



A lap around Team Foundation Server 2015 en Visual Studio 2015

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Think ahead. Act now.



About me

Also Scrum Master



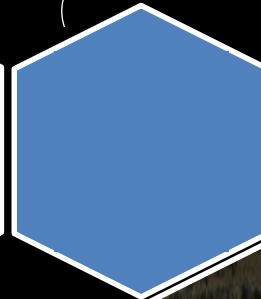
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Me



Husband & father



@renevo



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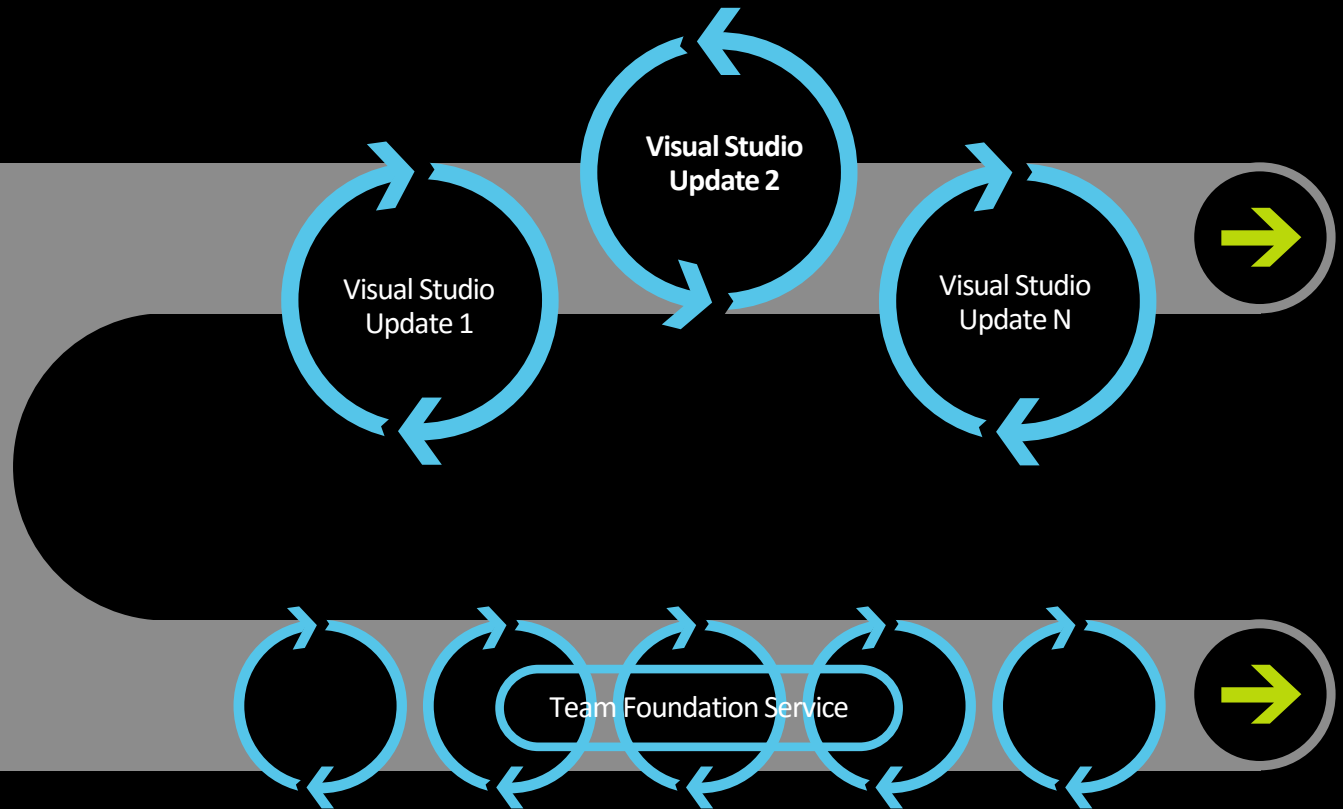
Disclaimer



Is het 2013.X of 2015?



Visual Studio continuous value delivery



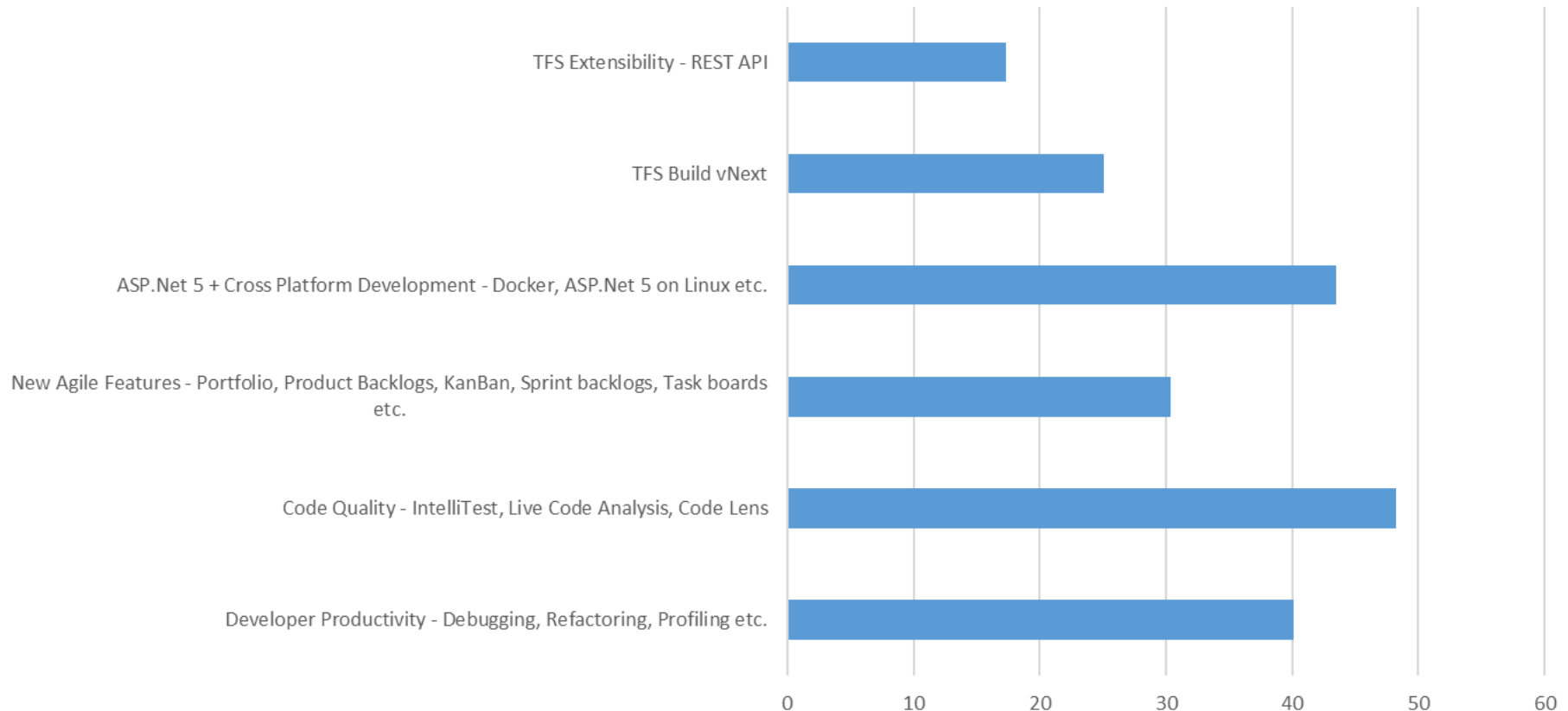
Agenda

- VS 2015 overview
- Agile Features in TFS 2015
- Developer productivity
- Code Quality
- Cross-Platform development
- ASP.Net 5
- Build vNext
- Optional - TFS Extensibility
- Optional - Monitoring your application
- Most Request feature on Uservoice !

SLIDES WILL BE AVAILABLE

Too much VS 2015 for one session

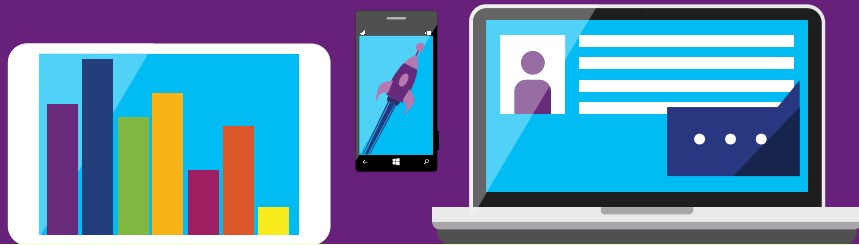
Agenda





Microsoft Vision

Every App



Every Developer





Visual Studio 2015 pillars



Cross-Platform



Productivity



DevOps

Visual Studio Editions

Visual Studio Community



Free, full-featured and extensible tool for developers building non-enterprise applications

Visual Studio Professional with MSDN



Professional developer tools and services for individual developers or small teams

Visual Studio Enterprise with MSDN



Enterprise grade solution with advanced capabilities for teams working on projects of any size or complexity, including advanced testing and DevOps



Visual Studio Code



OS X, Linux, Windows

Lightweight, keyboard focused navigation

IntelliSense, GoTo Def, refactoring

Easily run build, test, and external tasks

Lightweight Git source code control

Integrated Node, .NET debugging

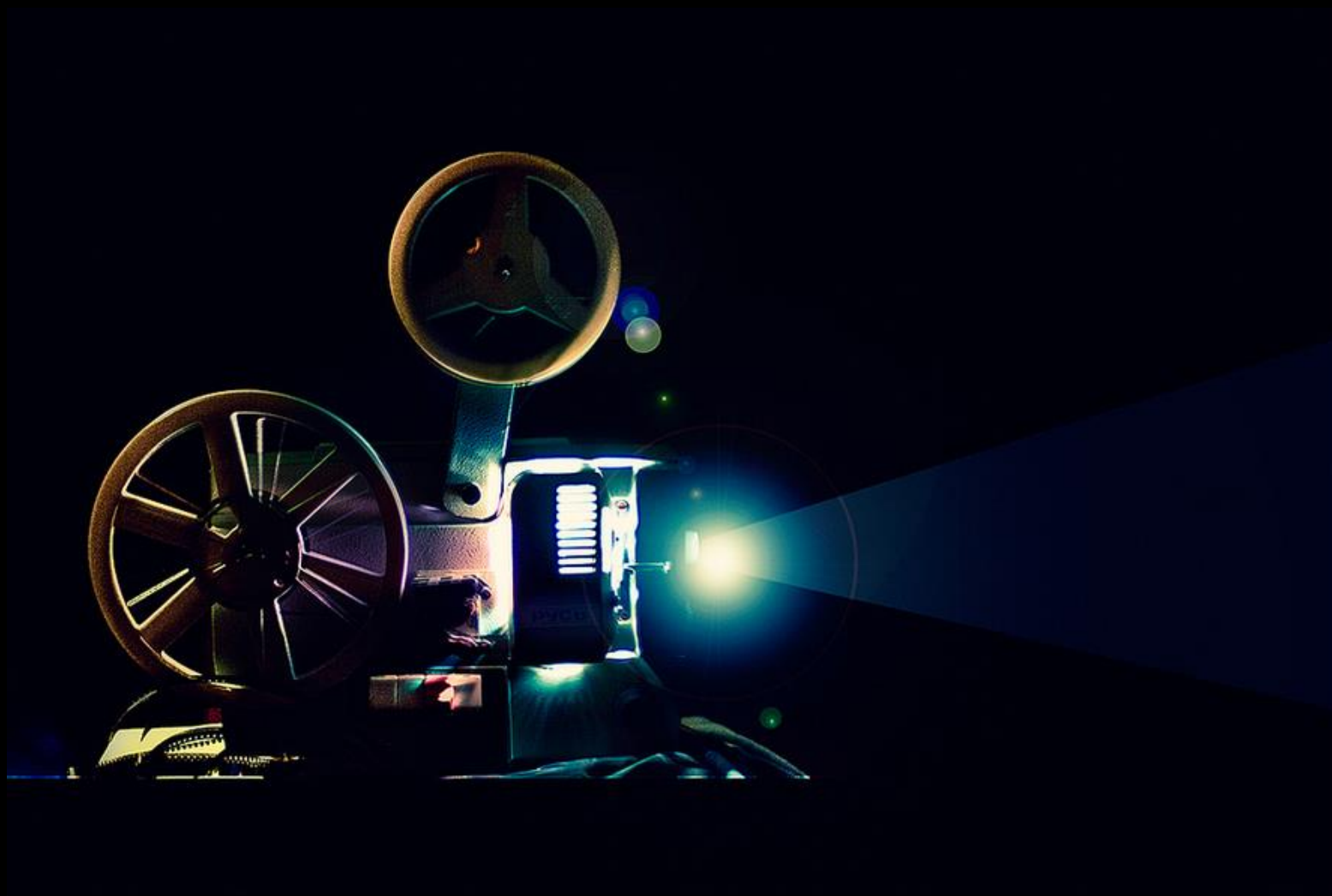
Coming soon... Extensible platform



Licentie changes

- Stakeholder License
- Premium → CAL
 - Agile Planning
 - Charts
 - Team Rooms
 - Test Hub
- Ultimate → Pro +
 - Code Lens
 - My Work
- Premium → Community +
 - Code Review

Demo



Code Quality

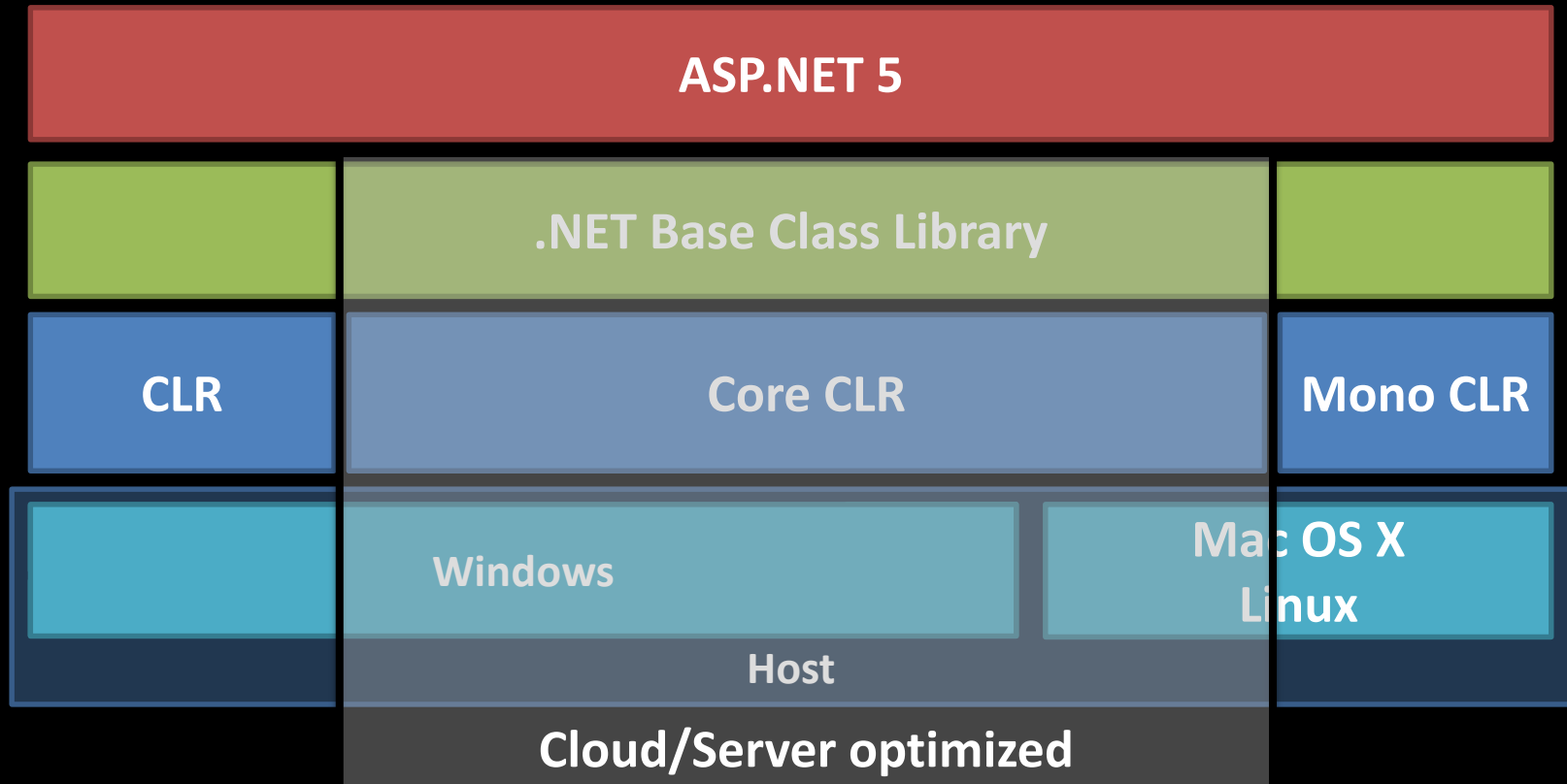
- Code Lens
- IntelliTest
- Live Code Analyzers







.NET vNext Technology Stack





ASP.NET 5 on .NET vNext

ASP.NET 5.0

Full .NET CLR

- Entire API set in machine wide install (200 MB)
- Updated with OS
- Ecosystem of existing packages
- Backward compatibility
- Default for Visual Studio 2015 projects

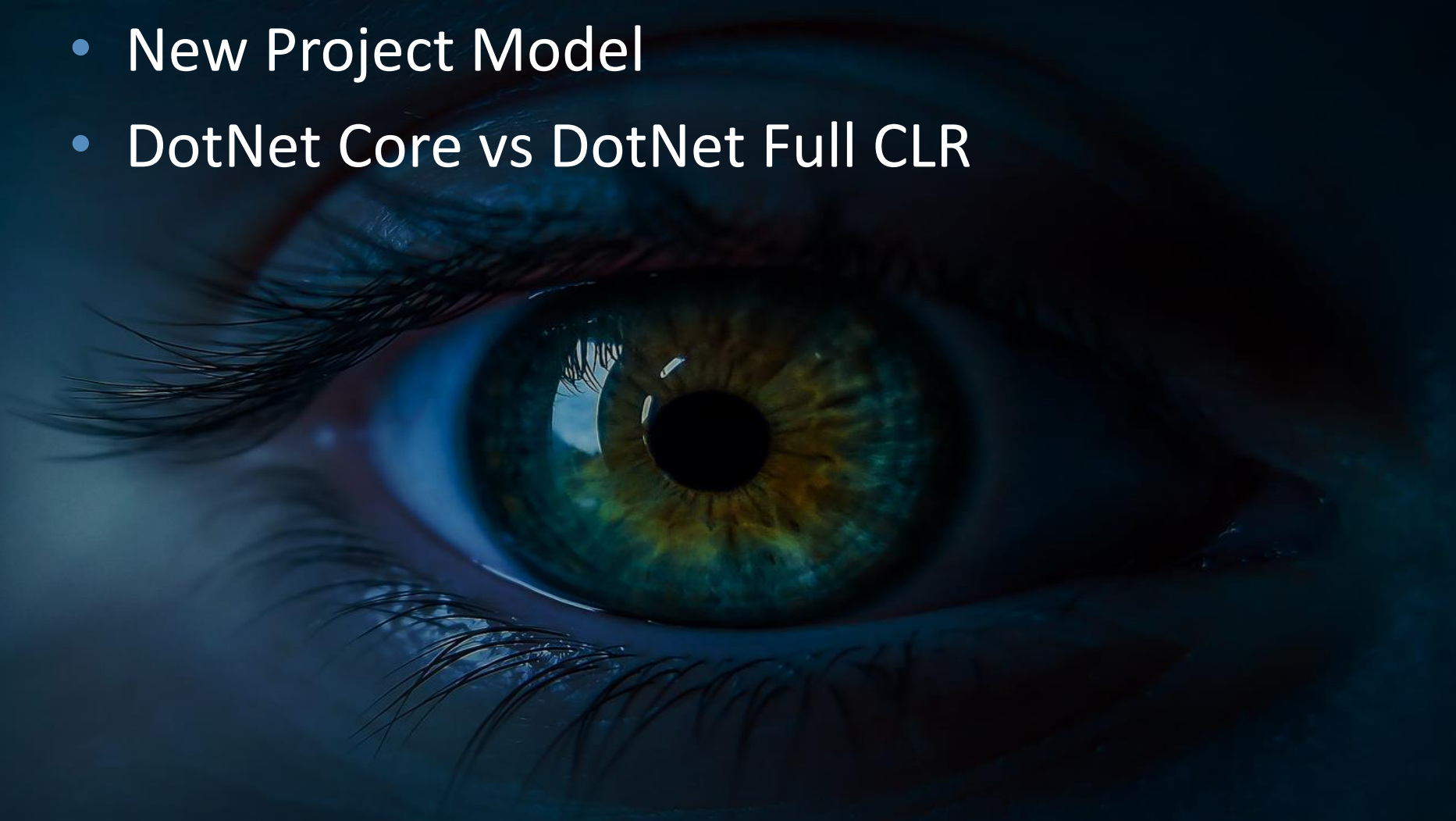
Cloud Optimized CLR

- Lean and modular runtime (11 MB)
 - Optimized for server
 - Small memory footprint
- Libraries in NuGet packages
- Framework deployed with app
- Different versions can run side-by-side

Mono & Native CLR

- Cross-Platform runtime for Linux and Mac OS X
- Together with Mono community

- New Project Model
- DotNet Core vs DotNet Full CLR



Cross Platform



An Inspiration: Cargo Transport Pre-1960

Multiplicity of
Goods



Do I worry about
how goods interact
(e.g. coffee beans
next to spices)



Multiplicity of
methods for
transporting/storin
g

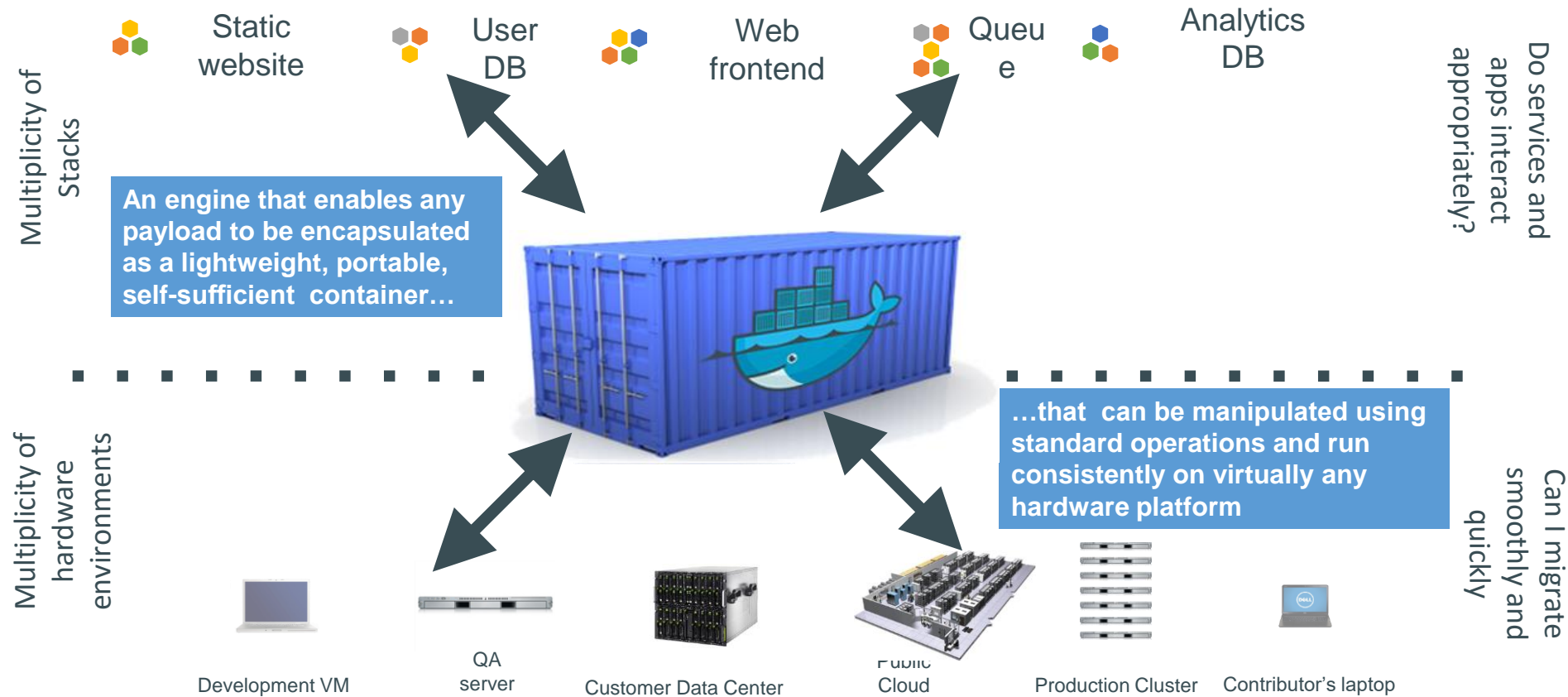


Can I transport
quickly and smoothly
(e.g. from boat to
train to truck)

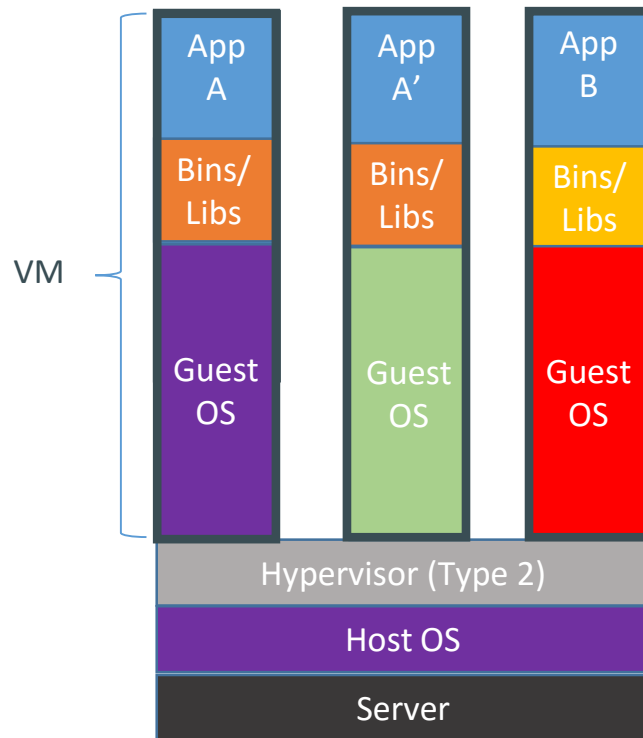
Solution: Intermodal Shipping Container Ecosystem



Let's create an ecosystem for distributed applications

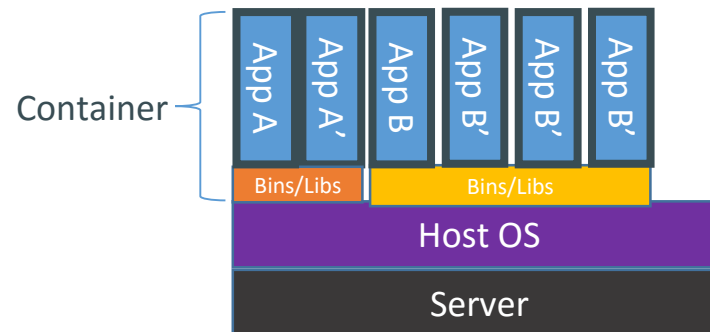


Comparison: Containers vs. VMs



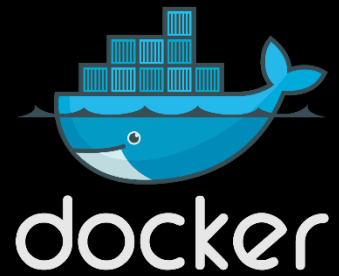
Containers are isolated, but share OS kernel and, where appropriate, bins/libraries

...result is significantly faster deployment, much less overhead, easier migration, faster restart





Docker



- Enabler of Micro Service Architecture
- Container technology
- One Machine -> Multiple Containers
- **Containers** are like light-weight VMs. Small footprint, fast boot, shared kernel.
- Now Linux
- Later Windows Server Container 2016

Cross Platform

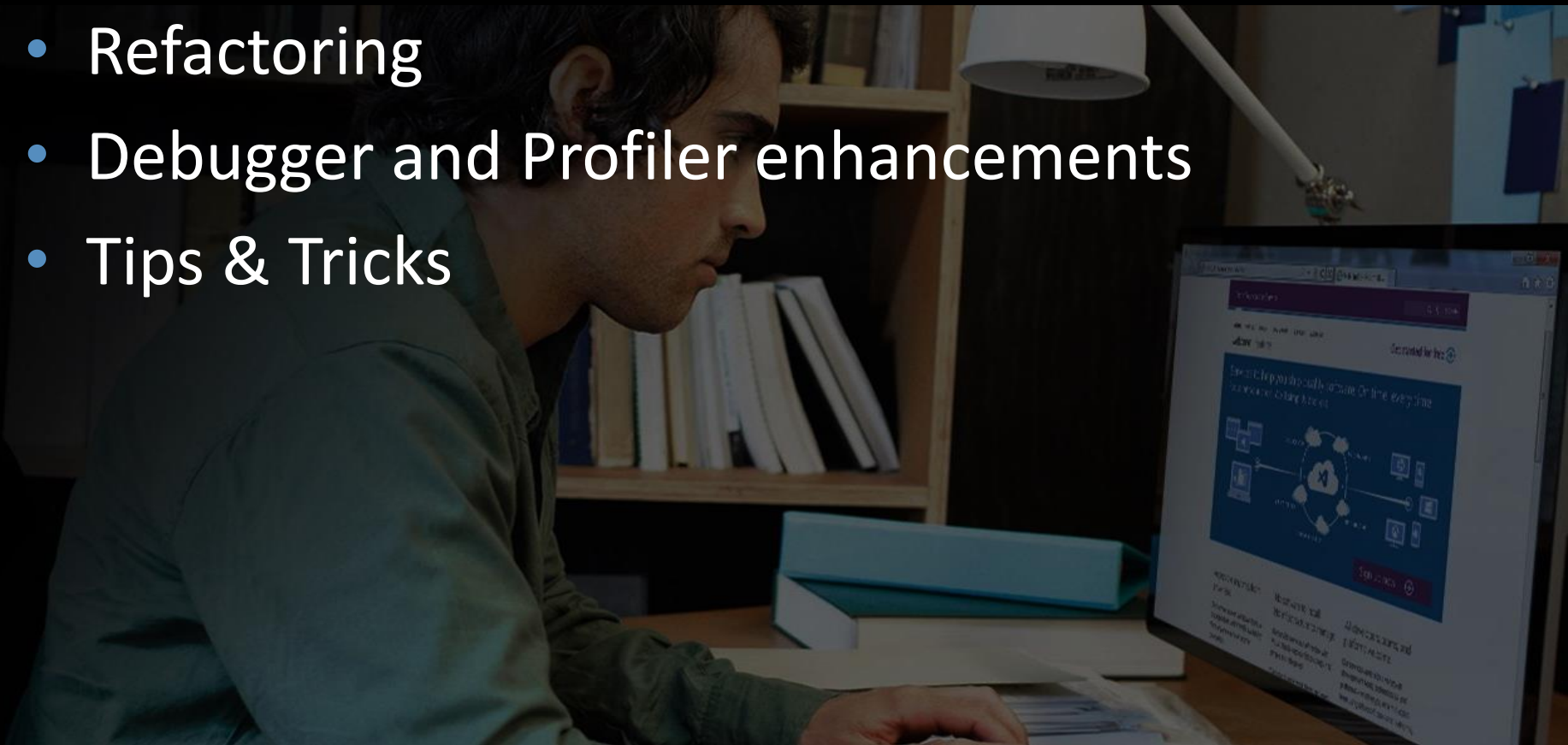
- Publish to Docker
- ASP.NET generators





Developer Productivity

- Improved Team Explorer
- Debugging Experience
- Refactoring
- Debugger and Profiler enhancements
- Tips & Tricks





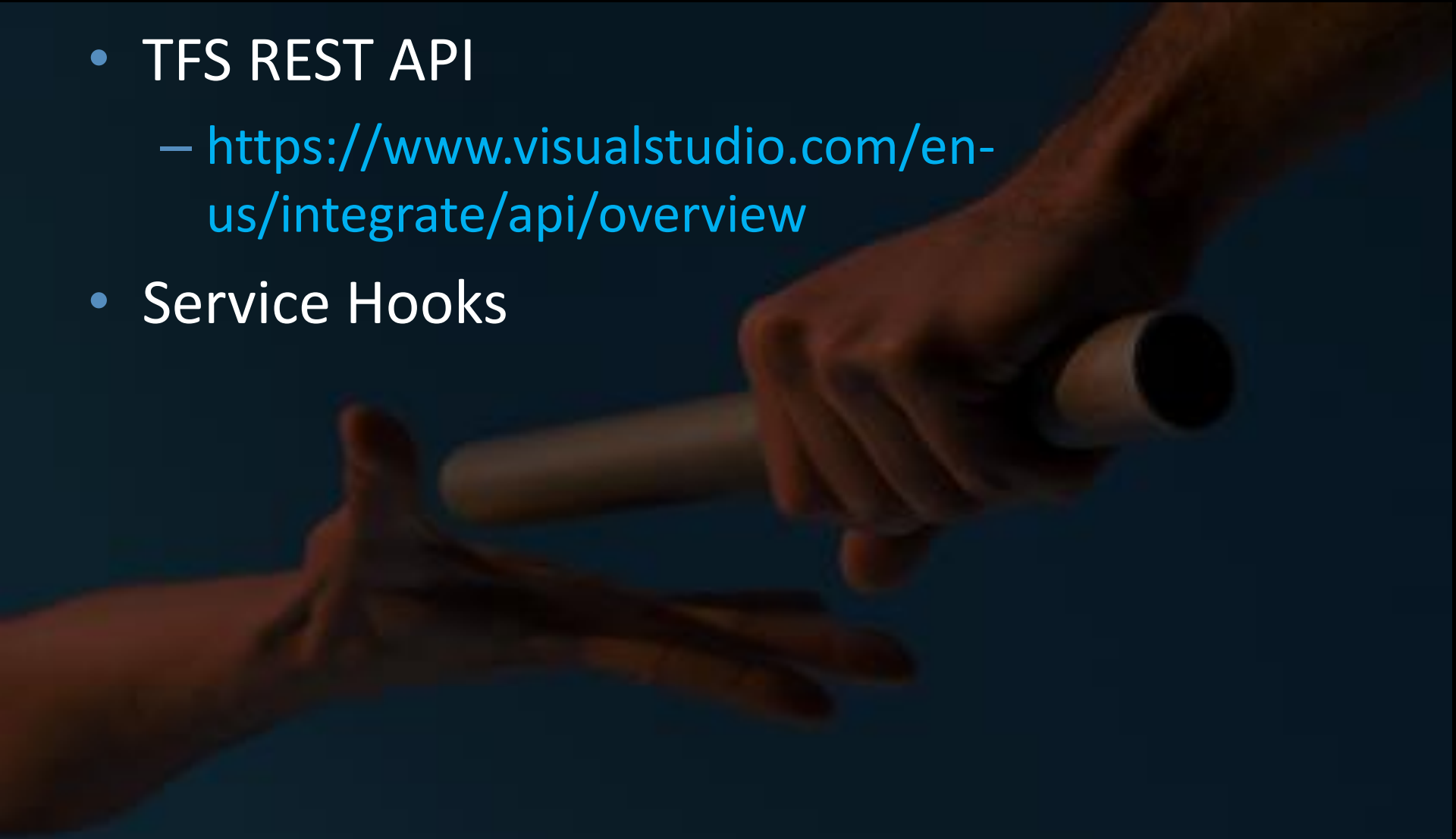
TFS 2015 Features

- Agile features
- Project Welcome pages

- Build vNext



- TFS REST API
 - <https://www.visualstudio.com/en-us/integrate/api/overview>
- Service Hooks





Team Project Rename

6,159

votes

Vote

rename project in TFS

Rename existing project in TFS



Visual Studio ALM Team shared this idea · July 15, 2011 · [Flag idea as inappropriate...](#)



COMPLETED

· **Visual Studio Team** (Product Team, Microsoft) responded · April 29, 2015

We are happy to let you know that this feature is now available on Visual Studio Online and in TFS 2015 RC. You can find details in the release notes at <https://www.visualstudio.com/en-us/news/2015-apr-24-vso>. More information is available on Brian Harry's blog (<http://blogs.msdn.com/b/bharry/archive/2015/04/24/team-project-rename-available-on-vs-online.aspx>).

Rogan Ferguson
TFS Program Manager

[Show previous admin responses \(3\)](#)



Feature timeline

Planned Date	Feature	Server
H2 2015	Agile planning improvements	TFS 2015 Update 1 & 2
Q4 2015	Dashboards	TFS 2015 Update 1 & 2
H2 2015	Git improvements	TFS 2015 Update 1 & 2
Q3 2015	Azure Active Directory group support	--
H2 2015	Continuous Integration improvements	TFS 2015 Update 1 & 2
H2 2015	Improved process customization	TBD
Q4 2015	PowerBI support	TBD
Q4 2015	Git & TFVC in the same Team Project	TFS 2015 Update 1
Q4 2015	Build v.next support for gated checkin	TFS 2015 Update 2
Q4 2015	SSH support and Windows credential helper for Git	TFS 2015 Update 2
Q4 2015	Hosted Linux build/release agents	--
Q4 2015	Public preview of Code Search	TBD
Q4 2015	Package management – NuGet server	TBD
H2 2015	Browser-based exploratory testing	TFS 2015 Update 1 & 2
Q4 2015	SOC certification	--
Q4 2015	VS Online Extensions marketplace	TBD
Q4 2015	Release Management V.Next preview	TBD
H2 2015	Lab Management evolution	TFS 2015 Update 1 & 2
H2 2015	Integration of TFS, VSO and VS with SonarQube server	VS/TFS 2015 Update 1 & 2



Vragen?

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