

Power Apps DevOps & Deployment

Deployment Service, Continuous Integration (CI) and Automated Testing

Accelerate your deployments and save intermediate states for versioning. Allow automated deployments to take place only when all automated tests have been successful. 🚀

Advantages of Continuous Deployment (CI)



Reduce Response Time

- Respond quickly to the need for change.
- Let your employees deploy independently and encourage Citizen Developers.
- Microsoft's ALM Accelerator toolkit makes it easy to launch pipelines from Power Apps.



Azure Integration & Scaling

- Initiate and solidify quality improvements perceived through a high level of automatic monitoring, testing and deployment.
- View insights through Azure DevOps and Azure Application Insights.



Save Time & Money

- Time is money: Save effort by automating testing.
- Get test results automatically, faster and more reliably.
- Ensure that erroneous artifacts do not find their way to the valuable production environment.



Secure Your Assets

- Secure your work. Access all reusable program modules.
- Easily understand code structures, documentations and make them available to everyone reducing development times while enable documentation and versioning of your work.



Everybody's Welcome

- Welcome everybody to carry out deliveries.
- No special skillset needed.
- Clarify responsibilities and collect approvals.

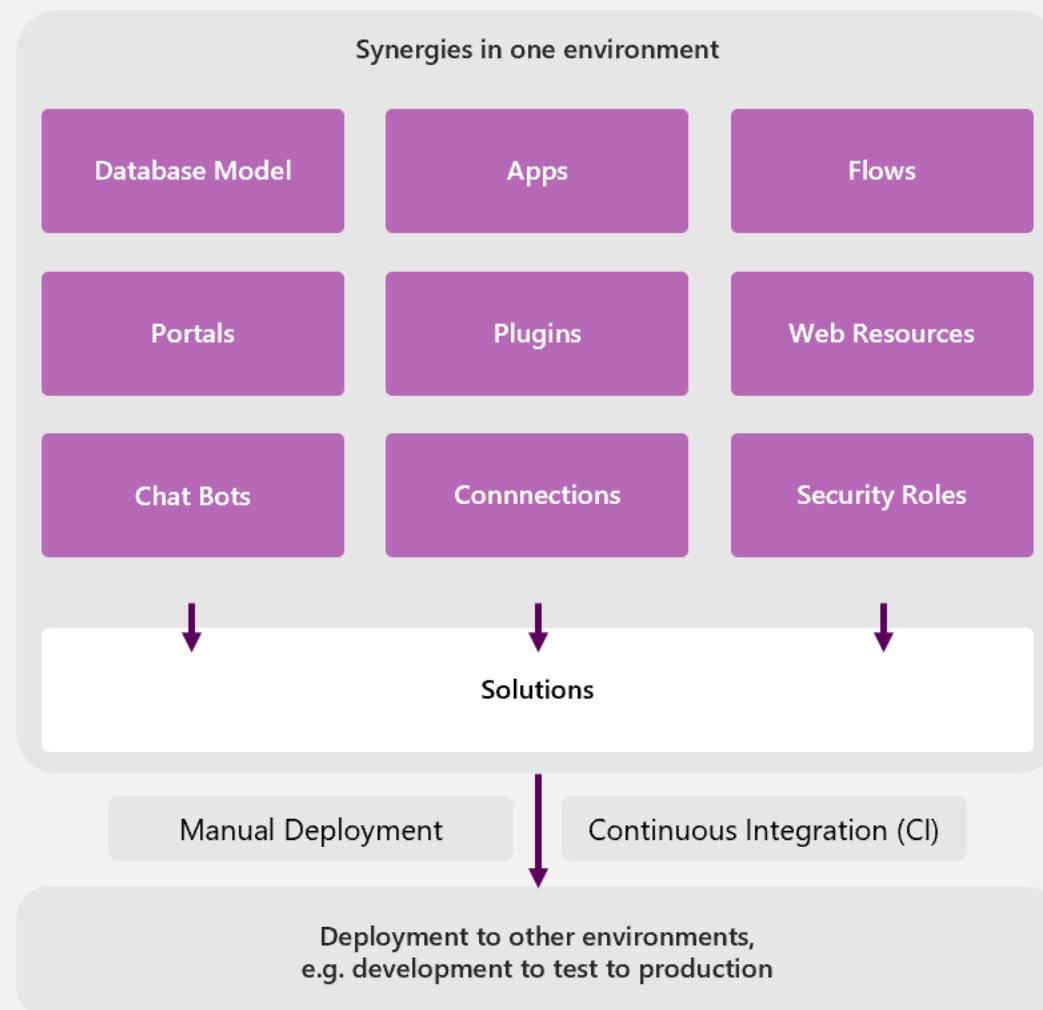


Error Handling & Rollback

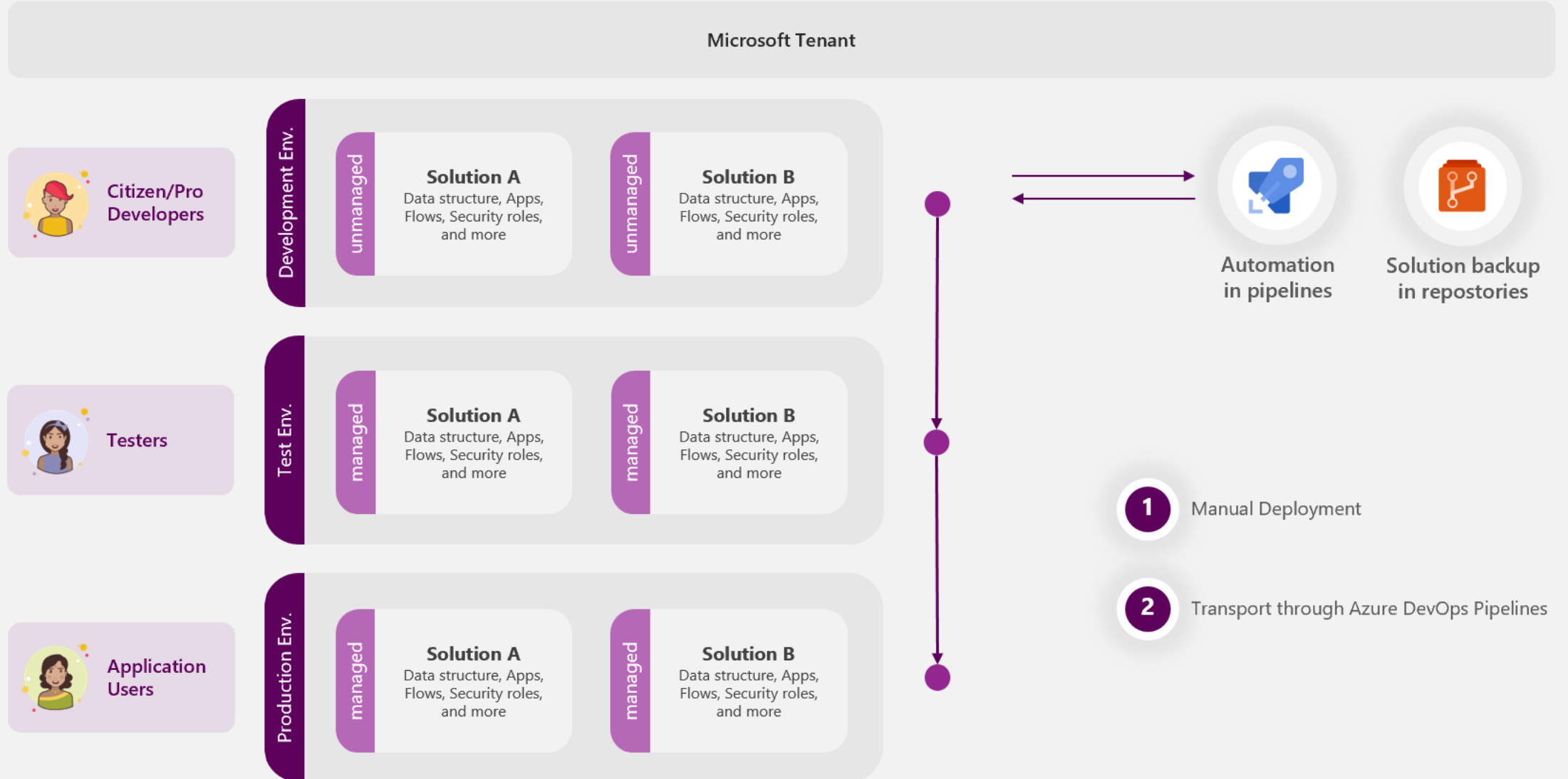
- Reduce sources of errors while deploying.
- Integrated rollback feature: Enable yourself to always go a step back.

Solution Management

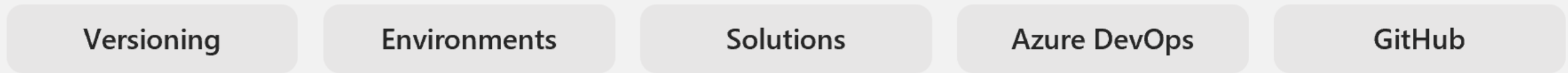
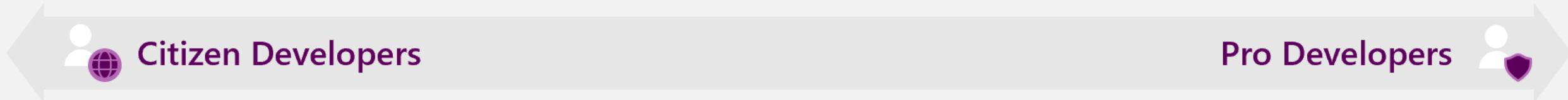
- The Microsoft Power Platform enables the development of **multiple apps per environment**.
- Within one environment, **synergies** can be used across apps and workflows, e.g. using the same data and data structures (data model, forms, lists, other components).
- The **deployment** to environments works **utilizing solutions**. As a rule of thumb, it is recommended to have **one solution per app or application area**.
- A solution references objects in Dataverse. For parallelized development, **solutions should only contain necessary objects** (differentiation possible).
- Some technical circumstances require a more detailed **solution cut**, e.g. the Ribbon Workbench.



Deployment Methodology



Application Lifecycle Management (ALM)



Each app within an environment has fully-featured version control and publishing capabilities.

New versions can be checked out during development.

Old versions can be restored.

Are containers used to manage apps, assets as well as data and permissions across an organization.

They represent the boundaries between development, test and production.

One Dataverse per environment.

Are the mechanism for executing AML in Power Platform.

Applications, customizations or components are packaged into solutions for export toward another environment.

Managed vs Unmanaged.

Dedicated DevOps tasks can be used to automate common build and deployment activities related to Power Apps.

Quality checks, Environment and Solution management, Deployment are all supported.

GitHub Actions enable developers to build automated software development lifecycle workflows.

Solutions checks, import, export.

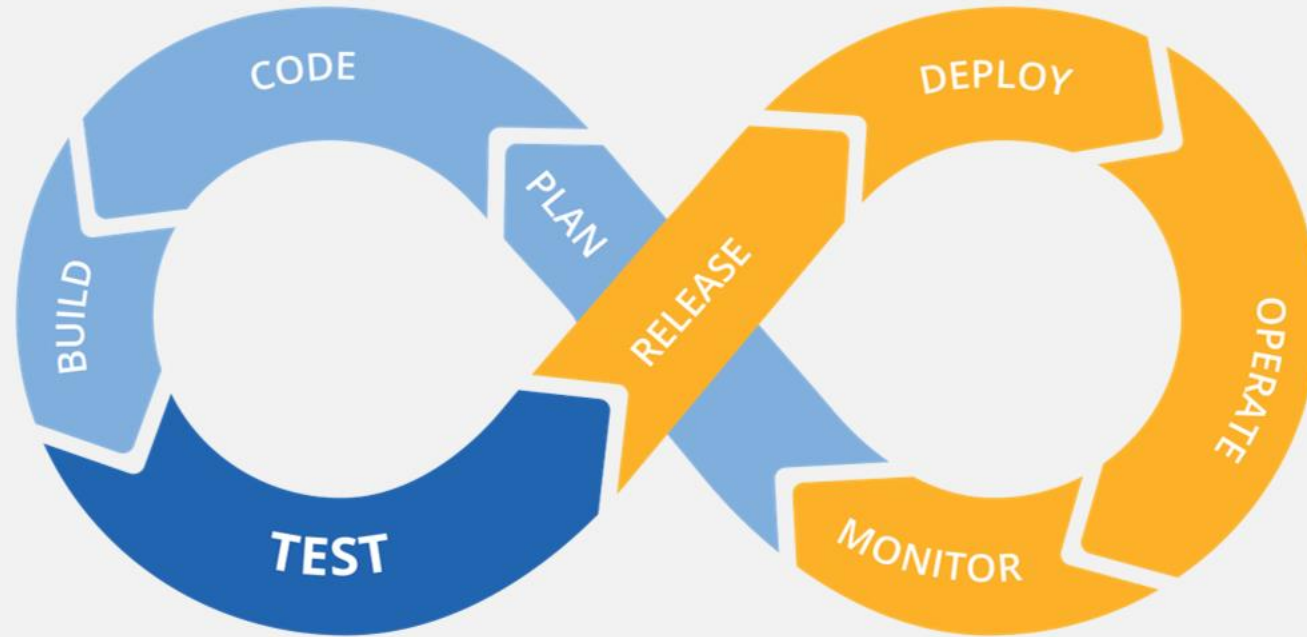
Environment provisioning.

Deployment

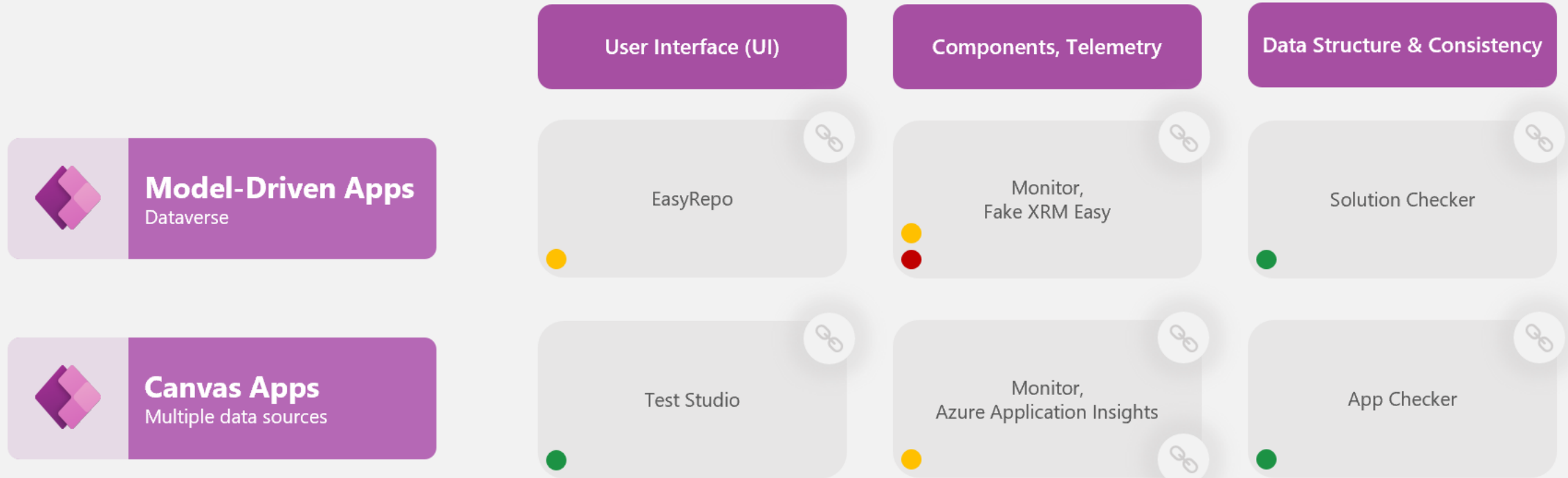
Power Platform specific

Native integrations

DevOps Cycle



Testing Power Apps



 Integrated service
  Medium effort
  High effort

What are you waiting for?

- Do you want to **evaluate** a project?
- How do I **digitize my processes** with the Microsoft Power Platform?
- Do you need **best practices** and hands-on support from our experts?
- Do you have questions about **opportunities** with Microsoft Power Platform?
- How do I organize **governance**?
- What makes the **Power Platform particularly fast** to work with?
- How does **democratization** play into your hands?



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