NTT DATA
Trusted Global Innovator

Enterprise Architectures Modernization Services

2021

NTT DATA Italia

Microsoft Competence Center

Briefing Content

Objectives

This Briefing aims to illustrate how NTT DATA applies Microsoft's Cloud Adoption Framework to customers who need to migrate or modernize their infrastructures and services to the Cloud.

The meeting offers an extensive overview of the Cloud Adoption Framework and allows the client to evaluate which of the best practices fit his objectives and complexity, in order to arrive at a personalized action plan to address his needs.

Target Audience

The Briefing is aimed at figures dealing with the strategic evolution of IT infrastructures and services, such as:

- CIO / CTO / IT Managers

- Decision Makers

Contents

The Briefing has a maximum duration of 2 hours.

During the meeting an overview of the Microsoft Cloud Adoption Framework will be contextualized to the customer needs and previous NTT DATA experiences

- Migration Strategy: define clear objectives and results to be achieved.
- Adoption Plan: how to plan an adoption, also taking into account organizational and human capital aspects.
- Readyness: synthesize architectural blueprints that addresses, architecture, identity and cost management with consistency.
- Migrate or Innovate?: Understand the difference between a migration and modernization plan in terms of benefits, impacts, and speed of execution.
- Governance Best Practices: direct the initiative with specific security, cost management and governance policies
- Operations Best Practices how to ensure continuity and resilience to operations with effective monitoring

The customer will receive an high-level roadmap of the required steps to modernize its Enterprise Architecture and related workloads

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Cloud Services Landscape (Gartner, 2020)

Cloud definition by Microsoft:

"The definition for the cloud can seem murky, but essentially, it's a term used to describe a global network of servers, each with a unique function. The cloud is not a physical entity, but instead is a vast network of remote servers around the globe which are hooked together and meant to operate as a single ecosystem."

MICROSOFT IS A LEADER:

- Recognized Leader in several areas
- Offering a comprehensive set of services seamlessly interoperable
- Architectures can adopt easily application like Dynamics 365, Microsoft 365 and others.
- Power Platform available for Low-code application development

Define your target scenario

Enterprise Architecture Modernization is a **complex task** and there is no easy way to achieve your goals. For this reason, is important to clearly define which **business goals** you are aiming to in order **to gain better and quicker ROI** from actions required.

Once the business goals have been clearly identified, **next steps** and their **prioritization** will be based on them.

The cloud adoption journey starts typically from few questions asked to identify which **long-term strategic goals** are in place. Through this process **several scenarios** can be identified, like **Hybrid Cloud**, **Multicloud** and **Modern Containers**.
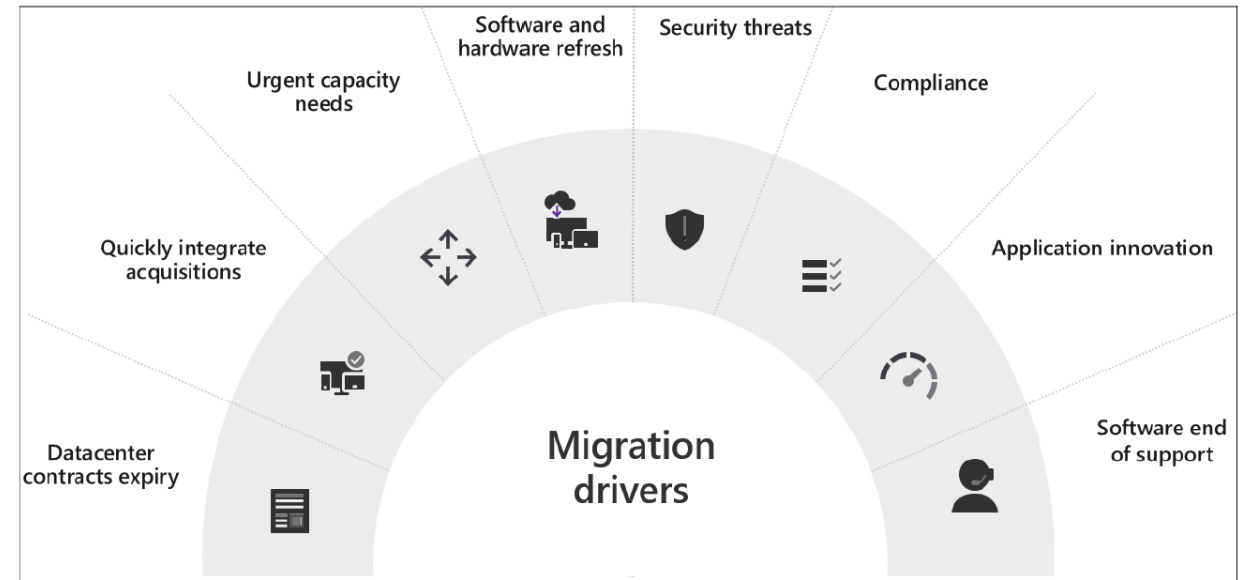
Modernization helps to drive **innovation & market differentiation**, improve agility and **reduce time-to market**, by leveraging cloud capabilities, services and data driven insights / intelligence.

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Discover your current assets

Before migrating workloads to Azure, you first need to understand the **current infrastructure** and define what the migrated workloads will look like. With simple steps, you can comprehensively **discover and assess** your on-premises resources to figure out how they'll **run in the Azure cloud**.
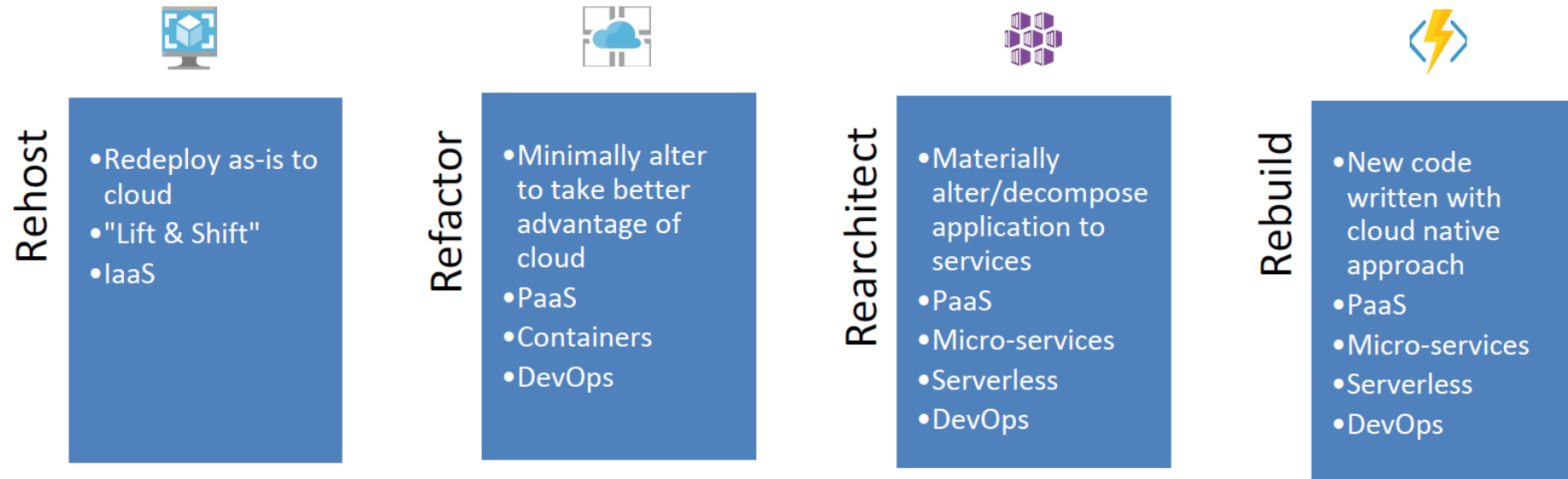

Depending on the size of the evaluated environment in terms of assets and applications involved, **automatic discovery tools** can be used. Microsoft offers **Azure Migrate**, but additional tools offered by some partners can be evaluated.

Once the inventory phase has been completed, your **migration team** including both **technical and business stakeholders** will need to select the best cloud **migration strategy** for each application based on its requirements and migration objectives.
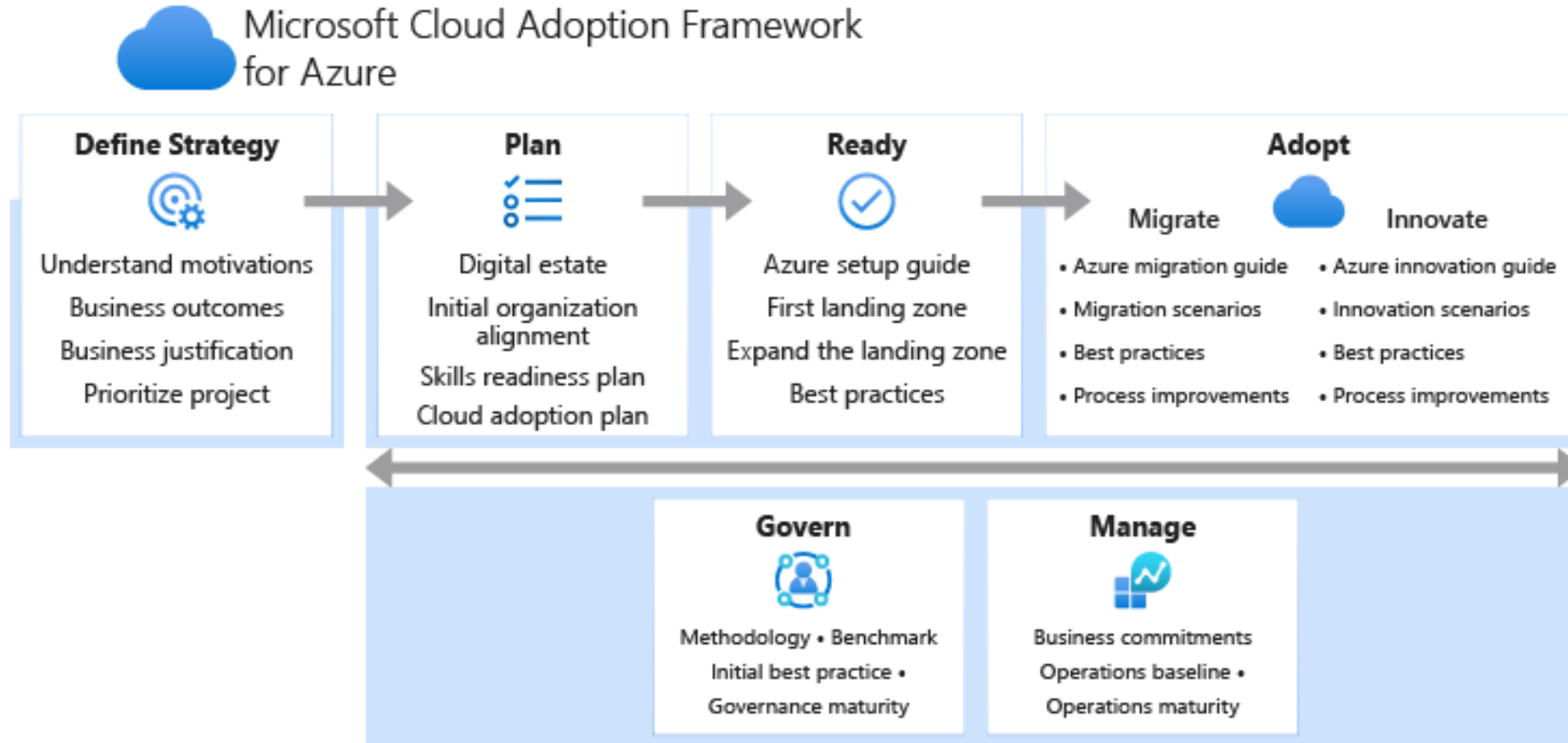
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Define a strategy (including business goals)

When looking at a cloud migration, there are four widely-adopted strategies: **Rehost, Refactor, Rearchitect, or Rebuild**. Each of these strategies can be leveraged by organizations depending on their business drivers and goals for moving to the cloud.

Rehost
- Redeploy as-is to cloud
- "Lift & Shift"
- IaaS

Refactor
- Minimally alter to take better advantage of cloud
- PaaS
- Containers
- DevOps

Rearchitect
- Materially alter/decompose application to services
- PaaS
- Micro-services
- Serverless
- DevOps

Rebuild
- New code written with cloud native approach
- PaaS
- Micro-services
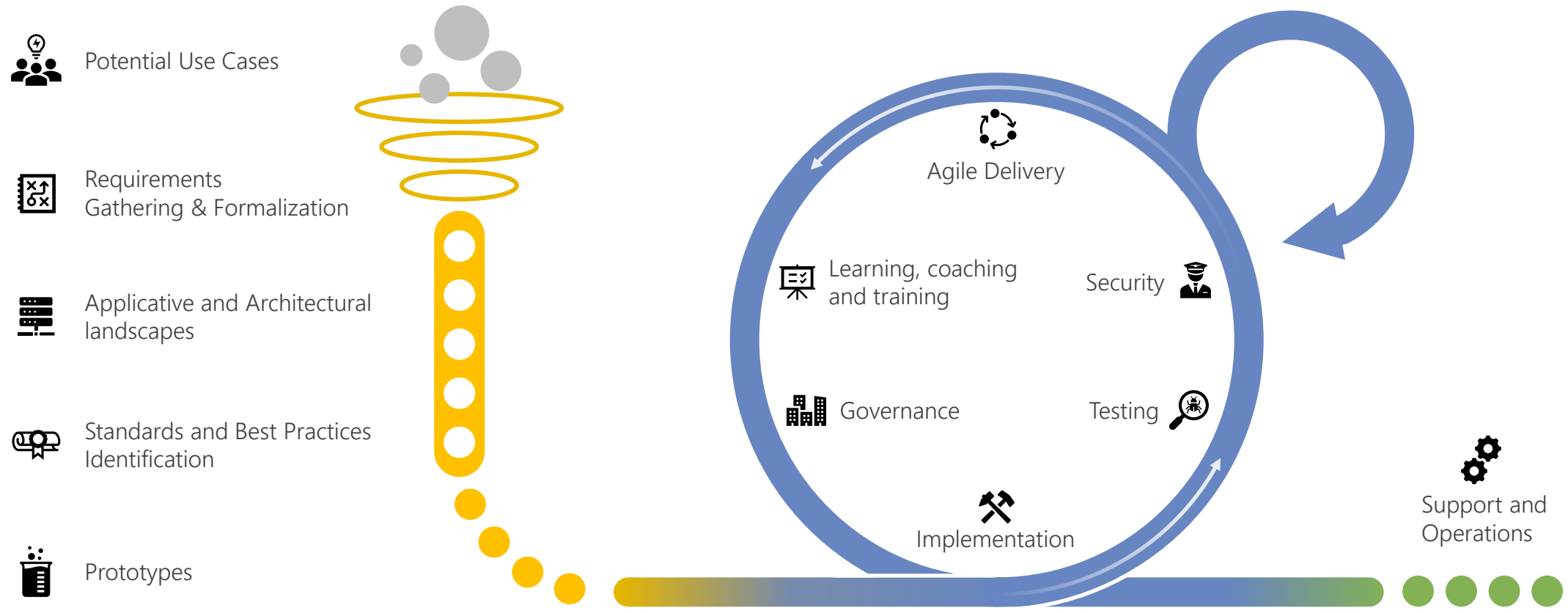- Serverless
- DevOps

There should then be **an evaluation phase of the applications** to ensure that each will in fact run in the cloud. Once you have proven the technology, then you can move forward with a migration of the application.

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Methodology and tools

Microsoft Cloud Adoption Framework for Azure

Define Strategy
- Understand motivations
- Business outcomes
- Business justification
- Prioritize project

Plan
- Digital estate
- Initial organization alignment
- Skills readiness plan
- Cloud adoption plan

Ready
- Azure setup guide
- First landing zone
- Expand the landing zone
- Best practices

Adopt

Migrate
- Azure migration guide
- Migration scenarios
- Best practices
- Process improvements

Innovate
- Azure innovation guide
- Innovation scenarios
- Best practices
- Process improvements

Govern
- Methodology • Benchmark
- Initial best practice •
- Governance maturity

Manage
- Business commitments
- Operations baseline •
- Operations maturity

The **Cloud Adoption Framework** provides tools and guidance for implementing not only **cloud** technologies, but also business, people and process changes, to **adopt Azure** with confidence and control.

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Application Modernization – Operational Model

Potential Use Cases

Requirements Gathering & Formalization

Applicative and Architectural landscapes

Standards and Best Practices Identification

Prototypes

Agile Delivery

Learning, coaching and training

Security

Governance

Testing

Implementation

Support and Operations

**Resources Involved
(NTT DATA / Customer)**

| Scrum Master | PM / Business Lead | Business Analyst | Solution Architect | Technical Leader | Cloud Developer | UX Specialist | Security Engineer | DevOps Engineer |