

Liferay DXP, Decoupled platform

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Headless & API date



Content Management

Drag & Drop Fragments, WYSIWYG, Search, Localization, Versioning, Structures & Templates

Commerce

B2B/B2C, Calalog Management, Orders, Pricing & Discounts, Checkout, Payments, Taxes



Forms & Workflow Management

Visual Workflow Designer, Automated/Manual Workflow Tasks, Visual Form Builder, Form Validation & Rules Engine, Reusable Field Elements,

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Document Management

Checkout, Sharing, Taxonomy, Distributed Filesystems, WebDAV, Social Interaction

Collaboration

Wikis, Blogs, Message Boards, Knowledge Base, Calendar, Events, Private Messaging

Site Management

User Management, Sites/Organizations, SEO, Navigation, Site Templates, Page Templates 2

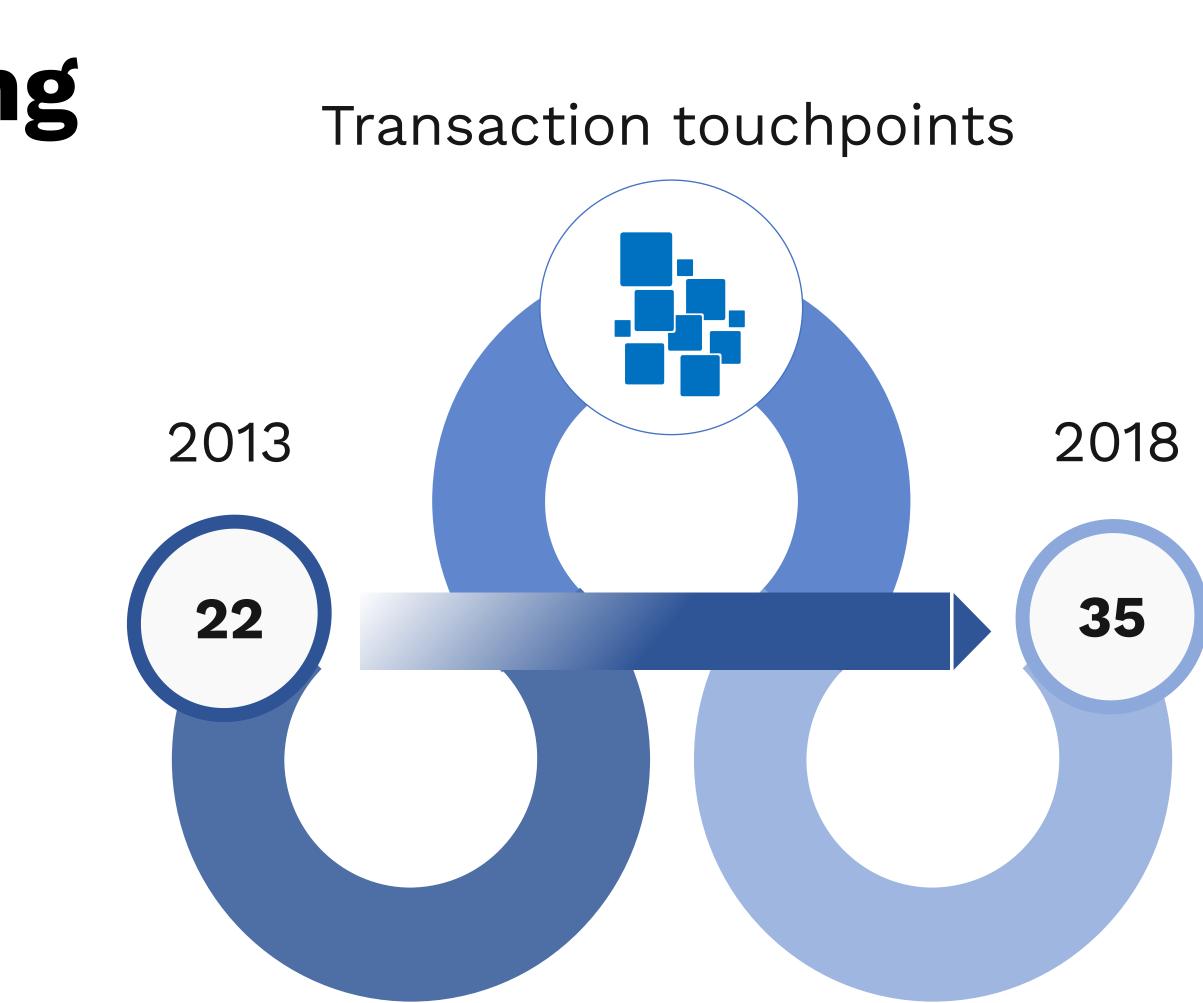




IT complexity is growing



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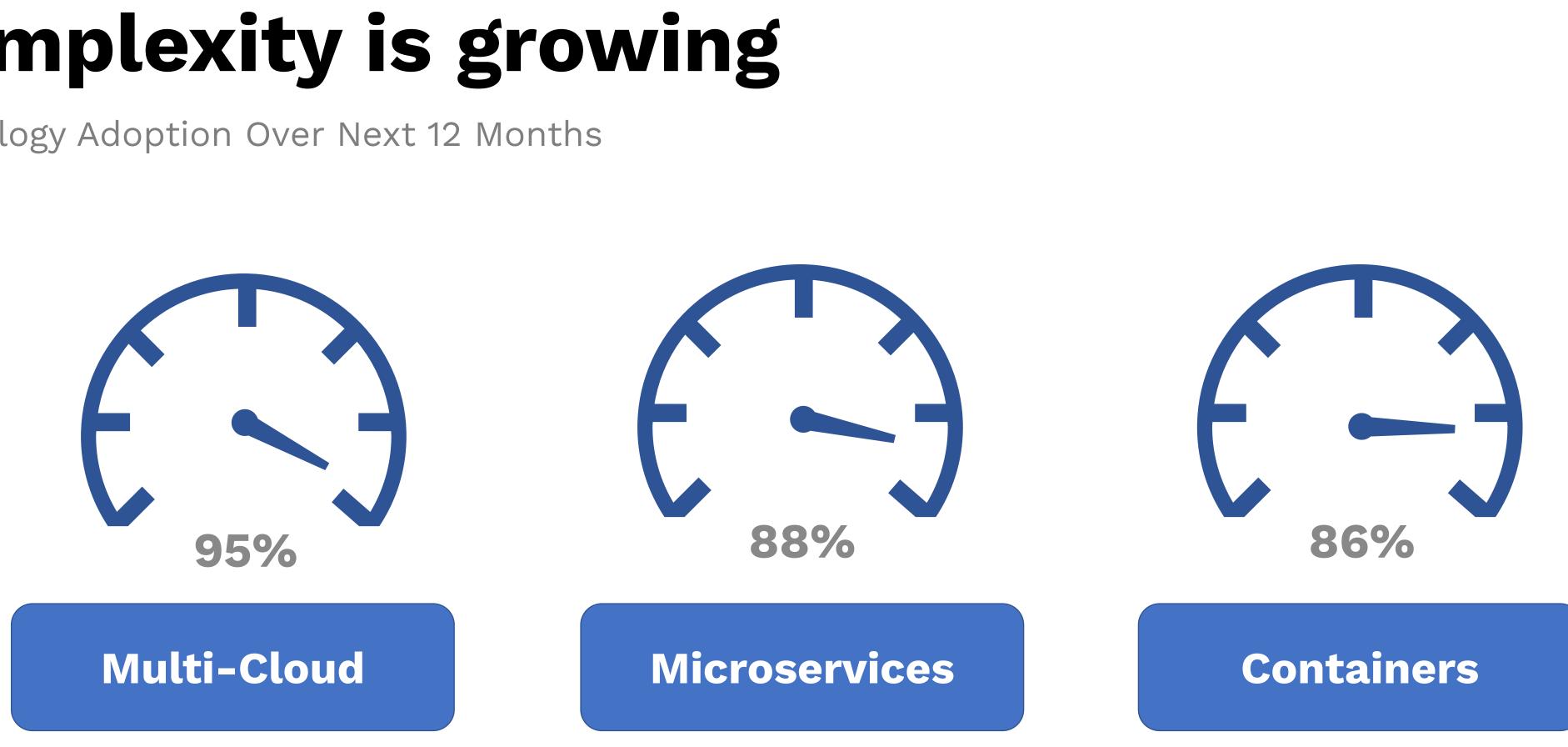
Source: <u>Vanson Bourne Research</u> (2018)

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IT complexity is growing

CIO Technology Adoption Over Next 12 Months



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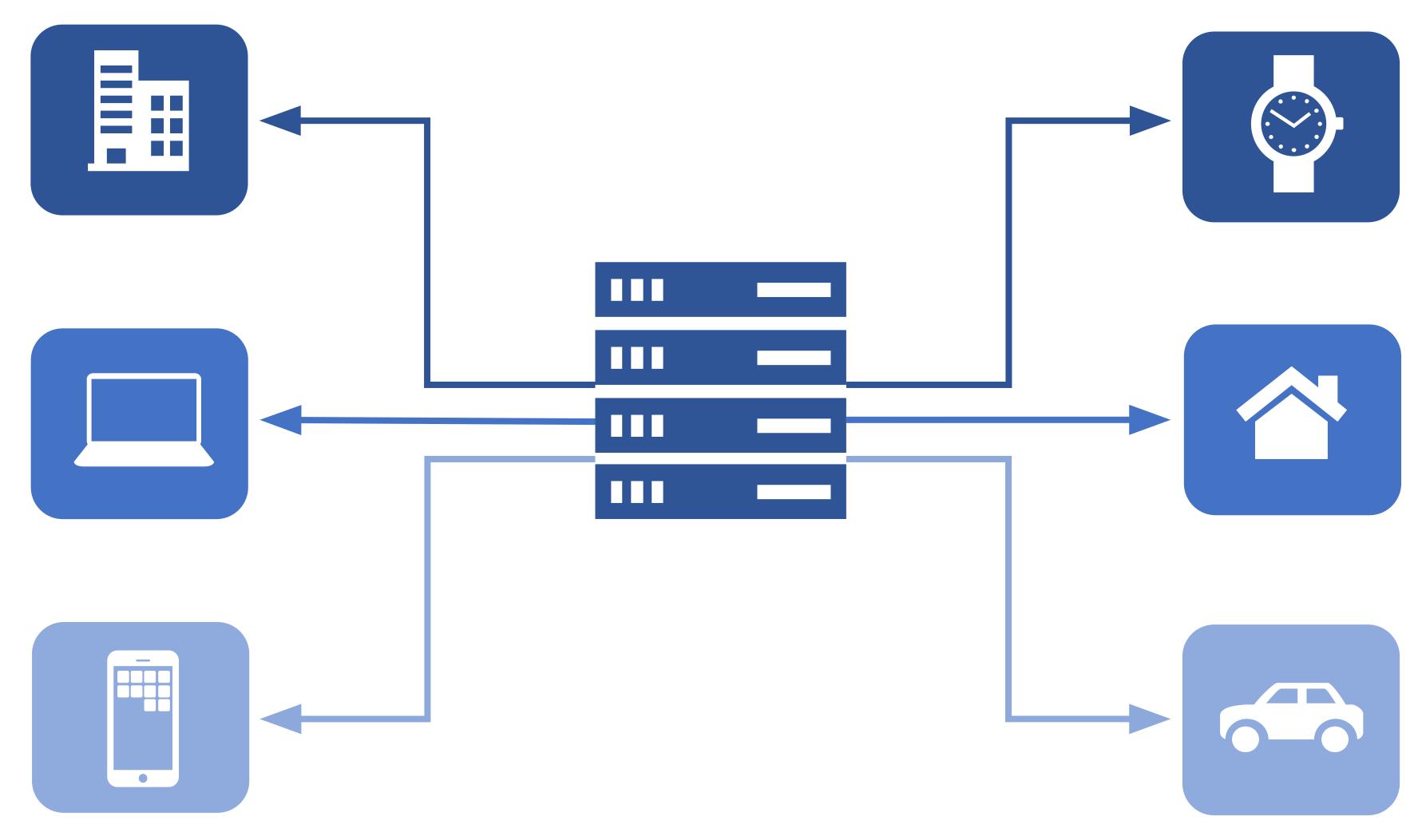
Source: <u>Vanson Bourne Research</u> (2018)







Multichannel



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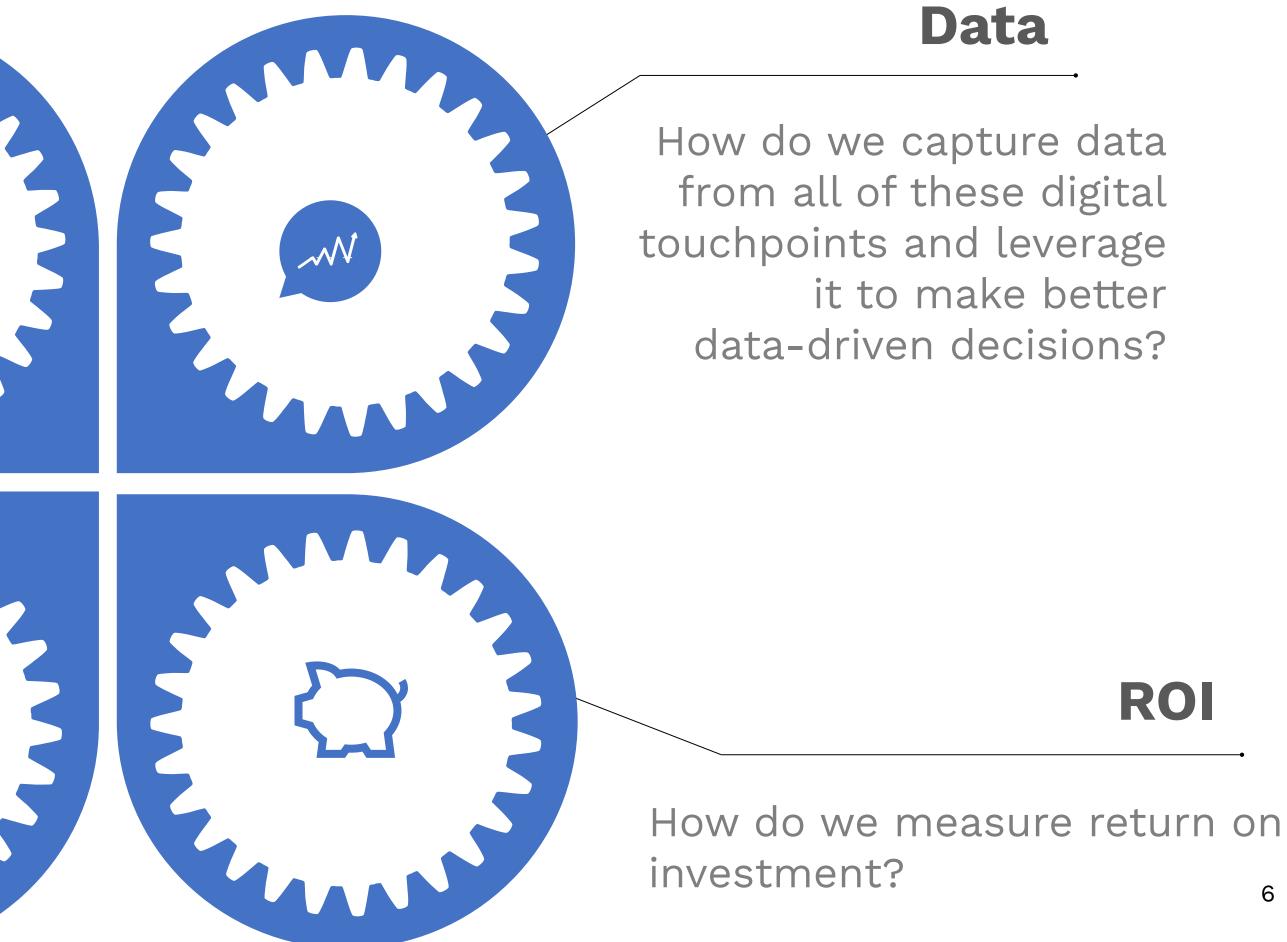
The Digital Transformation Dilema

Growth

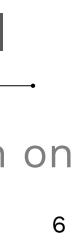
How do we use technology to drive growth and brand recognition?

User Experience

How do we create a cohesive, compelling experience?

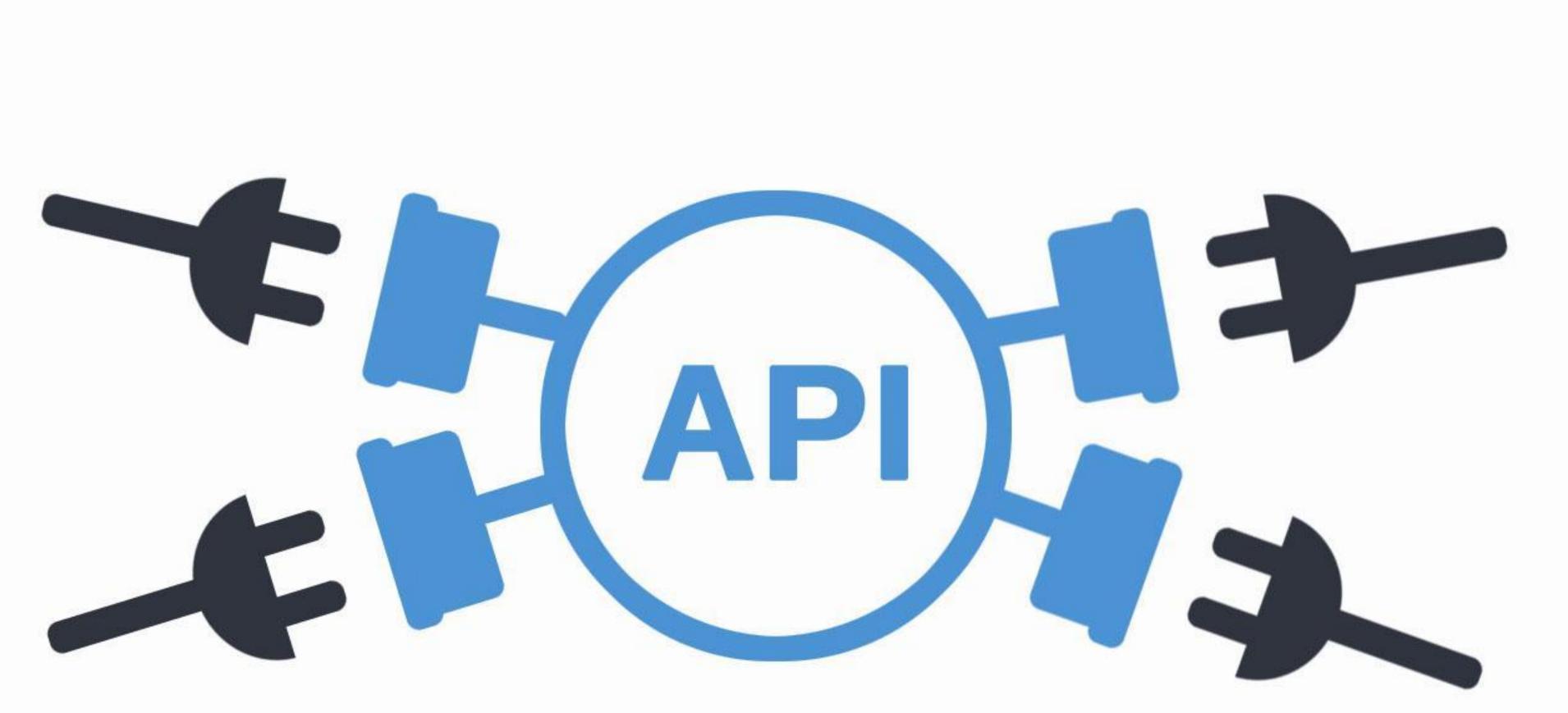








The answer

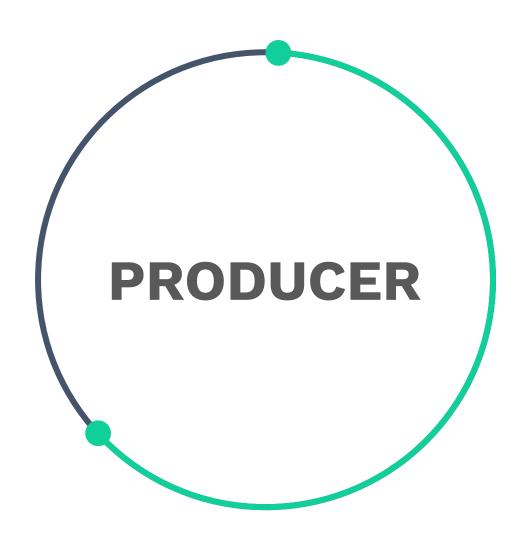




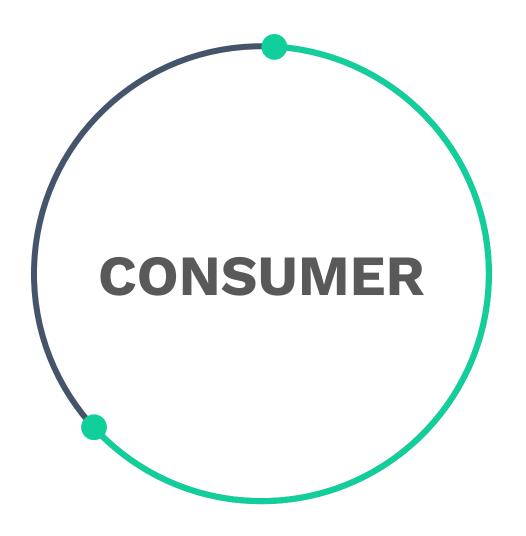




Which way will you use APIs?



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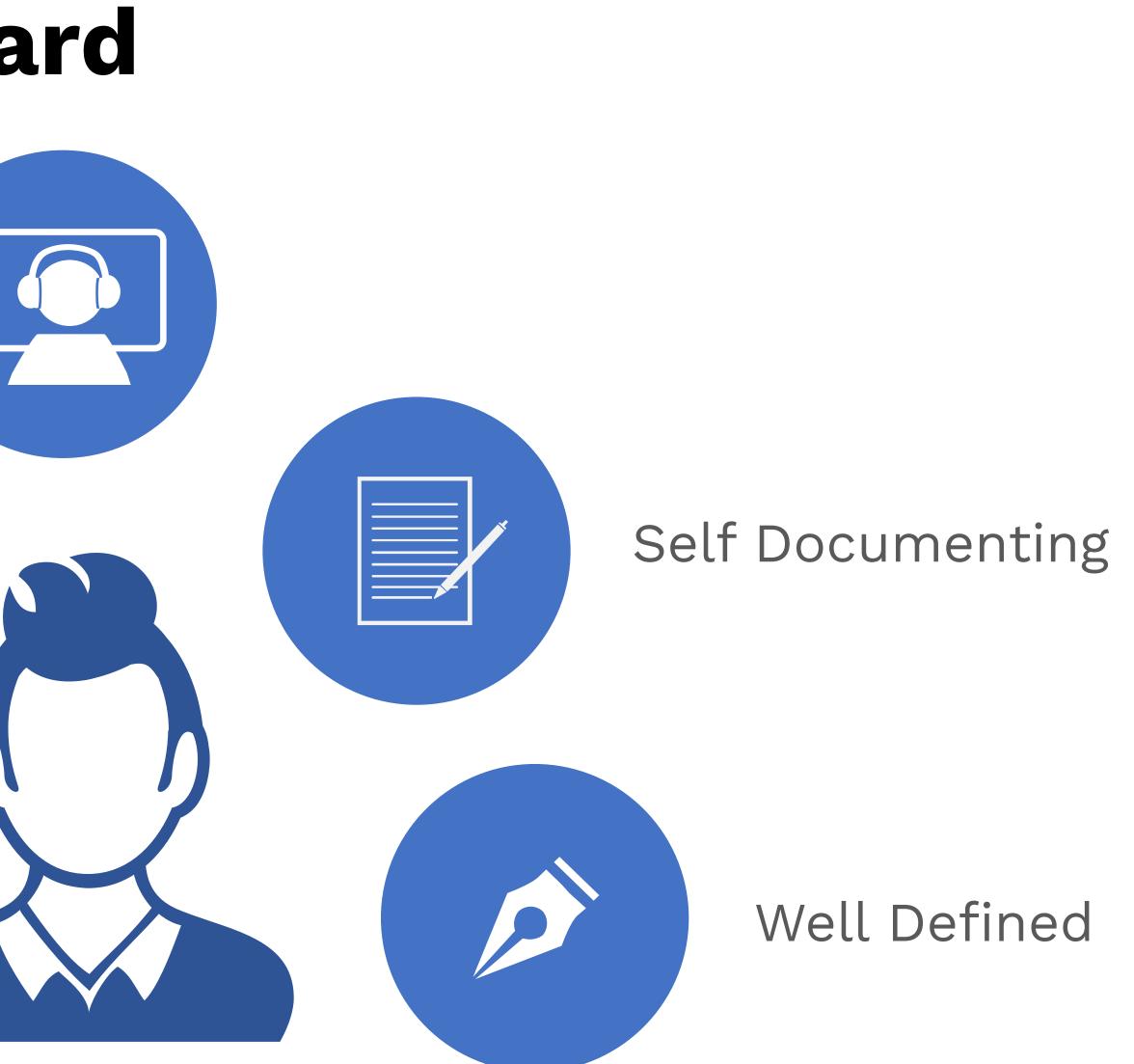


Choosing an API standard



Easy To Understand

Language Agnostic Milano • 27 settembre 2019







OpenAPI



API-driven companies who have adopted the OpenAPI standard

Founded in 2010 V

V

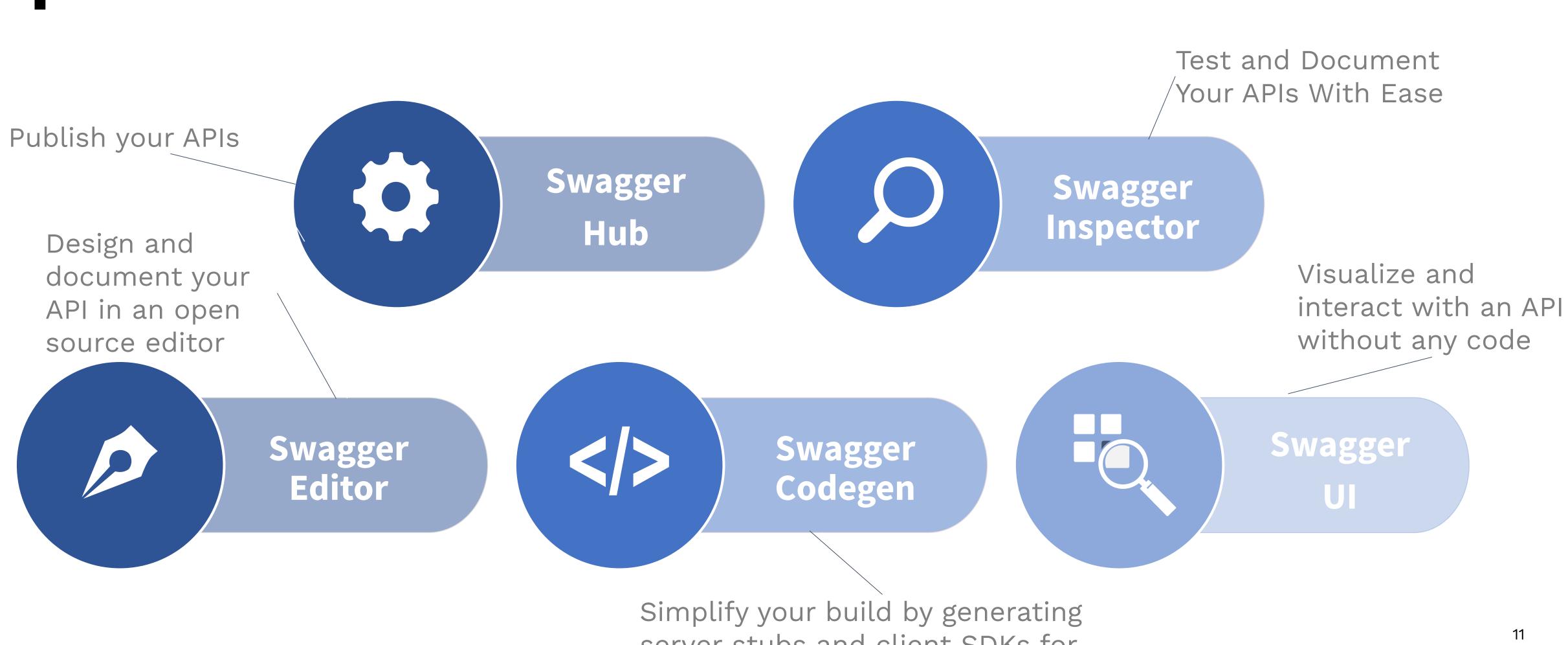
- Formerly known as Swagger V
- A variety of companies, including Google, IBM, V Microsoft and SmartBear are founding members.
- Available tools for generating clients for multiple V languages: javascript, php, java, etc.
 - Supported by many Data integration products out of the box.







OpenAPI



APIs

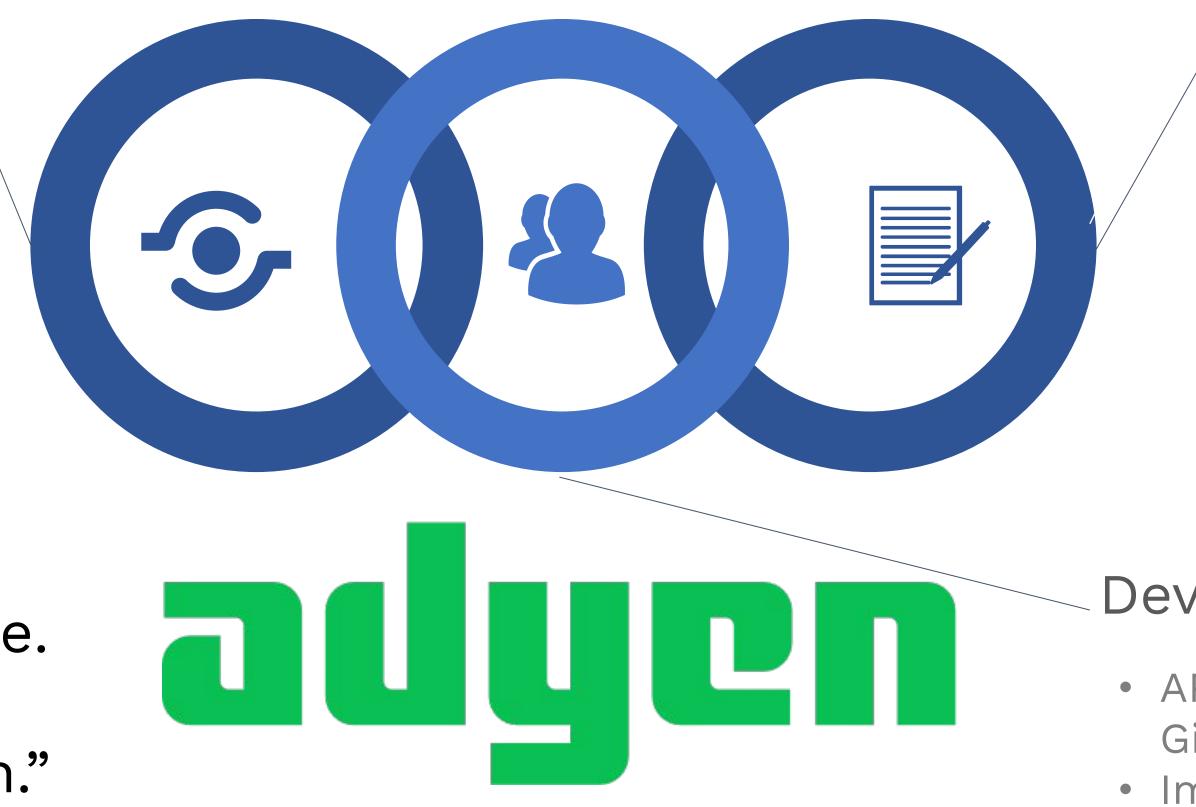
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server stubs and client SDKs for

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OpenAPI Example



API Explorer

Inspect API endpoints and request/response elements

"We don't lose customers to anyone. The loyalty to our platform is very high."

Adyen CEO Pieter van der Does

Sources: <u>Aleksei Akimov</u> (2018) <u>Pyments.com</u> (2019)

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Documentation

Auto-generate and improve documentation

Developer Experience

- API specification hosted on GitHub
- Import contracts into REST clients



Headless & API date

Liferay DXP: Headless / Decoupled

Decoupled CMS

Web Sites/Pages

Page/Site

Mobile

Headless CMS

Content Authoring Interface

Web API

Core Services

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Liferay DXP: Headless / Decoupled







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SOAP

JSON

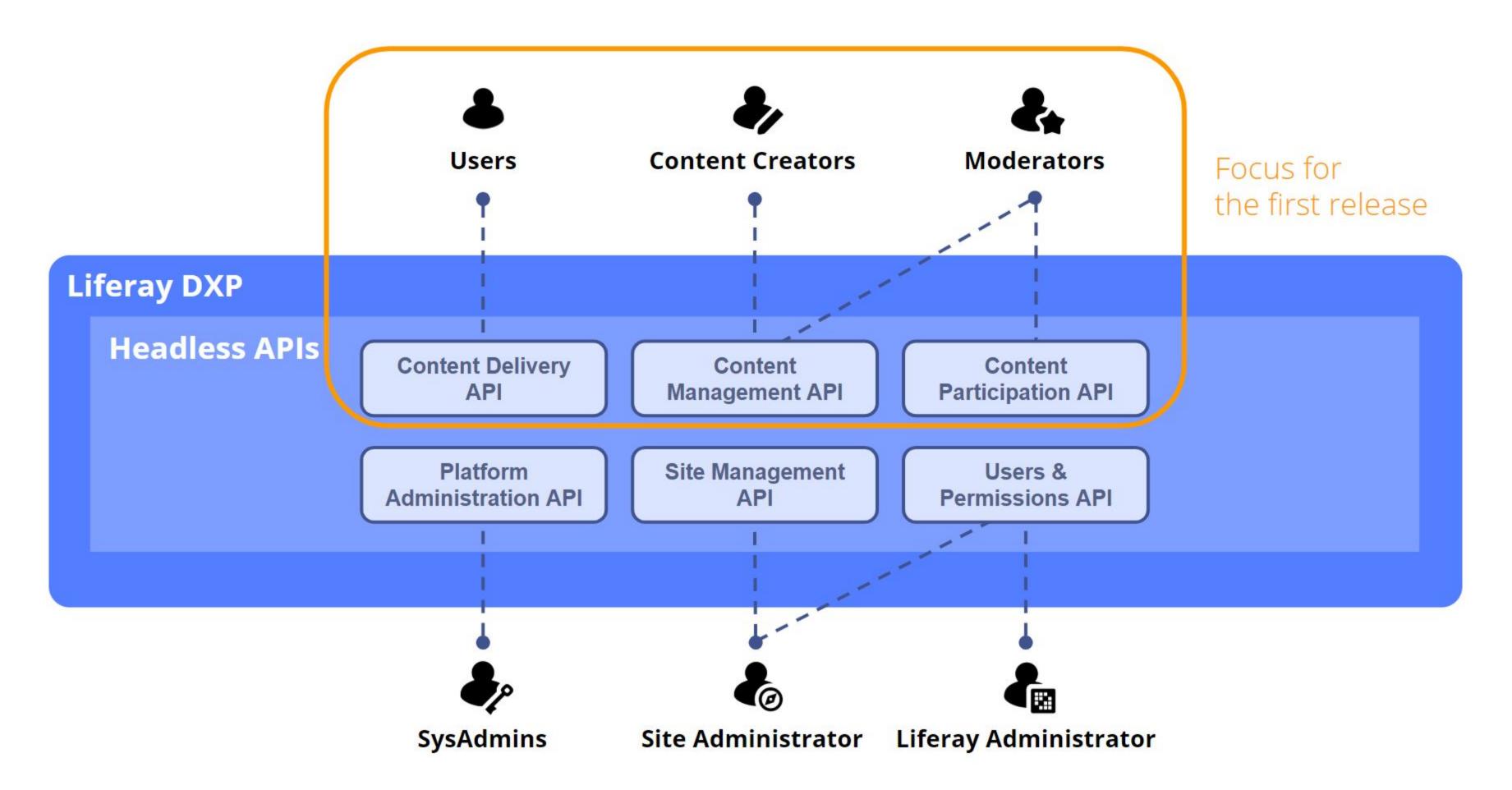








Liferay DXP: Headless / Decoupled







Headless & API date

Key Scenarios

Backend of a custom frontend

Enable your developers to create experiences with the technologies of their choice.

Provide your users with a continuous experience from a single source of

data.

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Enabler of omnichannel experiences



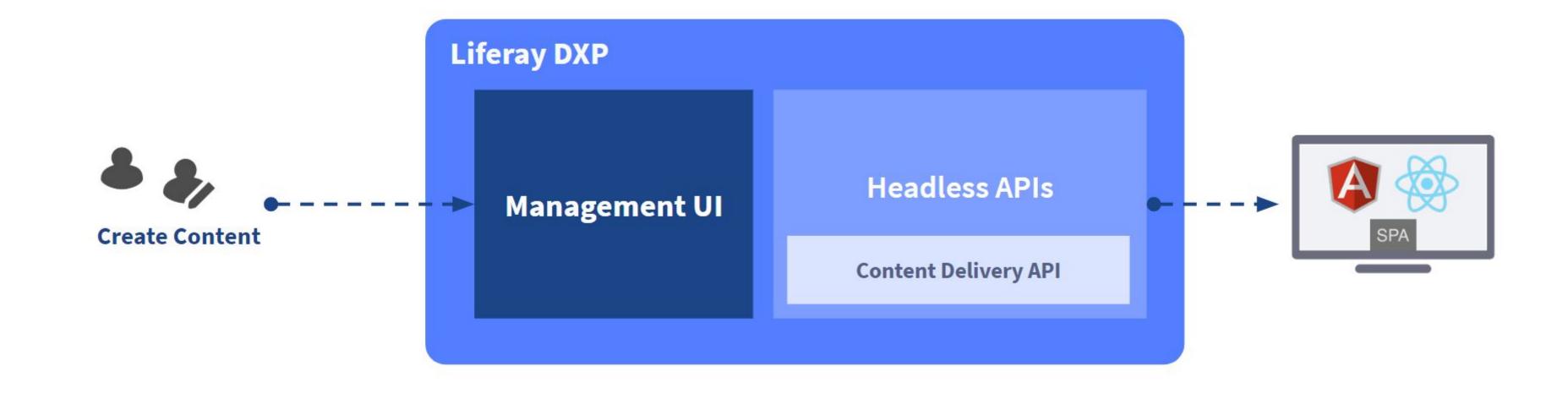
Data integration & platform administration

Automate the integration with other systems thanks to the **OpenAPI** support





Backend of a custom frontend

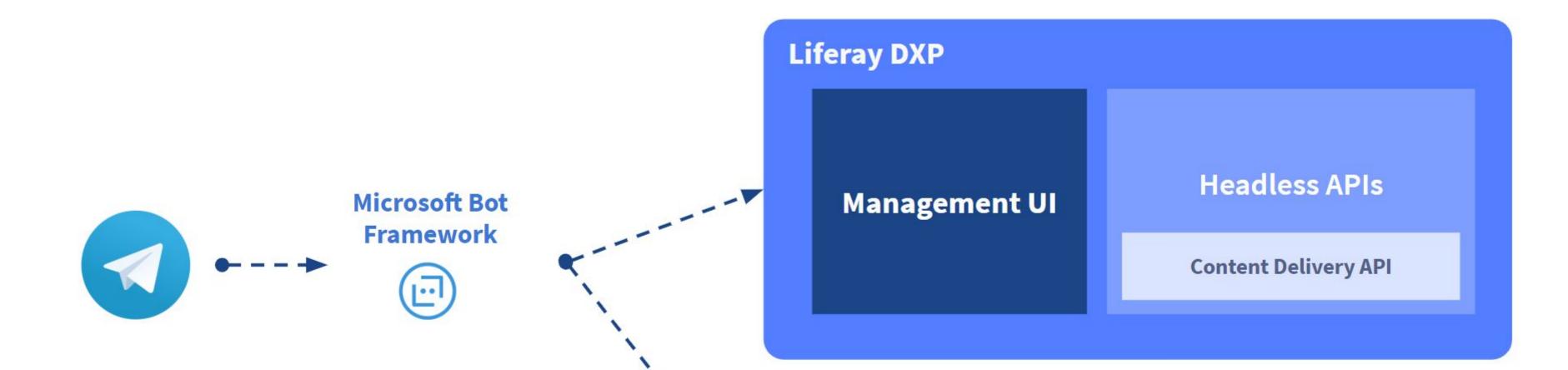








Headless DXP as enabler of omnichannel experiences





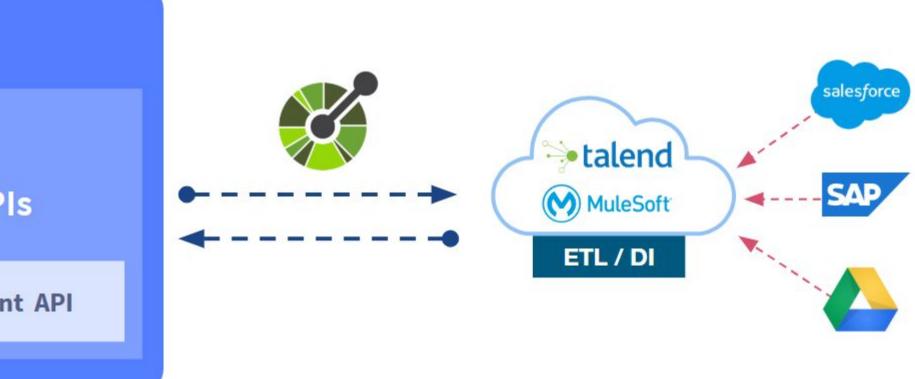






Data integration and platform administration

Liferay DXP Headless APIs Management UI **Content Management API**







Delivery API. Structured Web Content

Retrieve both the raw data and the rendered content

with all the templates defined.

- Translations
- Filter and sort your contents V
 - Fields of the structure Ο
 - Structure used \bigcirc
 - Title \bigcirc
 - Dates \bigcirc
 - Tags Ο
 - Categories Ο
 - Create, update, delete structured content.

More APIs on: <u>https://app.swaggerhub.com/organizations/liferavinc</u>

ContentStruct	ture	
GET /content	t-structures/{contentStructureId}	
GET /sites/	{siteId}/content-structures	
StructuredCo	ontent	
GET /content	t-structures/{contentStructureId}/structured-contents	
GET /sites/	{siteId}/structured-contents	
POST /sites/	{siteId}/structured-contents	
GET /sites/	{siteId}/structured-contents/by-key/{key}	
GET /sites/	{siteId}/structured-contents/by-uuid/{uuid}	
GET /struct	ured-content-folders/{structuredContentFolderId}/structured-contents	
POST /struct	ured-content-folders/{structuredContentFolderId}/structured-contents	
DELETE /struct	tured-contents/{structuredContentId}	
GET /struct	ured-contents/{structuredContentId}	
PATCH /struct	ured-contents/{structuredContentId}	
PUT /struct	ured-contents/{structuredContentId}	
DELETE /struct	tured-contents/{structuredContentId}/my-rating	
GET /struct	ured-contents/{structuredContentId}/my-rating	
POST /struct	ured-contents/{structuredContentId}/my-rating	
PUT /struct	ured-contents/{structuredContentId}/my-rating	
GET /struct	ured-contents/{structuredContentId}/rendered-content/{templateId}	

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Demo – Digital Signage

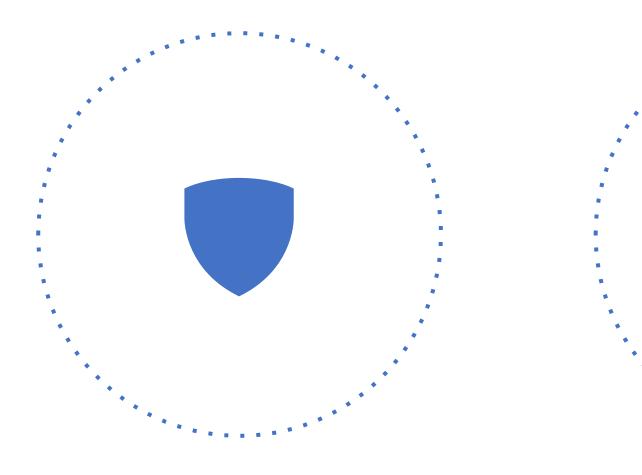
- Digital Contents sent to totems, LCD, LED and projection to provide wayfinding, exhibitions, marketing and outdoor / indoor advertasing.
 - Manage contents on a single backend
- Expose contents through APIs and consume those from the totems, LCD, LED, etc.
 - Gain online control instead of static, asynchronous, outdated content.

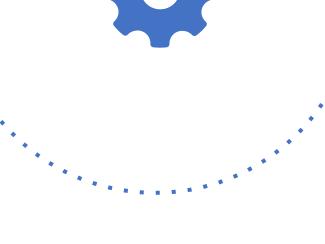






API Trends For 2020 And Beyond



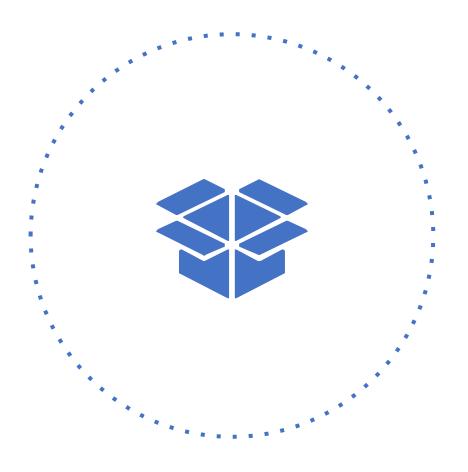


Security

Closely monitor your API and full development life cycle to protect against data breaches and any security vulnerabilities

AI & ML

Big data, visual, location, text, web, network, mobile, NLP, etc. Milano • 27 settembre





Headless

Make content accessible via a RESTful API for display on any device

Developer Experience

DX determines whether or not you earn mind share and engagement

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Liferay Symposium

13-14 novembre 2019

Talent Garden Milano Calabiana

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