VIEW POINT



AN INTRODUCTION TO DIGITAL BACKBONE



Understanding Digital Backbone

Digital Backbone provides companies the right construct to disrupt traditional IT architecture, enabling them to differentiate and innovate at scale. Simply put, Digital Backbone is the central nervous system that enables digital transformation at scale.

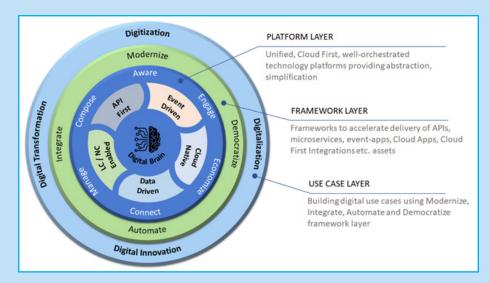


Figure 2 Digital Backbone Building Blocks - Organized for abstraction, composition, efficiency and value delivery

The Platform layer in any Digital Backbone is the core that provides the necessary software infrastructure required for digital transformation. The Digital Backbone core must possess six key components:

- API first mindset and event driven approach – these together create the required API and event mesh for making digital transformation composable and ensures reuse at scale
- Data driven any digital transformation requires data to be made freely available from legacy applications
- Cloud native approach an architectural approach that is key to creating a web scale architecture for digital transformation. It enables organizations to capitalize on innovation from the hyperscaler at scale
- 4. LC/NC enabled development it is key to a model driven approach for building digital assets on a greenfield or brownfield setup
- 5. Digital brain enables the Digital Backbone to become autonomous

The Platform layer brings together a set of digital technologies and integrates them utilizing architectural best practices, which enables organizations to have the following digital characteristics

Core Characteristics	Key Attributes
Connect - Enable connected ecosystem integrating internal and external processes, applications, and partners anywhere	
	API and Event Driven
	Pattern based integration
Manage - Manages/Orchestrate customer journeys, Processes, APIs, Events, Partner, and business capabilities	Knowledge Graph
	Process reimagining
	Design to Evolve
	API and Event as a product
Compose – Enable composition of digital apps (Process Apps, Engagement Apps and Data Apps) using cloud native, API driven, Data Mesh and LCNC	Loosely coupled platforms
	Design to Evolve
	Composable digital assets
Engage - Enable seamless interactions to drive superlative experience with customers, employees, partners, Business, and IT support teams	Sense-Process-Respond
	Process reimagining
	Sentient Principles
	Unbundle to Re-bundle
	Human + Machine teams
	Design to Evolve
Engage - Enable seamless interactions	Hyper productive Collaborative Team
to drive superlative experience with	Anytime anywhere
customers, employees, partners, Business, and IT support teams	
Economize - Increase Speed, Scale and Reliability to drive economy at scale, monetization, and business value	Computational Design
	Bulkhead
	Backpressure
	Graceful degradation
	Agility and Speed
	Rapid Experiment

The Framework layer is a set of four key broad level patterns and approaches that drive digital transformation.

- Modernize Framework enables organizations to modernize - how existing applications communicate or expose data or functionalities or the entire application by utilizing cloud ecosystems. This framework layer typically covers
 - Decoupling legacy and digital

 Digital Backbone enables the decoupling between legacy and digital layers.

Digital Backbone in action

Learn how Infosys, with its Digital Backbone, helped a large UK telco firm increase digital sales by 40% and NPS by 30%.

 Modernizing the core – Digital Backbone enables a wrap and renew strategy for the core.

Digital Backbone in action

With Digital Backbone, Infosys made it possible for a major European bank to launch new products 30% faster - get more details

- Integrate Framework This facilitates
 the integration of the ecosystems of
 applications, services, and data, helping
 the organization keep pace with the
 changes. As cloud adoption increases,
 this Framework is crucial to expose and
 integrate functionality and data.
 - API and Event Ecosystems Digital Backbone provides the marketplace for APIs and Events to create a composable enterprise.

Digital Backbone in action

Infosys enhanced the time to market by 30% for a large pharma company through reusable digital assets. Learn more.

 Integrating the ecosystem – Providing seamless integration across cloud and the on premise landscape is a critical capability of Digital Backbone.

Digital Backbone in action

A large North American manufacturer improved time to market by 30% using a reusable framework from Infosys' Digital Backbone.

- Automate Framework As applications continue to expose APIs and Events, this layer enables organizations to automate their processes and engagements to achieve more and more STP and reduce manual intervention.
 - Integrate and automate process
 ecosystem where cloud apps
 ecosystem is integrated from an
 end-to-end process context –
 Digital Backbone provides a unique
 way to integrate cloud apps into a
 process construct.

Digital Backbone in action

A large CPG company utilized the Digital Backbone to automate its entire order-to-cash process. Learn more.

 Building a sentient enterprise – The Digital Backbone with events and a sentient layer supports the creation of a sentient enterprise.

Digital Backbone in action

Read how Infosys increased business responsiveness by 25% for a global cosmetic company by utilizing a sentient layer.

 Reimagining processes – Digital Backbone enables end-to-end process management by increasing visibility and control.

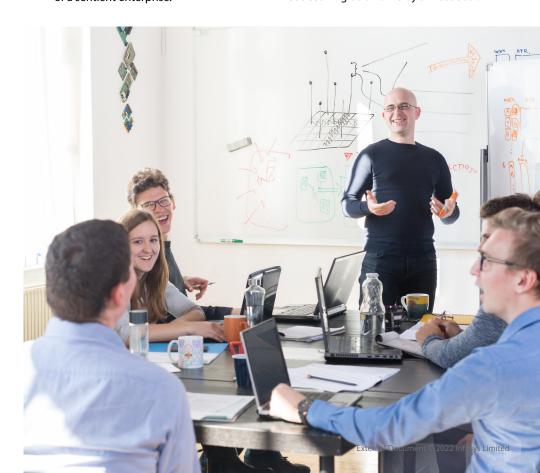
Digital Backbone in action

Infosys' Digital Backbone drastically reduced the time to open an account and provide credit from 14 days to under 30 minutes at a large bank. Learn more.

- Democratize Framework A seamless access to data and services across the organization is made possible with this Framework.
 - Simplifying cloud adoption Digital Backbone provides the right construct to create an application mesh ecosystem in a cloud-based setup.

Digital Backbone in action

Find out how a US regional bank reduced migration time by almost 50%.





For more information, contact askus@infosys.com



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