

# Dataproject 2



Grupo: Karimun Jawa

# Karimun Jawa



## #KarimunJawa

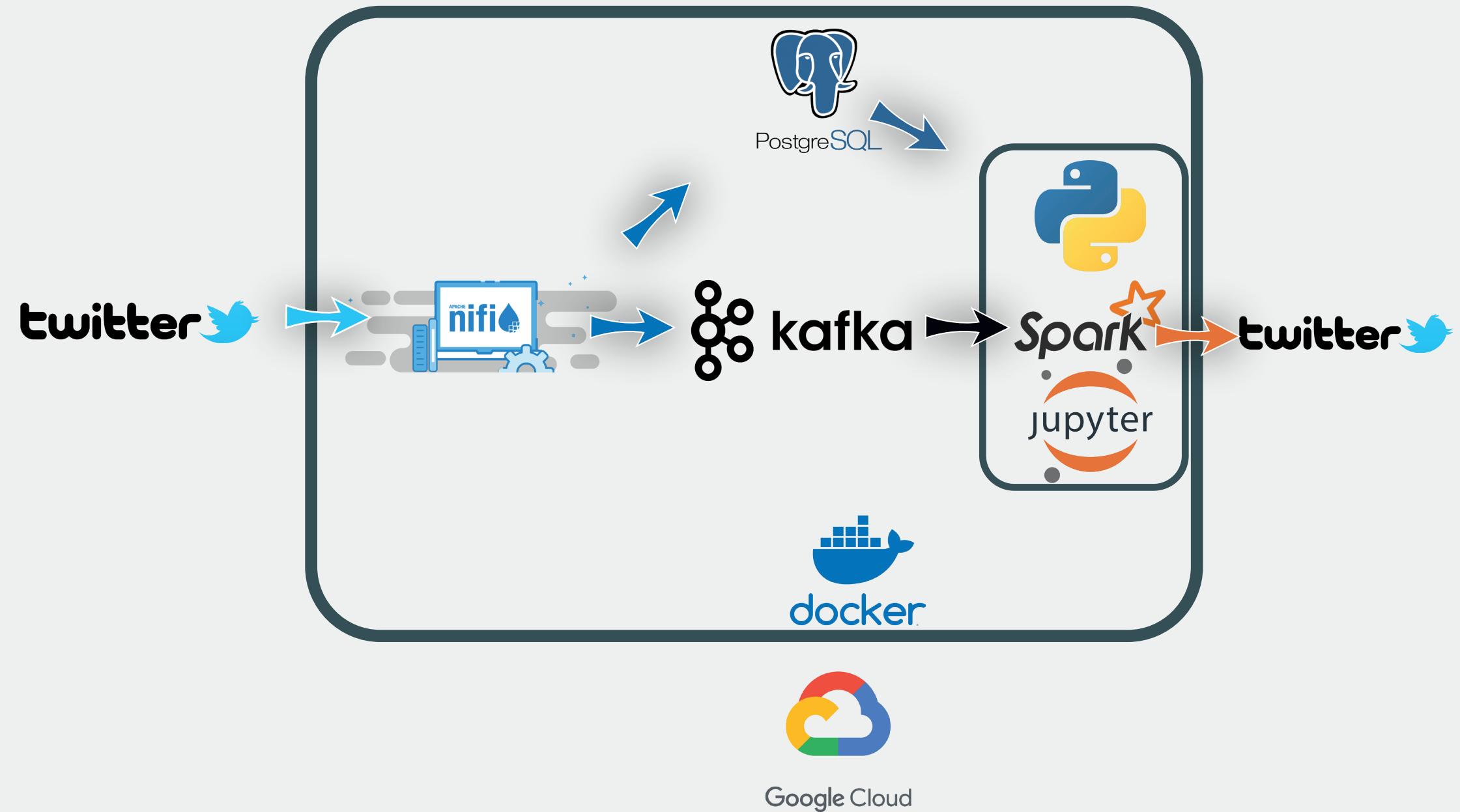
Integrantes: Amparo Botella  
Carlos Donoso  
María Carbonell  
Juan Luis Hernández  
Jordi Oltra

Github: <https://github.com/cadoca1/dataproject2>

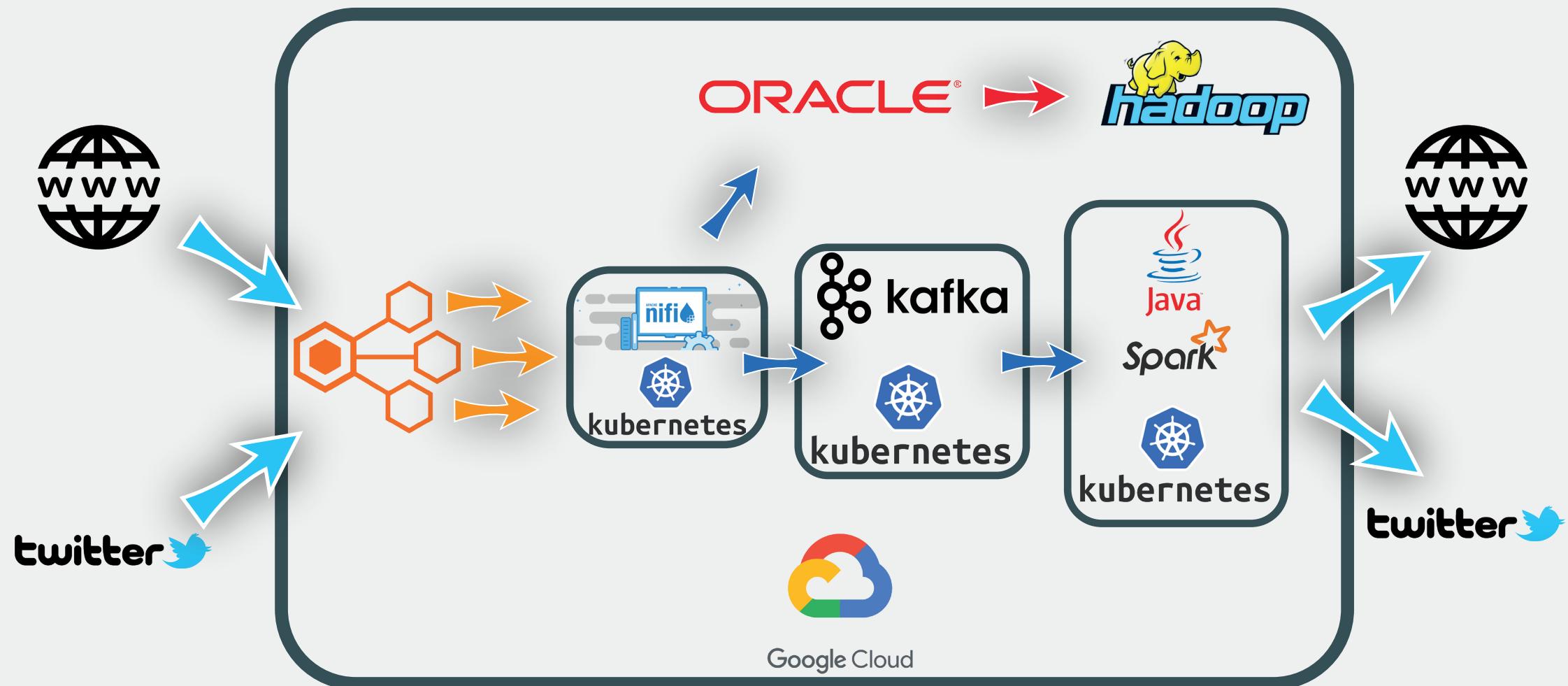
# Problema propuesto



# Arquitectura MVP



# Arquitectura proyecto



# Algoritmo

Data Learning Program  
DLP 2020

dlpexerciseprocess  
@dlpexercisepro1

A house in **Barcelona** is free for renting, with **4 rooms** available and a monthly **cost of 963€** with code 549150  
**#madaudem**

Data Learning Program  
DLP 2020

dlpexerciseprocess  
@dlpexercisepro1

My name is Charles Bailey, **my salary is 144114€** yearly and I am 47 years old. My family are **4 members**. These are **my hobbies: Beach(8), City(7), Nature(4), Party(0)**  
**#madaudem**

# Paso 1



dlpexerciseprocess  
@dlpexercisepro1

My name is Charles Bailey, my salary is 144114€ yearly  
and I am 47 years old. My family are 4 members. These  
are my hobbies: Beach(8), City(7), Nature(4), Party(0)  
**#mdae dem**



Karimunjawa  
@Carlos11284606

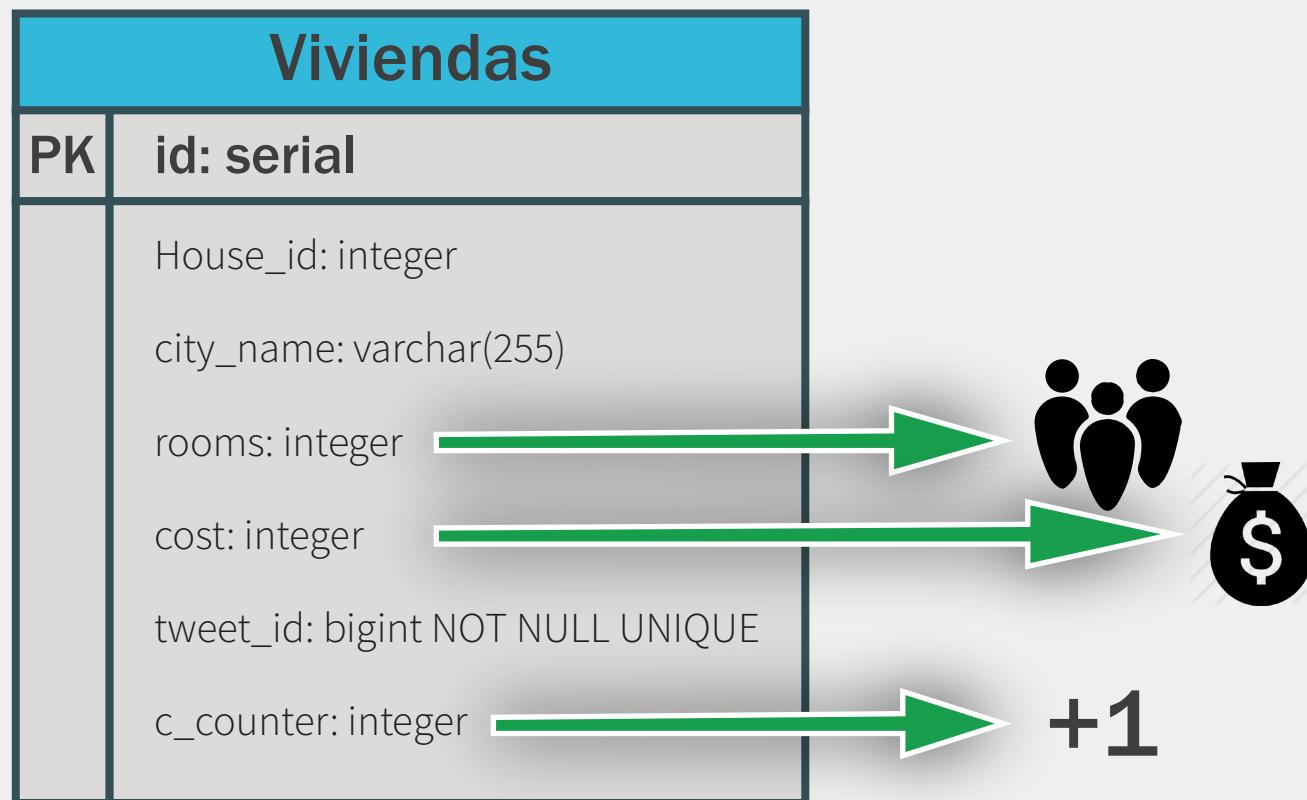
```
split_text = tweet_text.split(" ")
name = split_text[3] + " " + split_text[4][:-1]
salary = split_text[8][:-1]
members = split_text[19]
beach = split_text[25][-3:-2]
city = split_text[26][-3:-2]
nature = split_text[27][-3:-2]
party = split_text[28][-2:-1]
#KarimunJawa
```

# Paso 2



Karimunjawa  
@Carlos11284606

```
cursor.execute("SELECT * FROM casas WHERE cost <= " +  
str((int(salary)/12)*0.2) + " and (rooms = " + str(members)  
+ " or rooms = " + str(int(members)+1) + ") and c_counter  
<=4;") #KarimunJawa
```



# Paso 3



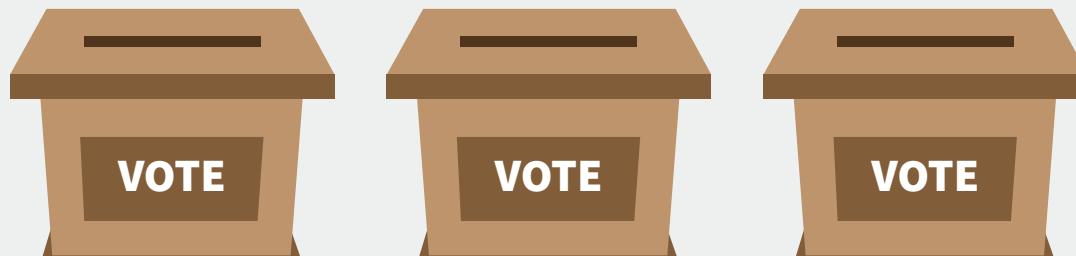
Karimunjawa  
@Carlos11284606

```
playa = ["Valencia", "Barcelona", "Ibiza"]
ciudad = ["Madrid", "Barcelona", "Valencia", "Sevilla"]
naturaleza = ["Oviedo", "Bilbao"]
fiesta = ["Ibiza", "Madrid", "Barcelona"]

scoring = {"Madrid": 0, "Barcelona": 0, "Ibiza": 0, "Valencia": 0,
           "Sevilla": 0, "Oviedo": 0, "Bilbao": 0}

for k in scoring:
    try:
        playa.index(k)
        scoring[k] += int(beach)
    except (Exception) as error :
        print("Not present", error)

#KarimunJawa
```



# Paso 4



Karimunjawa  
@Carlos11284606

```
mejor_casa['score'] = mejor_casa['city_name'].map(scoring)
resultado = mejor_casa[mejor_casa.score == max(mejor_casa.score)]
#KarimunJawa
```



# Paso 5



Karimunjawa  
@Carlos11284606

```
contador = 0
for _, i in resultado.iterrows():
    if contador >= 2:
        break;

        tweet = "Hi! " + name + ", your perfect house is placed
in " + i.city_name + ", with the code: " + str(i.house_id)
        tweet += " https://twitter.com/dlpexercisepr1/status/"
+ str(i.tweet_id)

    contador += 1
#KarimunJawa
```



# Paso 6



Karimunjawa  
@Carlos11284606

```
cursor.execute("UPDATE casas SET c_counter = c_counter + 1  
WHERE tweet_id = " + str(i(tweet_id))  
#KarimunJawa
```

Viviendas	
PK	id: serial
	House_id: integer  city_name: varchar(255)  rooms: integer  cost: integer  tweet_id: bigint NOT NULL UNIQUE  c_counter: integer

+1 ←

# Respuesta



Karimunjawa @Carlos11284606

Replies to @dlpexercisepr01

Hi! Charles Bailey, your perfect house is placed in Barcelona, with the code: 549150



dlpexercisepr01 @dlpexercisepr01

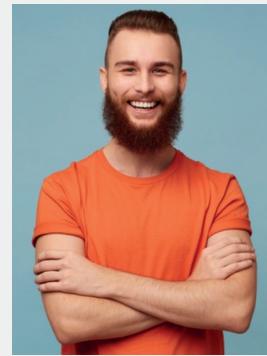
A house in Barcelona is free for renting, with 4 rooms available and a monthly cost of 963€ with code 549150 #madaedem

# Equipo

MVP MVP



MTO



PF  
MTO



MVP  
PF  
MTO

PF Proyecto

MTO Mantenimiento



MVP  
PF  
MTO



MVP  
PF  
MTO

Yolanda I. Garrote José Ramón Mañez Blasco Daniel Ruiz Riquelme Annemarie Helmreich Sara Martinez  
HelpDesk DevOps Data Engineer, Senior Scrum Master Project Manager



PF  
MTO

Laura Cruz

FullStack Web Developer



PF

Javier Navarro

Ux (User Experience)



MVP  
PF

David Aragonés Campos

Data Engineer, Junior



PF

Javier Molla

Cloud Developer

# Línea temporal MVP

MVP

Duración: 9 días

Planificación **16h**

Arquitectura **8h**

Nifi **16h**

Pyspark **16h**

# Línea temporal proyecto

PF

Duración: 12 días

Web

Ux 28h

Desarrollo 44h

Cloud

HDFS 6h

Kubernetes 8h

Código

Mejora del código 6h

optimización del código 16h

Refactoring 24h

Integración 4h

Test

Test 44h

# Situación financiera: Ingresos y gastos

Costes MTO  
398K€/año



Comisión: 50% de una cuota de alquiler



Costes PF  
28K€

Costes MVP  
2K€



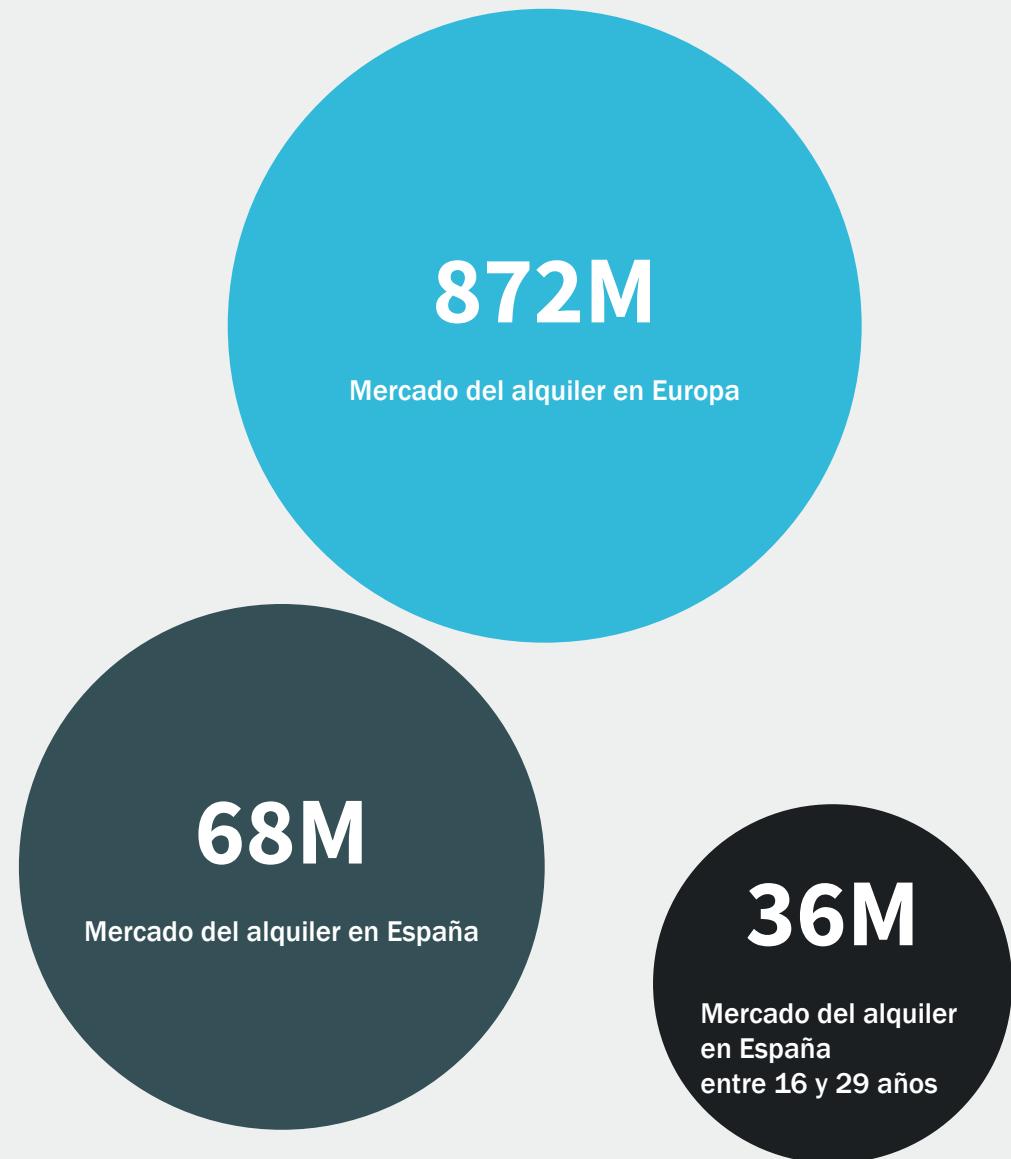
# Situación financiera: Beneficios

Escenarios por Tweets al mes		Retorno con 0.5%	Retorno con 2%	Retorno con 6%
Supreme	43200	74.445,99€	383.518,17€	1.207.710,64€
Mejor	21600	22.933,96€	177.470,05€	589.566,29€
Medio	10800	-2.822,05€	74.445,99€	280.494,11€
Malo	5400	-13.684,06€	24.949,96€	127.974,02€



# TAM SAM SOM

- Total Available Market (TAM)
- Serviceable Available Market (SAM)
- Serviceable Obtainable Market (SOM)



# Conclusión

