

FUTURE DECODED

6-7 OTT '16 / MILANO

IN PARTNERSHIP WITH:



CommunityDays.it

www.futuredecoded.it



#FutureDecoded

ASP.NET Core 1

Daniele Bochicchio

@dbochicchio daniele@aspitalia.com

Chief Digital Officer iCubed, Founder ASPItalia.com

Microsoft Regional Director, ASP.NET MVP

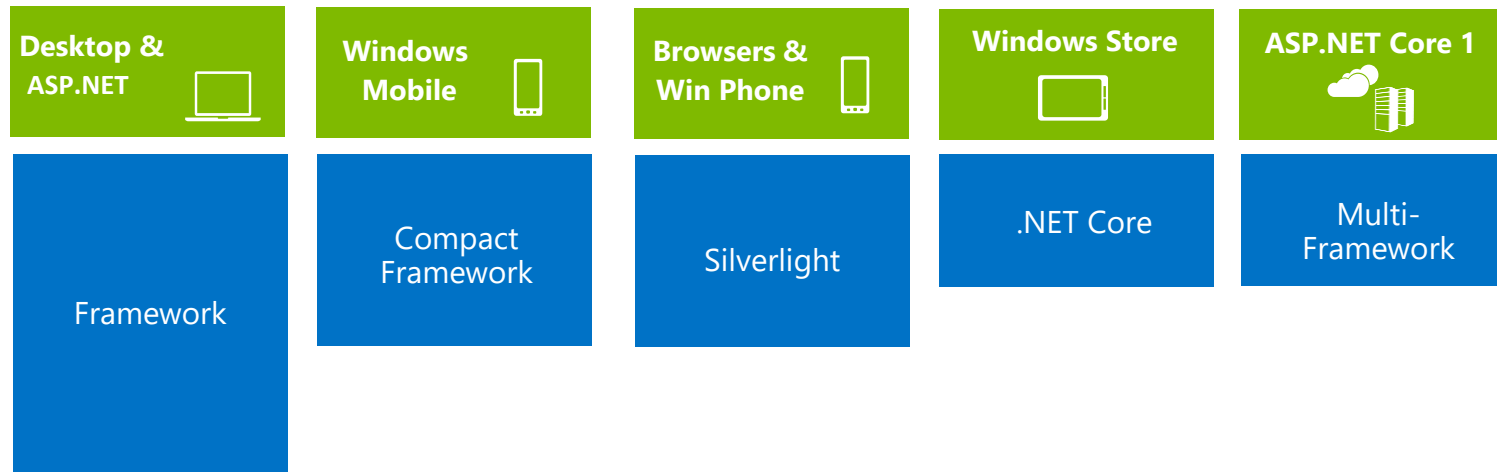
www.futuredecoded.it

 #FutureDecoded



.NET dal 2001 ad oggi

.NET



.NET 2015

.NET Framework 4.6

Framework complete, solo su Windows



- Installazione su macchina
- Solo Windows
- Per desktop, web e cloud

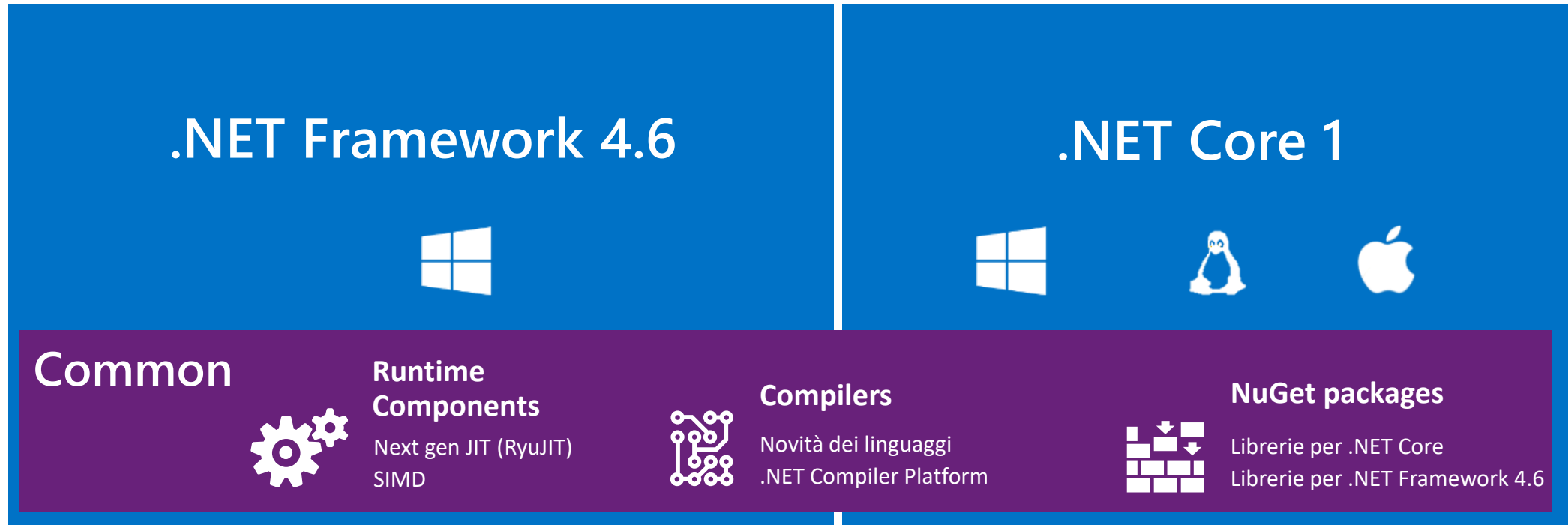
.NET Core 1

Versione open-source e cross platform di .NET

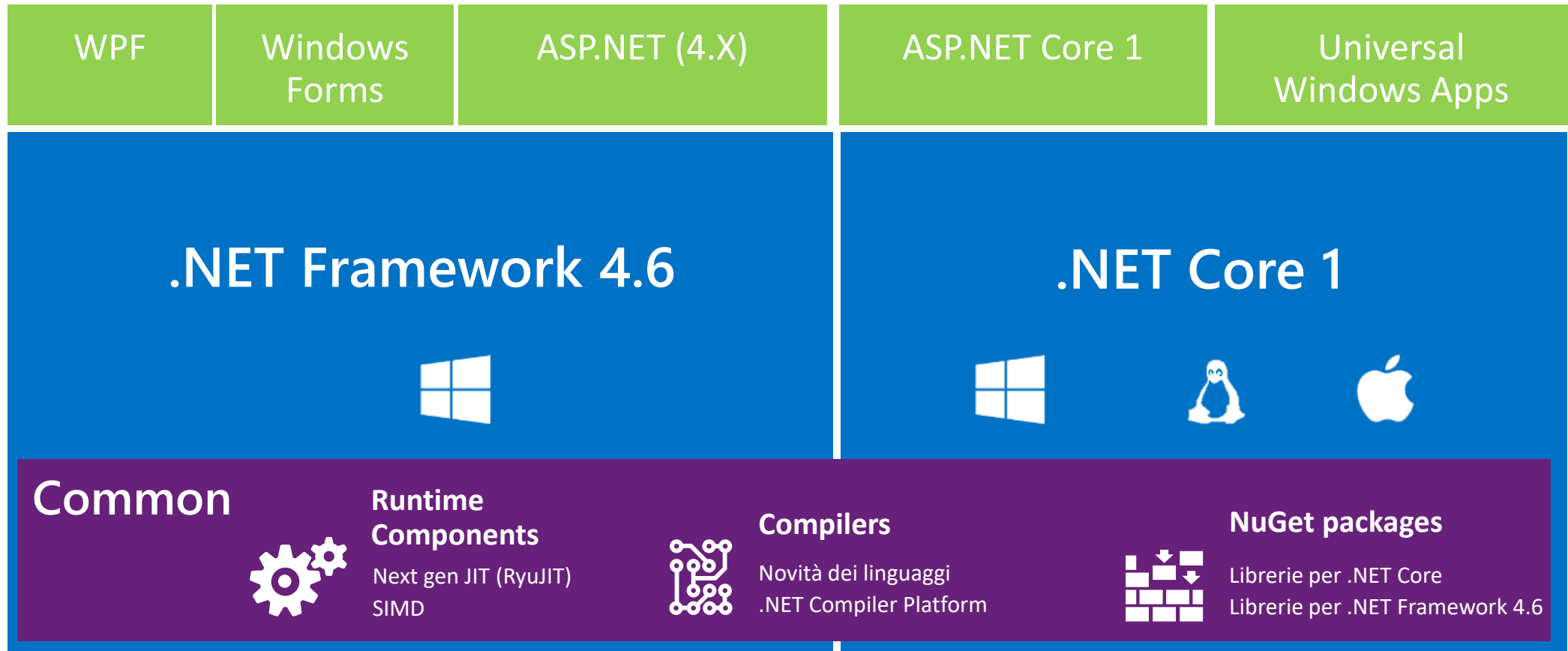


- Linux, macOS, Windows
- Deployment side by side
- Modulare
- Ottimizzato per web, cloud e device

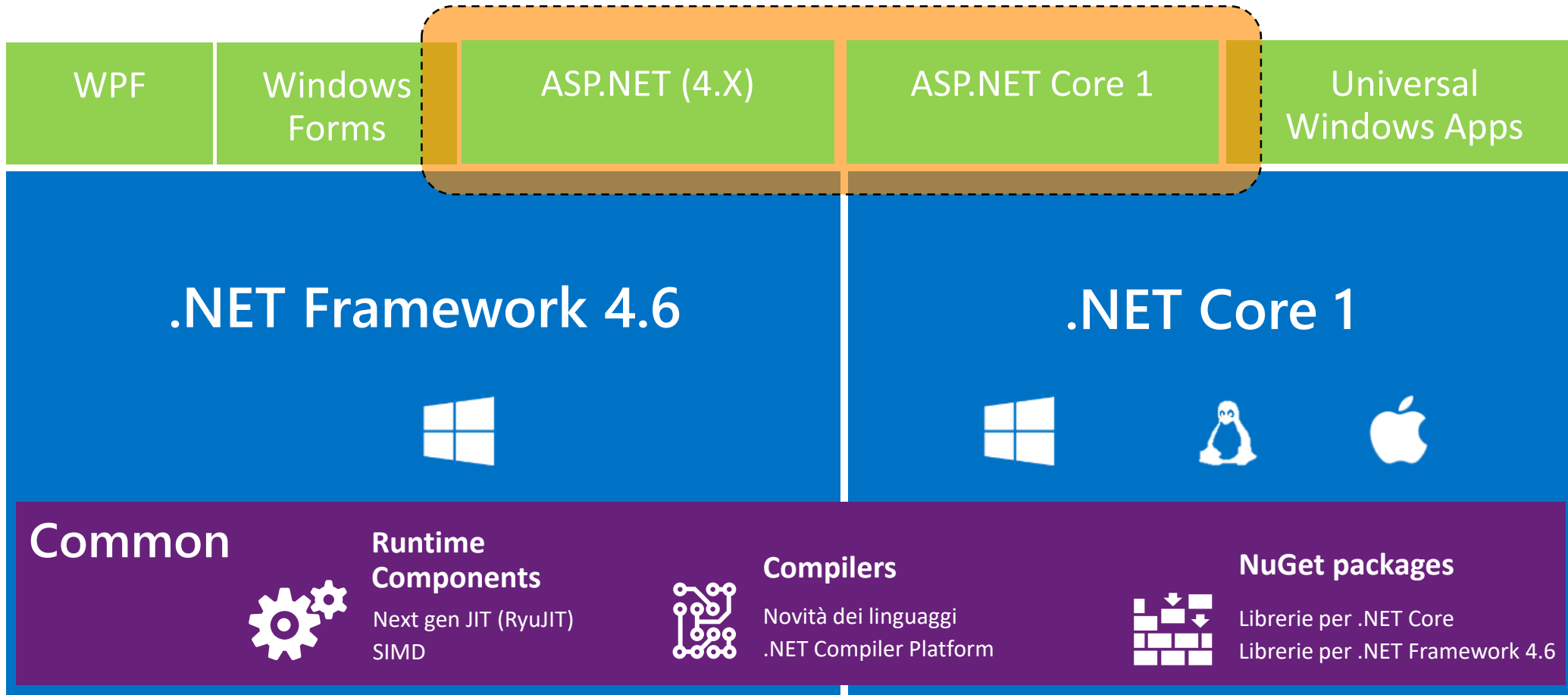
.NET 2015



.NET 2015



.NET 2015



Cos'è ASP.NET Core?

- La prossima, rivoluzionaria versione di ASP.NET
- Basato su .NET Core
- Un taglio netto rispetto al passato
- Completamente riscritta
- Cross-platform
- Born in the cloud
- Performante

ASP.NET Core 1.0

Beta6	27/07/2015
Beta7	2/09/2015
Beta8	15/10/2015
RC1	Novembre 2015
RC2	Maggio 2016
1.0.0*	Giugno 2016

* I tool sono in RC, arriveranno con VS "15"

<https://github.com/aspnet/home/wiki/roadmap>

Che fine ha fatto ASP.NET 5?

- ASP.NET Core 1.0 è ASP.NET 5
- Nel 2016 è stato cambiato di nome, per chiarire meglio che è un framework tutto nuovo
- Troverete ogni tanto riferimenti non aggiornati in documentazione e su Internet

ASP.NET 4.6 e ASP.NET Core 1.0

ASP.NET 4.6

ASP.NET Core 1.0

.NET Framework 4.6



.NET Core 1.0



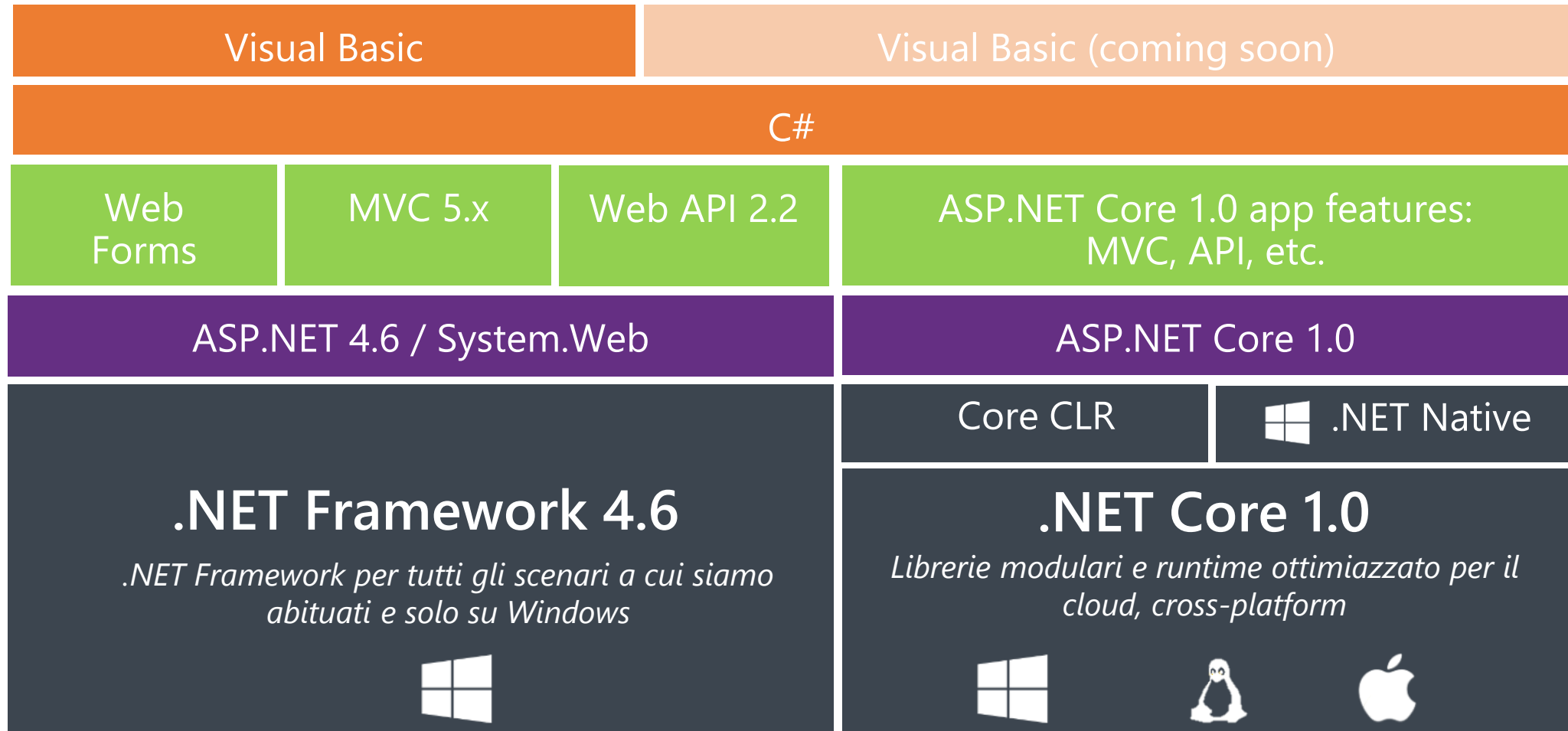
.NET framework libraries

.NET core libraries

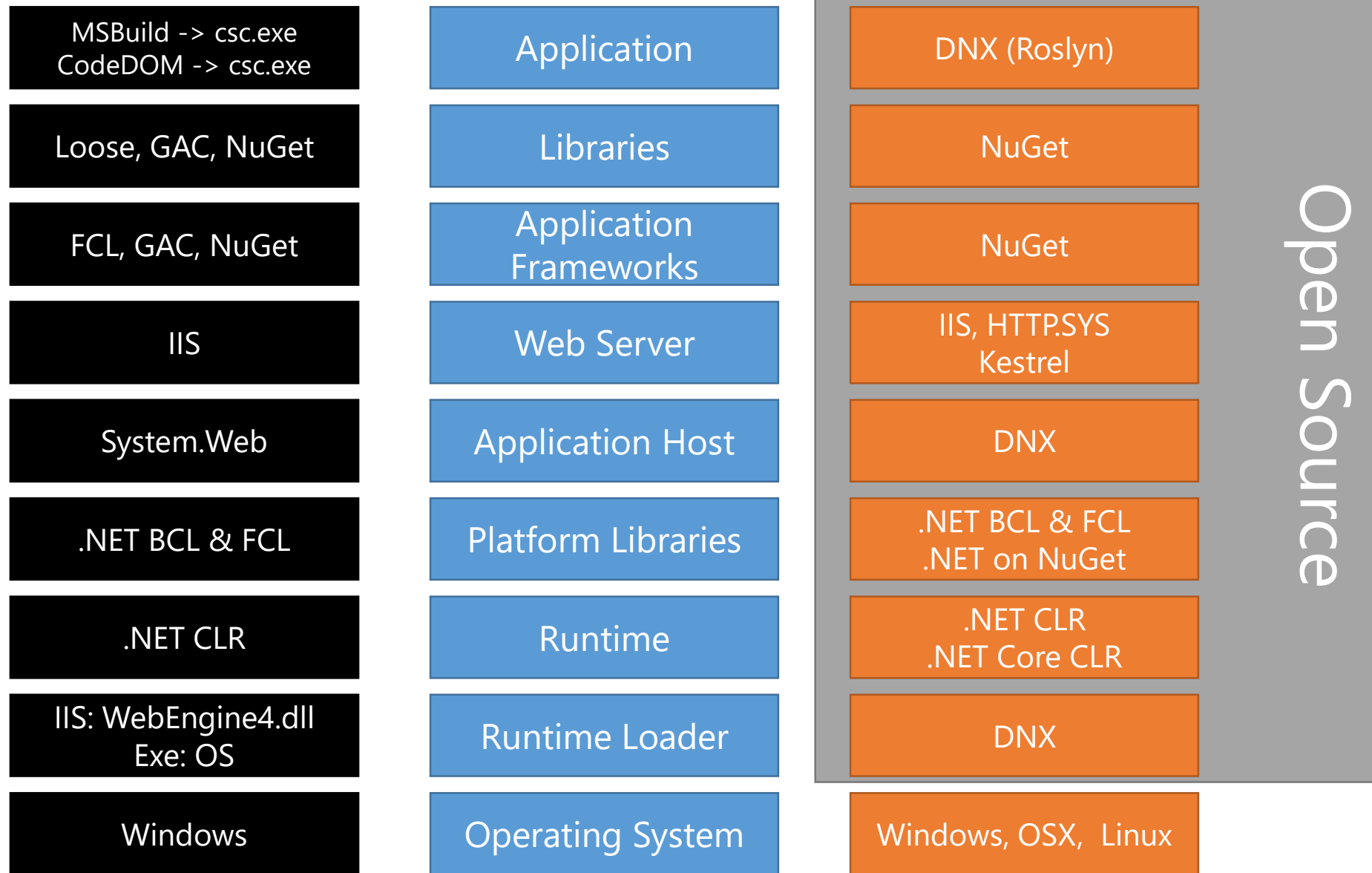
Compilatori e runtime

(.NET Compiler Platform: Roslyn, C#, VB, F#, RyuJIT, SIMD)

ASP.NET 2015



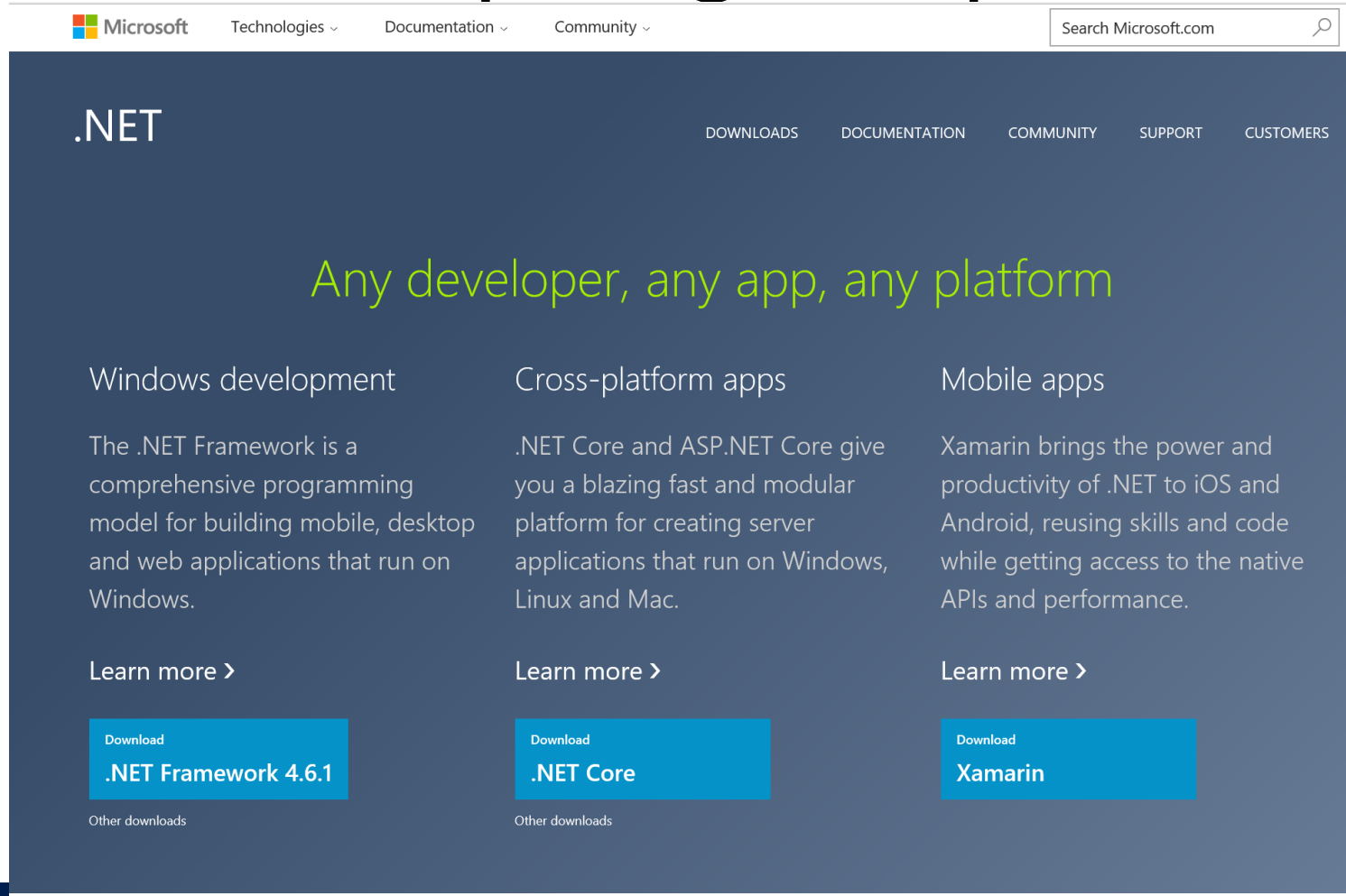
ASP.NET 4.6



ASP.NET Core 101

- ASP.NET Core = runtime + ASP.NET MVC + ASP.NET Web API
- Usando ASP.NET Core finiamo inevitabilmente ad usare ASP.NET MVC
- Addio web.config
 - Configurazione basata su codice/JSON
- Modulare e componentizzabile
- Gira su IIS o Self-hosted
- Dependency Injection già integrata

Si installa da <https://get.asp.net>



The screenshot shows the Microsoft .NET website. At the top is the Microsoft logo and navigation links: Technologies, Documentation, and Community. A search bar is on the right. Below the navigation bar is a dark blue header with the .NET logo and links to DOWNLOADS, DOCUMENTATION, COMMUNITY, SUPPORT, and CUSTOMERS. The main content area has a green headline "Any developer, any app, any platform". Below this are three columns: "Windows development", "Cross-platform apps", and "Mobile apps". Each column contains a description of the technology and a "Learn more" link. At the bottom of each column is a blue button with a "Download" link and the product name: ".NET Framework 4.6.1", ".NET Core", and "Xamarin". Below each button is a link to "Other downloads".

Microsoft Technologies Documentation Community Search Microsoft.com

.NET DOWNLOADS DOCUMENTATION COMMUNITY SUPPORT CUSTOMERS

Any developer, any app, any platform

Windows development

The .NET Framework is a comprehensive programming model for building mobile, desktop and web applications that run on Windows.

[Learn more >](#)

[Download .NET Framework 4.6.1](#)

[Other downloads](#)

Cross-platform apps

.NET Core and ASP.NET Core give you a blazing fast and modular platform for creating server applications that run on Windows, Linux and Mac.

[Learn more >](#)

[Download .NET Core](#)

[Other downloads](#)

Mobile apps

Xamarin brings the power and productivity of .NET to iOS and Android, reusing skills and code while getting access to the native APIs and performance.

[Learn more >](#)

[Download Xamarin](#)

A nighttime cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from cars, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with railings and some greenery is visible on the right side of the highway. The overall scene is a vibrant urban environment at night.

DEMO

ASP.NET Core da Visual Studio

www.futuredecoded.it



#FutureDecoded

ASP.NET MVC Core

- Niente più differenza tra Web API e MVC
 - Un controller è un controller, a prescindere dal tipo di ritorno
 - Routing semplificato, basato su mapping
- Possibilità di creare controller POCO
- View Components: Partial View avanzate, con codice+View

Tag Helper

- HTML helper utilizzati come tag

```
@Html.LabelFor(m => m.UserName, new { @class = "col-md-2 control-label" })
```

```
<label asp-for="UserName" class="col-md-2 control-label"></label>
```

- Più facile personalizzare l'HTML
- Più facile lavorare un editor HTML
- Più facile per un front-end developer lavorare con le nostre view

A nighttime cityscape featuring tall skyscrapers and a highway with light trails. A diagonal line splits the image: the left side shows a clear view of the city, while the right side is blurred to represent motion. The text 'DEMO' is overlaid on the left side.

DEMO

MVC, Tag Helper

www.futuredecoded.it



#FutureDecoded

Cross-platform

- Visual Studio è un IDE che integra l'SDK
 - Su Windows non utilizzerete mai la riga di comando
- Su Linux e MacOS, invece, dovrete utilizzare .NET CLI (Command Line Interface)
 - dotnet new
 - dotnet new -t web
 - dotnet build
 - dotnet run
- VS Code è un editor gratuito che vi può aiutare
- Ma potete utilizzare l'editor che preferite

A nighttime cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from cars, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with railings and some greenery runs across the middle ground. The overall scene is a vibrant urban environment at night.

DEMO

ASP.NET Core su Linux

www.futuredecoded.it



#FutureDecoded

Stack	Server	Req/sec	Load Params	Impl	Observations
NodeJS	perfsvr	147,554	32 threads, 256 connections	The actual TechEmpower NodeJS app	CPU is 100%, almost exclusively in user mode
NodeJS	perfsvr2 (Linux)	173,641	32 threads, 512 connections	The actual TechEmpower NodeJS app	CPU is 100%
ASP.NET Core on Kestrel	perfsvr	1,188,521	32 threads, 256 connections	Middleware class, multi IO thread	CPU is 100%
ASP.NET Core on Kestrel	perfsvr2 (Linux)	928,023	32 threads, 256 connections	Middleware class, single IO thread	
Scala	perfsvr	1,514,942	32 threads, 1024 connections	The actual TechEmpower Scala plaintext app	CPU is 100%, 70% in user mode
Netty	perfsvr	2,808,515	32 threads, 256 connections	The actual TechEmpower Netty app	CPU is 100%

github.com/aspnet/benchmarks

Grazie!

- Restiamo in contatto: daniele@aspitalia.com
Twitter [@dbochicchio](https://twitter.com/dbochicchio)

A night cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from vehicles, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with a railing and some greenery is visible on the right side of the highway. The overall scene is a vibrant urban environment at night.

Domande?

Materiale su

<http://www.communitydays.it/>

www.futuredecoded.it



#FutureDecoded