# Adatis Framework for Cloud Application Integration and Data Migration

## Accelerate your integration and migration projects with our multi-purpose framework

For many organisations, digital transformation means doing more in the cloud. IT teams are frequently called upon to implement new, cloud-based applications, as well as move existing applications to the cloud. Data transformation is a key component of both types of project:

- **Application integration:** Data from new cloud applications must be integrated with existing applications, to support end-to-end business processes and to enable timely availability of data

- **Data migration:** Data from legacy, on-premises applications must be moved over to the new target system in the cloud environment, often in very large volumes.

The ability to deliver integration and migration projects swiftly is becoming increasingly important as organisations look to the cloud to deliver strategic advantage.

Yet for IT teams, these projects come with significant challenges. While application integration projects are frequent occurrences, no two projects are ever the same —so it's often a case of reinventing the wheel each time, which ties up time, budget and resource.

Data migrations, meanwhile, are infrequent but labour-intensive projects that are usually delivered over a short timescale, often exceeding internal resource capacity.

### Deliver projects faster with the Adatis Framework

Mindful of these issues, Adatis has developed a single, multi-purpose technical framework and reference architecture to help you deliver integration and migration projects faster. Implemented for you by Adatis consultants, it allows you to significantly shorten project timescales and free up more time and resource for other urgent projects. Adatis can also take care of the on-going support of application integration solutions, with a seamless transition to a specialist Managed Service.

Microsoft Partner | Gold Cloud Platform
Gold Data Analytics
Gold Data Platform
Gold DevOps
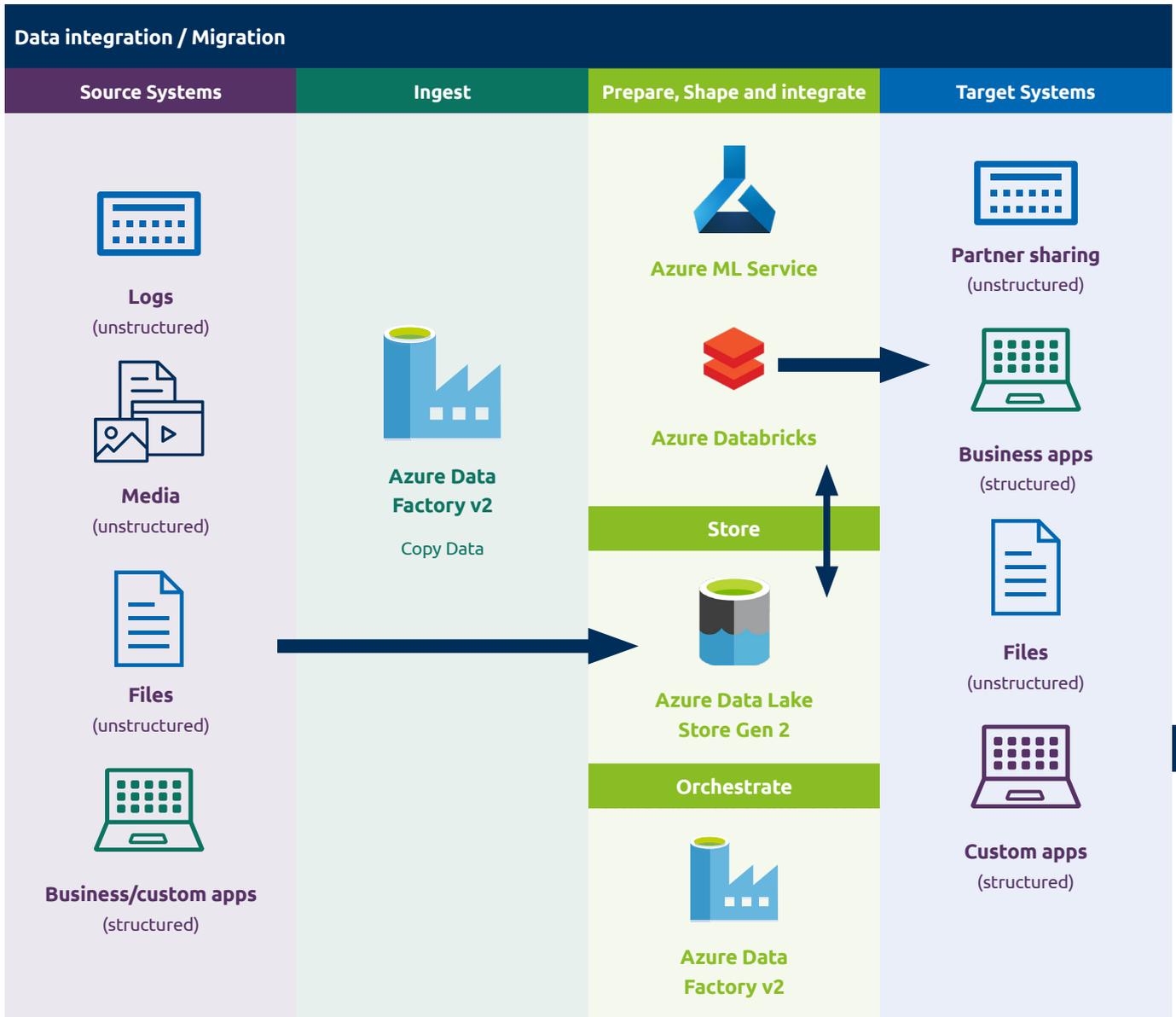Gold Datacenter

■ Microsoft

## Applicable projects

The framework can slash the time and cost of integration and migration projects in many scenarios:

- Consolidating a large application portfolio

- Integrating back-end systems with new applications

- Replacing a legacy system – on-premises or in the cloud

- Running a legacy application in parallel with a new solution

- Bringing together multiple infrastructures after mergers and acquisitions

- Starting a new ecosystem from scratch after a demerger

## How it works

The Adatis framework lets you perform data migration and application integration projects without having to develop multiple solutions or implement two sets of transformation logic.

Taking feeds from multiple source systems, it provides a technical framework and reference architecture for ingesting, preparing, shaping, integrating, and storing the data in a data lake, before orchestrating its integration with or migration to target systems (see diagram).

Data integration / Migration

| Source Systems | Ingest | Prepare, Shape and integrate | Target Systems |

- Logs (unstructured)
- Media (unstructured)
- Files (unstructured)
- Business/custom apps (structured)

Azure Data Factory v2 — Copy Data

Azure ML Service

Azure Databricks

Store — Azure Data Lake Store Gen 2

Orchestrate — Azure Data Factory v2

- Partner sharing (unstructured)
- Business apps (structured)
- Files (unstructured)
- Custom apps (structured)

Specific functionality includes:

- **Data cleansing:** A data cleansing framework that allows data quality and data cleansing rules to be configured and run in an automated fashion.

- **Lineage:** Tracks the lineage of data from source system through to the final destination to support issue management and data compliance.

- **Error handling:** Allows visibility and verbose error recording to assist with rapid issue resolution.

- **Logging:** Logs all activity in the system to assist with support & maintenance and proactively manage the entire process.

- **Process automation:** Provides automated management of the entire solution to aid deployment, support & maintenance.

- **Code generation:** Provides the capability to generate code from meta-data to automate aspects of the ingestion and transformation process. Speeds up development and significantly reduces the impact of change.

## Why use the Adatis Framework?

The Adatis framework brings many benefits to your team and your projects:

- **Proven:** We've built and refined the framework over years of working with companies on their transformation initiatives.

- **Multi-purpose:** Whether it's for point-to-point applications or two-way integration, our framework can help you migrate and integrate your data and systems with ease. It brings expertise and scale to any project, from one-time migrations to ongoing integration work.

- **Time-saving:** By offering a single reference architecture for application integration and data migration, it means you don't have to create your own architecture for either type of project.

- **Cost-effective:** Rather than building out dedicated internal capability that's too expensive, resource-heavy and specialised to keep at scale long-term, our support adds instant extra resource to your team, exactly when you need it. That way, you always have the right level of capability for the project, without worrying about under- or over-provisioning.

- **Fast:** The framework acts as an accelerator, using automation and tried-and-tested units of code to complete data ingestion and processing with less manual effort – so it's faster and more cost-effective.

- **Unified:** Adatis utilise the same framework for application integration & data migration as they do for building data platforms & warehouses. Utilising a single, unified framework reduces total cost of ownership, reduces the breadth of technologies and the related skills required and improves ease of maintenance.

- **Supportable:** The stability and reusability provided by the framework with its years of refinement, deliver a solution that is inherently supportable, whether operated internally or by our own specialist Managed Services team.

**Adatis offer professional services specialising in data analytics, from data management strategy and consultancy through to world class delivery and managed services.**

With offices In London, Farnham and Sofia we have been delivering innovative and successful solutions for clients since 2006.

Data Science

Data as a Service

Modern Data Warehouse

Data Architecture

Data Analytics

Data Strategy

## We love helping people unlock the power and value of their data.

Adatis offer a targeted exercise to accelerate your journey to the Modern Analytics Platform. If you are interested in finding out more about the Adatis framework, please contact the Analytics Team on **+44 (0)1252 267 777** or via email at **enquiries@adatis.co.uk**

Additionally, check out our blogs at **http://blogs.adatis.co.uk** or come and see us at numerous global conferences and speaking events.

**adatis**

**Framework for Cloud Application and Data Migration | adatis.co.uk**