API management & Product teams Leroy Merlin | Big Cloud Road Show

September 2019

API MANAGEMENT / MQ / ORCHESTRATOR / ESB / ETL

Vladimir Andreev Integration architect

Leroy Merlin Russia | DOMI | IT platform

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Leroy Merlin is biggest brand of Adeo Group



101 stores in Russia



4.5b€

34000 employers in Russia



Up to 60k items per store

dea

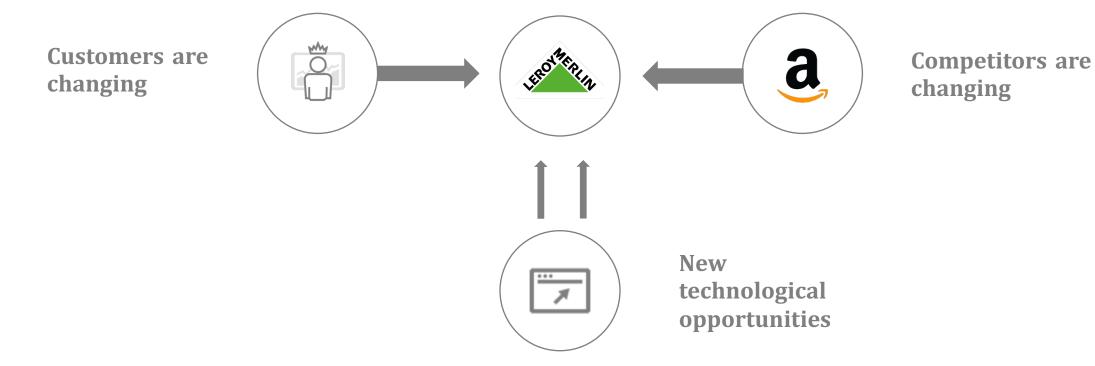
Vladimir Andreev Integration architect | **Exchange platform team**

Agenda

- Platforms & New reality •
- Product teams & new organization •
- API management strategy •
- Leroy Merlin way •
- Q&A •

World is changing





Strategy adoption

Multi Channel

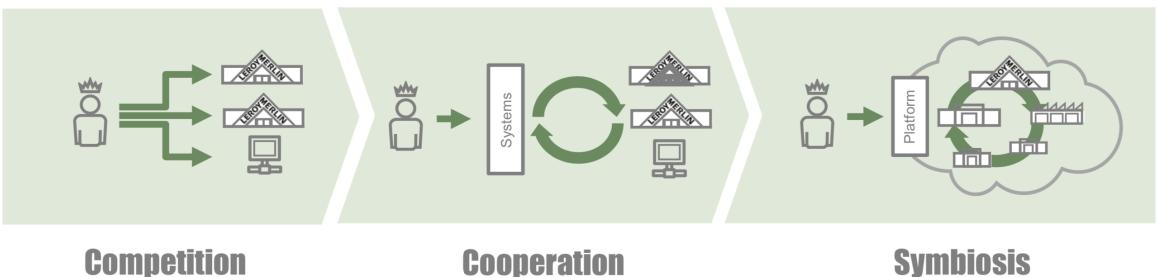
Historically we had separated channels ...

Omni Channel

We start to break the border between digital and physical - - -

Platform

We will break the border between companies and partners to serve the customer project with a our ecosystem



Each channels make business separately and are in competition to win the sale

Cooperation

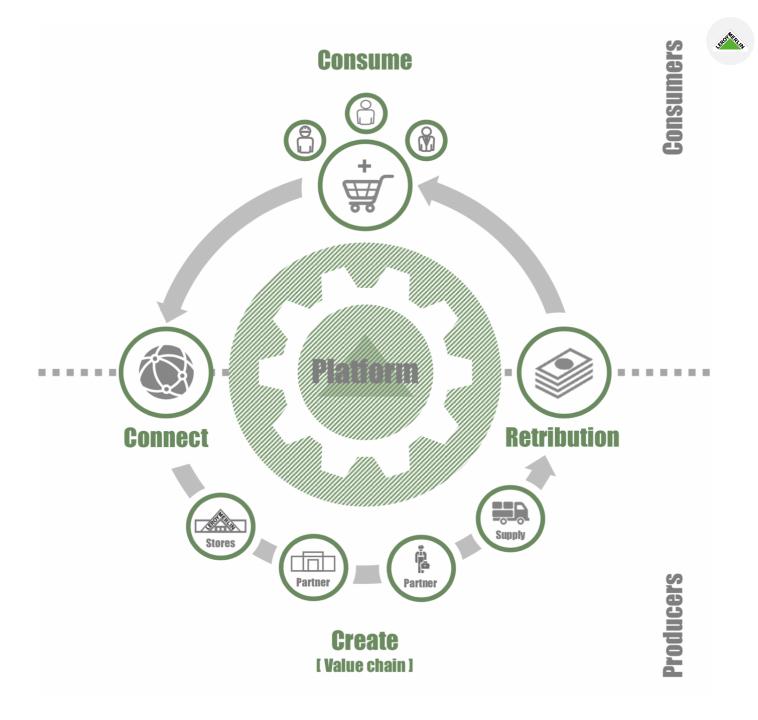
The channels are cooperating because the customer journey is transversal and we care that company win the sale

Symbiosis

The company serves the customer with its ecosystem of partners. The trade must be fair for both parts. If not the company is isolated

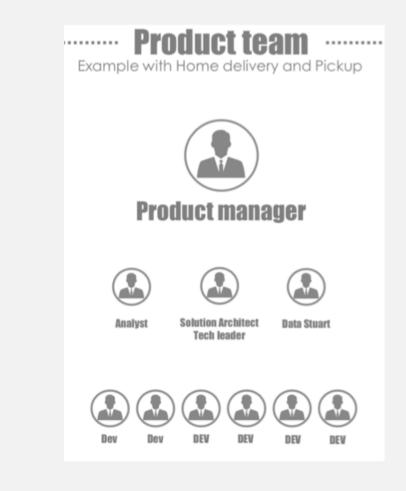
Platform business model

"We connect consumers to partners through our platform"



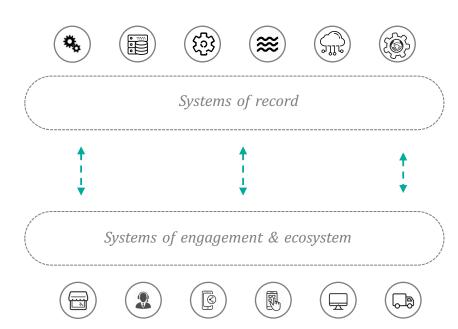
New organization rely on product teams structure

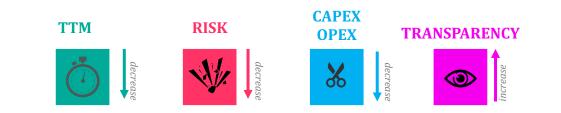




- Focus on particular area of **customer journey**
- Responsible for creating value for customers and business **KPIs**
- Responsible for both changes
- Business & IT
- Maintain developed functionality (you build it you run it)
- Support **modular** architecture (microservices, flexibility of development)
- The product should be built in a way that it could be **commercialized**

Business has strong expectations from IT in new context







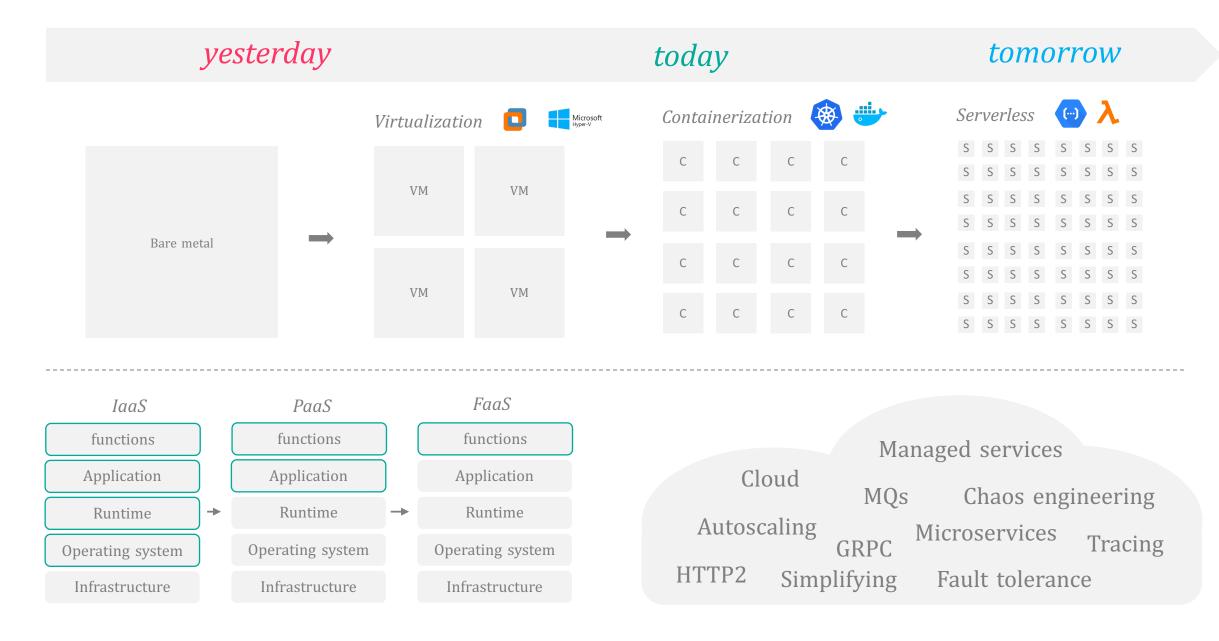


Small tech debt









A **platform** is a business model that allows multiple participants (producers and consumers) to connect to it, interact with one another, and create and exchange value.

分

An **ecosystem** is an interconnected set of services that allows users to fulfill a variety of needs in one integrated experience.

分

API economy were once largely limited to technical domains but have now become a significant engine of business growth. As the connective tissue linking ecosystems of technologies & organizations, APIs allow businesses to monetize data, forge profitable partnerships, and open new pathways for innovation and growth.

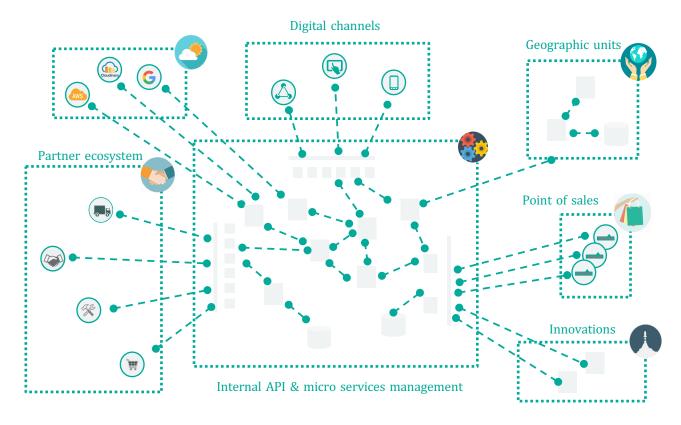
"Through 2020, integration will consume 60 percent of the time and cost of building a digital platform"

"Ecosystems will account for **30** percent of global revenues by 2025"

McKinsey

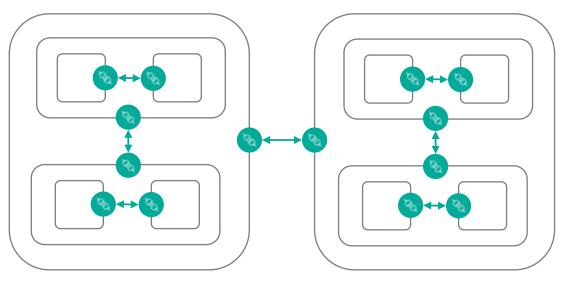
&Company

Gartner



APIs could be not only the interfaces to applications but to business functions as well

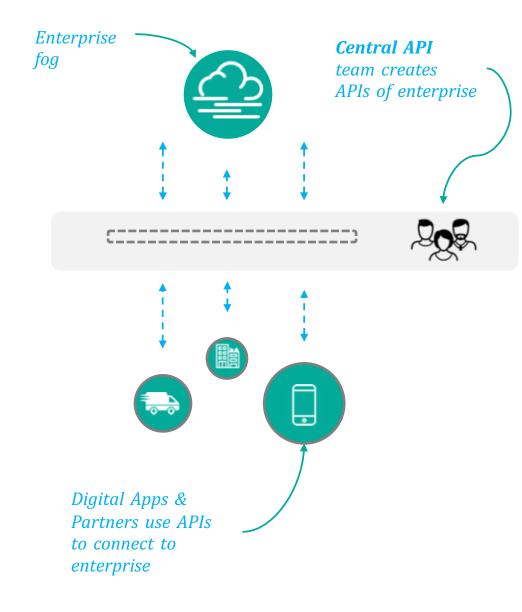








API_façade



API façade is not managing internal complexity Its used to exposed interfaces for Enterprise

THAN

LEBOYAMALIN

Central API team managing all the integration

PARTNERS (619 8 ENTERPRISE **'**ව APPLICATION -dataf

ESB trap

Business **logic** owned by single integration team is **not** always a **good** idea



Bottlenecks:

- Organization
- Communication
- Performance
- Release & Operations
- Physical

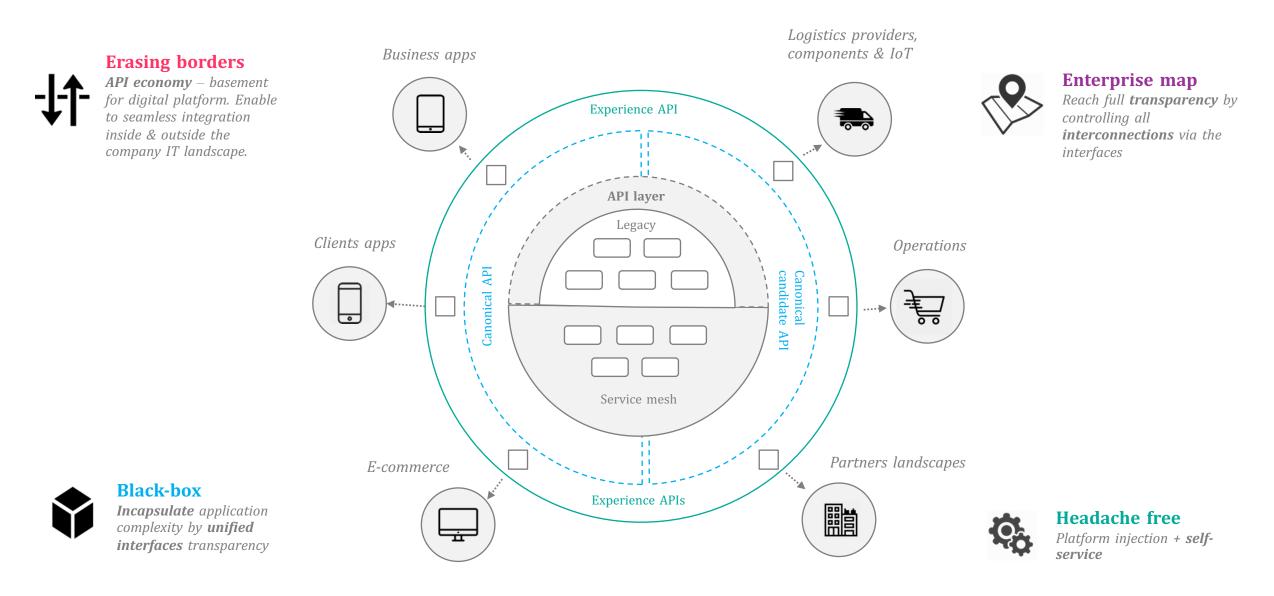
Centralization glue vs Chaos flexibility

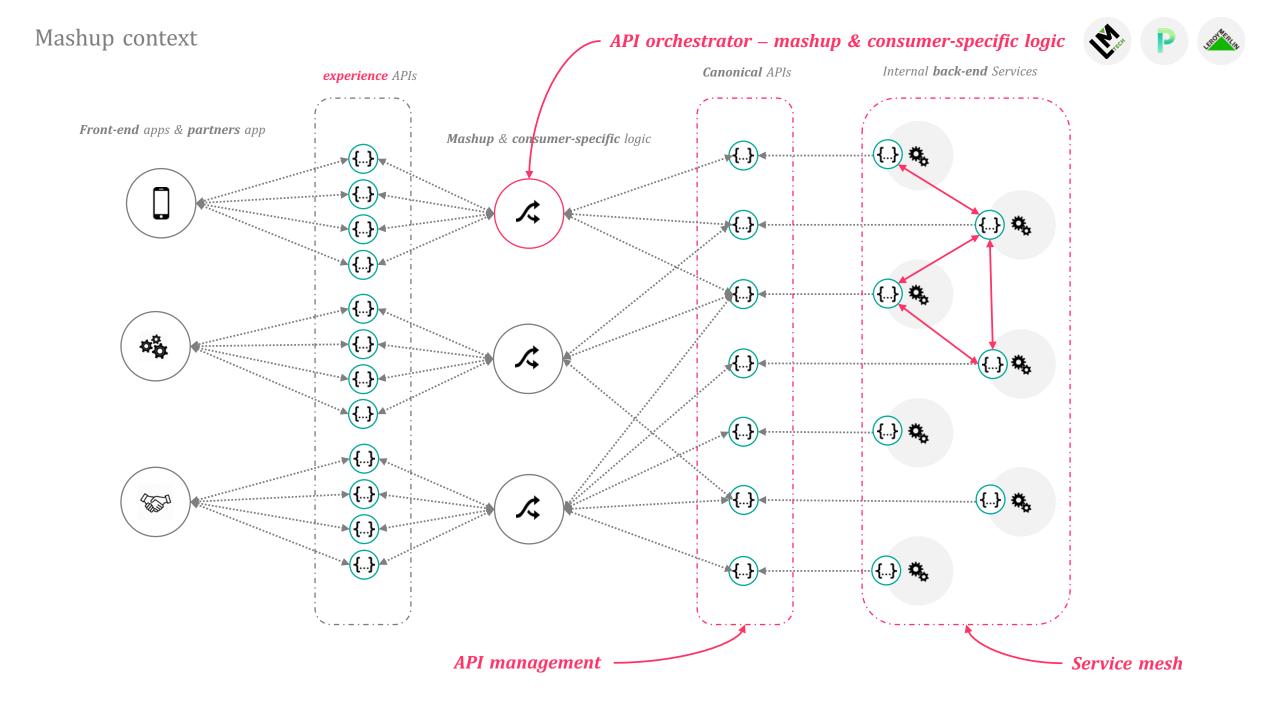
'Concrete integration' – everything is centralized, but its extremely hard to change anything

'Managed chaos'– Requires significant efforts & skills

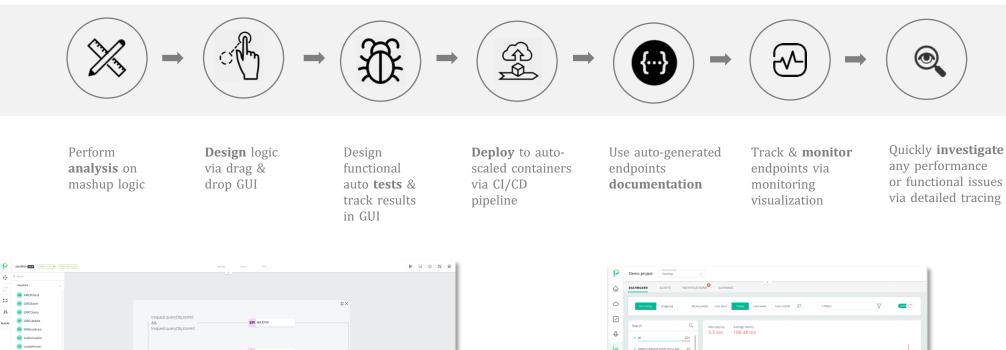
CONTEXT | Integration ecosystem principles

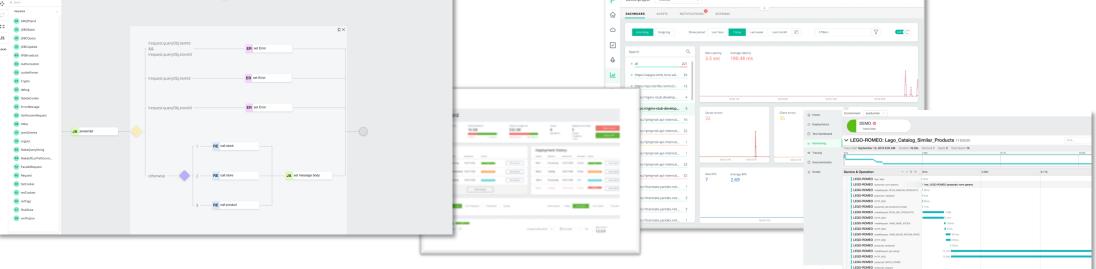






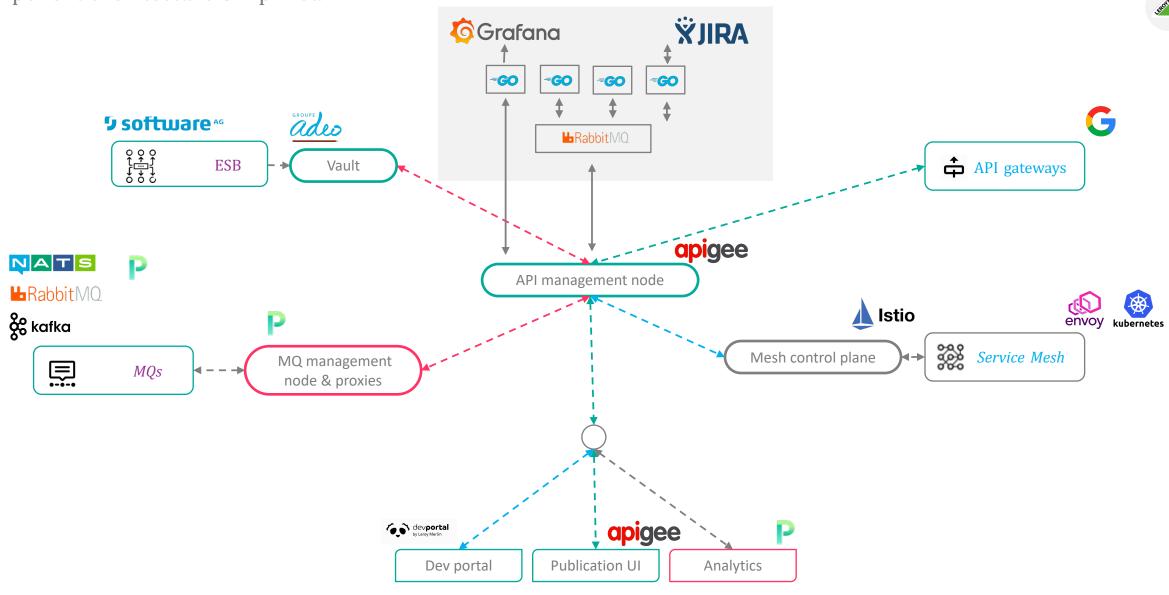








Customization





In case of any questions please do not hesitate to contact us:

Api-platform@leroymerlin.ru

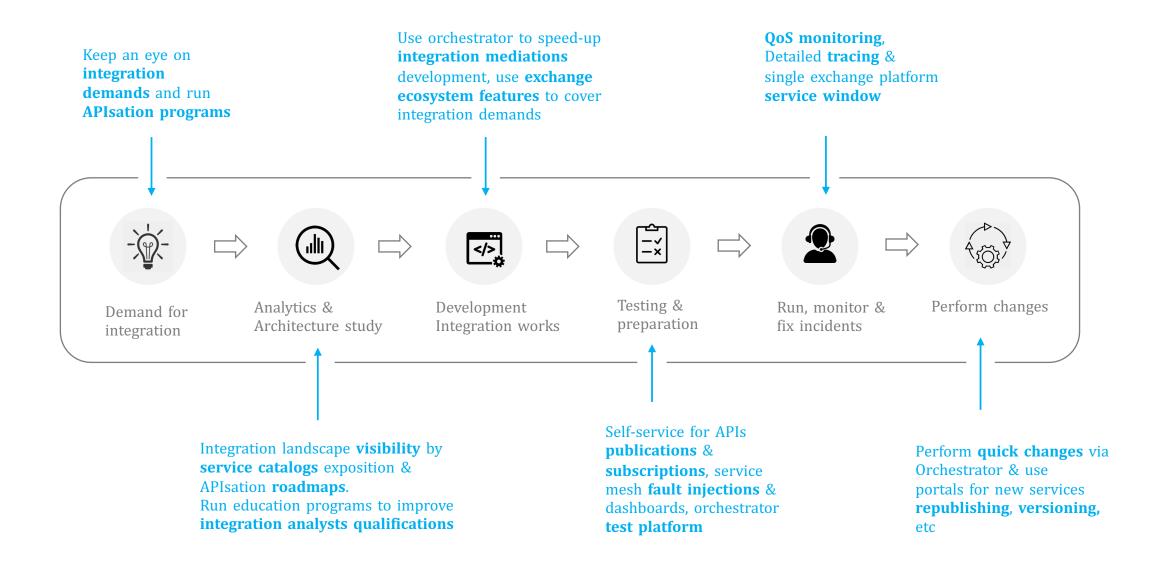
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appendix

Exchange platform value lifecycle





LMRU exchange platform components & principles



Platform core principles]



- **Interfaces democratization** all interfaces exposed by a systems should be exposed in standardized formats
- **Catalog transparency** all interfaces exposed by a systems should be visible in single catalog available for all the API users both potential & actual
- **€** ■

• **Usage transparency** – all systems which are consume interfaces should register the subscription and be tracked on the usage intensity.



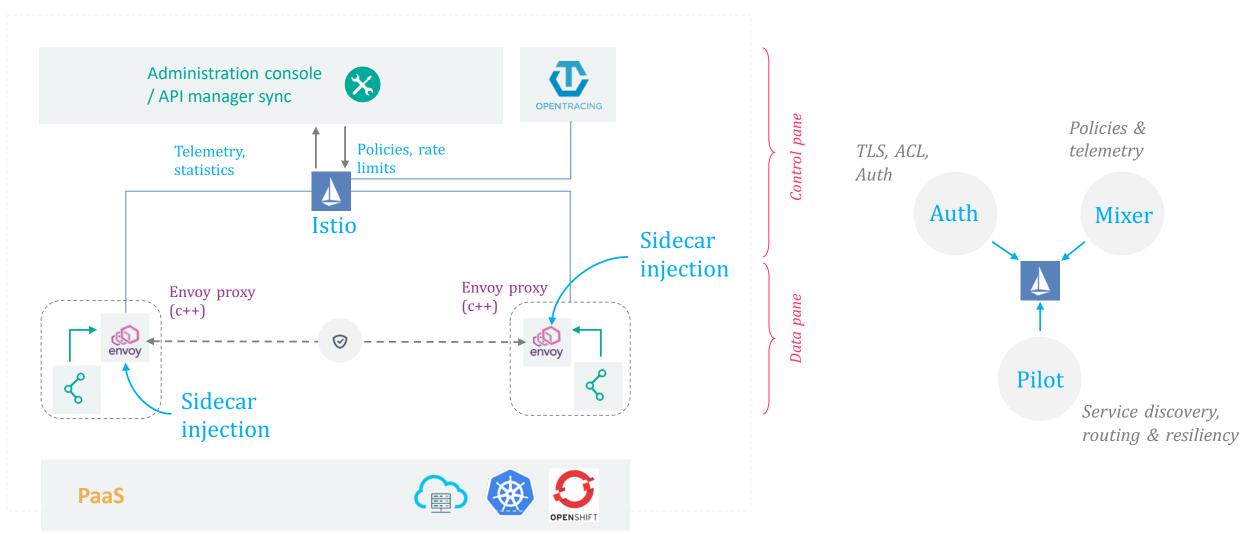
TET

- QoS visibility all the interconnections processed within the interfaces should be tracked in success rate, response time & intensity perspective. All the analytics should be available in interface, consumer & time perspective.
- **Self service** Provide powers & autonomy to product teams. Safety.



Service Mesh / Istio

Traffic management / Observability / Access control / Policy management / security for internal micro-services interaction / Fault injection



Service mesh – application network based on sidecar pattern, enforces the point to point managed communication between microservices running on PaaS platform.