

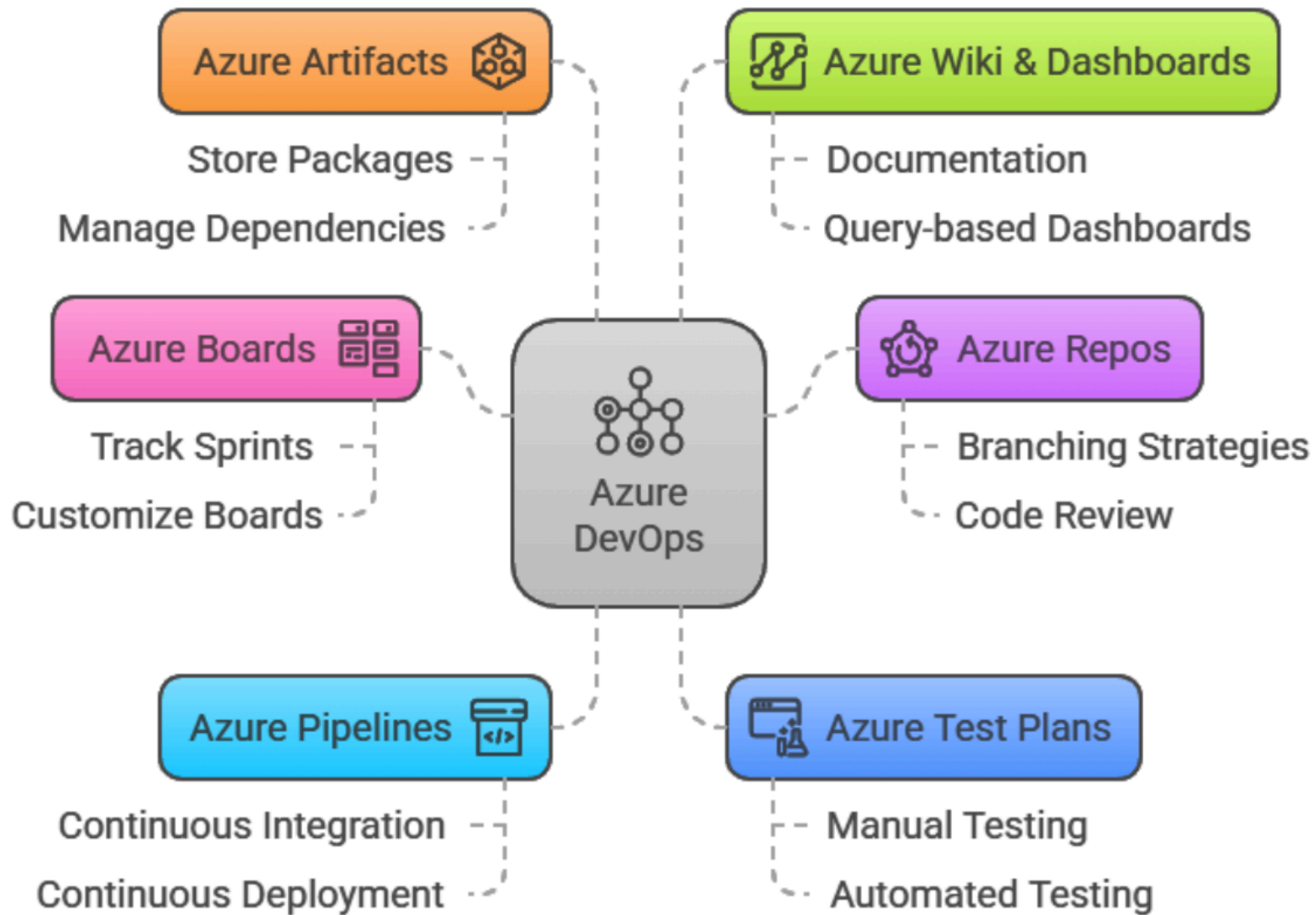
DEVOPS FOR SUMMER CAMP INC.

INTRO

- Objective is to recommend suitable tool for the organisation to improve their software development and delivery
- The analysis will introduce DevOps, outline a recommended tool and its implementation, with a background of research into the DevOps space
- User base will consist of the engineering team and product managers

DEVOPS OVERVIEW

- DevOps is about making software development, deployment, and system modifications as **seamless**, **automated**, and **hands-off** as possible...
- ...enabling **faster**, more **reliable** releases...
- ... while ensuring **stability** and **collaboration** across teams.



MARKET ANALYSIS

- Wide range of specialised tools for each element of the software development lifecycle
 - GitHub for version control
 - Jenkins for CI/CD
 - ClickUp for sprint management & documentation
- To avoid spending time on integrations we recommend a **suite** that covers lifecycle end-to-end
- Key competitor to Azure DevOps is the **Atlassian suite**

MARKET ANALYSIS

- Atlassian Suite
 - Jira for issue tracking in agile project management
 - Bitbucket for version control and CI/CD
 - Confluence for documentation and general collaboration
- Azure DevOps vs Atlassian
 - Single tool with native version control, CI/CD pipelines & documentation
 - Easier to use out of the box with familiar UI (to Microsoft users)
 - Mature, comprehensive suite of products, even AI elements

SWOT ANALYSIS

Strengths of the product

Integration with Microsoft Ecosystem

Comprehensive DevOps toolset

End to End scalability and flexibility

Strong collaborative features

S

Weaknesses of the product

Learning curve although easier to use out of the box than others

Complex enterprise-level pricing but generous free tier suitable for the current team

Users not already familiar may struggle to effectively leverage.

W

Opportunities for growth

Global collaboration

CI/CD capabilities and AI integration

Flexible, customisable workflows

Learning and development

O

T

Threats to the product's success

Initial decreased productivity could reduce user retention

Complex integrations with non-MS tools

Rapid technological changes: vendor lock-in

CHANGE MANAGEMENT

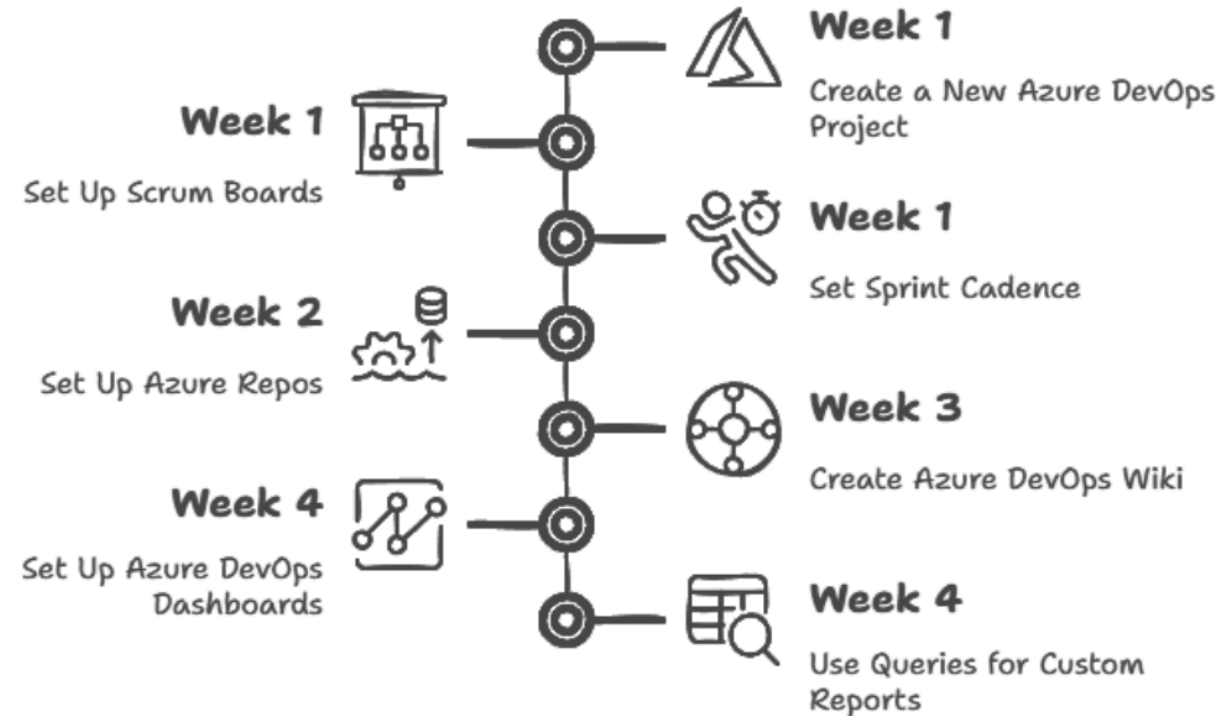
- Current state
 - 30 people
 - Reliant on Excel spreadsheets (manual and prone to errors)
 - Preference for Microsoft ecosystem
- Goal state
 - Leverage cloud solutions to efficiently scale and grow to 100+
- Current challenges
 - Excel processes are inefficient, limiting automation and collaboration
 - Manual workflows could hinder scalability and slow decision making
- How DevOps can help
 - Provides a more structured and agile framework
 - Automates workflows that reduces reliance on Excel
 - CI/CD pipelines help efficient scalability as the company grows

CHANGE MANAGEMENT STRATEGY

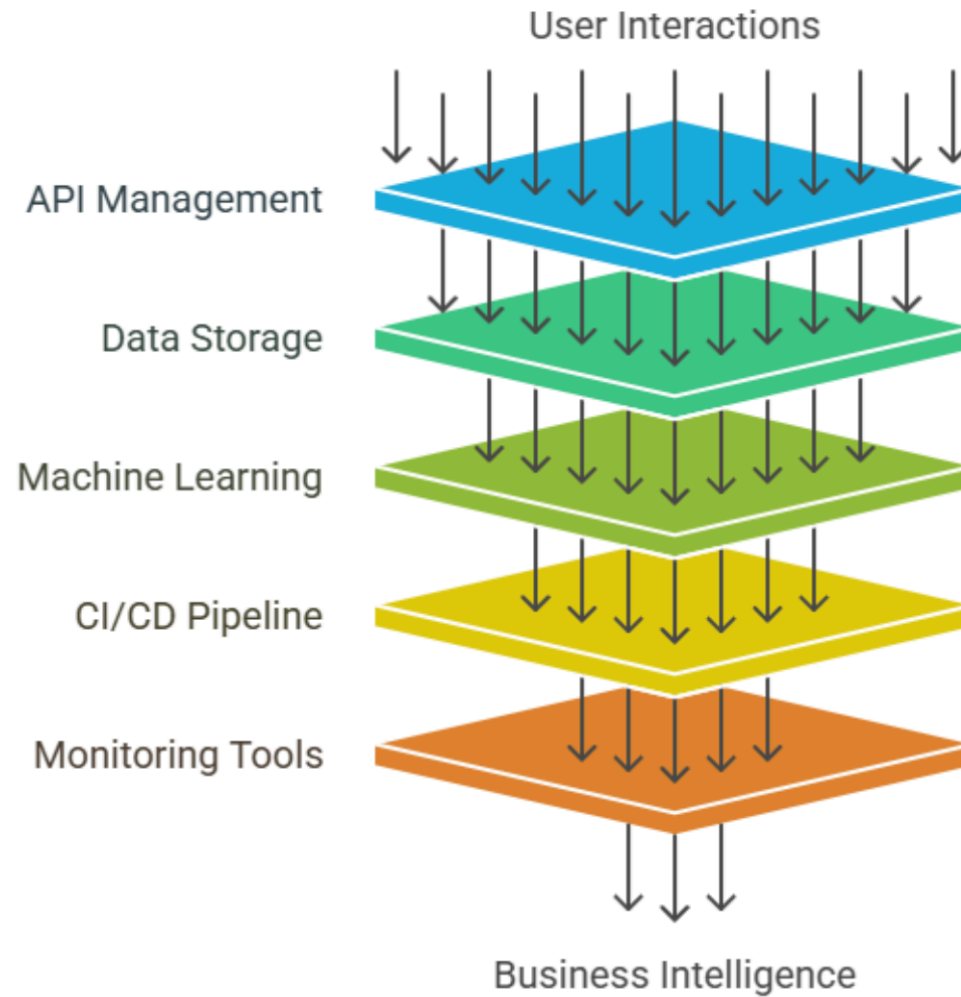
- Map the current and future states
- Initial setup
- Automate current processes
- Document the standards and train

IMPLEMENTATION PLAN

Establishing Agile and DevOps Foundations



Azure Architecture



EXPANSION PROJECT PROPOSALS

- Azure Testplans: automated testing
- Wiki: centralised documentation and training
- AzureML: cloud-based ML workloads

CONCLUSION

- Key findings
 - Two main DevOps suites: Azure DevOps and Atlassian
- Overall assessment
 - Azure DevOps is comprehensive end-to-end suite
 - Provides seamless integration with MS ecosystem
 - Ease of use out of the box
 - Scalability: suits current team structure as well as large organisations