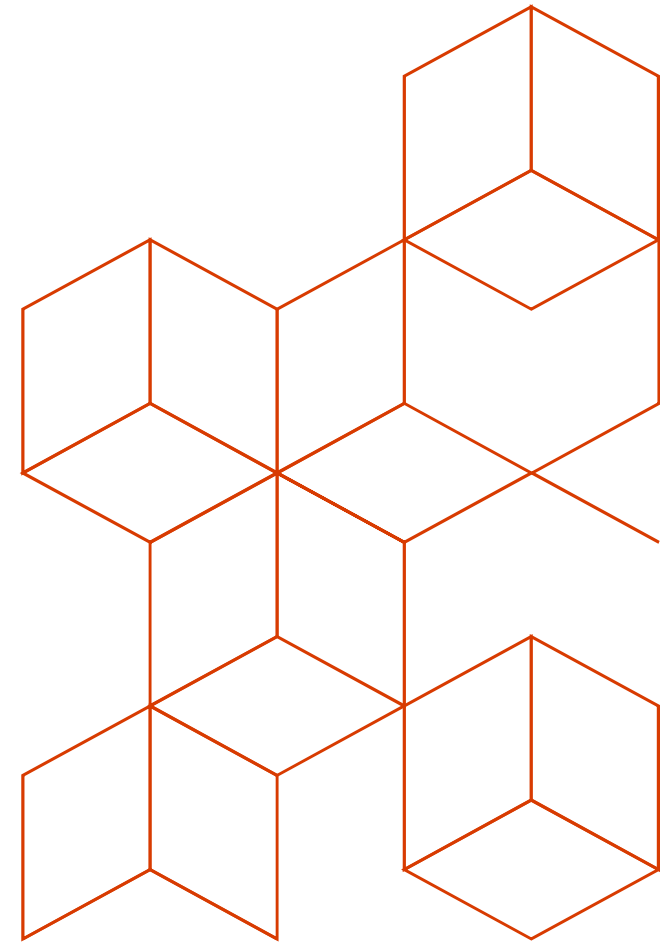
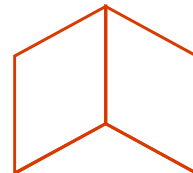
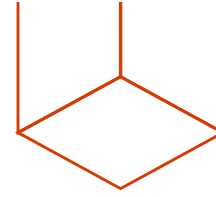


XAML Islands

Vinoth

r.vinoth@live.com | @VinothRajendran

Technical specialist - Bosch



Agenda Windows 10 features

Journey of Modern App

XAML Islands

Demo

“Will my LOB desktop Apps just run in Windows 10?”



“...my goal is to reduce App packaging and deployment costs...”



“...Upgrading framework for my solution is expensive... there are many components involved...”



“...we have many LOB Apps that rely on WinForms and WPF...what should I do with them?”

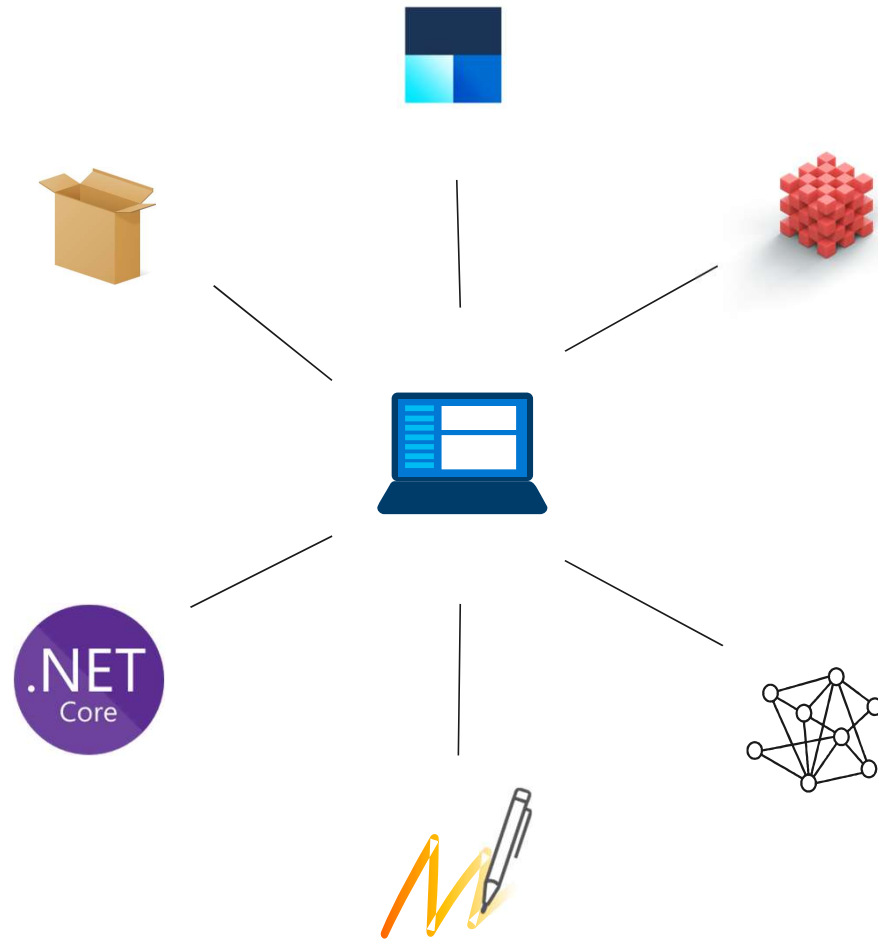
“...My users need Apps that work best with keyboard and mouse...”



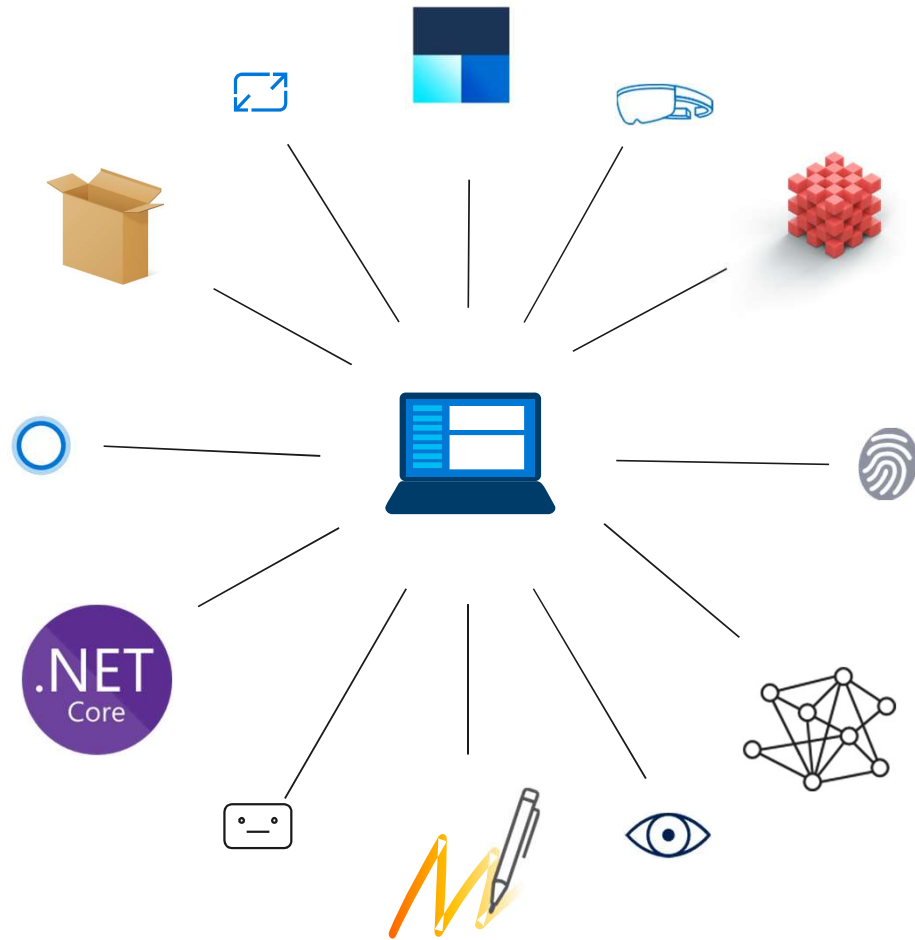
“...I want to enhance my App by adding windows 10 but don't want to rewrite my App...”



Windows
Enterprise
Applications
Development
Learning



And more...

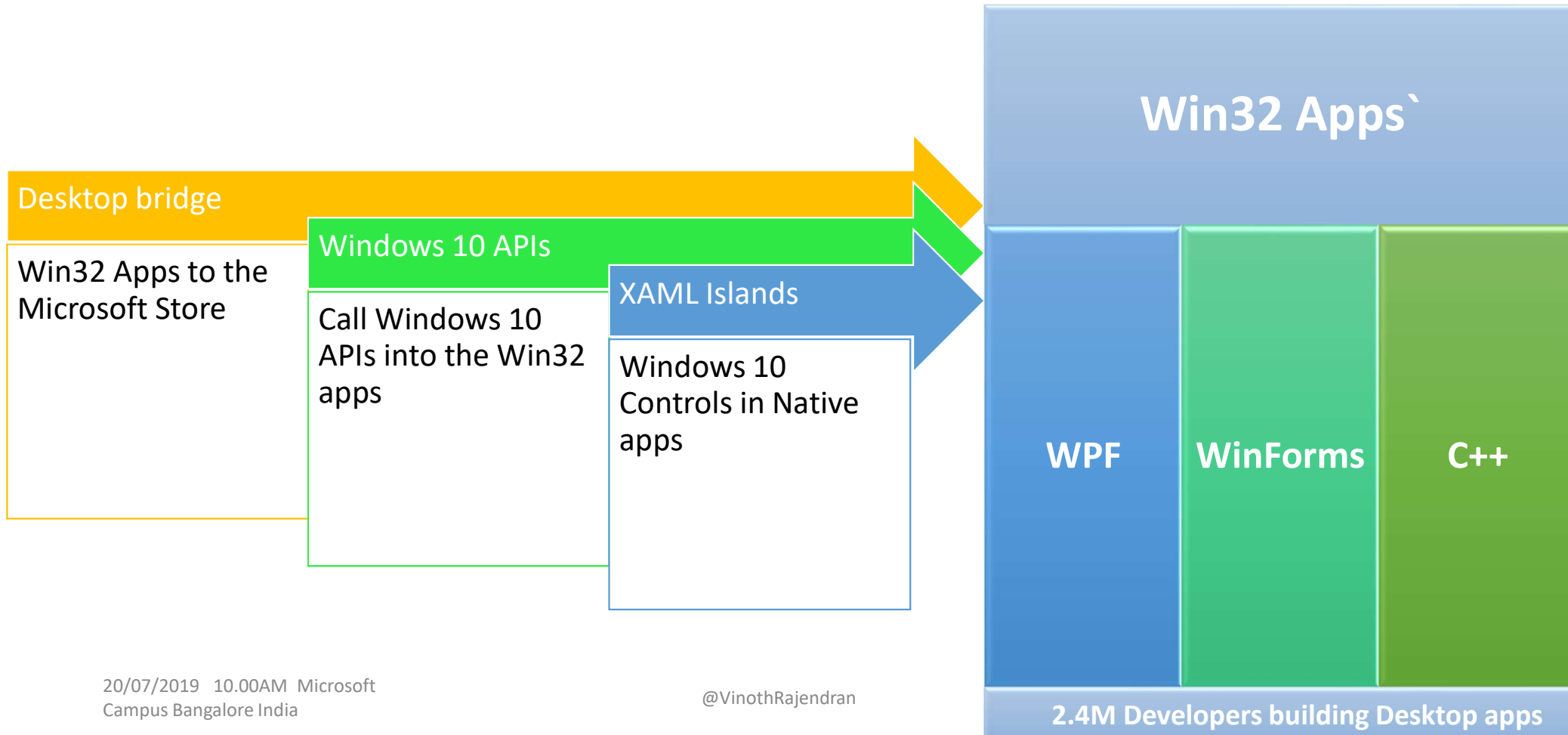




Journey of Modern App



Modern App Platform





XAML Islands

XAML Islands

- Enable .NET and native Win32 applications to host UWP Controls
- New Controls & Fluent Design System
- XAML Islands V1 has released on Windows 10 -> 1903 (May update)
- XAML Islands V2 will be release in First Half 2020

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XAML Islands Requirements



1903



10.0.18362



IDE



3.0



4.7.2



6.0

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1903



10.0.18362



IDE



3.0



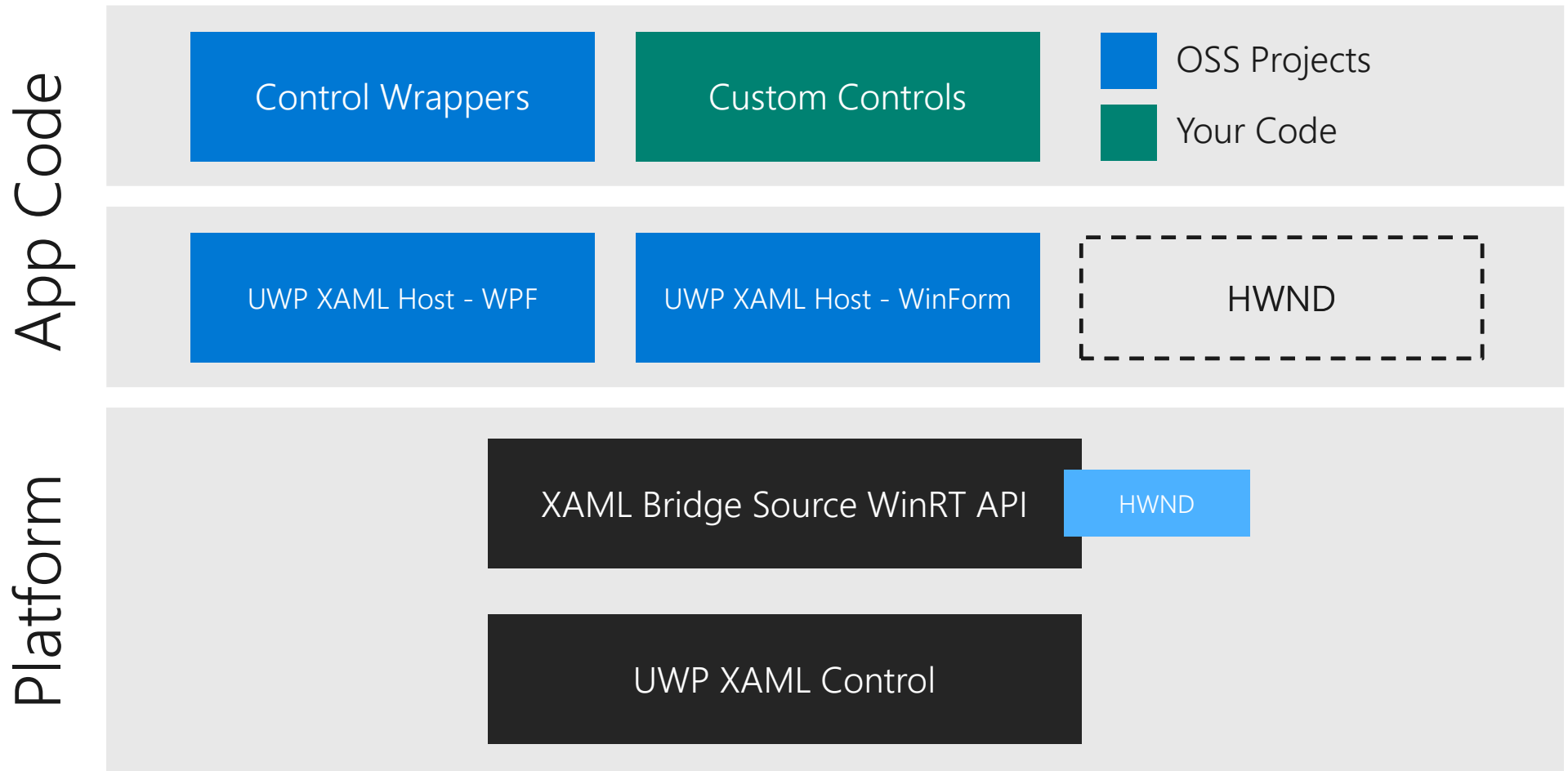
4.7.2



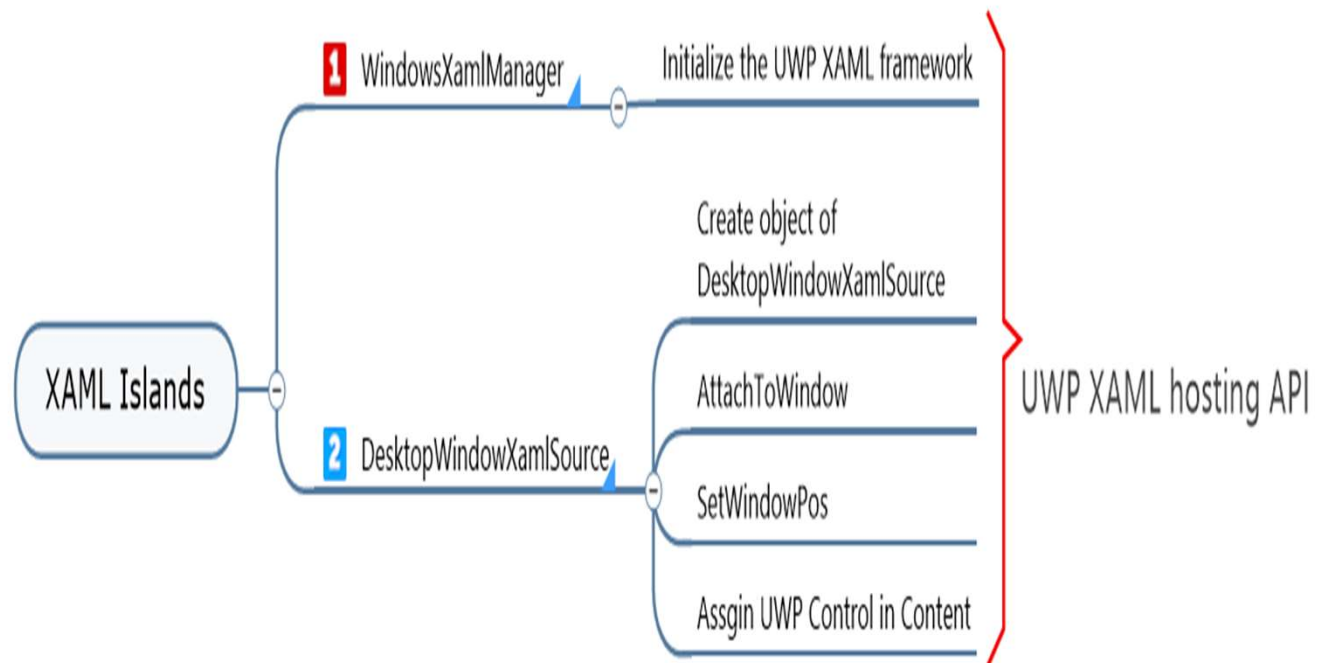
6.0



The architecture

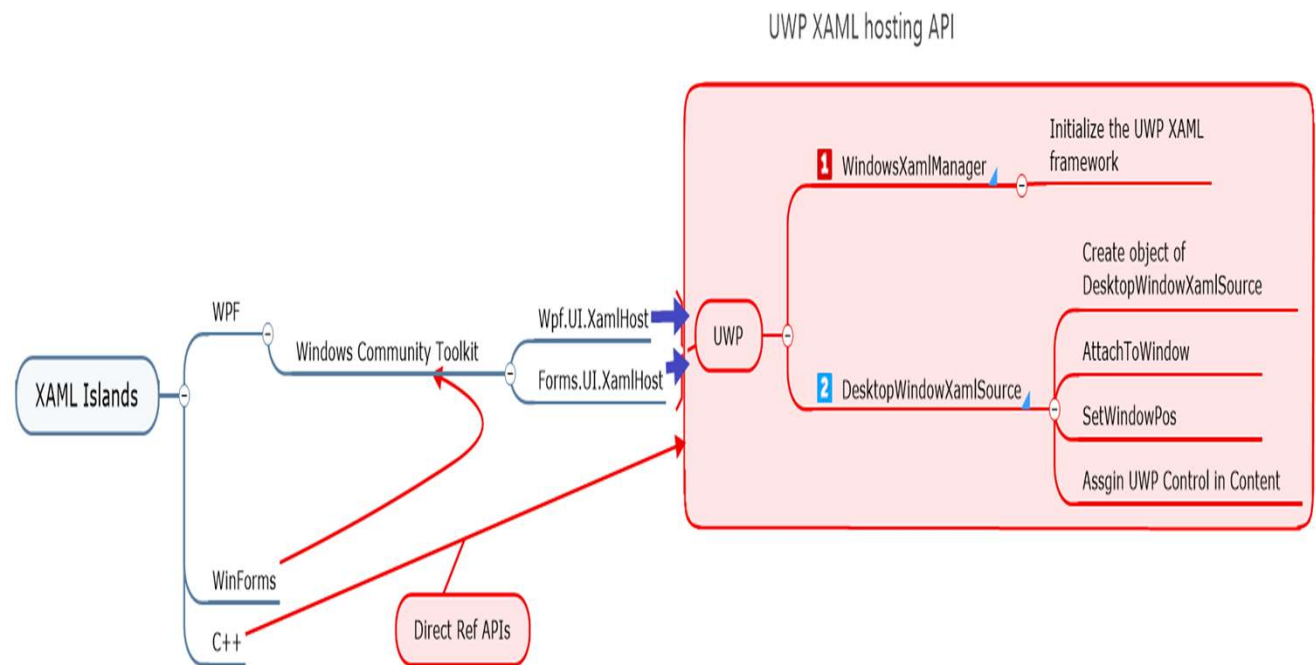


UWP XAML hosting API



Windows Community Support

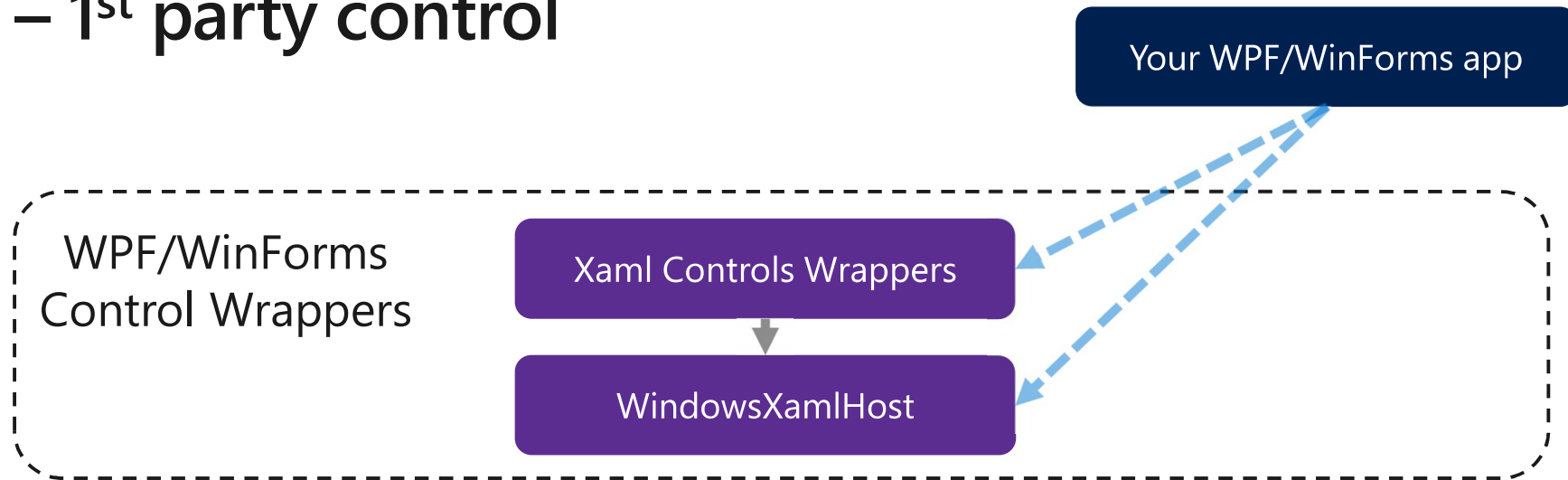
20/07/2019 10:00AM Microsoft
Campus Bangalore India



@VinothRajendran

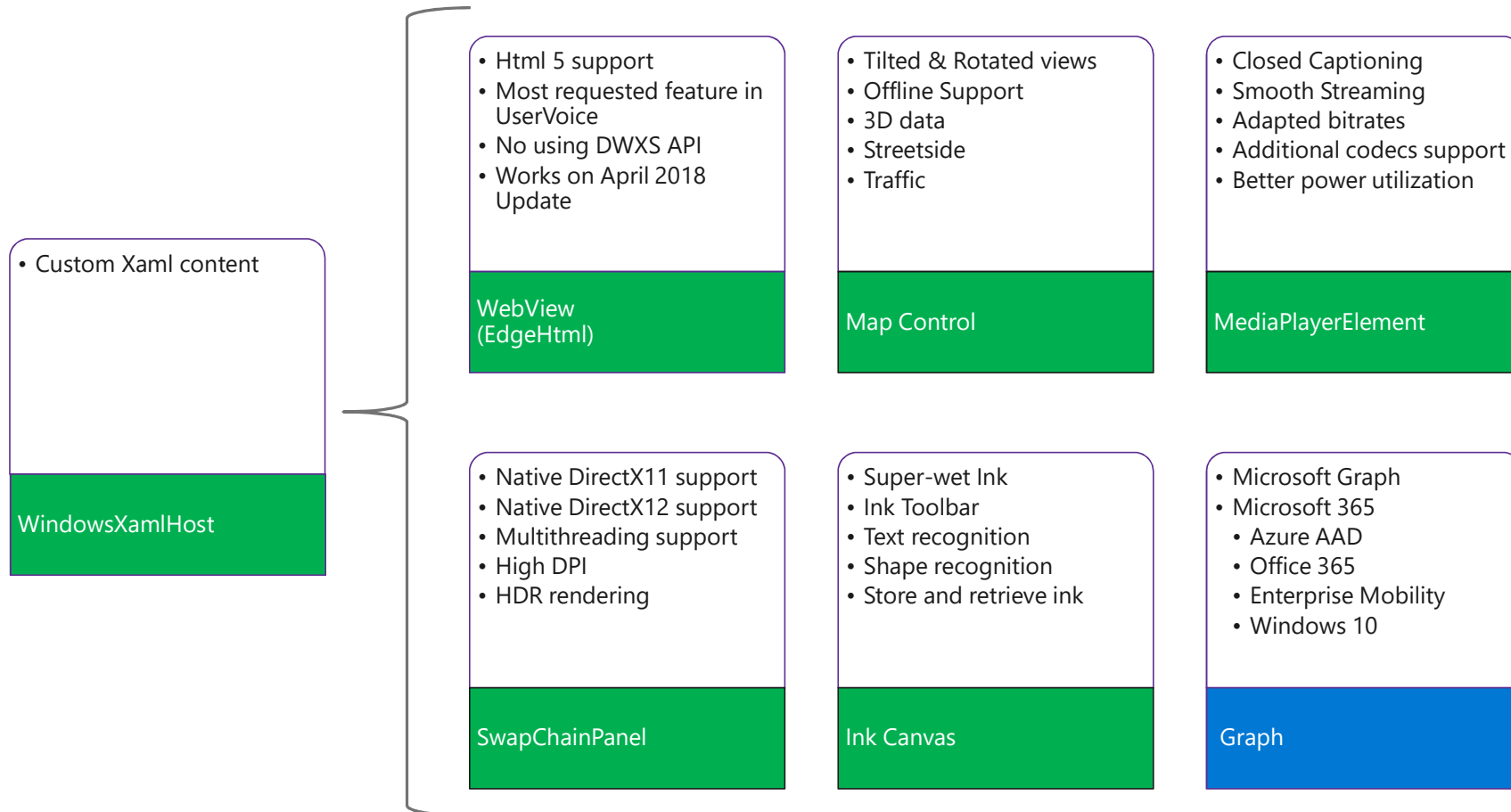
Windows Community Toolkit wrappers

– 1st party control



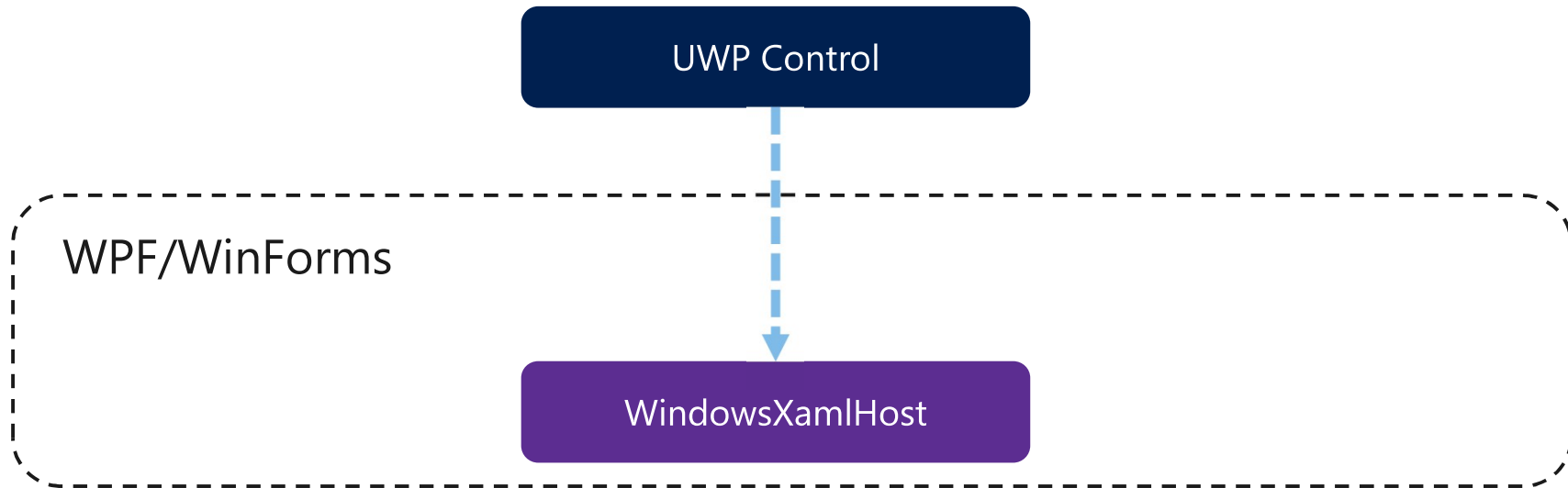
- No WinRT concepts
- NuGet Packages for Windows Forms and WPF
- Designer Support

XAML Control Wrappers



Shipped in Preview
In development


Windows Community Toolkit – WindowsXamlHost



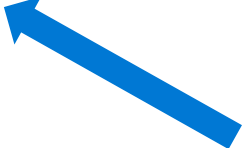
- Host for any UWP Control
- Dedicated NuGet package:
 - WPF: <https://www.nuget.org/packages/Microsoft.Toolkit.Wpf.UI.XamlHost/>
 - Windows Forms: <https://www.nuget.org/packages/Microsoft.Toolkit.Forms.UI.XamlHost/>
- If you are using 1st party wrapped controls, the package is already installed since it's a dependency

Using the control

```
<xamlhost:WindowsXamlHost  
InitialTypeName="Windows.UI.Xaml.Controls.NavigationView"  
ChildChanged="WindowsXamlHost_ChildChanged" />
```



The full signature of the control you want to render



You subscribe to this event to handle interaction with the control and to customize it

Using the control

```
private void WindowsXamlHost_ChildChanged(object sender, EventArgs e)
{
    WindowsXamlHost windowsXamlHost = (WindowsXamlHost)sender;

    var navView = (Windows.UI.Xaml.Controls.NavigationView)windowsXamlHost.Child;

    if (navView != null)
    {
        navView.ItemInvoked += (obj, args) =>
        {
            ;
        };

        navView.MenuItems.Add(new NavigationViewItem() { Content = "Home" });
        navView.MenuItems.Add(new NavigationViewItem() { Content = "People" });
    }
}
```

This property has a
reference to the hosted
control

Event handling

Properties customization



DEMO

WPF – GUI

