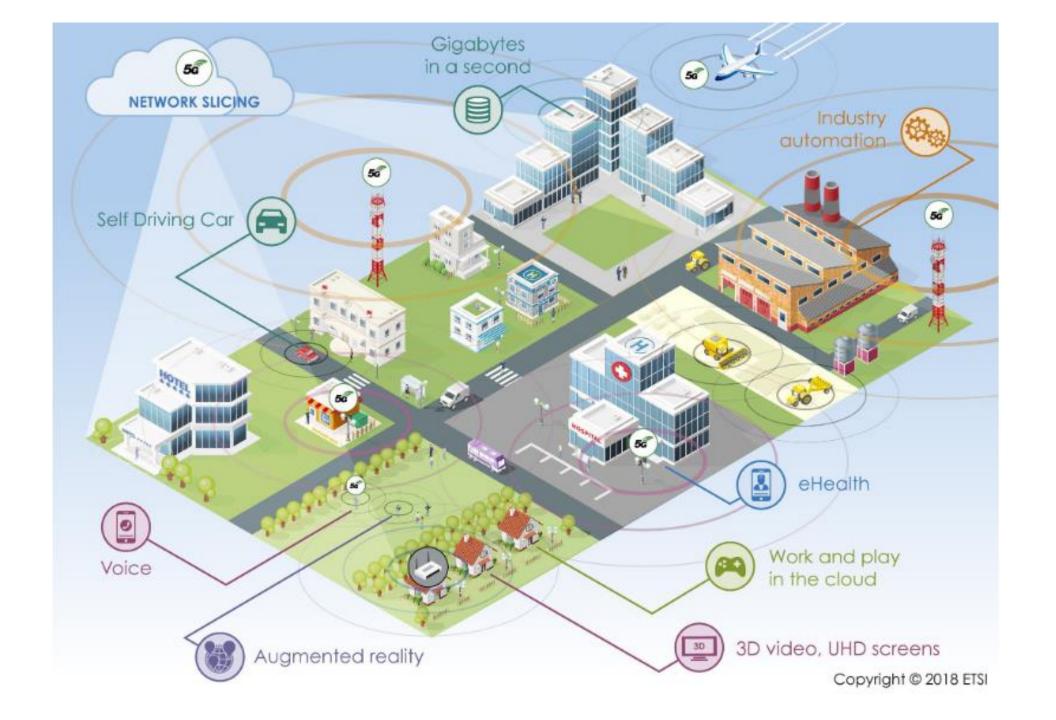
Adrián Blázquez León

Thesis supervisor: Prof. Joaquín Luciano Salvachúa Rodríguez



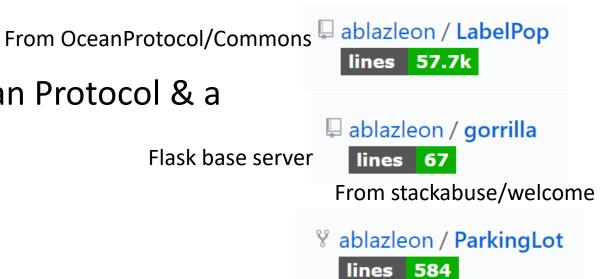




#### **Objectives:**

**1. Analyze.** Why echange data, Ocean Protocol & a shop? (LabelPop)

- 2. Design.
- 3. Implementation.



forked from olgarose/ParkingLot

Parking analyzer

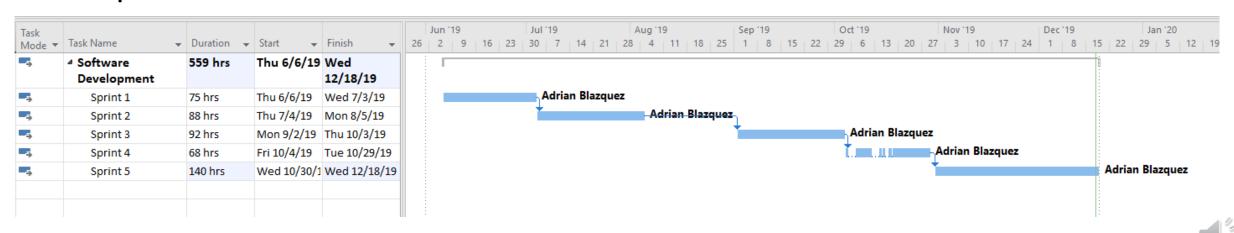


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- Sprint 1
- Sprint 2
- Sprint 3
- Sprint 4
- Sprint 5

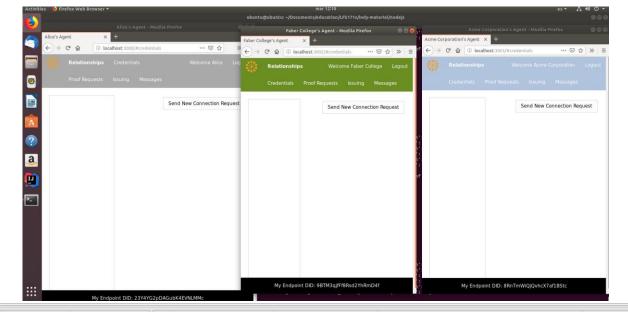


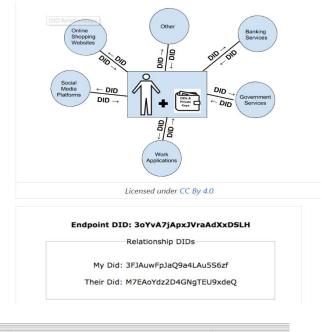
- Sprint 1
- Sprint 2
- Sprint 3
- Sprint 4
- Sprint 5





- Sprint 1
- Sprint 2
- Sprint 3
- Sprint 4
- Sprint 5

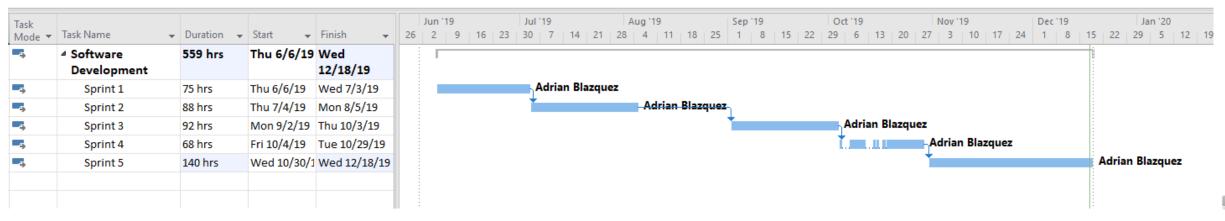






- Sprint 1
- Sprint 2
- Sprint 3
- Sprint 4
- Sprint 5

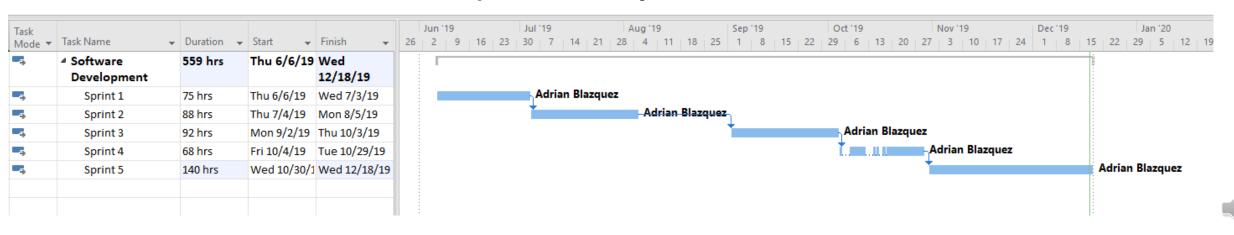
- 1. What is Ocean Protocol? (what is?)
- 2. Which are its cases of use? (what if/ what wows?)
- 3. Which value can it add to an data-driven app? (what Works?)





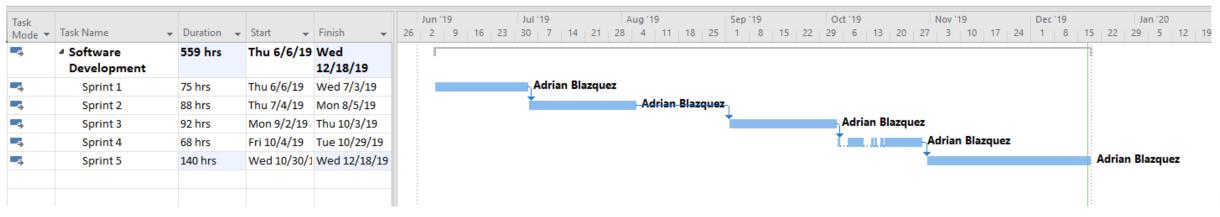
- Sprint 1
- Sprint 2
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- Sprint 4
- Sprint 5

- 1. What is Ocean Protocol? (what is?)
- 2. Which are its cases of use? (what if/ what wows?)
- 3. Which value can it add to an data-driven app? (what Works?) LabelPop

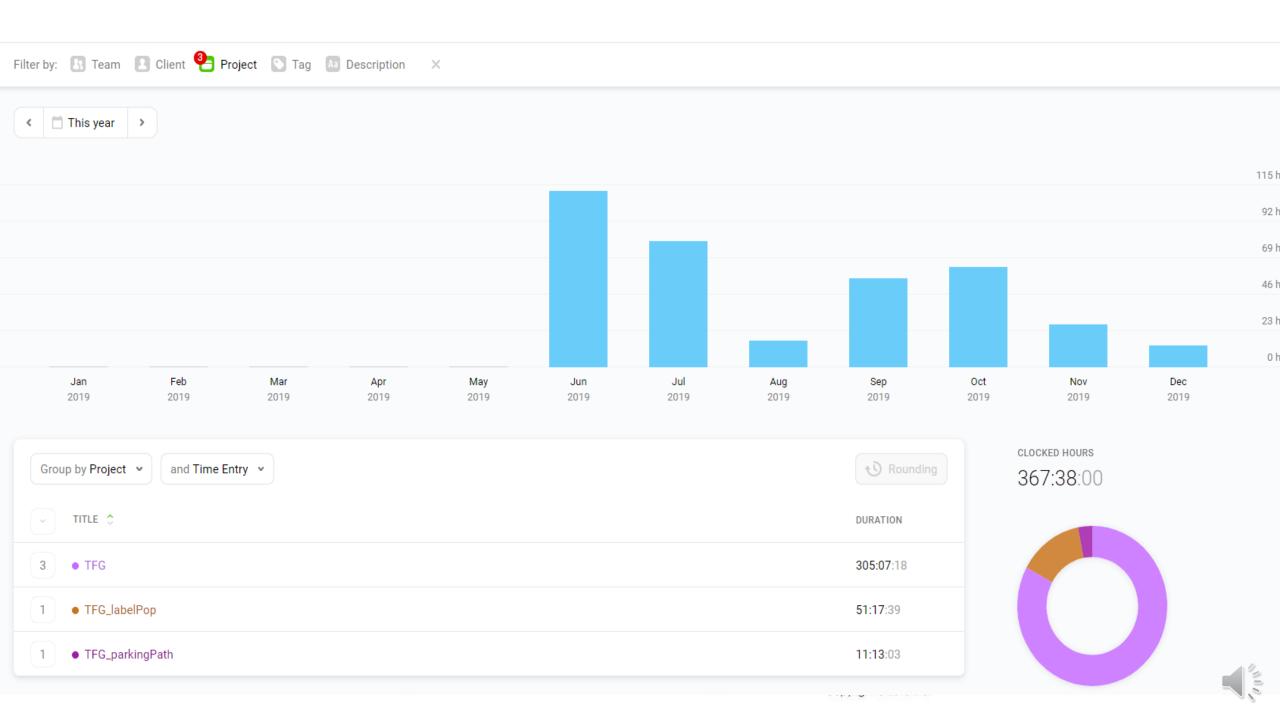


- Sprint 1
- Sprint 2
- Sprint 3
- Sprint 4
- Sprint 5

- 1. What is Ocean Protocol? (what is?)
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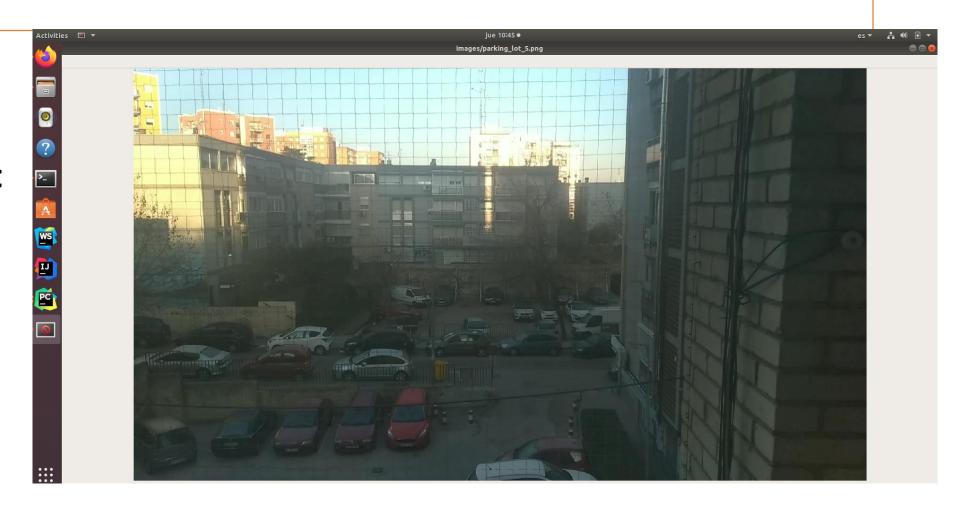






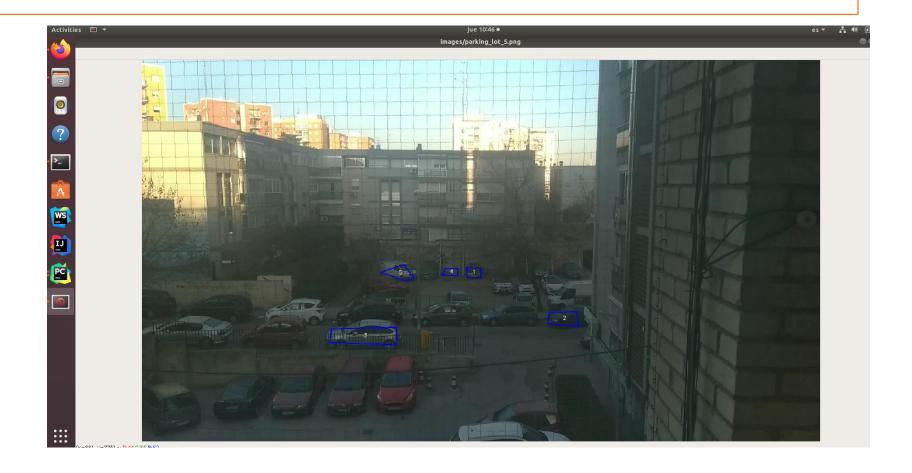
- a. Analysis
- b. Design
- c. Implement

- a. Analysis
- b. Design
- c. Implement



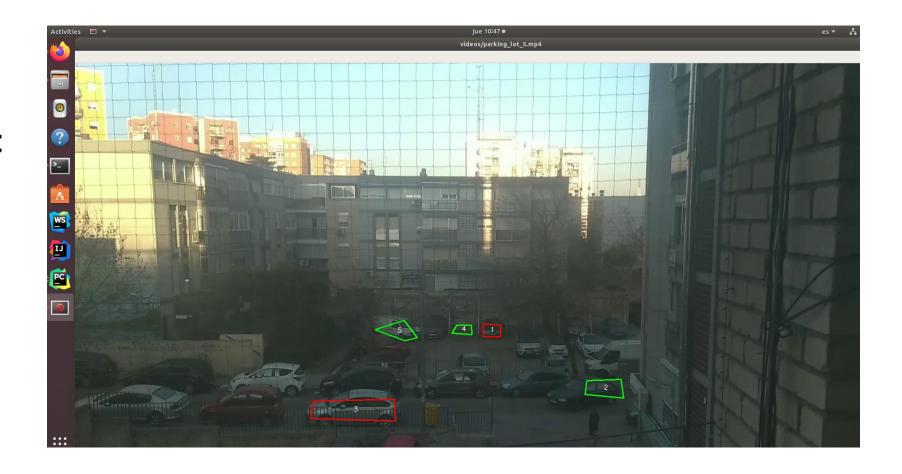


- a. Analysis
- b. Design
- c. Implement



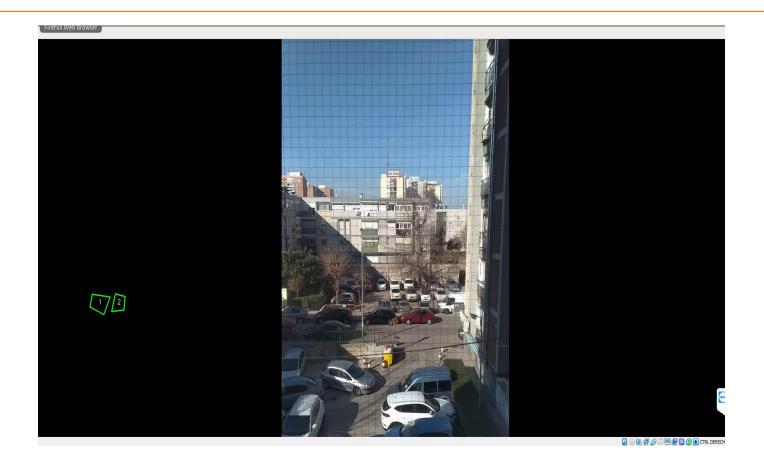


- a. Analysis
- b. Design
- c. Implement



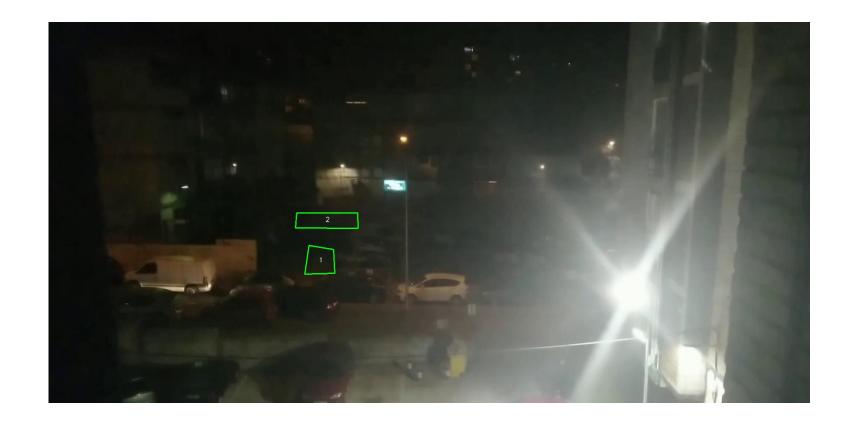


- a. Analysis
- b. Design
- c. Implement





- a. Analysis
- b. Design
- c. Implement



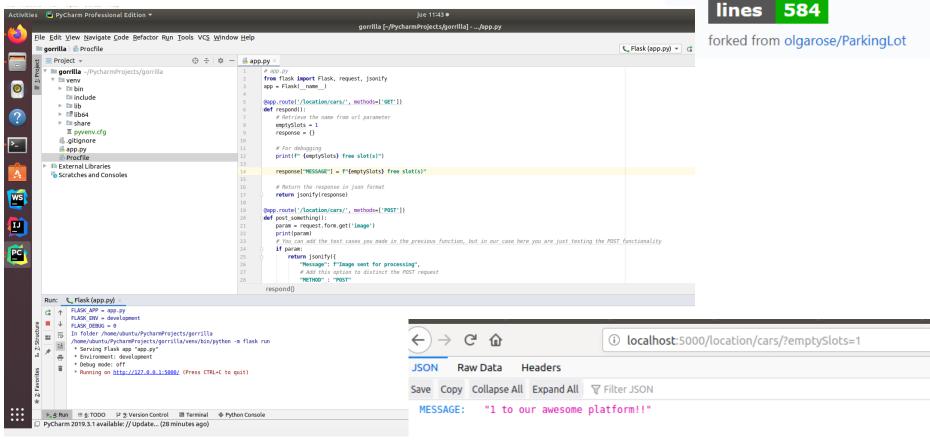


ablazleon / gorrilla
Flask base server

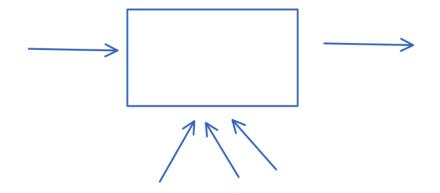
lines 67

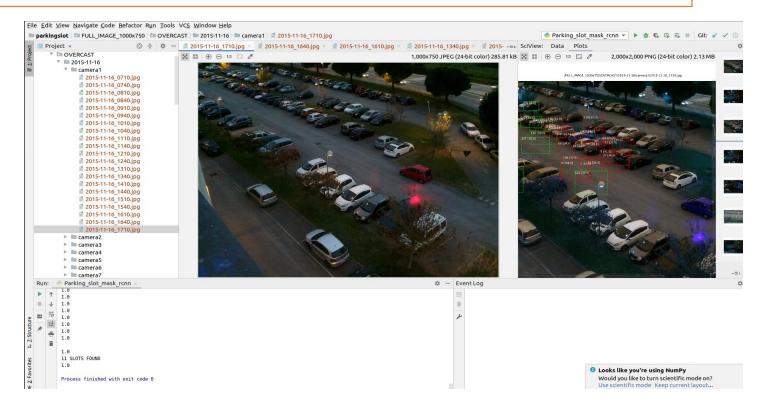
From stackabuse/welcome

- a. Analysis
- b. Design
- c.Implement 🚆

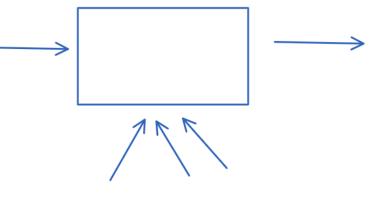


- a. Analysis
- b. Design
- c. Implement









#### Ways of exchagning data

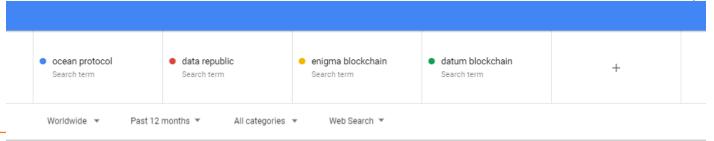
No exchange

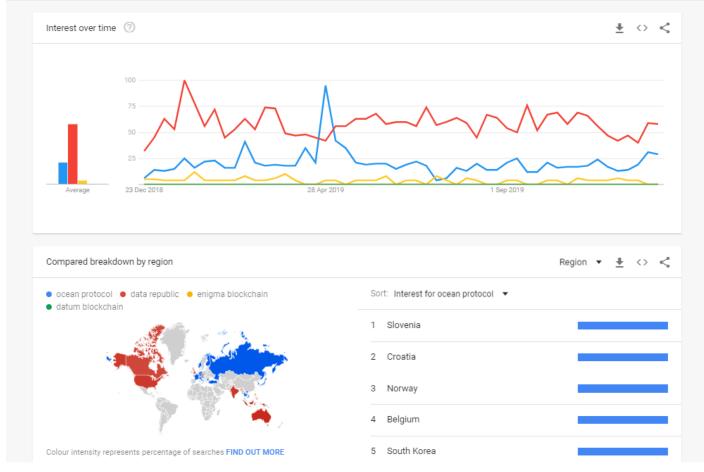
Github

Kaagle

Ocean Protocol

Rent (like Netflix )



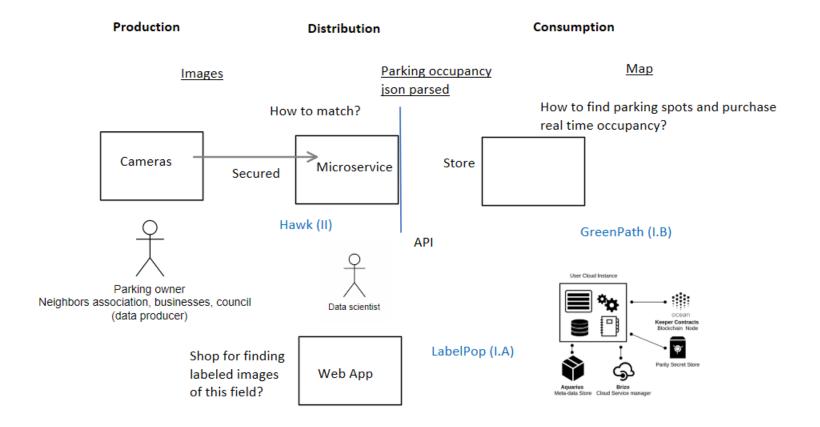


Proposals	Datum	Enigma	Data republic	Ocean Protocol	
Based in	Switzerland	United States (from Boston, MIT)	Sydney, Australia	Berlin, Germany	
What it is understood they offered?	Cloud storage as AWS S3 but with encryption.	Allow data stored to be computed homomorphically.	Not only store but track this data exchange	Store this access data in a confident strong box. Like a house property.	
Intuitive idea	Like a strongbox for data	Like a crystal panel to study data without moving it.	Like a service like Netflix	It assumes everyone has its own strong box; what allows is a wardrobe, to put the strong box key, enabling marketplaces. A registry based in distributed ledge technology. This enable marketplaces for data, as Ebay is for reused things, AirBnB for unused housesnot a maeketplace per se.	

2. Design

Epic 1: Exchange data and value for labelled images for reducing training time User Story 1: A data scientist can publish her labelled images for others to buy them

User Story 2: A data scientist can search for and purchased the labelled images she needs that has not seeing for free browsing and so is a way to avoid getting them manually





Historias de usuario:

El primer servicio, contempla dos historias de usuario (I.A.a y I.A.b). Por un lado, (I.A.a) permitir a los científicos de datos monetizar las imágenes etiquetadas al realizar el servicio de análisis de imágenes en busca de sitio (una especia de modelo Wallapop, eBay o Vinted, "si no lo usas, súbelo", pero para imágenes trabajadas). Si nos ponemos en sus zapatos, yo como científico de datos, que me cuesta almacenar estas imágenes etiquetadas en una base de datos AWS S3 20 céntimos 1 GB al año, poniendo el precio a 20 céntimos, con tal de que en un año los comprase mundialmente 5 (con Madrid 360, el auge de smart cities a nivel global . . .) ganaría 1 € por algo que iba a borrar. Eso sí, este servicio debiera también posibilitarme borrar toda la información personal de las imágenes, como caras o matrículas por las que pueda yo ser sancionado. En resumen, por motivos económicos me interesaría poder publicar en este "wallapop", e incluso cederle parte de mis ganancias.

Y por otro lado, (I.A.b) permitir a los científico de datos/entrenadores de redes neuronales que necesitan imágenes para mejorar la exactitud del análisis de parking libre, reducir el tiempo al mercado de su servicio adquiriendo imágenes etiquetadas. En general a este servicio o epic (I.A), lo he propuesto llamar LabelPop.



LabelPop

[User Story]

Permitir a los científicos de datos monetizar las imágenes etiquetadas al realizar el servicio de análisis de imágenes en busca de sitio

Demo con imágenes de CNNpark (imágenes segmentadas)

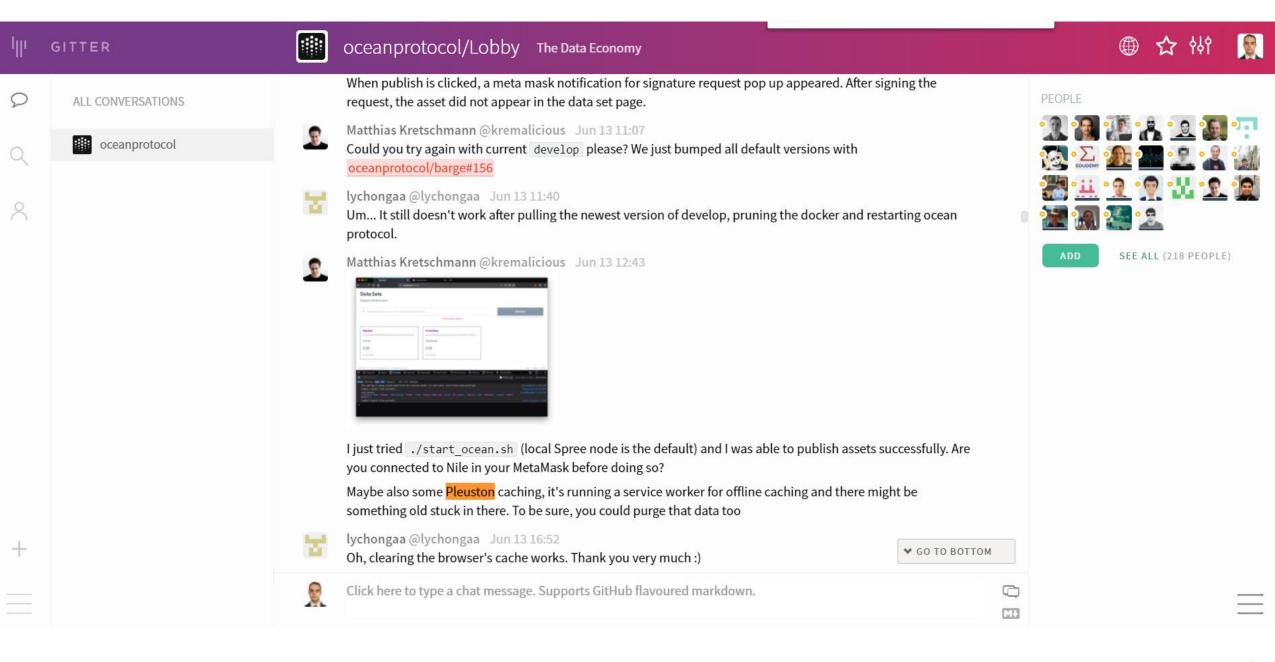


LabelPop

[User Story]

Permitir a los científico de datos/entrenadores de redes neuronales que necesitan imágenes para mejorar la exactitud del análisis de parking libre, reducir el tiempo al mercado de su servicio adquiriendo imágenes etiquetadas.







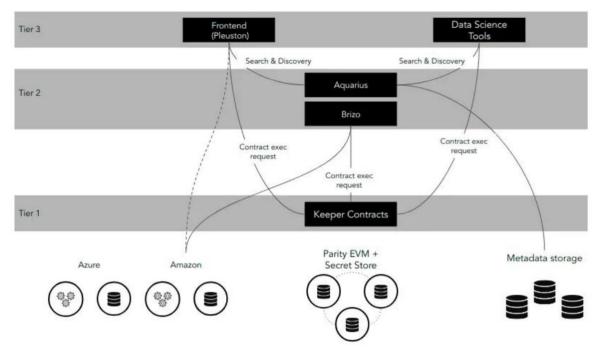
#### 3. Implementation

#### **Objectives:**

#### 3. Build and test

LabelPop

Parking slot image analyzer



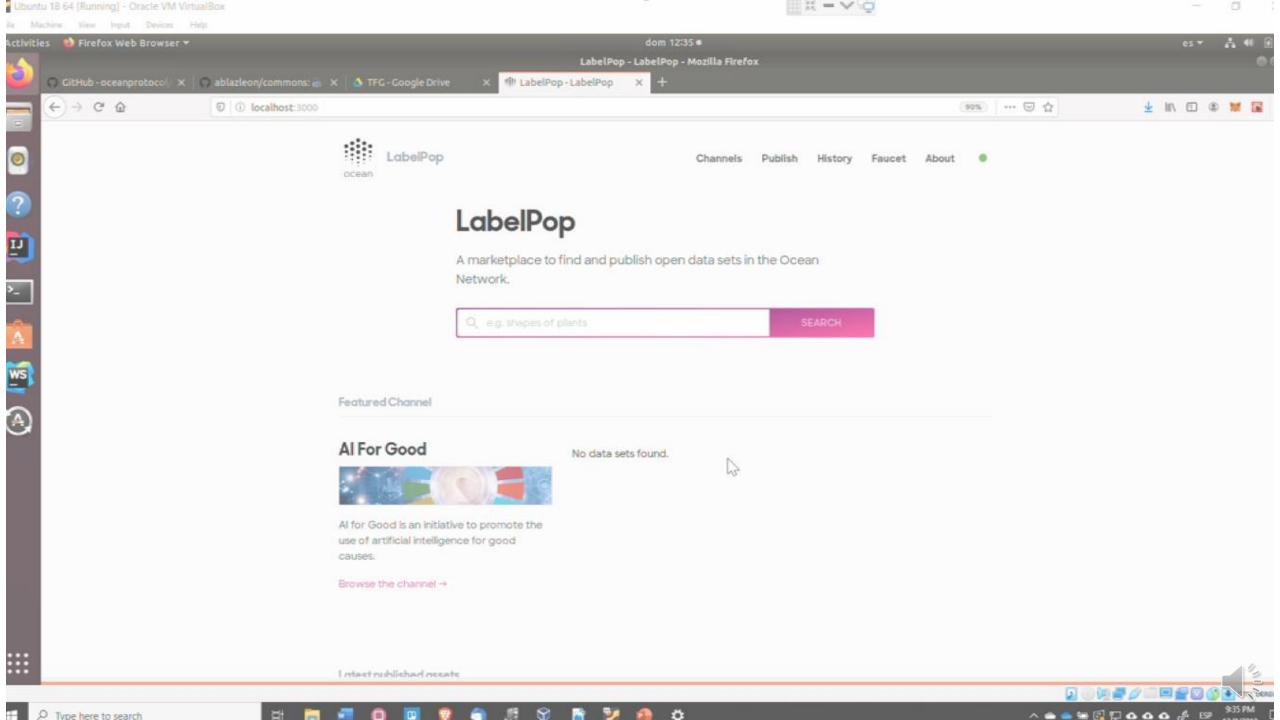


#### 3. Implementation

LabelPop
Parking slot image analyzer

		Publish dataset	Dataset search	Purchase	Price
1.	Pleuston	Yes	Yes	No (in version Oct 4, it was archived by the ocean team)	Yes
1.	Commons	Yes	Yes	Yes	No
1.	React- squid.js tutorial	Yes	No	Yes	Yes
1.	Squid-py	Not graphically, but in a cli	Not graphically, but in a cli	Not graphically, but in a cli	Yes
1.	Commons + price	Yes	Yes	Yes	Yes





From OceanProtocol/Commons

#### **Objectives:**

1. Analyze. Why echange data, Ocean Protocol & a shop? (LabelPop)

Flask base server

2. Design.

3. Implementation.

ablazleon / LabelPop
lines 57.7k

ablazleon / gorrilla
rer lines 67



Parking analyzer



#### **Conclsuions**

- 1. What i learnt
- 2. For what i am glad
- 3. Future lines



Adrián Blázquez León

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# That's all Folks! Thanks for your attention!

