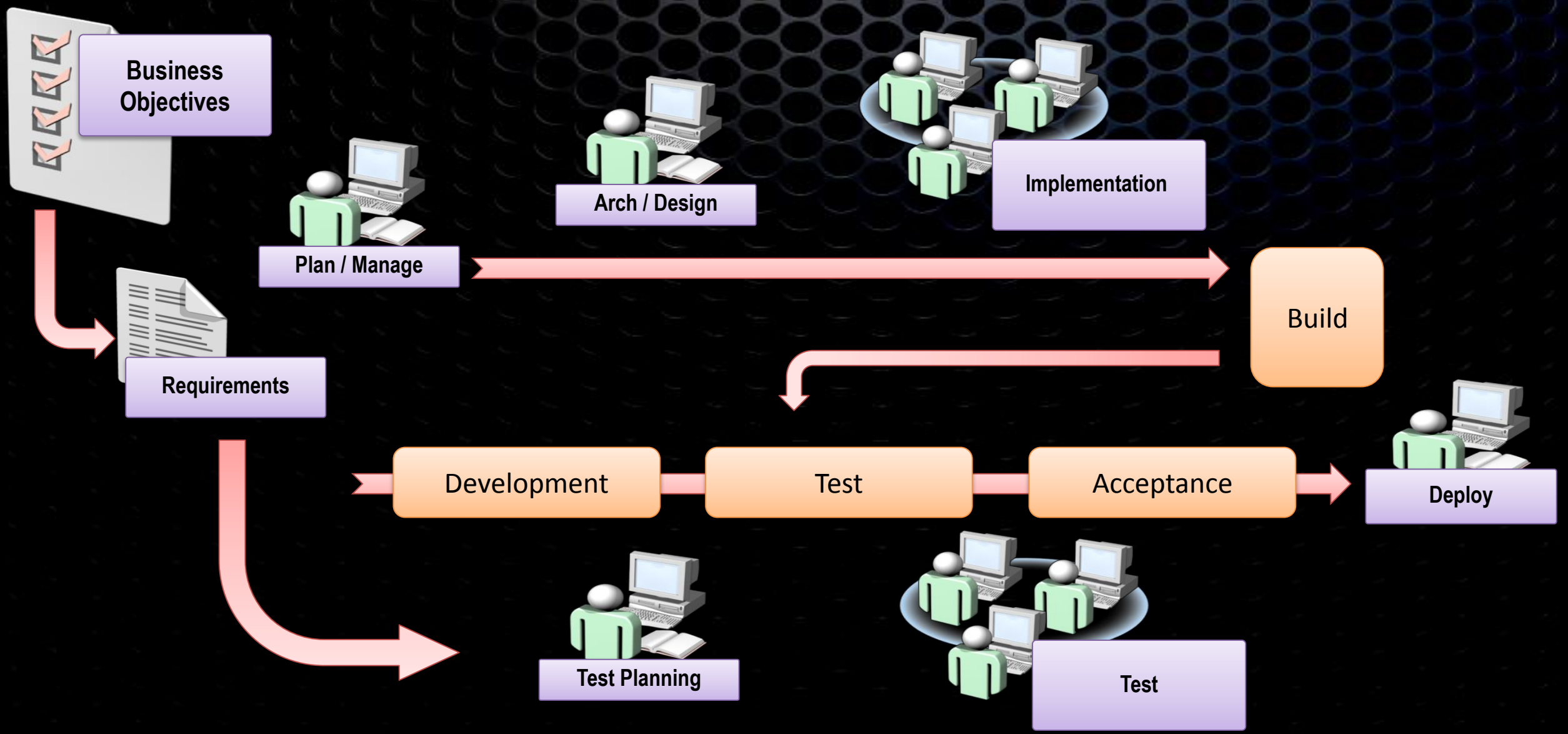
En dan nu.. "Hands-on" 😊

Wrap Up



Informatie/Downloads

ALM, de ontwikkel en Test Lifecycle=MSDN/Licenties



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Nu is het moment
om uw toekomst in eigen
hand te nemen

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

Iedereen bespaart vandaag op Visual Studio met MSDN

Nu Visual Studio met MSDN kopen of upgraden, betekent profiteren van ongelooflijke kortingen. Wacht niet langer:

- **Lage prijzen.** Er worden prijswijzigingen doorgevoerd. Wees er snel bij om Visual Studio tegen de huidige lagere prijs aan te schaffen.
- **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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Speciale aanbieding: u kunt tot wel 35% besparen op aanschaf van MSDN →

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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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The Team System Café aggregates and showcases the latest information concerning Visual Studio, Team Foundation Server, product information resources, FAQ's, blog posts, and events.

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There's no better time to seize the future! Find out how you can save today.

NEU There's no better time to seize the future! Now is the time to buy or upgrade to Visual Studio with MSDN and save big.
Posted on Friday, March 09, 2012 10:08 AM by Randy.

Visual Studio 11 Beta Available now!

NEU Visual Studio 11 Beta Available now!
Posted on Wednesday, February 29, 2012 8:19 AM by Randy.

A Sneak Preview of Visual Studio 11 and .NET Framework 4.5 Beta

Sneak Preview of Visual Studio 11 and .NET Framework 4.5 Beta
Posted on Thursday, February 23, 2012 11:56 AM by Randy.

Team Foundation Server 11 Express Coming Soon

TFS 11 will offer Team Foundation Server Express
Posted on Thursday, February 23, 2012 11:55 AM by Randy.

Check out the Team Foundation Service Preview!

Software Downloads for the Team Foundation Service Preview
Posted on Thursday, January 19, 2012 7:20 PM by Randy.

QUEST 2012 Quality Engineered Software and Testing Conference

QUEST 2012 Conference is the best source for new technologies and proven methods for Quality Engineered Software and Testing. Thou...
Posted on Friday, January 06, 2012 10:06 AM by Randy.

Ultimate Guide to Visual Studio 2010 Tour Content

Zain Naboulsi and Clint Edmonson traveled around the region delivering our awesome Ultimate Guide to Visual Studio 2010. Here is t...
Posted on Monday, November 28, 2011 6:00 AM by Randy.

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- There's no better time to seize ...
- Guidance for Structuring Team Pr...
- TFS SCM Version Tree Browser
- TFS 2008 Branching Guide 2.0
- Get Started Building Silverlight...

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- ALM Catalyst Website
- Channel 9 on Visual Studio
- Develop at Light Speed on the La...
- Promotions for Visual Studio Tea...
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- Brian the Build Bunny
- Cross-browser_Cross-platform_a...
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- Jeff Blankenburg
- Visual Studio ALM Community Blog...
- Brian Prince
- David Giard
- Visual Studio Tips and Tricks
- Something can be learned in the ...

Brew of the Day

Courage is what it takes to stand up and speak; courage is also what it takes to sit down and listen.

http://www.teamsystemcafe.net

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freshly brewed news

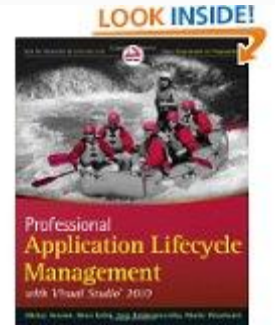
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help on training books FAQs

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)





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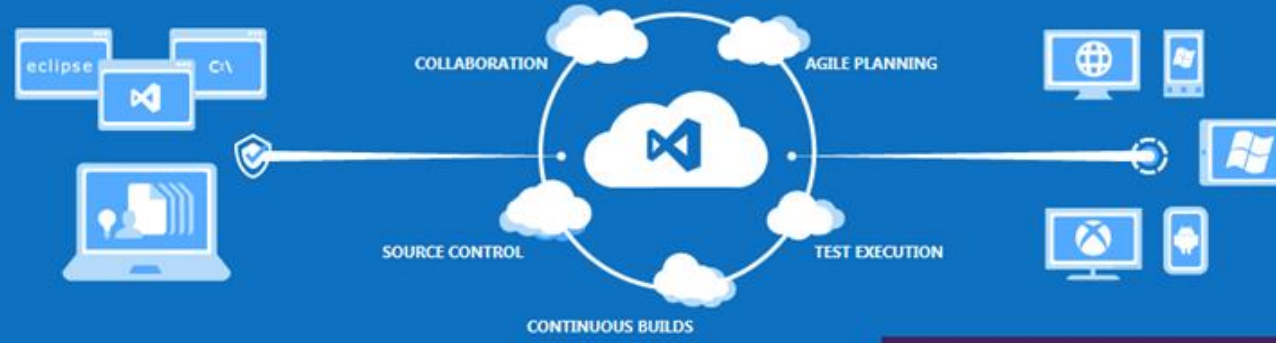
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Go get started!

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

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