



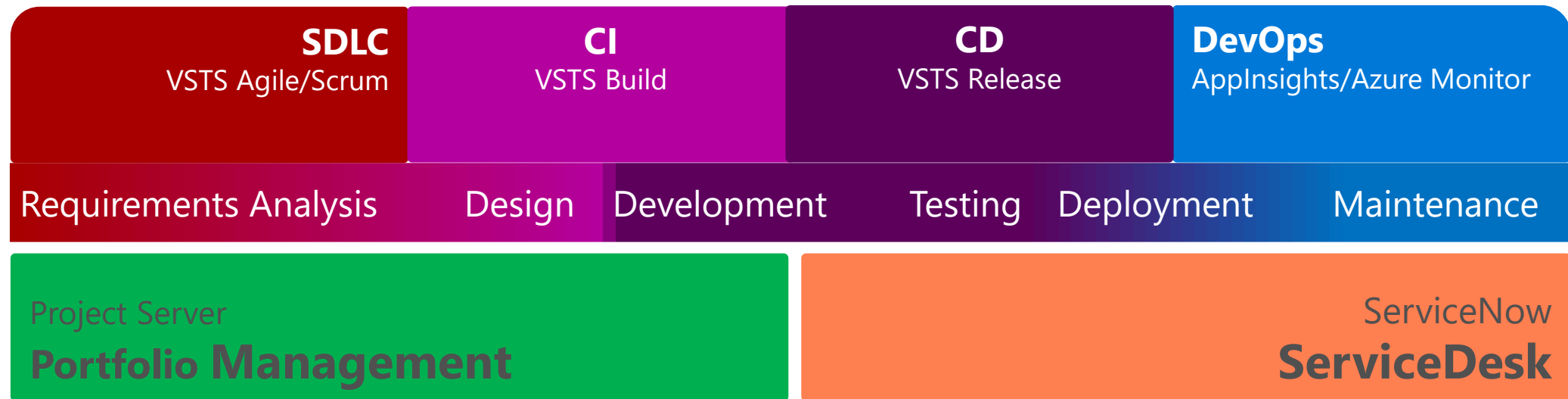
Application Lifecycle Management at Auckland Transport Overview of ALM leveraging VSTS

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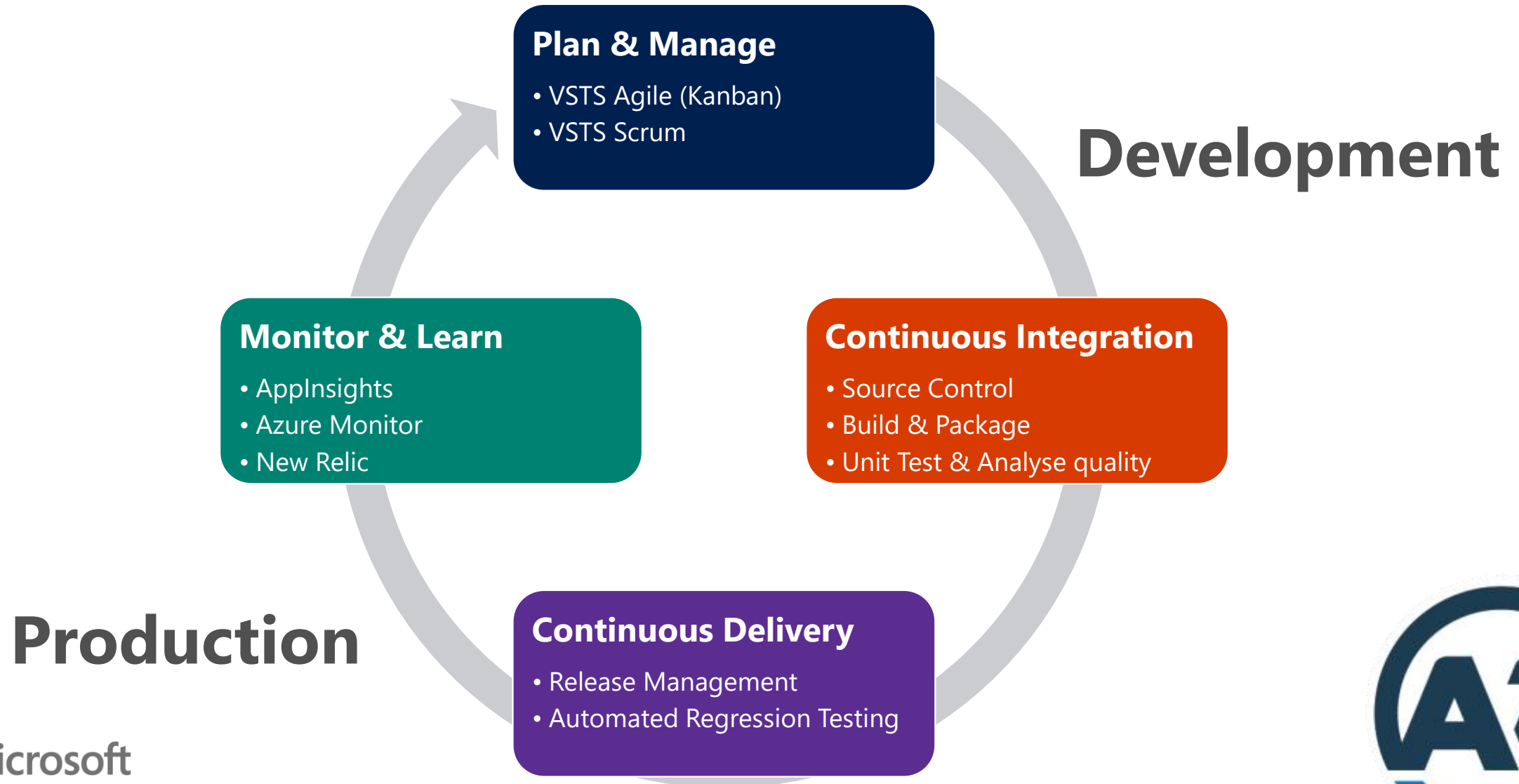


What is Application Lifecycle Management?

- Everything from birth to death of a product
- Agile methods are Auckland Transports preferred SDLC
- CI and CD tools help automate parts of the SDLC
- DevOps focus on the steps to get software built and deployed



ALM at Auckland Transport



DevOps is the union of
people, process, and
products to enable
continuous delivery of value
to end users



Donovan Brown

DevOps is not just automation,
its people following a **process**
enabled by **products** to
deliver value to our end
users

<http://www.donovanbrown.com/post/what-is-devops>

Business Technology Vision, Values and Mission

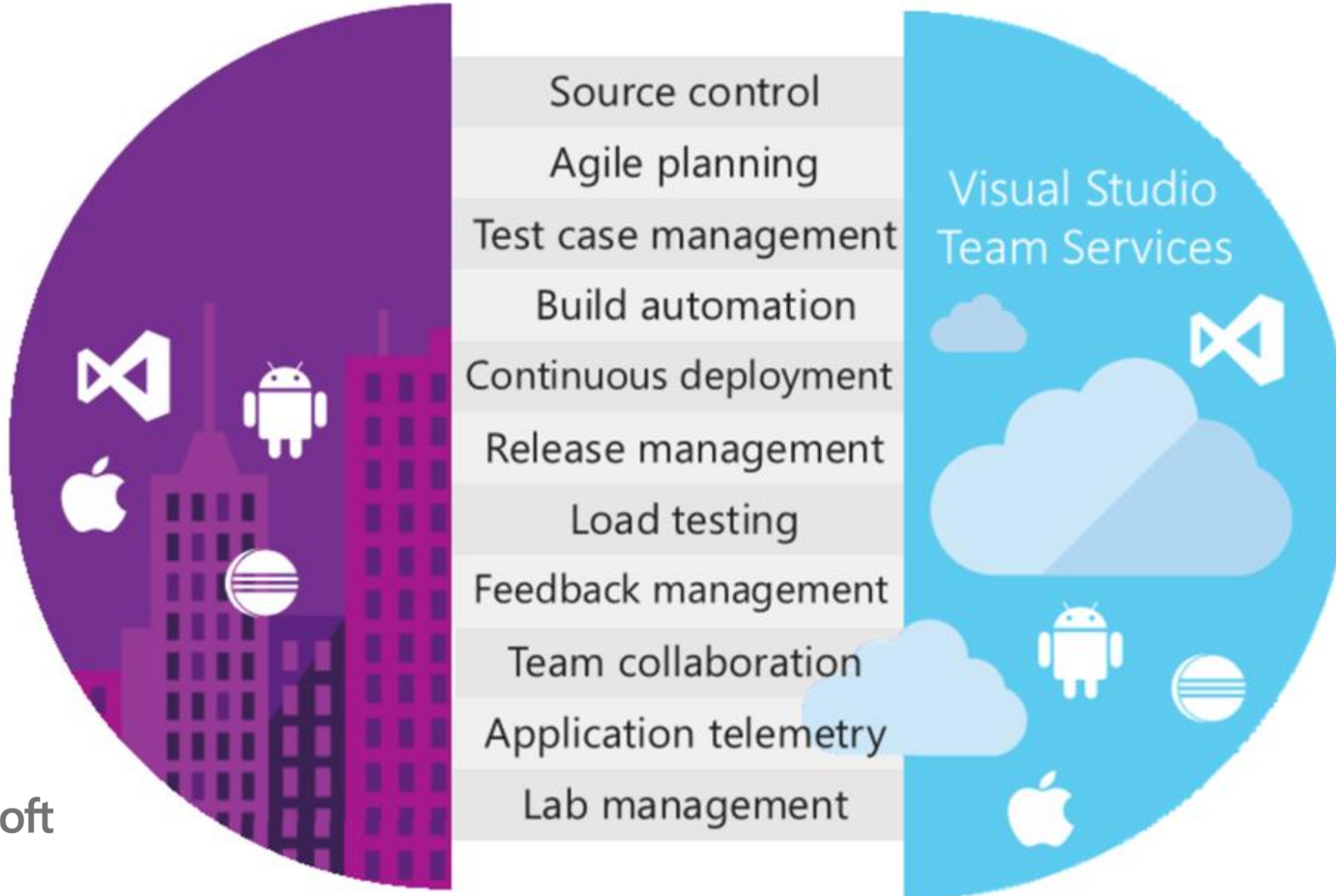


Why is DevOps important to Auckland Transport?

- You can increase velocity
- Will reduce downtime
- Prevents human error
- Increases efficiency and reduces cost
- Supports Business Technologies Mission
 - *"Sustainably faster delivery of solutions that add real value to our customers"*



Auckland Transport ALM Toolkit - VSTS



Auckland Transport ALM Guidance & Standards

- VSTS standards for Managing Projects
 - Planning and Execution
 - Tracking Progress
 - Customisation
 - Security
- VSTS standards for Continuous Integration & Delivery
 - VSTS Branch Management Guidance
 - Continuous Integration Standards and Guidelines
 - Continuous Delivery Standards and Guidelines
 - CI and CD Standard Operating Procedures
- AT Microsoft Azure Reference Architecture Documents

AT Minimum Standards for Project Teams

- Managing Projects

- Prepare and agree a definition of done for each transition between Kanban states

- Branch Management Guidance

- Remove Completed Feature Branches
- Leverage pull requests to merge changes
- Merge Hotfixes to Master and Feature Branches

- Continuous Integration Guidance

- Leverage ARM service endpoints that have access only to the resource groups you need to deploy to
- Builds must include unit tests and code coverage

AT Minimum Standards for Project Teams

- Continuous Delivery Guidance

- All components should adhere to naming conventions
- All solution components deployed to Azure should be done so via release definitions
- All release definitions to pre prod and prod must have approvals set assigned to service owner
- All release definitions to pre prod and prod must have ServiceNow change control integration configured
- Ideally releases should have integration tests
- All releases should include Secure DevOps Kit for Azure (AzSK) Security Verification Tests (SVTs) in VSTS pipeline



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