Introduction to Kuzzle

INTERNATIONAL UNION OF RAILWAYS

First UIC Digital Awards - 2016

Part 1

What is Kuzzle?

What Kuzzle does?

Kuzzle benefits

How to use Kuzzle?

Industrial strenght

Use cases

Not only start-up friendly

WHAT IS KUZZLE?

A back-end

A BACK-END SOFTWARE

SELF-HOSTABLE & READY TO USE
TO POWER MODERN APPS

BACK-END

The server side of a rich application, handling data, searches and notifications

WHAT IS KUZZLE?

A back-end self hostable

A BACK-END SOFTWARE

SELF-HOSTABLE & READY TO USE
TO POWER MODERN APPS

SELF-HOSTABLE

On cloud services, hosting, intranet, IoT hardware, anything compatible with **Linux** or **Docker**.

WHAT IS KUZZLE?

A back-end self hostable & ready to use

A BACK-END SOFTWARE

SELF-HOSTABLE & **READY TO USE**

TO POWER MODERN APPS

READY TO USE

All the features you need to build a **Web**, **mobile** or **IoT** substantial project (SDK).

WHAT IS KUZZLE?

A back-end self hostable & ready to use to power modern apps

A BACK-END SOFTWARE

SELF-HOSTABLE & READY TO USE
TO POWER **MODERN APPS**

MODERN APP

Multi-device applications and/or **real time** applications (collaborative, **notifications**...)

Part 2

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WHAT DOES KUZZLE DO?

FEATURES

KUZZLE MANAGES ALL YOUR APPLICATIONS DATA WITH:

REAL-TIME

Synchronizes data on multiple devices, notifications, collaborative features...

STORAGE

Schema-less or schema-full database.

SEARCH

Fulltext search, stemming, geo-search, filtering, faceting...

WHAT DOES KUZZLE DO?

FEATURES

The 3 features converse among themselves

WHAT KUZZLE DOES?

SECURITY

ADMINISTRATE YOUR APPLICATIONS
AND YOUR USERS WITH
RIGHTS MANAGEMENT

Part 3

What is Kuzzle?
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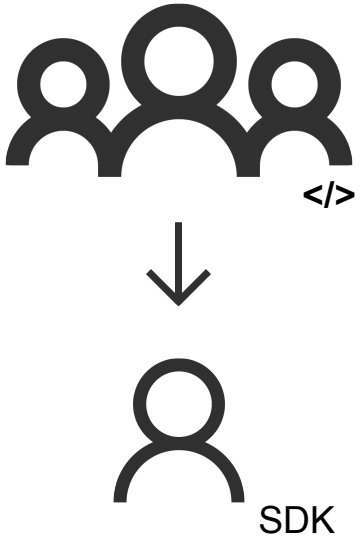
KUZZLE BENEFITS

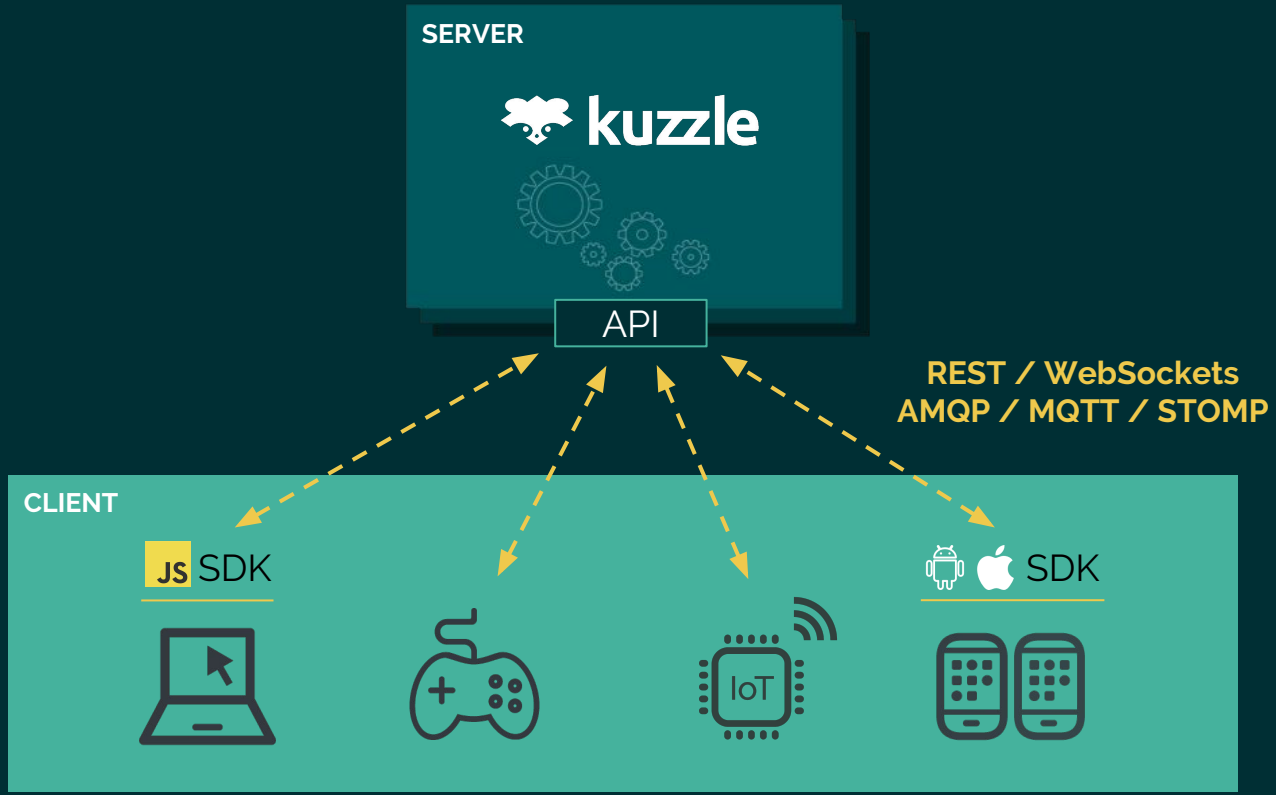
ALLOW FRONT-END/UI TEAM
TO BUILD MODERN APPS
WITHOUT ANY BACK-END GURUS

YOU JUST NEED A
KUZZLE **SDK**



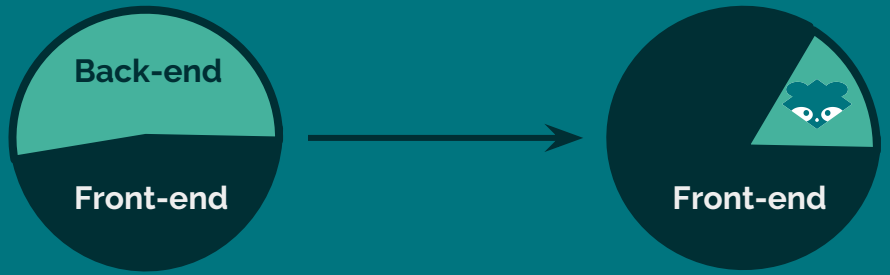
KUZZLE BENEFITS

CONNECT EVERYTHING WITH API/SDK



KUZZLE BENEFITS

Reduce the back-end development



Save time

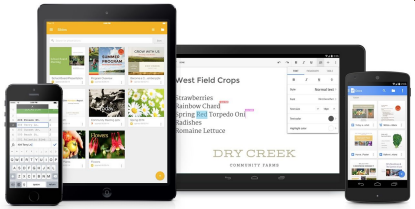
Reduce cost

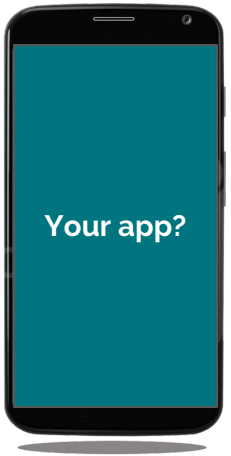
Focus on the user-interface

KUZZLE BENEFITS

Dare digital innovation

KUZZLE ALLOWS YOU TO ACHIEVE DIGITAL PROJECTS YOU THOUGHT WERE UNREALISTIC!





COMPETITORS

For now not really competitors

Kuzzle is a breakthrough innovation that's why there is only one competitor:
=> the brake on change

the fear of innovation and new way to develop apps

Part 4

What is Kuzzle?
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HOW TO USE KUZZLE?

Part 5

What is Kuzzle?
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INDUSTRIAL STRENGTH

TRANSPARENCY AND QUALITY

OPEN SOURCE

EVERYONE CAN
READ THE CODE
AND CONTRIBUTE

TEST DRIVEN CI

SOURCE CODE
ALWAYS TESTED

dependencies up to date

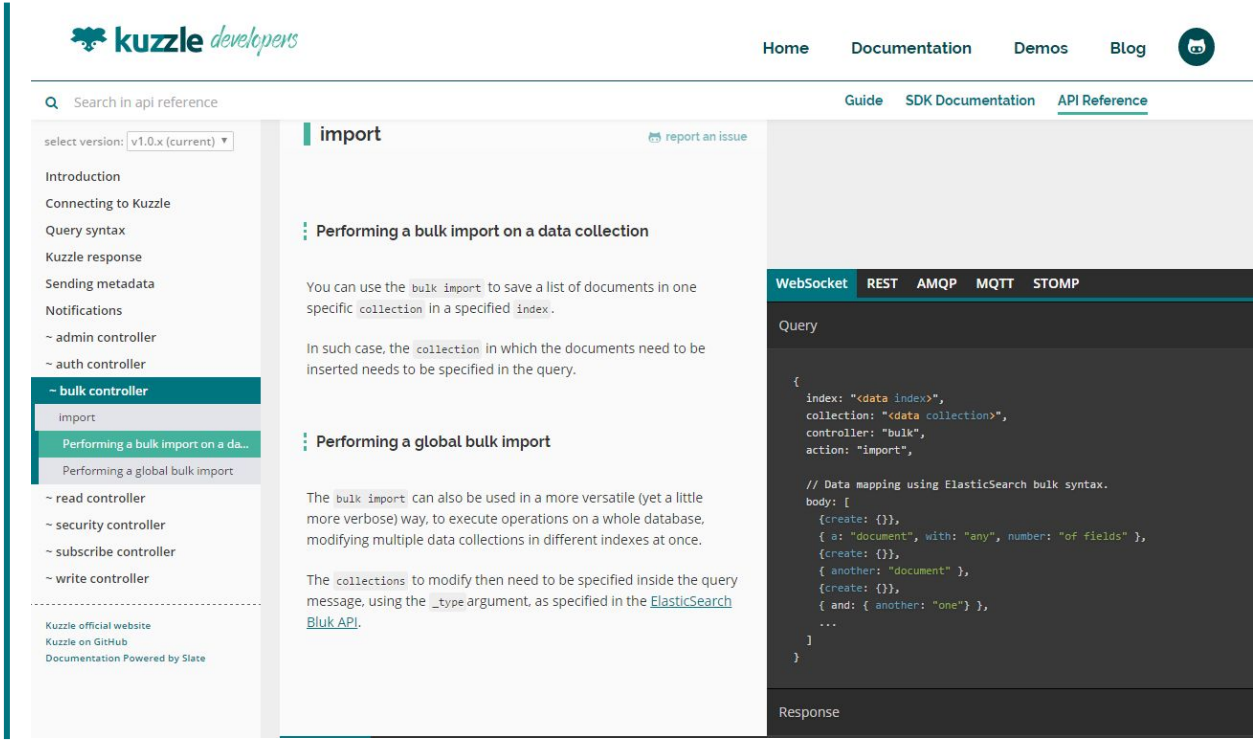
Codecov 91%

build passing

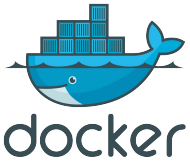
INDUSTRIAL STRENGTH

KUZZLE DOCUMENTATION

Kuzzle SDK and API are documented on our website : http://kuzzle.io/guide



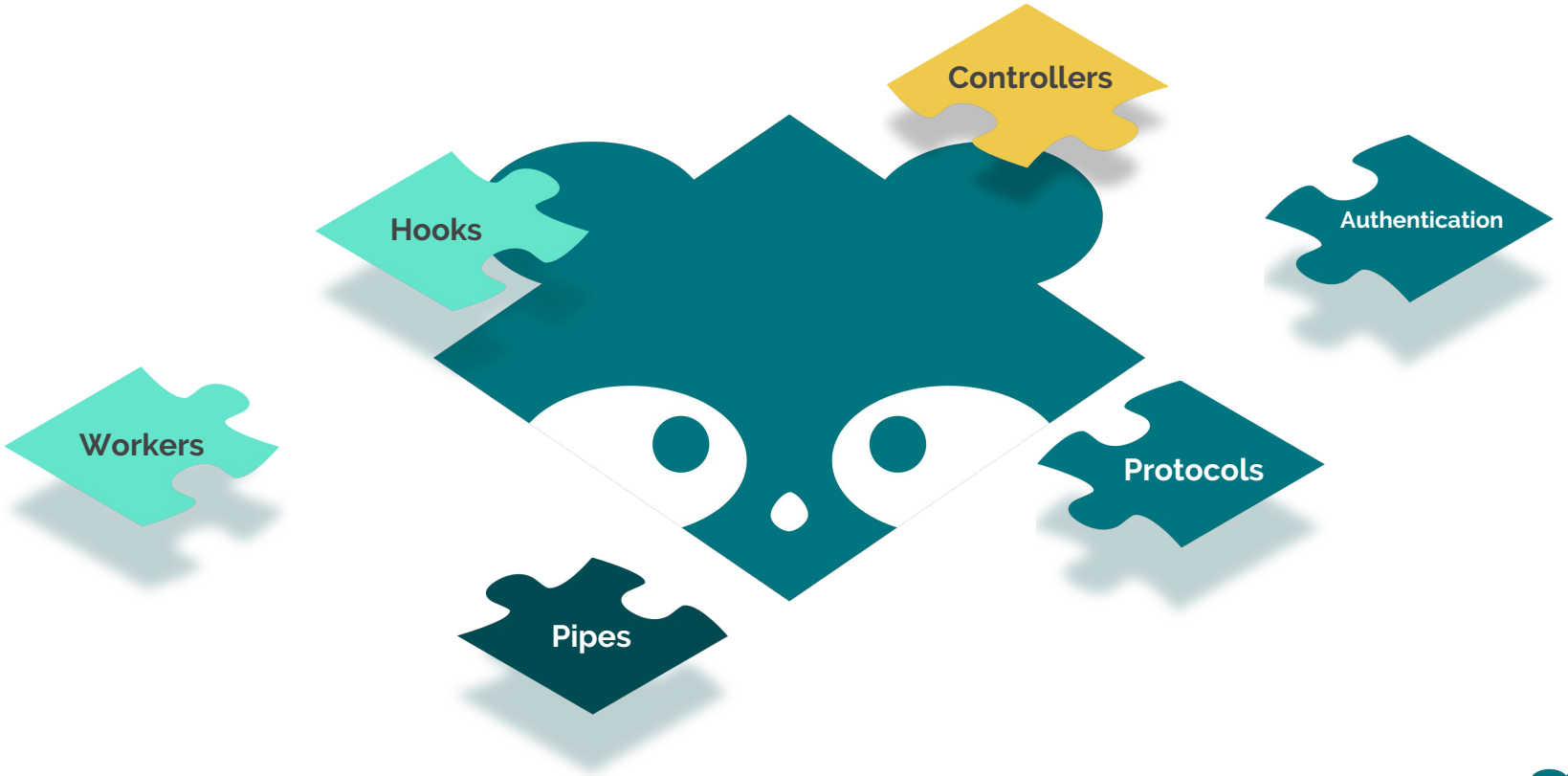
INDUSTRIAL STRENGTH



KUZZLE IS BUILT ON CUTTING-EDGE TECHNOLOGIES

INDUSTRIAL STRENGTH

FULLY EXTENDABLE WITH PLUGINS



INDUSTRIAL STRENGTH

AN ENTERPRISE EDITION FOR BUSINESS CRITICAL APPLICATIONS

High availability

If a Kuzzle server fails, your app still works with other Kuzzle(s).

Data metrics

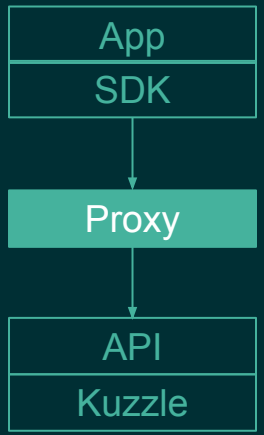
4 types of probes to collect data and re-inject it to your dashboard provider

Scalability

Scale up Kuzzle to follow your business growth.

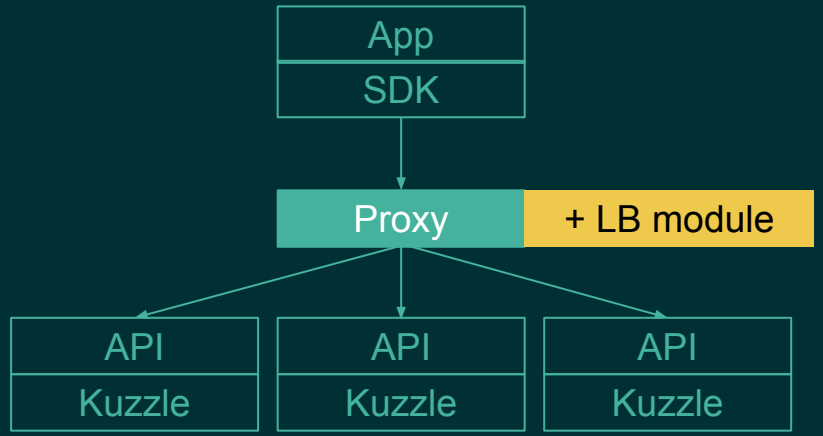
Loadbalancer sur les différentes versions

Community



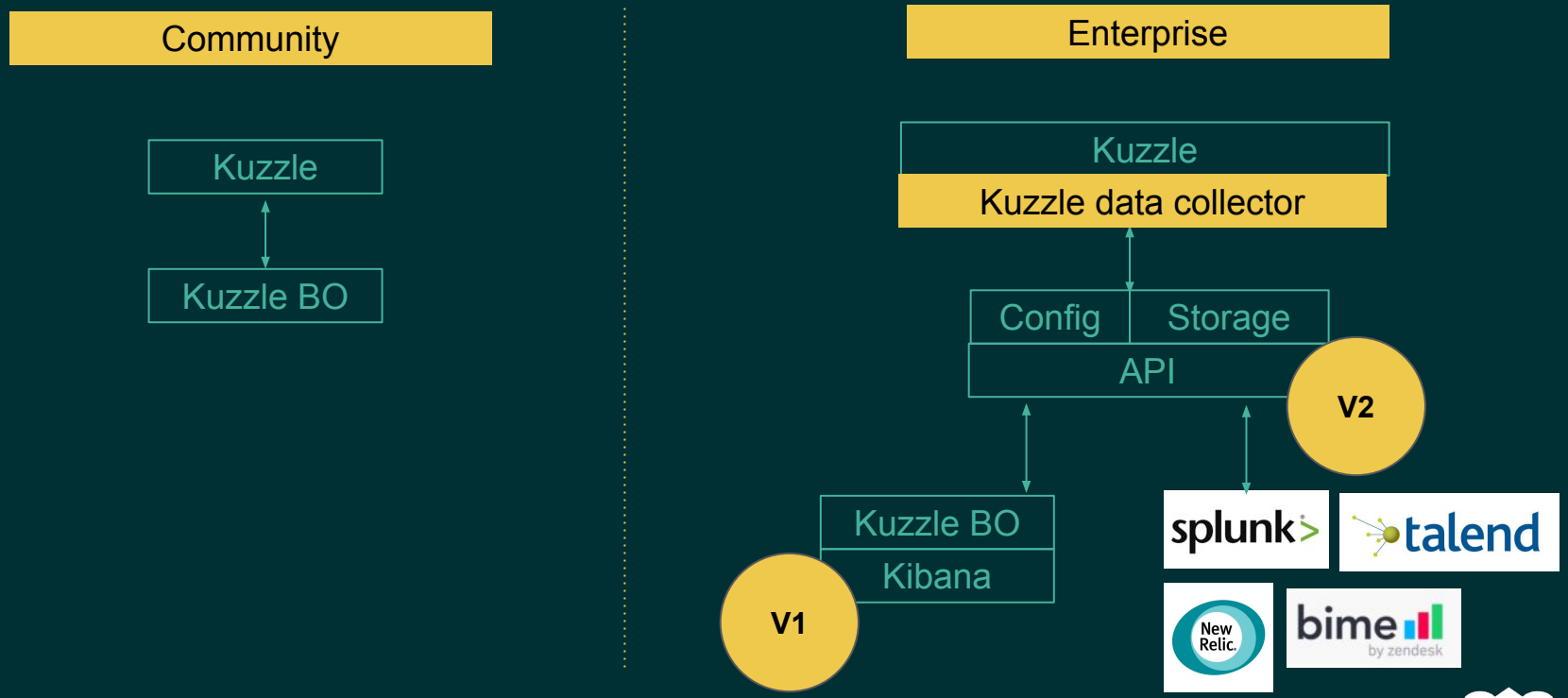
If 1 Kuzzle fails, the app fails...

Enterprise



If 1 Kuzzle fails, still works with other Kuzzle(s)

Dashboard sur les différentes versions



INDUSTRIAL STRENGTH

Kuzzle in figures

12

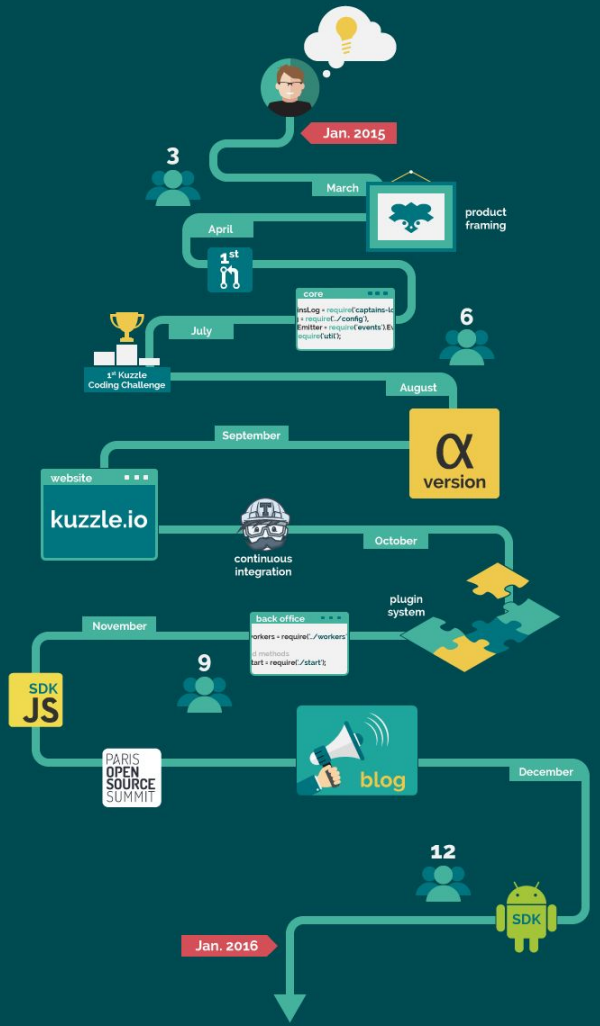
Employees in a R&D team.

800 000

Euros of funding by Kaliop Group.

1000+

Integration and unit tests.



KUZZLE IN RETROSPECT

Part 6

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USE CASES

Tinder

> Notify Justin if a 22 year old + brunette is less than 500 meters around

- **Event subscription**
- Geo-event subscription
- Notification feature
- Real-time data sync
- Database storage
- Search & geosearch

USE CASES

Uber

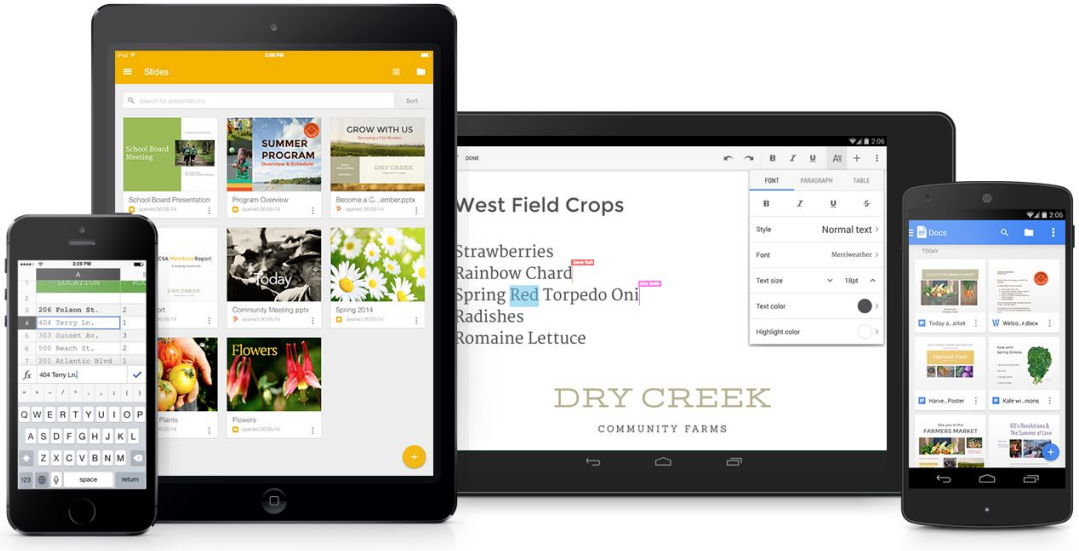
> **Display on the map all the taxis available, ready to pick me up right now**

- ✓ Geo-event subscription
- ✓ Notification feature
- ✓ Real-time data sync
- ✓ Database storage
- ✓ Search & geosearch

- ✗ Payment on travel duration
- ✓ **Plugin to push the trip data to a payment solution**

USE CASES

Google docs like



Docs, Sheets, and Slides on the go

> **Synchronize all real-time actions & cursor moves on documents**

- Notification feature
- **Real-time data sync**
- Database storage
- Search
- **Multi-device**
- Plugin to manage user login & policies

USE CASES

Connected house

> **Show me all the electric stuff still on in the house & turn them off**

- Event subscription
- Notification feature
- Real-time data sync
- Database storage
- Search
- **Drive IoT actions**
- **Multi-device / IoT sync**

USE CASES

Connected plants

> **Notify me if I need to water one of my plants**

- Event subscription
- Notification feature
- Real-time data sync
- Database storage
- Search
- **Drive IoT actions**
- **Multi-device / IoT sync**
- Plugins to make some IoT protocols compatible

USE CASES

TV Box & apps

> **From my phone, add this show to my favorite list... I will watch it later on my tablet**

- Event subscription
- Notification feature
- Real-time data sync
- **Database storage**
- Search
- **Multi-device sync**
- Plugin to import TV program feeds

USE CASES

Smart City

> **Notify the maintenance teams if something is wrong near their location. Aggregate all the energetic data and push them to Big Data storage.**

- **Geo-event subscription**
- Event subscription
- Notification feature
- Real-time data sync
- **Industrial MQ protocol**
- **Plugin to push data on Big Data storage engines**

USE CASES

Online Games

> **Synchronize all the visible events to online players**

- Event subscription
- Notification feature
- **Real-time data sync**
- Database storage
- **Plugin to push scores to facebook / mails**

Part 7

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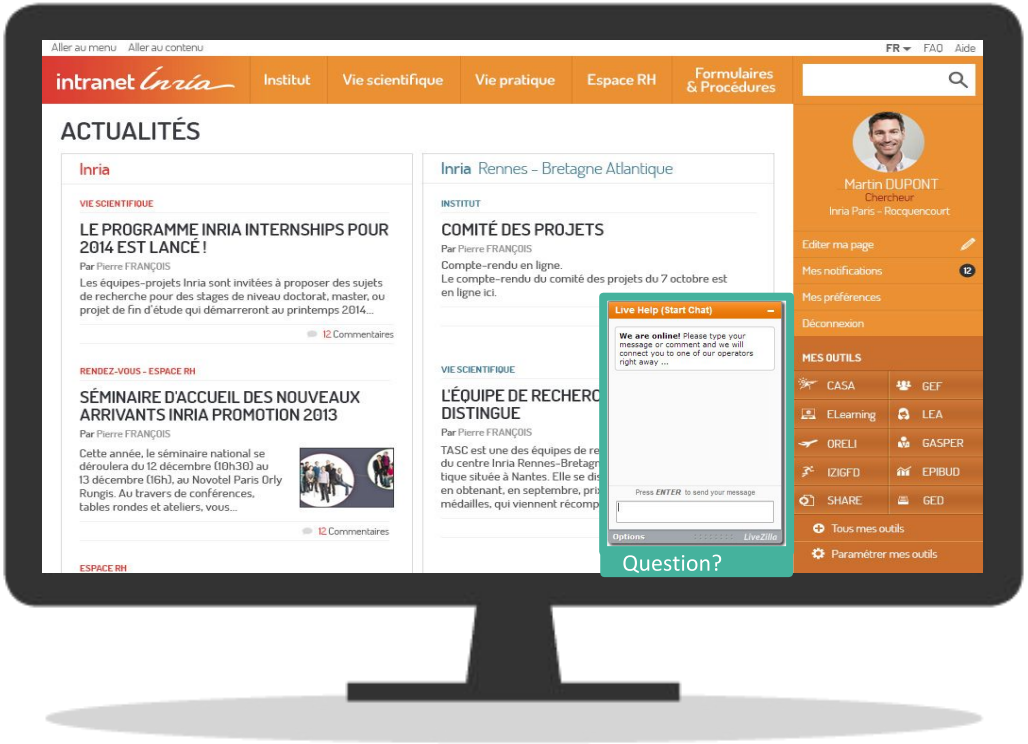
Kuzzle can be used in Kaliop's projects

KUZZLE CAN PROVIDE COMPLEX FEATURES, MADE EASY TO DEVELOP, ON TOP OF EXISTING PROJECTS.

Kuzzle can be used in Kaliop's projects

Example: live chat add-on



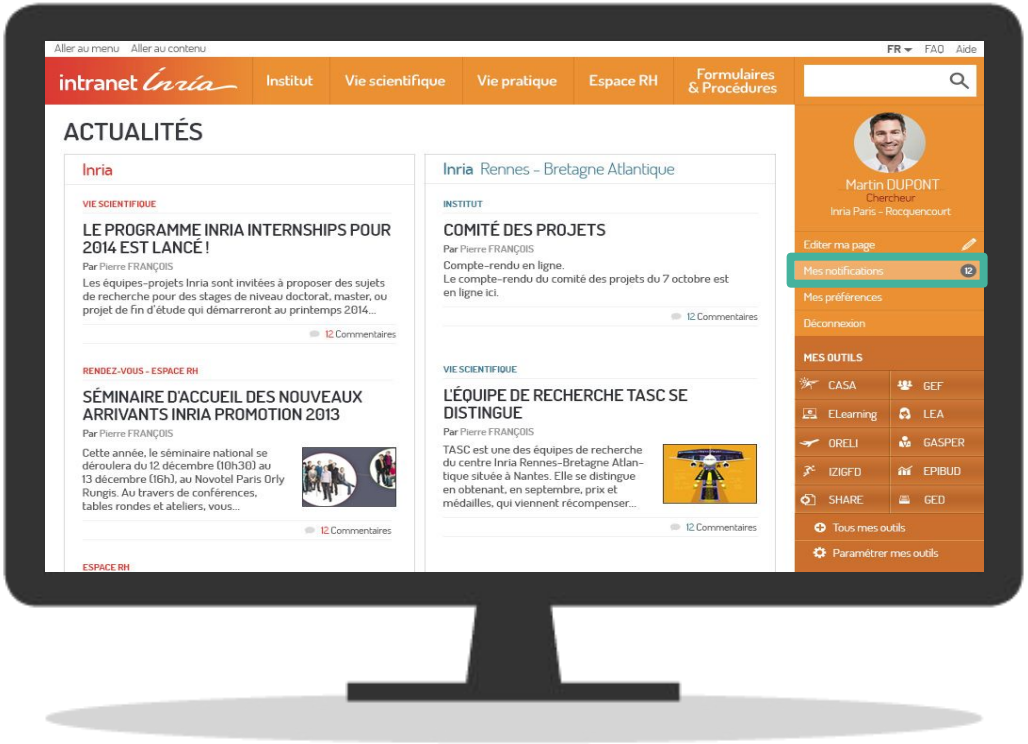
kuzzle + Drupal + Symfony + eZ + Magento

> **Kuzzle provides the private chat feature**

- Event subscription
- Notification feature
- Real-time data sync
- Database storage
  Search
- **Plugin to use existing SSO & connect to CMS**

Kuzzle can be used in Kaliop's projects

Example: notification feature



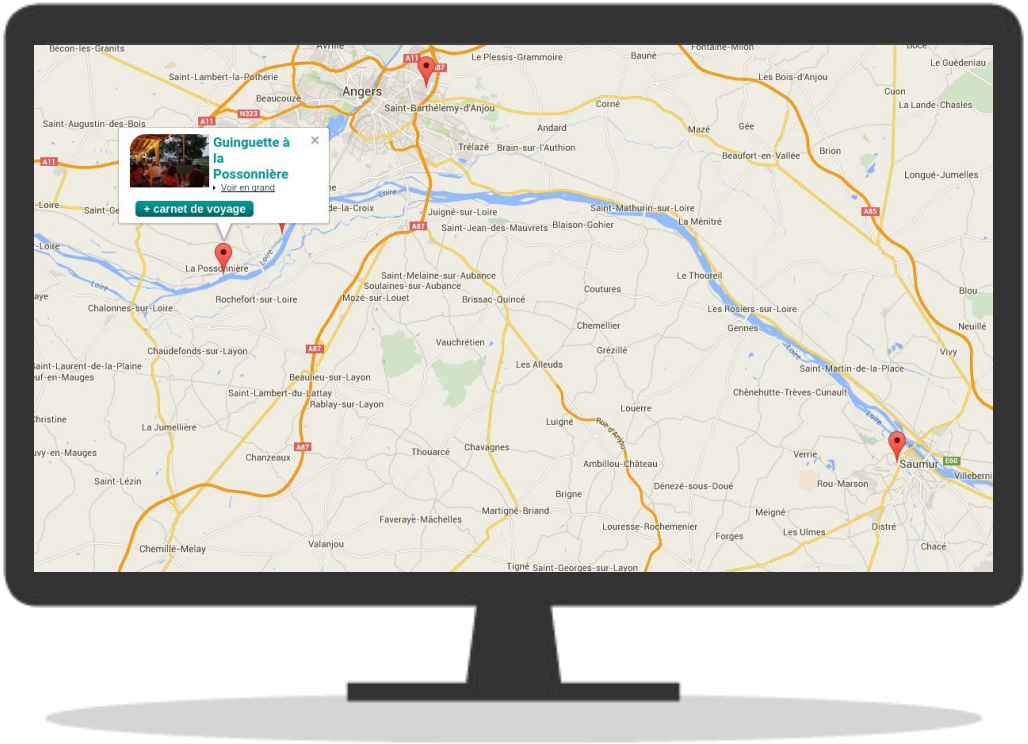
kuzzle + Drupal + Symfony + eZ + Magento

> **Kuzzle provides the notification feature**

- Event subscription
- Notification feature
- Real-time data sync
- Database storage
- Search
- **Plugin to get the business logic behind the notifications**

Kuzzle can be used in Kaliop's projects

Example: Geo-search feature



kuzzle + Drupal + Symfony + eZ + Magento

> **Kuzzle provides the geo-search / match preferences feature**

- Event subscription
- Notification feature
- Real-time data sync
- Database storage
- **Geo-event subscription**
- **Plugin to get the business logic behind the notifications**