



Harnessing the Power of Agile

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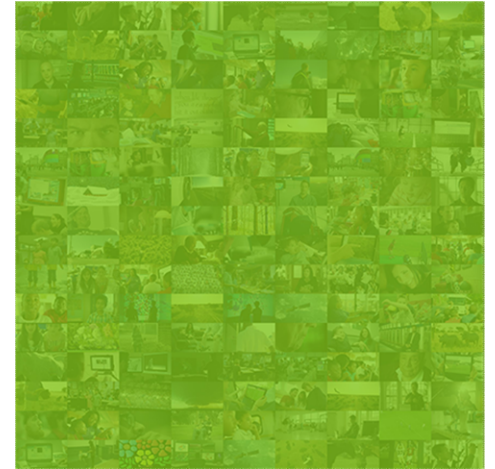
@Microsoft @PITVtweets #PIOC



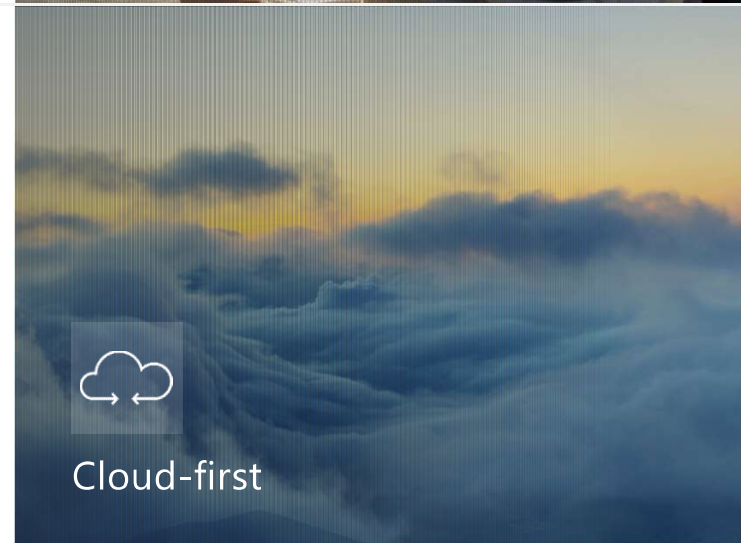
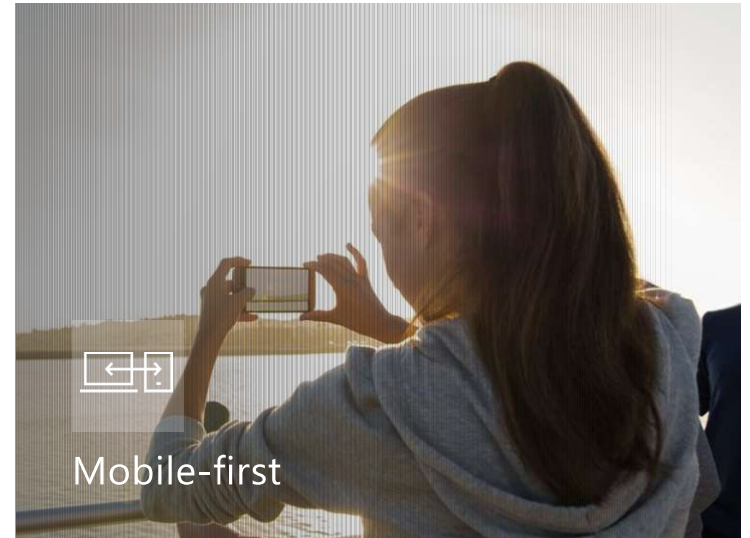
Microsoft: Our Mission, Our Ambitions

Microsoft's mission

Empower every person and every organization on the planet to achieve more



Our worldview



Create more
personal computing



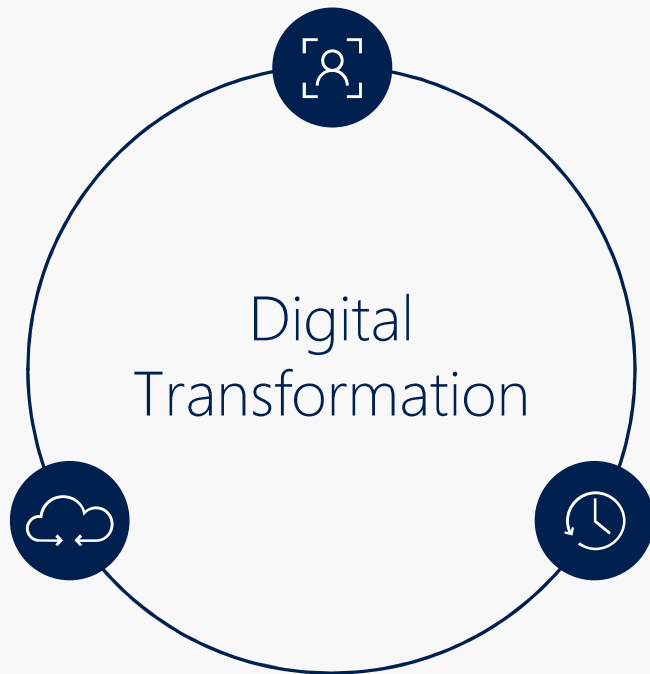
Interconnected
Ambitions
Digital
Transformation

Build the intelligent
cloud platform



Reinvent productivity
& business processes





How is your **business** being digitally transformed?

How is your **business model** being digitally transformed?

Digital Transformation



Harnessing the power of agile development

We leveraged agile development to integrate multiple business lines to a new PLM platform and achieve our strategic business objectives faster.



Our Business Situation, Circa 2014

The slide is titled "Devices & Services" and is divided into two main sections: "Consumer" (green background) and "Business" (blue background). On the left, there are categories for "Tablets", "PCs", "Phones", "Consoles", and "Embedded" with images of various devices. The "Consumer" section lists Office 365, Microsoft Account, Microsoft Store, Outlook.com, Skype, Bing, SkyDrive, XBOX LIVE, Xbox Music, Xbox Video, and msn. The "Business" section lists Office 365, Lync, Active Directory, Yammer, Dynamics CRM, Microsoft System Center, SkyDrive Pro, Windows Azure, SQL Azure, and Windows Intune. At the bottom, it says "Continue Driving The Transformation...". A dark blue callout box with white text points to the slide, reading "Prior Business Strategy".

Devices & Services

Tablets PCs Phones
Consoles
Embedded

Microsoft

Consumer

- Office 365
- Microsoft Account
- Microsoft Store
- Outlook.com
- skype
- bing
- SkyDrive
- XBOX LIVE
- Xbox Music
- Xbox Video
- msn

Business

- Office 365
- Lync
- Active Directory
- Yammer
- Dynamics CRM
- Microsoft System Center
- SkyDrive Pro
- Windows Azure
- SQL Azure
- Windows Intune

Continue Driving The Transformation...

Prior Business Strategy

First: Defining business objectives

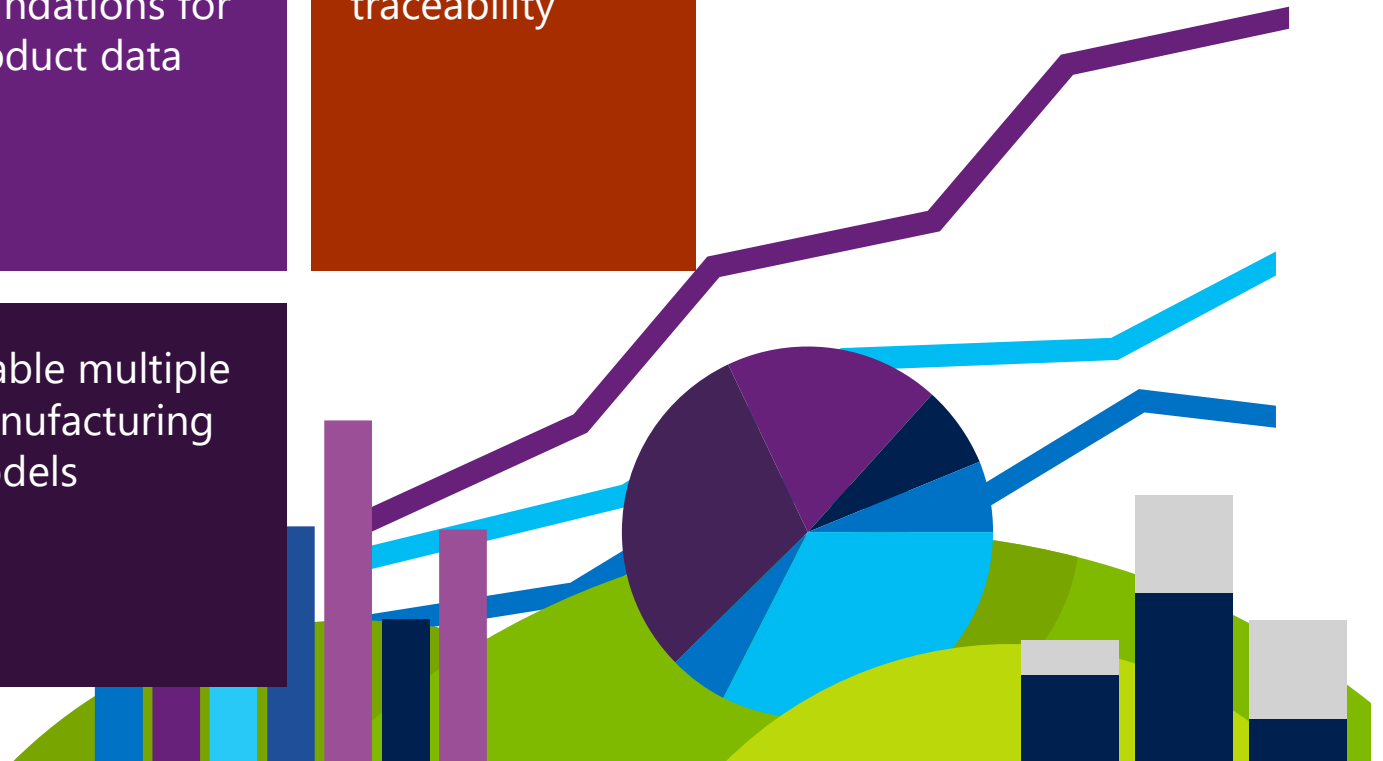
Accelerate design collaboration

Establish core foundations for product data

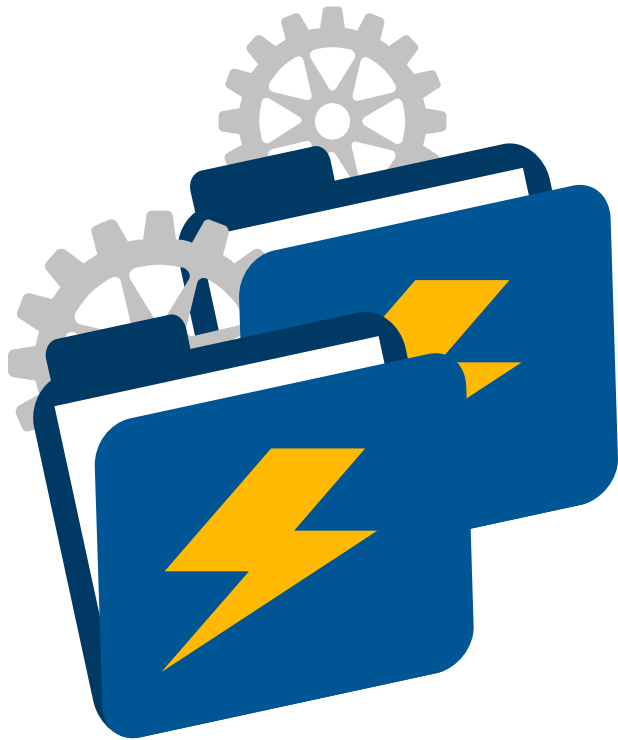
Maintain traceability

Enable internal and external collaboration models

Enable multiple manufacturing models



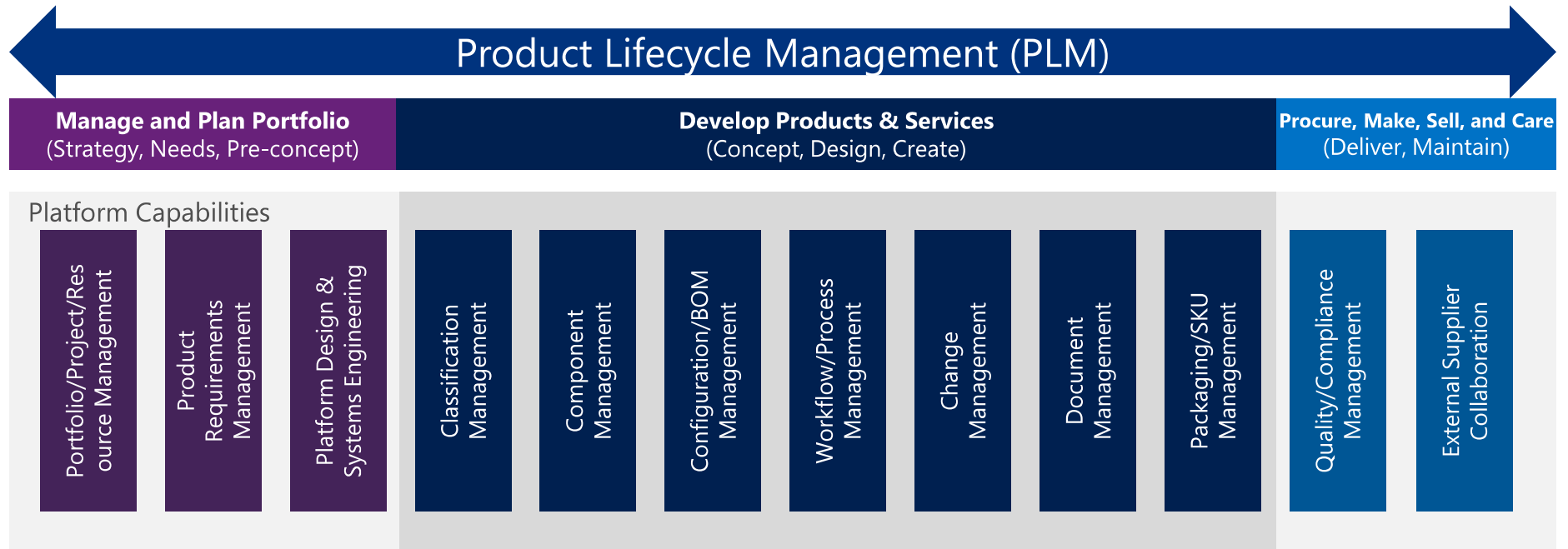
Accelerating innovation using agile development



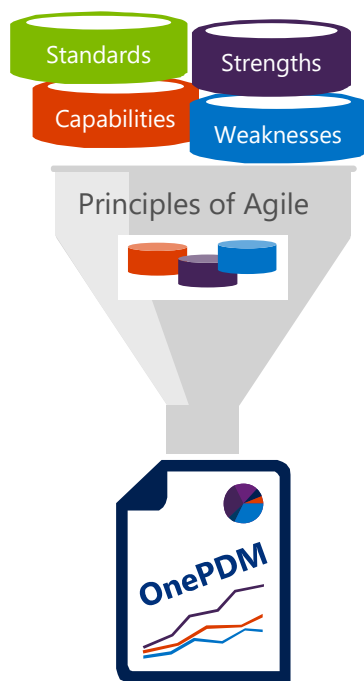
- **Working software** is continuously delivered in short increments and iterative sprints.
- The initial OnePDM system was released rapidly so that stakeholders could **iteratively improve** the platform.
- Business representatives were engaged to **receive collaborative feedback** for upcoming sprint activities.

Product engineering and supply chain

Product Lifecycle Management (PLM) ensures critical product engineering activities are developed correctly and moved from engineering inception phases through to the procuring, manufacturing, selling, and customer care teams.



Industry leading standards and business processes

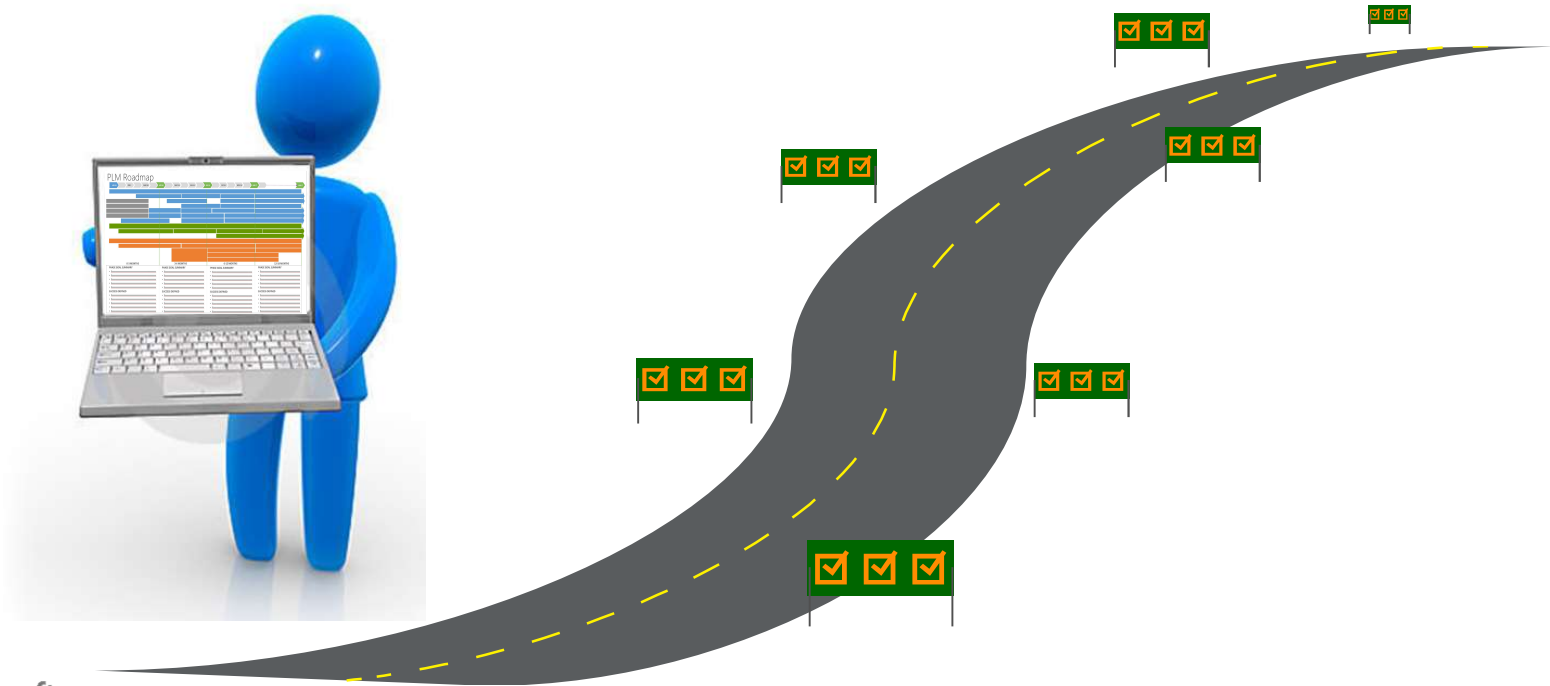


Adopting Agile Methodologies meant we:

- Mapped the business objectives to a realistic roadmap of high-level features and requirements.
- Understood the stakeholders' businesses and how their processes lined up with each other and the latest industry standards.
- Leveraged latest leading industry standards to accelerate new features.

Creating a development roadmap

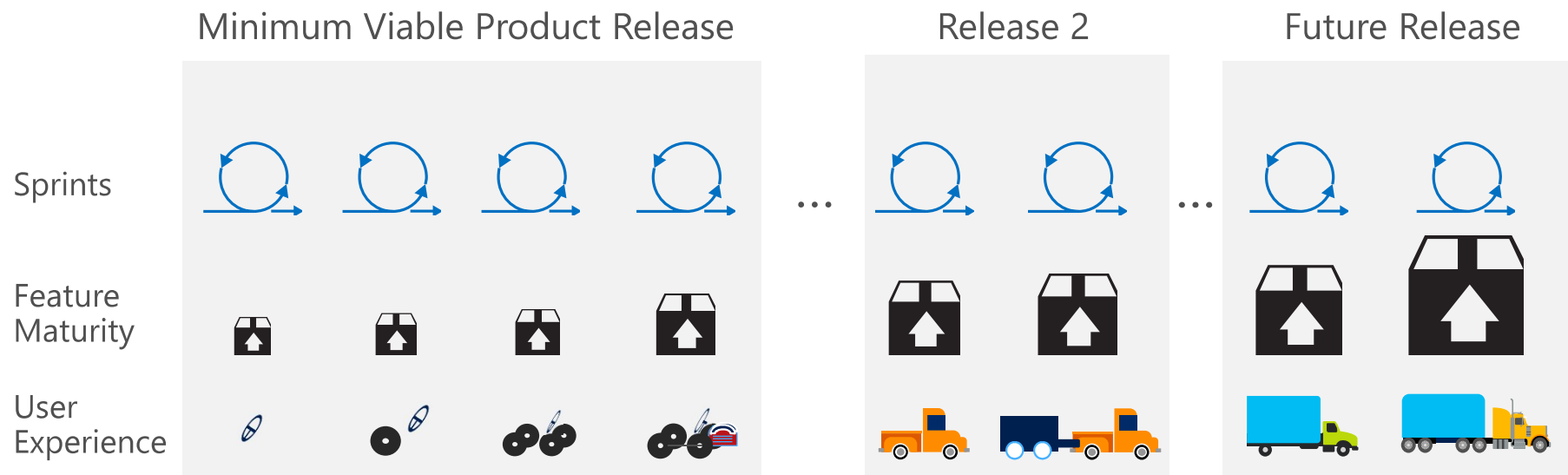
In agile development, we prioritize and deliver working capabilities frequently, preferring shorter timescales with incremental functionality.



Building OnePDM using agile methodology

Sprint teams worked daily to release software until functionality achieved the Minimum Viable Product requirements.

Following increments and sprints added and refined capabilities.



The agile governance structures

Governance board

Met quarterly

- Reviewed execution plans
- Reviewed the roadmap
- Reviewed recommendations
- Assessed impacts



Steering committee

Met weekly

- Includes all stakeholder leads, including vendor leaders
- Provided core business group decision-making
- Provided program guidance
- Drove change management



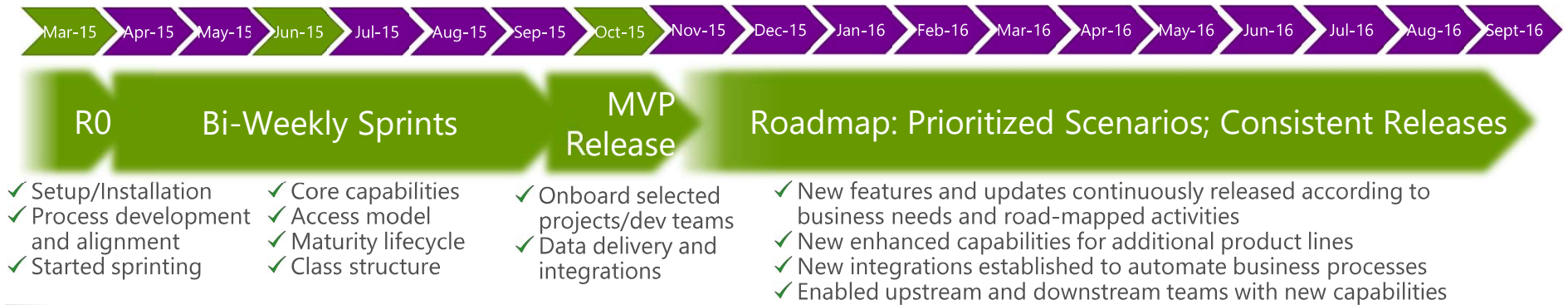
Development teams

Met daily

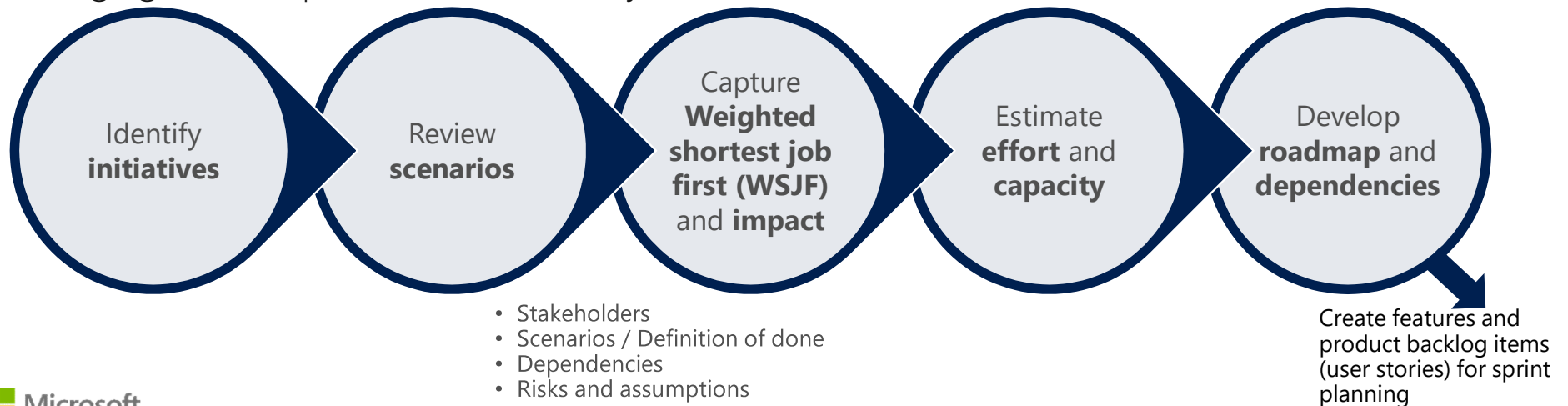
- Provided functional and technical decision making
- Ran program activities
- Reviewed and approved solutions



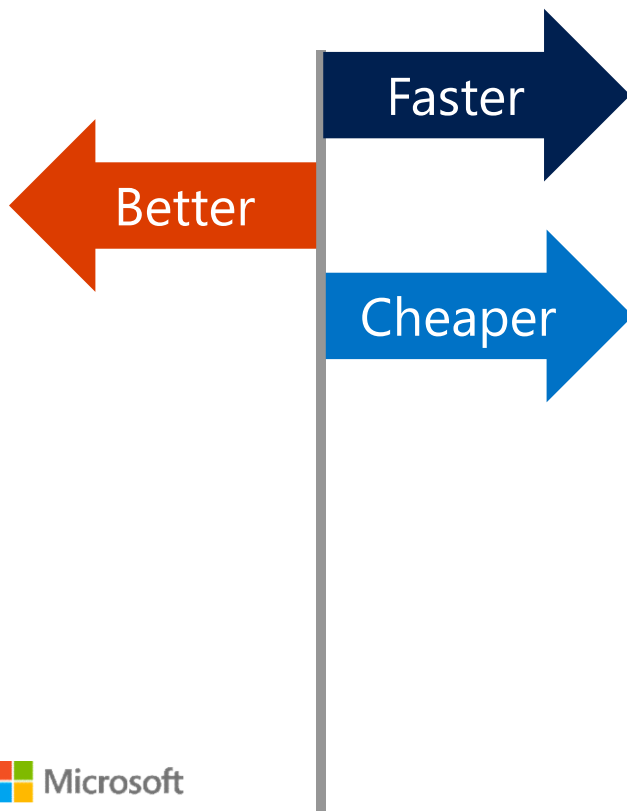
Accelerated Results: Working PLM Platform in less than 8 months



Using agile development to continuously deliver...

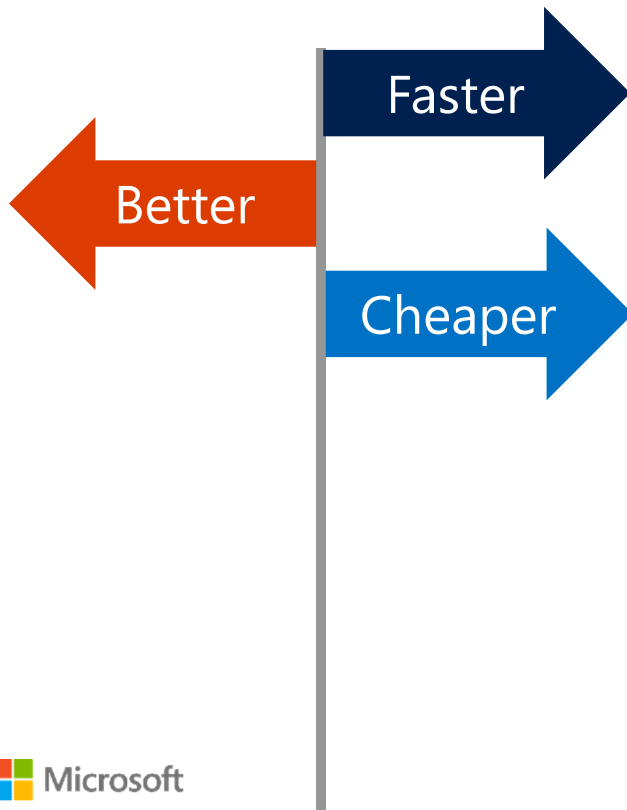


Benefits



- Accelerated program rollout by 50%.
- Development and deployment times went from 7,200 minutes 1x every three weeks to **10 minutes a day**.
- Reduced time-to-release product data to upstream and downstream systems.
- Increased agility and responsiveness to the needs of the business.

Benefits



- Will save **several million dollars (USD)** in its first two years of operations.
- Simplified user experience to access system and product data.
- Reduction in amount of effort required to perform engineering and supply chain activities.
- Reduction in time and effort required for onboarding.

Lessons Learned and Best Practices



Stakeholder Engagement

- Continuous business engagement and active participation.
- Involve all stakeholders in the governance bodies, from business end user sponsors, technology teams, and vendors.

Lessons Learned and Best Practices



Focus on
Business
Outcomes

- Be ready to adapt to significant change to priorities, functionality, and scope, as long as they align with the long-term business outcomes which are not as likely to change.
- When working across multiple product groups, focus first on understanding and solving business process and people and then on technology.



Lessons Learned and Best Practices

Document processes

- When process and system documentation existed, agile development sprints had better momentum.
- Identifying the best direction and solution was difficult when documentation was sparse.

Lessons Learned and Best Practices



Consider industry standards

- Adopting standards has far-reaching effects, because all product groups need to align to and adopt them.
- Industry standards were evaluated to see how they could benefit.
- By reviewing and understanding existing best practices, reasoned decisions on adoption and rejection were possible.

Lessons Learned and Best Practices



Maintain agile momentum

- Agile development emphasizes daily collaboration.
- Teams can consider features and test, retest pass, and fail fast on a daily basis.
- Requires commitment and timely feedback from users.

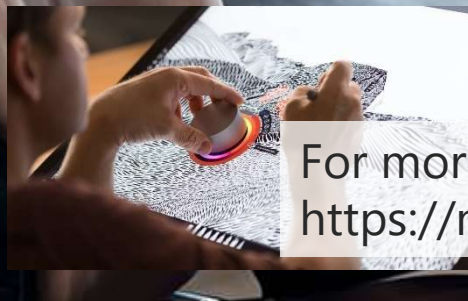


Lessons Learned and Best Practices

Treat product data as an asset

- Wide collaboration and engagement is an opportunity to consider new complex improvements enabled by data.
- Enabling users to have visibility to data drives efficiency in speed and decision making.

We are accelerating Microsoft's newest devices to market on our new platform



For more information, access our white paper here:
<https://msdn.microsoft.com/en-us/library/mt670602.aspx>

