



FINCONS FAST DATA LAKE

A performance booster for your digital front end applications



Today's consumers expect to interact with their bank across multiple channels and touchpoints, as well as to access information seamlessly through apps, online portals or telephone banking to check account balance and transactions. This huge amount of services provided to more and more users inside and outside the organization requires significant changes in data management in order to face these volumes, 24/7 access and peaks of requests.

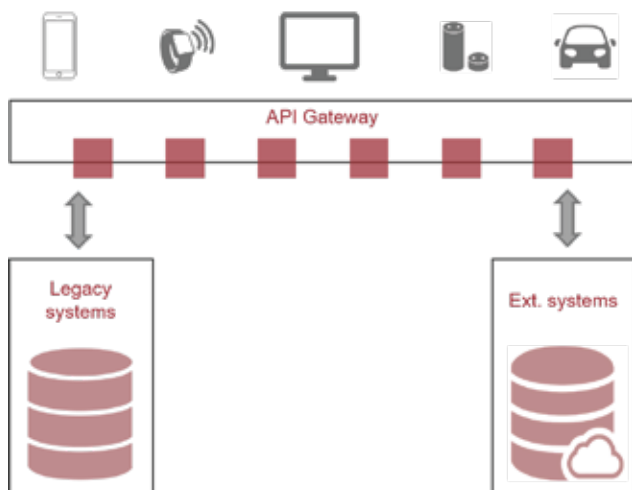
Fincons Fast Data Lake is a new solution representing a best practice of the Digital Integration Hub design path, enabling to implement Open Banking overcoming limitations and constraints of legacy systems.

It has been developed leveraging the Fincons' experience and investments in the scouting of market components, and subsequent testing with a Hands-On Lab Program. The solution provides the opportunity to build APIs reading data from a High-Performance Data Store, fed in near-real-time by legacy systems using a single highly engineered procedure which enables a very low time to market while requiring low maintenance costs.

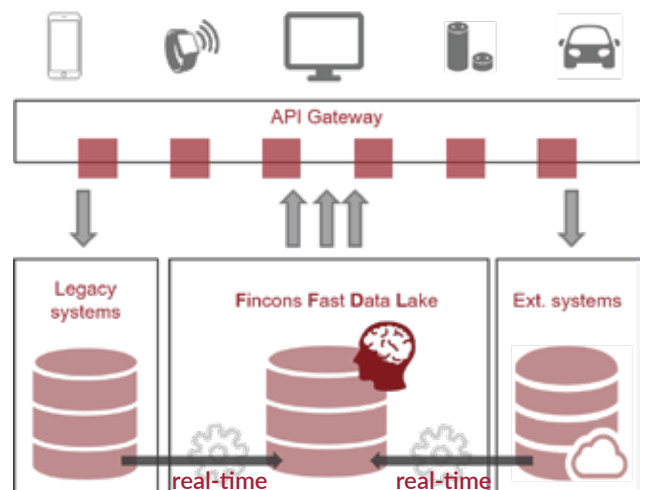
Combined with the well-known front-end technologies such as single page web applications, HTML5, CSS3, Angular, React and PWA, the Fast Data Lake enables organizations to win the challenge of creating intuitive and engaging experiences to their users, thus successfully embracing the Digital Transformation.

ARCHITECTURE

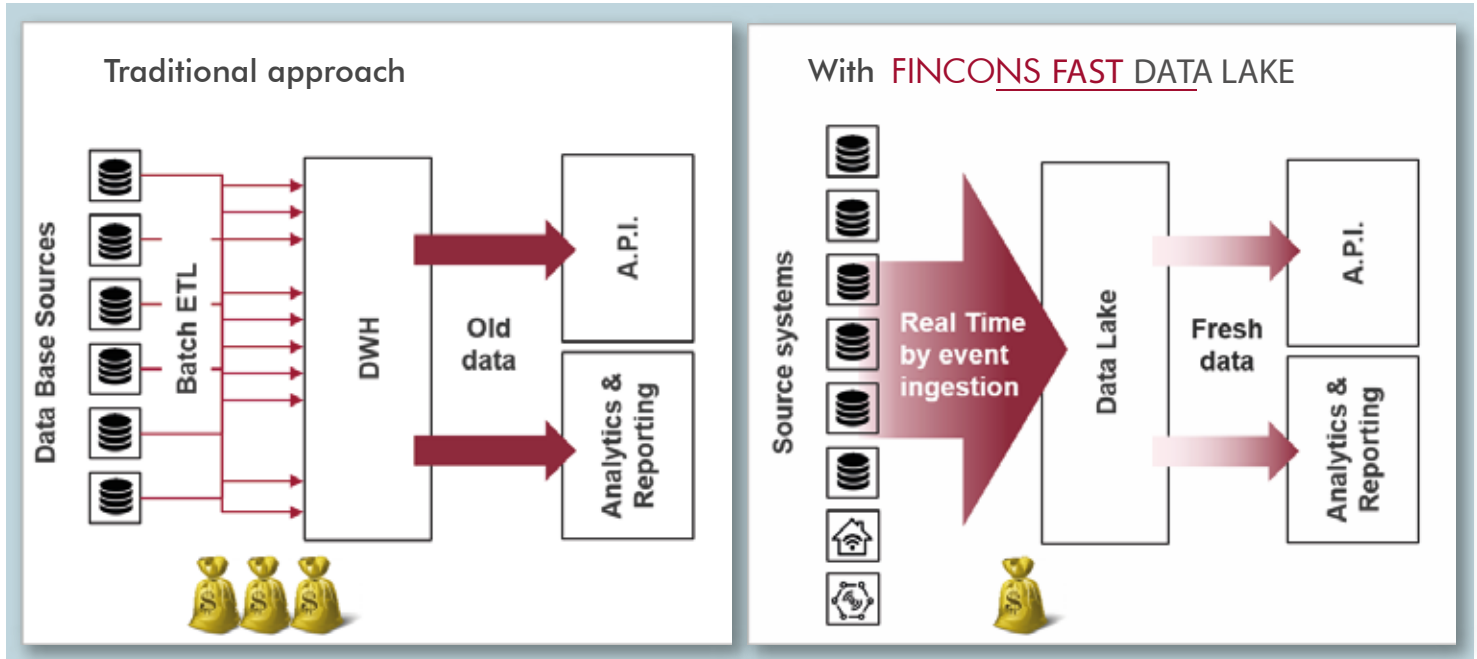
Traditional digital application architecture



FINCONS FAST DATA LAKE



THE NEW APPROACH

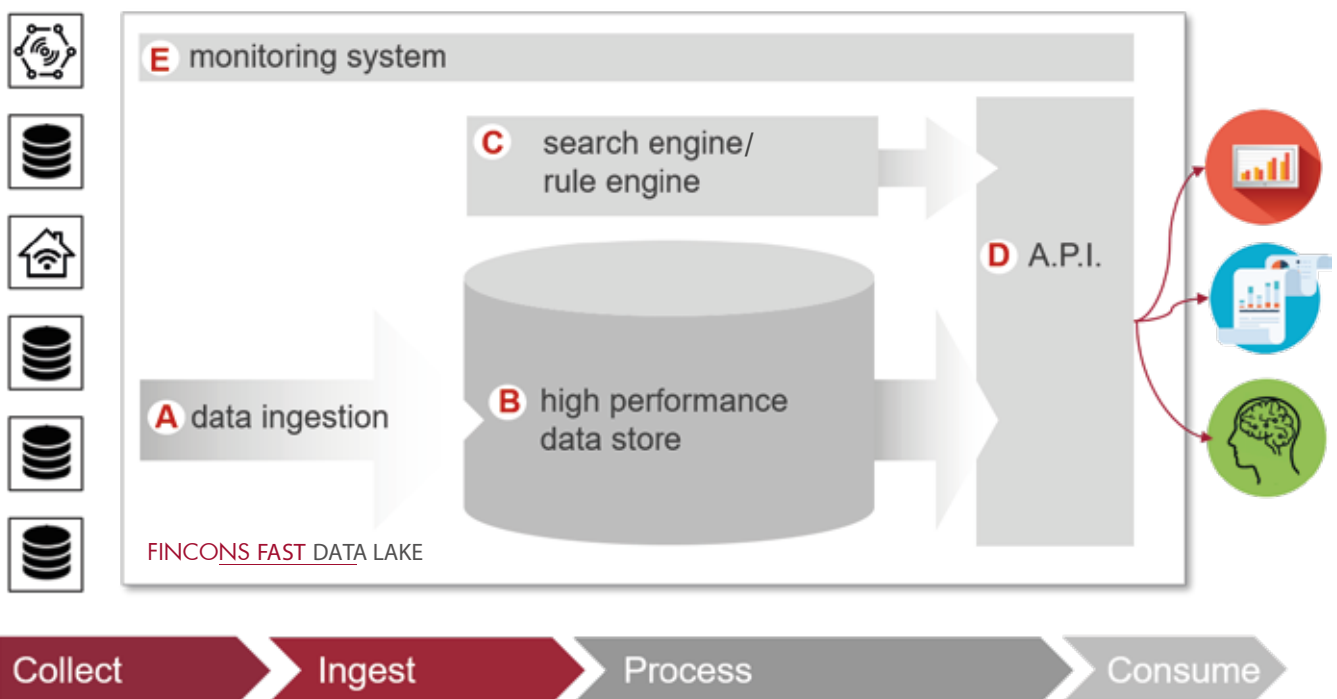


Fincons Fast Data Lake dramatically simplifies the model for feeding data from different sources into a High Performance Data Store, also enabling the adoption of new external sources (ie. social media data, IoT, open data).

Dozens and dozens of extractors and ETL procedures to feed the data warehouse are a thing of the past: the new solution provides a single highly engineered procedure capable of incorporating modifications to data and to data structure, in real time into the Data Lake.

The ability to easily define rules on data and to perform google-like searches completes the picture.

The architecture of the solution is composed of the following elements:



Fincons Fast Data Lake is built on standard appropriately integrated market components (in the Big Data field), it's cloud-ready, integrated and customizable. Fincons evaluated most of the technologies via in-lab trials and can assist with navigating this environment and with designing the solution using the best choice of options depending on the context.

SOLUTION BENEFITS



API PERFORMANCE OPTIMIZATION

As data can be denormalized consistently with data load, this computational load does not impact inquiry operations.



BACK END OFFLOAD

Computational power for inquiries is shifted from back end to the Data Lake platform, thus unloading legacy systems.



MANAGEMENT OF LOAD PEAKS

In case of peaks in inquiries, load is managed by the Data Lake platform with no impact on back end operations.



TCO OPTIMIZATION

No ETL development and maintenance costs, low and usage-based adoption costs.



ALWAYS ON

The solution works 24/7, thus overcoming the availability constraints of back ends.



GOOGLE-LIKE SEARCH

An intuitive feature very appreciated by users that can be easily added to front ends.

SOLUTION SPECIFICATIONS

Flexibility: single components can be selected to be tailored to the needs of each specific context; initial selection can be modified afterwards with minor impact

Low Impact: no impact either on performance or on source data structure

Real Time: with a single highly engineered procedure, data will flow from source to target with only a few milliseconds delay

Agnosticism: different ingestion sources, all touchpoints, volume, velocity & variety ready

Cloud Ready: the solution can be deployed on premise or in a proprietary or cloud environment

Low Initial and Running Costs: fast setup; maintenance and evolution is far less expensive than traditional ETL-based systems

ABOUT FINCONS GROUP

Fincons Group is an IT business consulting and system integration company, providing a broad range of services and solutions in strategy, consulting, digital, technology and operations to different industries: financial services, media, energy and utilities, transportation, manufacturing, public administration and international institutions. With more than 35 years of experience, Fincons Group has offices in Italy, Switzerland, UK, US, Germany and France.



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