DevOps for Microsoft Dynamics

SERVICE BROCHURE

IT ARCHITECTURE

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DevOps Implementation for Dynamics 365

SERVICE BROCHURE

ABOUT ME

I am **Software Engineer** from Kyiv, Ukraine.

Microsoft Certified Professional.

Expert in Microsoft .NET world.

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Software Architecture and Design • Enterprise Architecture • Enterprise Integration • Product Delivery

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DevOps CULTURE

involves people, processes, and products

I'm excited to join you all

TO GIVE EXPERT **ADVICE**

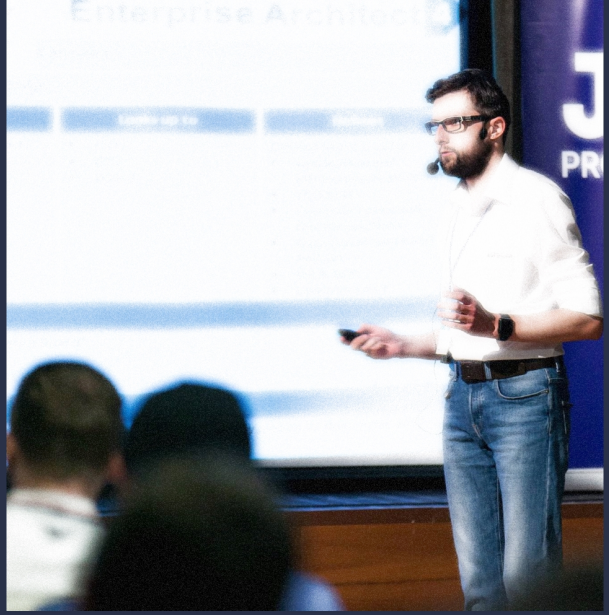
Consulting

TO **TALK** ABOUT DEVOPS

Workshop

TO **SPEAK** AT YOUR EVENT

Public speaking



I will help you and your team ...

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I WILL HELP YOU AND YOUR TEAM

TO WORK TOGETHER, EFFICIENTLY, TO DELIVER BETTER AND FASTER RESULTS TO CUSTOMERS

I'm looking forward to being a part of its **success**.

Sincerely,

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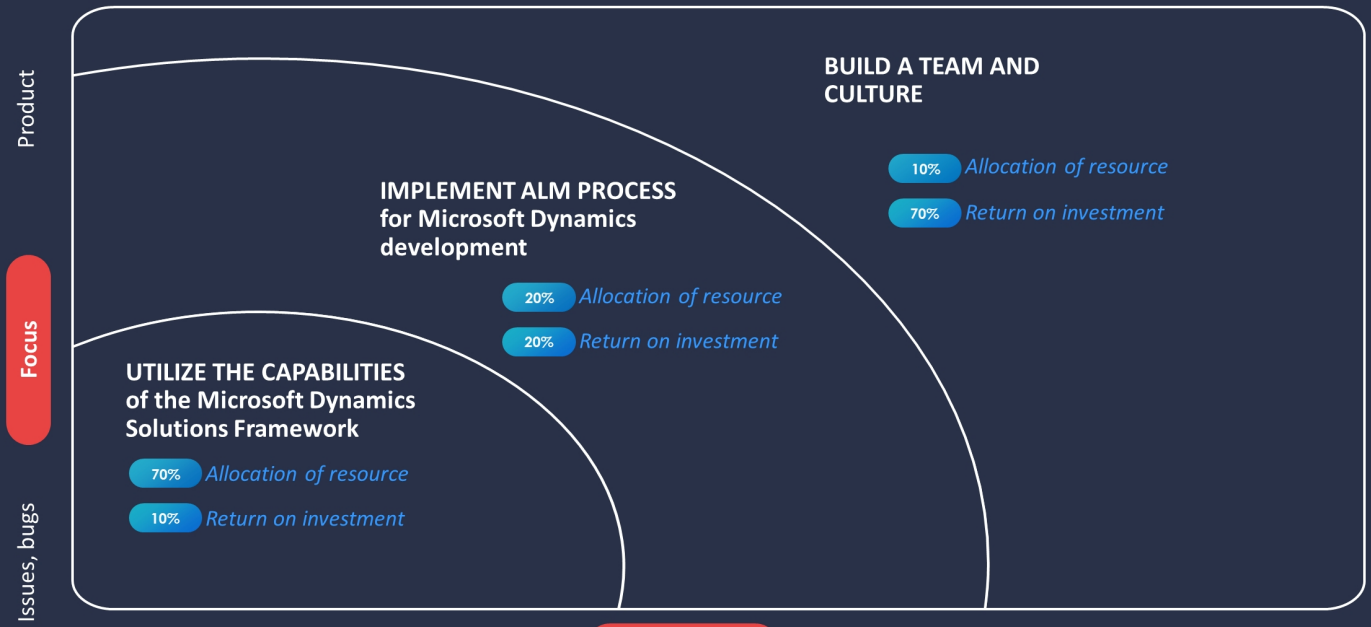
ALM Implementation Ambition Matrix



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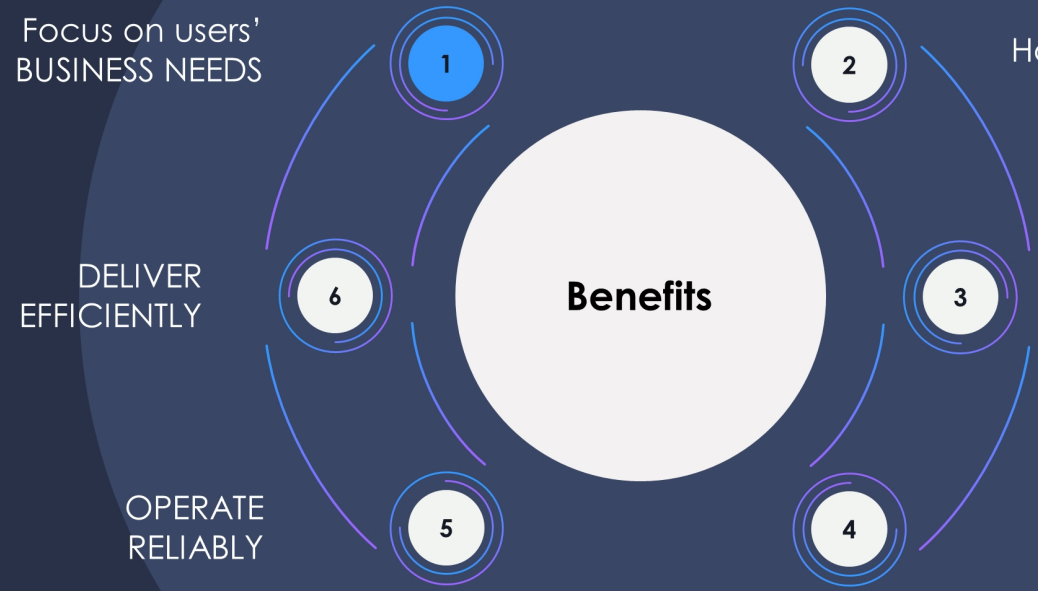


Dynamics 365

Dynamics 365
Customer Engagement

Customers

Products

People

Data

What is Dynamics 365?

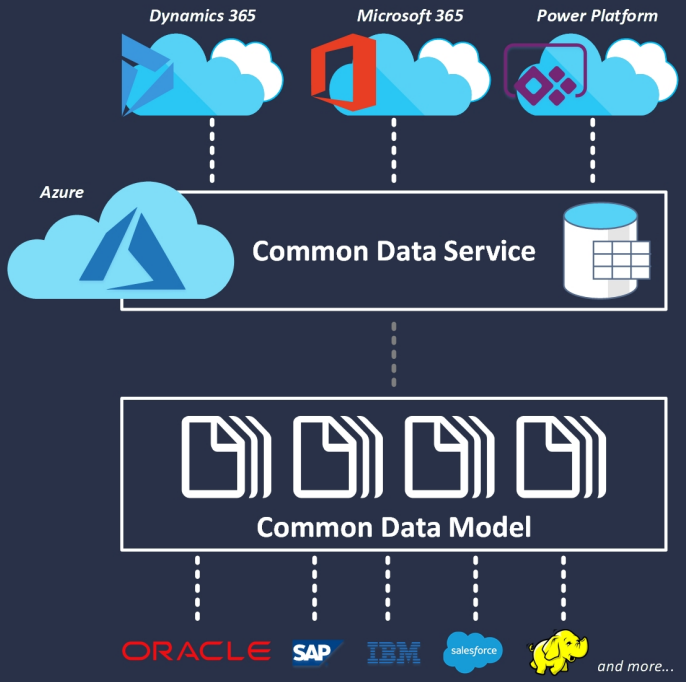
Dynamics 365

Microsoft's business application platform in the cloud

- Set of connected modular SaaS applications and services
- Combines ERP and CRM capabilities
- Integrates your data, business logic and processes
- Built on Microsoft Azure
- Common Data Service -- is a center of Dynamics 365

Dynamics 365

Architecture Overview



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You use Microsoft Dynamics 365 to:

01

Make smarter decisions.

02

Take actions that drive your business.

03

Customize and develop your CRM and ERP applications.

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YOU CAN ACHIEVE MORE

BY ADOPTING

- Agile techniques
- Right engineering practices

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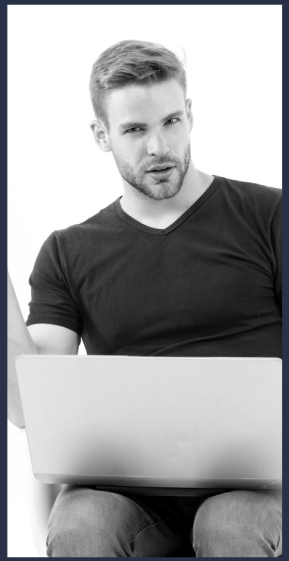
// **Agile** techniques are now **common** place within Microsoft Dynamics 365



Maintain **healthy** and **sustainable** Line of Business applications

House of ALM «Wants»

01 Release on demand

02 Eliminate technical debt and unplanned work

03 Fail smart/fast/safe

04 Measure feature value

05 Look "outside-in"


These DevOps technologies,
combined with PEOPLE and PROCESSES,
enable teams to continually provide
value to customers.

What Are the Benefits

of adopting right engineering practices within Microsoft Dynamics

Fast Delivery

Repeatability

Optimization of Resources

Security

Scalability

If Dynamics SAVES you development time,
DON'T WASTE time in the testing and deployment process

Automation will help

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Automated deployment

Single source of truth – Git repository

Inject all Dynamics solutions artifacts as part of a single build

Automatically maintained a history of what went into a release

What will be changed

Comparison of different releases

Rollback individual artifacts or commits

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How are you associated with Microsoft Dynamics 365 development?

INDEPENDENT SOFTWARE VENDOR (ISV)

Software publisher, specializing in making and selling software

IT SERVICES COMPANY IN OUTSOURCING

Software development and IT consulting company

END CUSTOMER ORGANIZATION

Organization with in-house product development team

How do you feel should you STEP UP

- your teams' development process?
- ALM maturity level?
- how you deliver product?

YOUR STORY

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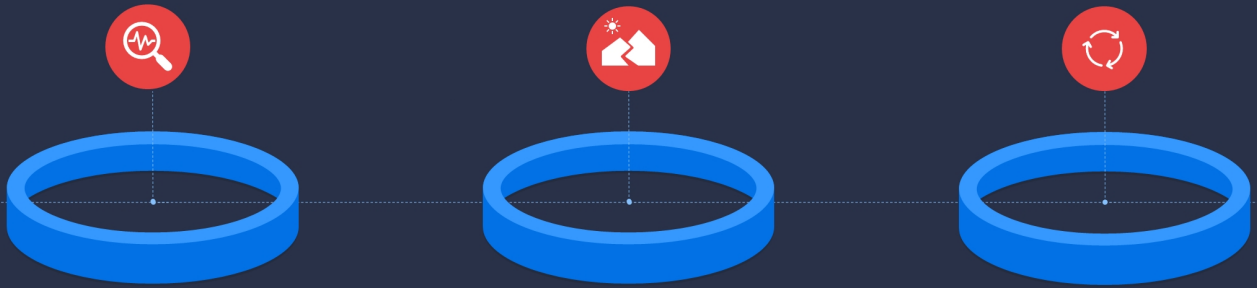
ALM for Dynamics Jumpstart



DISCOVERY & ANALYSIS

Kick-off

Audit

SWOT Analysis

Pain Points

Maturity Assessment

ROADMAP

Initiatives and Goals

Prioritization

Roadmap

Scope

IMPLEMENT & ADOPT

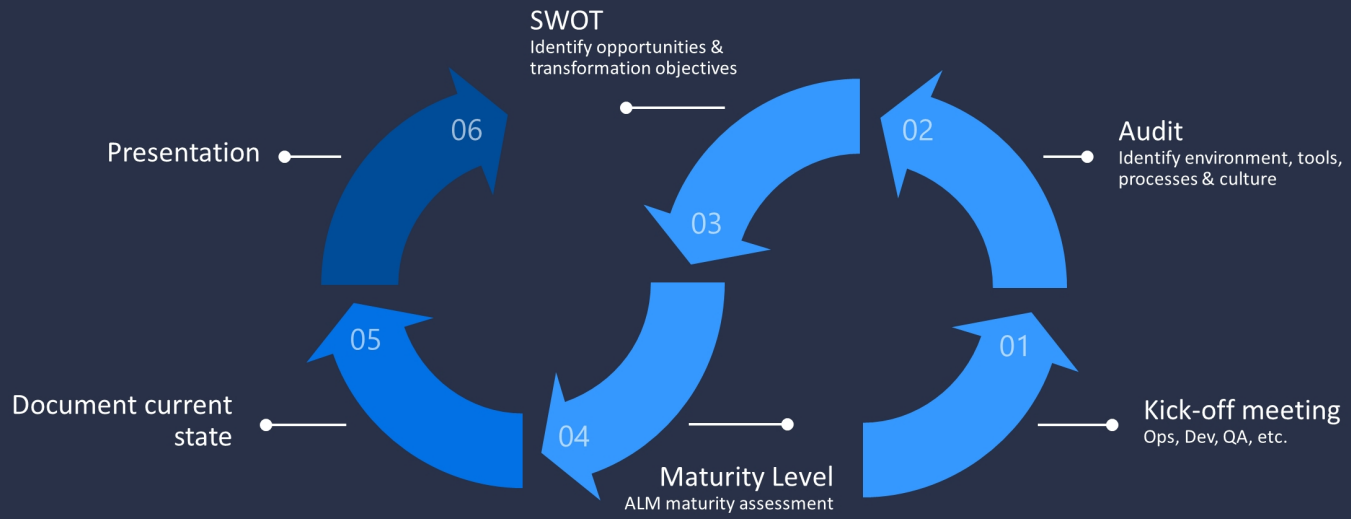
Proof-of-concept (POC)

Implementation

Training

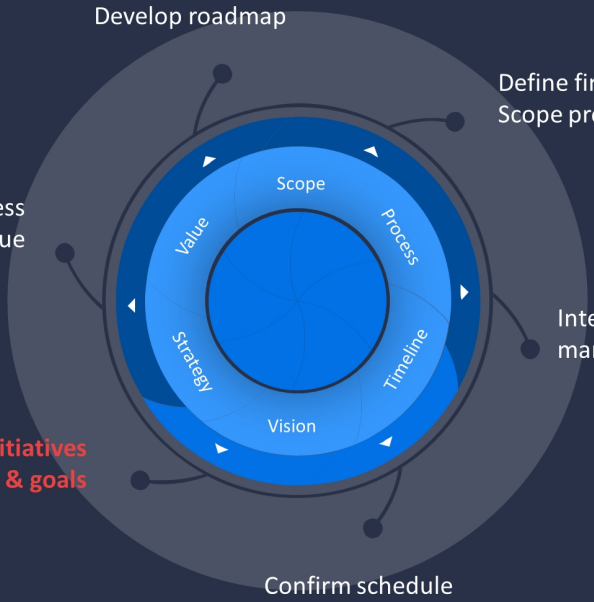
Evaluation

01 DISCOVERY & ANALYSIS

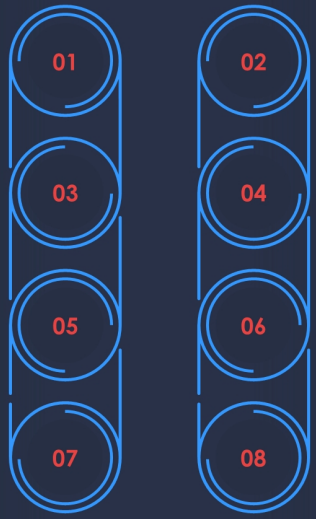


02 ROADMAP

Strategic importance



03 IMPLEMENT & ADOPT



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Building a Culture

Action Plan

PEOPLE

PROCESS

TECHNOLOGY

Previous

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Where should investment be made?

01 Plan

02 Develop

03 Release

04 Operate

Where should investment be made?

Plan

Getting the requirements.

Preparing specifications.

Planning teamwork.

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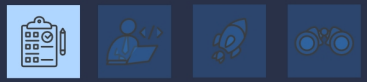
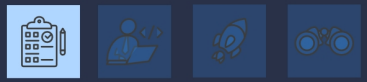
Next



Plan

Empower teams to manage their work with **agility** and full **visibility** across products.



Plan

Define, track, and lay out work with Kanban boards, backlogs custom dashboards and reporting capabilities.

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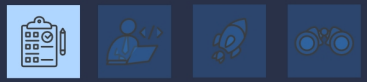

Plan

Explore analytics with visuals and turn data into insights.

Where should investment be made?

Develop

01 Dynamics 365 Customizing vs Configuring

02 Dynamics 365 Solution Management

03 Use Source Control with Dynamics 365 Solution Files

04 Continuous Testing

Develop

Take full advantage of Microsoft Dynamics 365 development capabilities to **get total control** over build and test of system changes.

Develop

Find the best option of **development pattern** for your team and product.

Single development instance	Multiple development instances – single workstream	Multiple development instances – multiple workstreams	Custom Option

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Develop

Associate work items with check-ins.

Where should investment be made?

Develop

Track changes and **compare** solution files.

Where should investment be made?

Develop

Consider the **Dynamics 365 solution** as the atomic boundary that discretely encapsulates a unit of application behavior.

Solution Layering

Solution Segmentation

Updating Solution Components

Versioning

Develop

Keep development efforts **transparent**.

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Develop

Automate testing and practice continuous integration

Previous

Next

Where should investment be made?

Develop

Provision environments for developers in minutes.




Previous
Next

Develop

Standardize a way of storing and managing projects across the organizations.

Previous
Next

Develop

Keep all **Dynamics 365 solution components** in code version control system.

Data Model	User Interface	Process and Code	Other

Develop

Check the product and search for bugs using **automated tools**.

Where should investment be made?

Release

- Anatomy of your Pipeline
- Continuous Delivery
- Continuous Deployment

Release

If you **build it, it will ship**.
Conversely, if you don't, it won't

Release

Ensure that your product **can be built and deployed** at any given time.

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Release

Define and spin up **environments**,
create **continuous delivery** pipelines

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Release

Make the solution deployment **repeatable** and **predictable**.

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Release

The product is live and if there are still changes, they **mustn't spoil** user experience and site quality.

QUALITY CONSUMERS TIME TO MARKET

Where should investment be made?

Operate

- Monitoring
- Service Level Management
- Operational security
- Feedback

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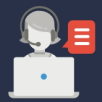
Operate

The development team is on duty for **catching bugs**.

Operate

Gather **feedback** from the client and target audience to see all the picture.



Where should investment be made?

It will depend on your current processes' maturity

- Solution Management
- Build Management
- Test Management
- Deployment Management

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Where should investment be made?

AVERAGE = 2

Where should investment be made?

AVERAGE = 2

Where should investment be made?

AVERAGE = 2,5

Where should investment be made?

AVERAGE = 3

Where should investment be made?

AVERAGE = 3

Where should investment be made?

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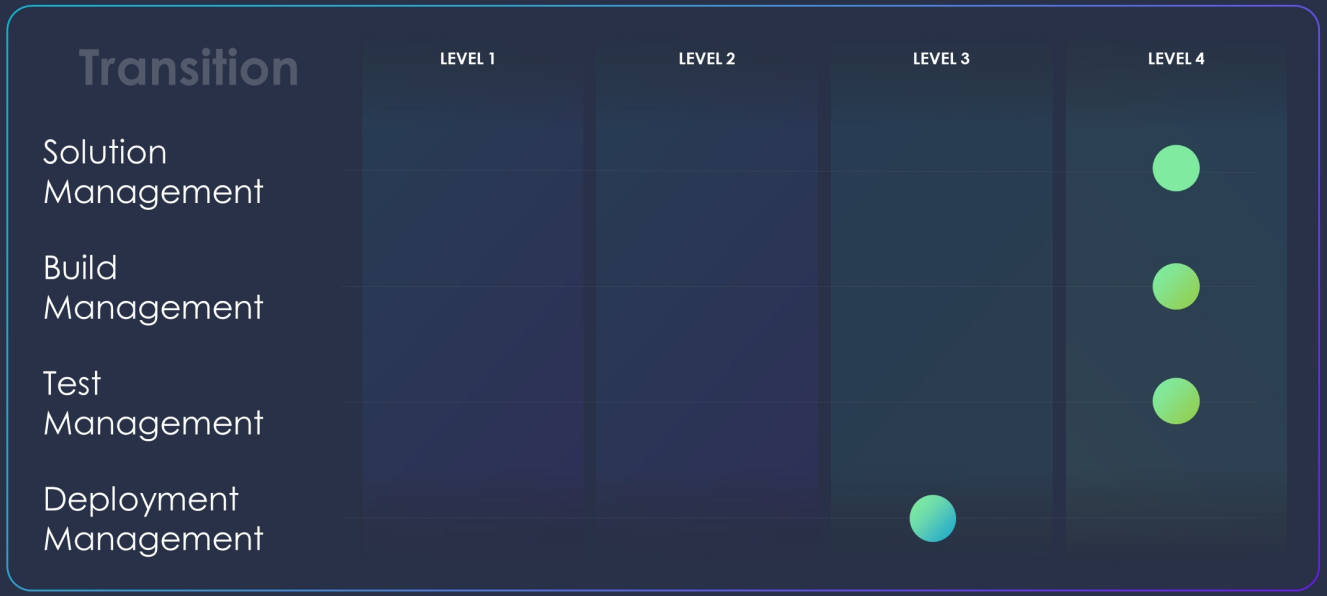
Where should investment be made?

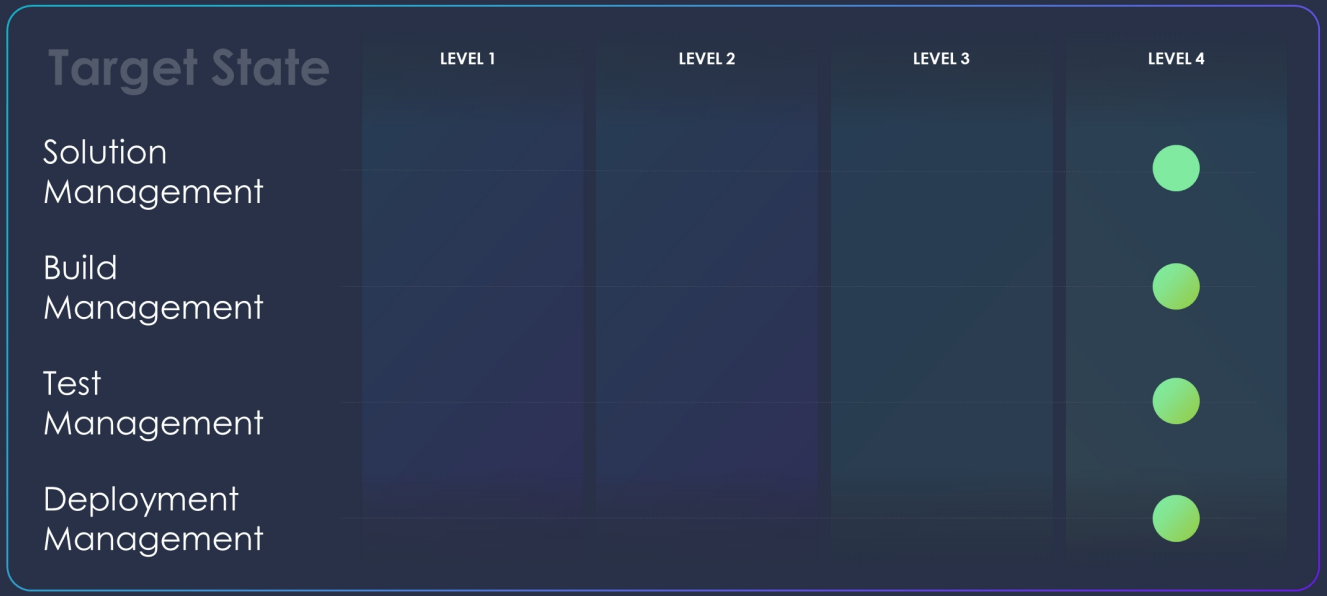
AVERAGE = 3,5

Where should investment be made?



AVERAGE = 3,75

Where should investment be made?



AVERAGE = 4

Where should investment be made?

THERE IS NO RIGHT OR WRONG ANSWER,

but typically

Moving UP one level across all dimensions is likely to produce better incremental value than investing heavily in a single dimension.

I'm looking forward to being a part of its **success**.

Sincerely,

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