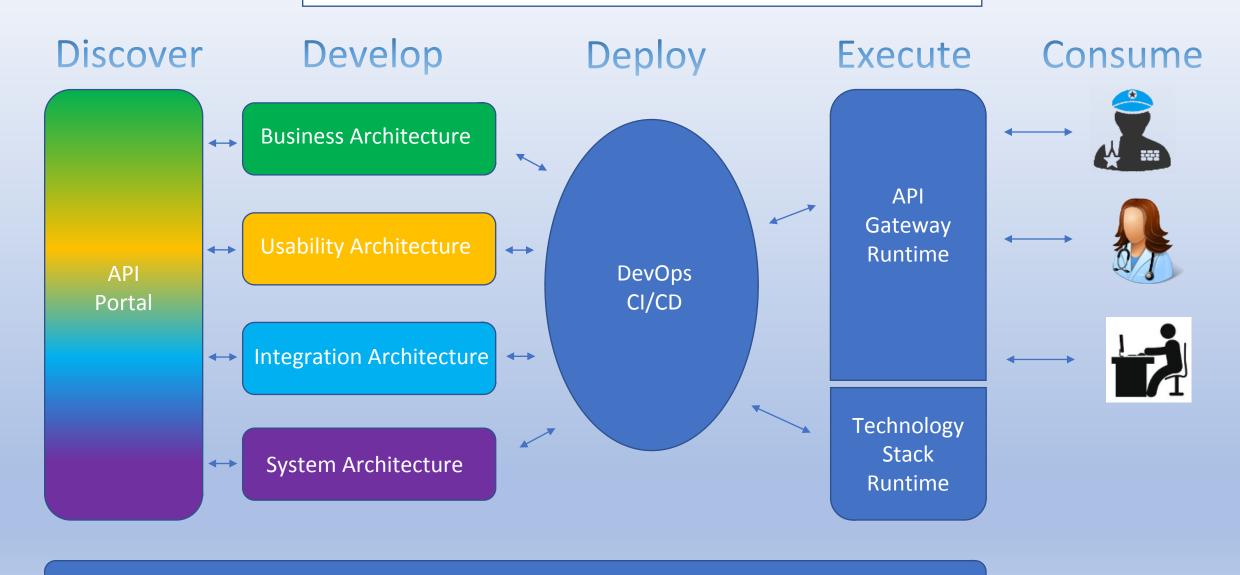
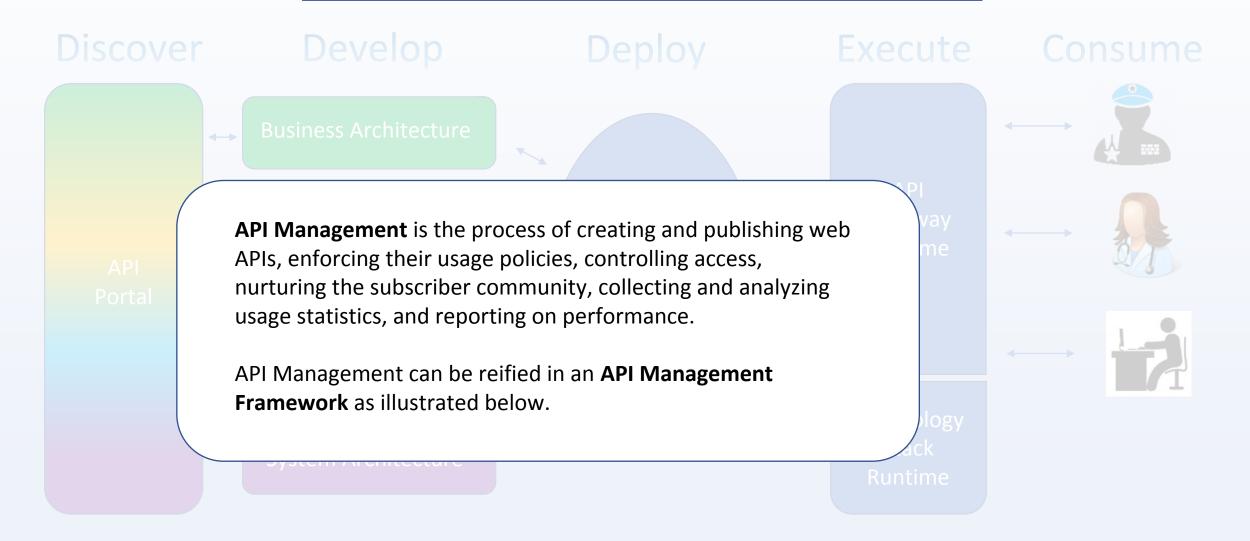
API Portal / Gate a o te t a ra

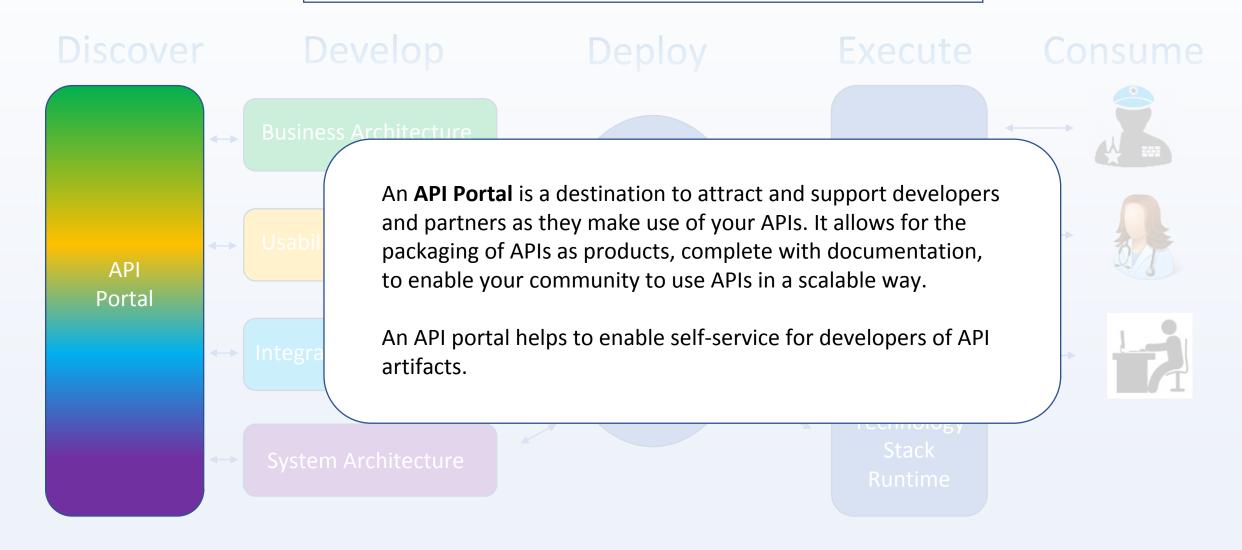
- This is an introductory "concepts fundamental components of an Development, Deployment and
- It helps to establish a common L

ind facilities" guide to describe the PI Lifecycle for Discovery, ecution of APIs using an API Gateway.

icon of understanding.







Discover

Develop

Deploy

Execute

Consume

Business Architecture

API ortal **Usability Architecture**

Integration Architecture

System Architecture

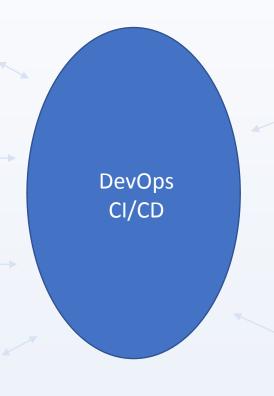
The Developer API Portal must satisfy the needs of multiple classes of users. These include Architects and Developers at four levels: 1) Business, 2) Usability, 3) Integration and 4) System.

A principle tenet of the Portal is to promote Self Service.

Ideally, these users will obtain the information they need from the Portal to Develop, Design, and Test (through mocking) and Deploy to live Test and Production environments.

Generally, software teams that practice CI/CD use a version control system to manage code; an automated build engine; unit, functional and integration test systems; performance testers for normal load and stress tests; configuration management tools; and an artifact repository. These teams might also rely on containers for a consistent software deployment model from development to test to production and integrated development environments to ease the complication of build and test.





These tools all integrate with a CI/CD pipeline tool, such as Jenkins or CircleCI.
Organizations also rely on monitoring in production and capacity management, and tools for these purposes can be integrated with the CI/CD pipeline as well.

Many API Portal/Gateway vendors provide (in their product) or integrate CI/CD tools, sometimes making it difficult to delineate the functional boundaries of a Portal, CI/CD and a Gateway.

For purposes of this presentation, the Technology Stack and API Gateway represent the runtime environment for API execution.

A succinct definition of an **API Gateway** is that component providing a crucial layer of runtime API mediation, including policy management, traffic monitoring, security, SLA and rate limiting functions.

API Gateway Runtime

Technology Stack Runtime





