

Good Fish

a sustainable seafood marketplace

<https://devpost.com/software/good-fish>

Good Fish

Where my fish taken?

Fishing gear

Species


Fisherman name

WPP715 ☒

PS ☐

YFT123 ☒

urn:epcid:pgln.00



Map showing fishing locations in Southeast Asia, including Malaysia, Indonesia, and the Philippines. The map highlights the Java Sea, Celebes Sea, and surrounding islands.

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
<EPCISHeader>
<sbdm:StandardBusinessDocumentHeader>
```

+62 XXX XXXX XX XX

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good fish


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USERNAME

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SKIPJACK





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Rp 90,000

<


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FEATURES

TUNA

1 KG

★★★★★





100% FRESH


Rp 100,000


★ to favorite

SKIPJACK

1 KG

★★★★★






Rp 90,000


★ to favorite

MACKEREL

1 KG

★★★★★





Rp 50,000

★ to favorite

Team (4 hackers)



KatLeigh11 Leigh + FOLLOW 0 projects 0 followers

Skills

r stata excel environmental-data-initiative-repository powerpoint

Interests

Blockchain Fintech IoT Lifehacks Social Good

OUR SCIENTIST!

Assisted with marine and sustainability & fisher perspectives/incentives
Passionate about DLT for coastal communities.
Get in touch to know her project, [SmallScaleOA](#).



Sherly Novianti Thahir + FOLLOW 0 projects 0 followers

Skills

javascript php photoshop mysql android-studio sublime-text adobe-illustrator css html5 html html2pdf

Interests

Communication Gaming IoT Lifehacks Machine Learning/ AI Productivity Social Good Voice skills

OUR BEAUTIFUL HACKER!

Literally preparing the beautiful interface of the marketplace.



Leonardus Litik + FOLLOW 1 project 0 followers

Skills

react solidity javascript node.js

Interests

Blockchain Social Good

OUR HARDCORE HACKER!

The one hack into the blockchain, maps, polygons, and all sort of the APIs



Dien Wong 2 projects 0 followers

Skills

sketch c c++ php mysql react-native

OUR HUSTLER!

Stitching altogether and preparing the rest of the materials.

Interests

R Blockchain Communication Gaming Lifehacks Machine Learning/ AI Social Good

Problem Statement / Inspiration

We were inspired by the problem of unsold bycatch becoming food waste. We chose to tackle this challenge to increase:

- Food security,
- Fisher incomes,
- Buyer access to fresh, local fish, and
- Sustainability.

We also wanted to our solution to have an intuitive user experience

Challenge theme(s) covered: [Extra Harvest Marketplace](#), [Catch Area Tokenization](#), and [High-value Seafood Passport Token](#)

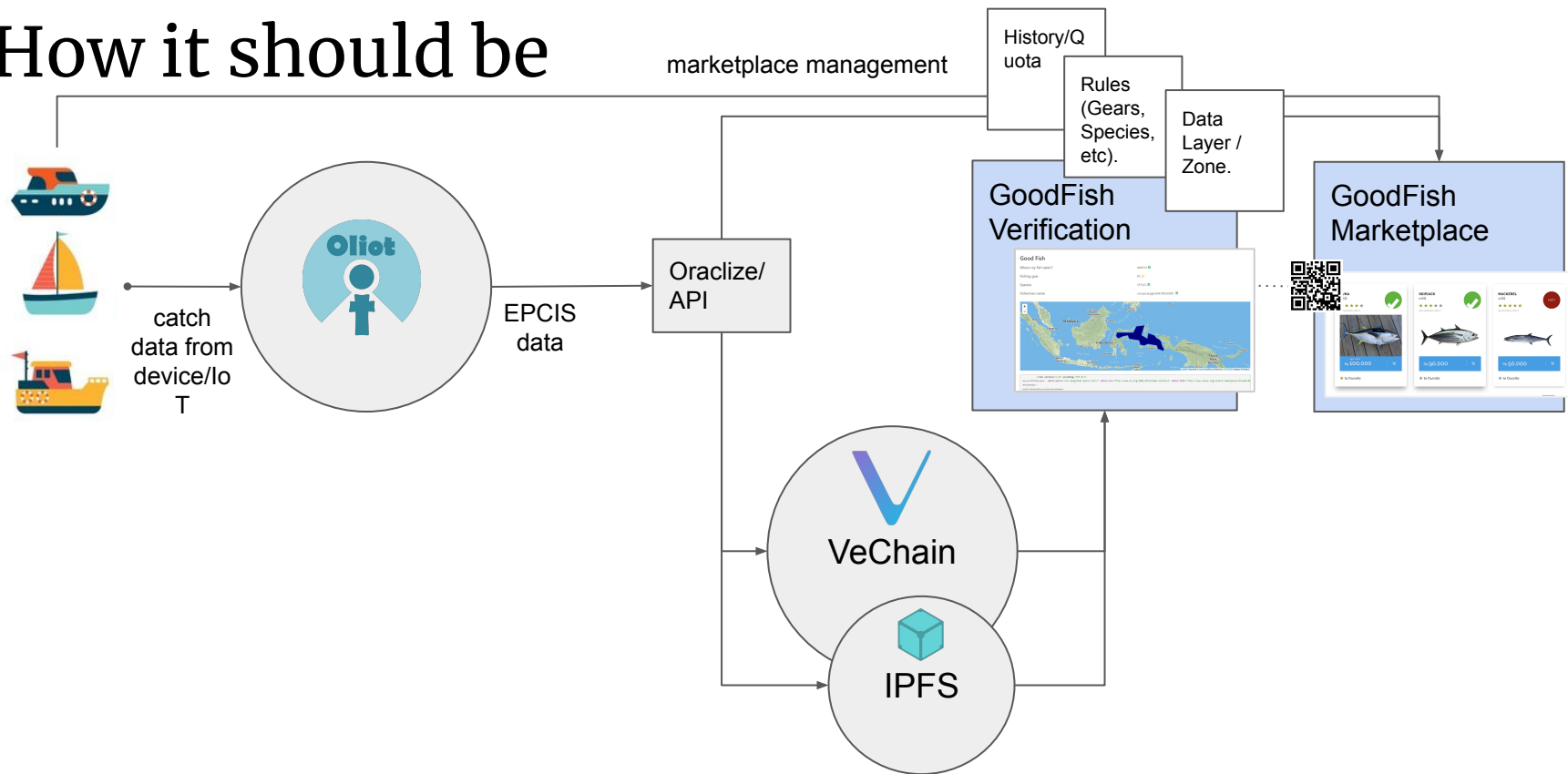
The (hacky) Solution

We built a sustainable marketplace to connect buyers directly to fishers. The fisher may register bycatch into the system, and get listed into the marketplace. With connectivity, they will be able to see their listings and sales, and to interact with buyers.

The catch information is saved in the blockchain to increase accountability and security. It's saved in the EPCIS format to ensure high interoperability. A sustainability verification layer is included which checks the submitted bycatch data against pre-defined sustainability rules. For this demonstration, these rules check a database for violations of:

- A. Fishing grounds,
- B. Fishing gears, and
- C. Species (whether the bycatch item is an endangered species or not).

How it should be



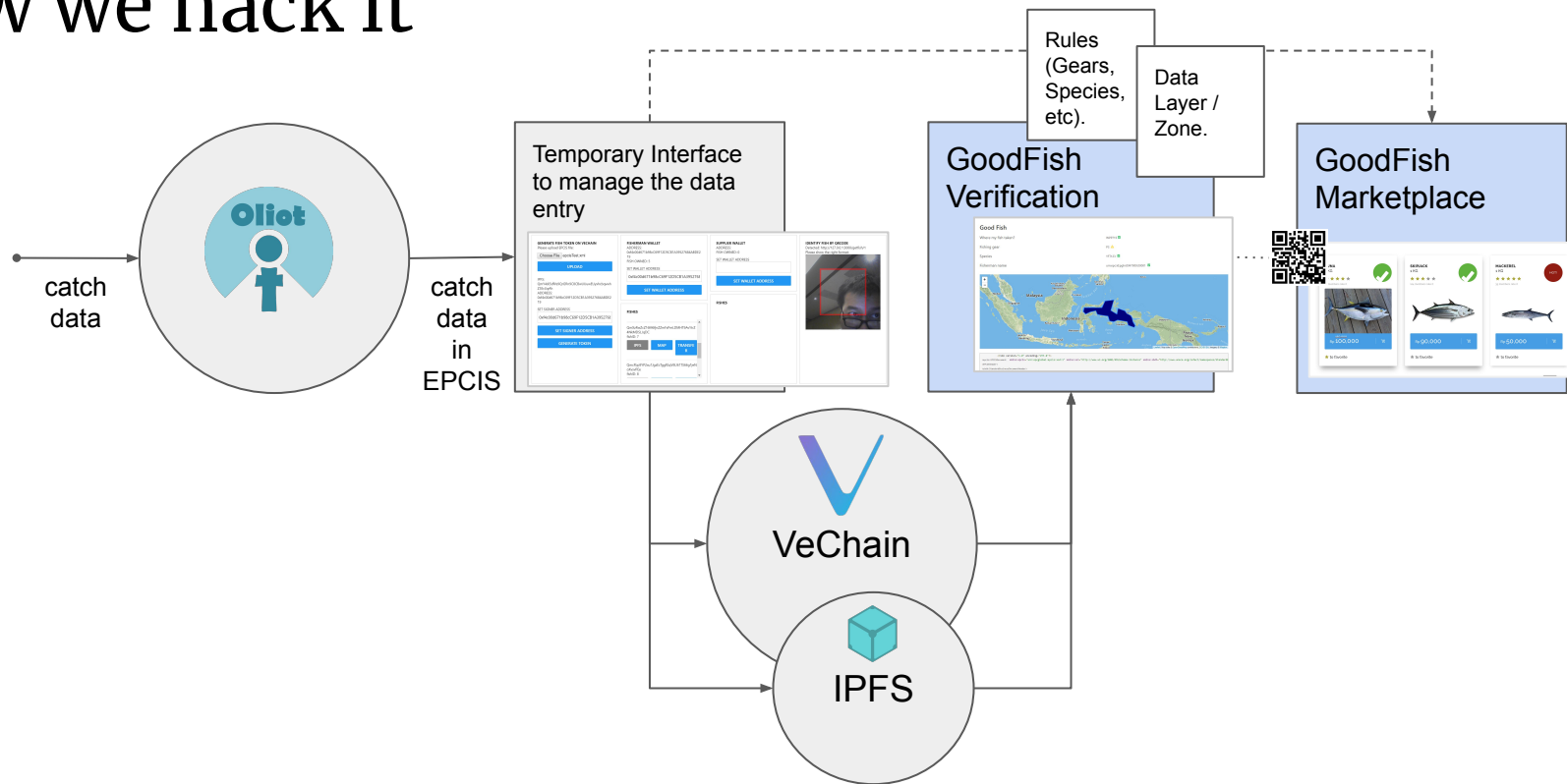
OLIOT enable interoperability by wrapping data into EPCIS format



blockchain data for accountability



How we hack it



OLIoT enable interoperability by wrapping data into EPCIS format



blockchain data for accountability



What's Next

- Connect the entries from a device (VMS, AIS, etc) to have an untampered location.
- Switch from Buy to Auction model.
- Enhance with the fisherman dashboard, so they can interact with the product and buyer as long as they have the connectivity.
- Incorporate more seafood products with their sustainability rules to provide the information to the buyer and fisherman.
- Related to the sustainability rules, more data layer can be added (Mangrove maps for shrimp products).
- Related to the sustainability rules, fisherman catch history/quota can be considered.

enjoy the demo

THANK YOU

Temp Slides, Scenario

No	fisher	Vessel Fishing Gear	Species	Location		Legality
1	A	HL	Tuna - YFT123	715		v
2	B	HL	SkipJack - SKJ123	715		v
3	A	HL	Mackerel - RAG123	716	Wrong Fishing Area	xx
4	B	HL	Shark - BSH123	714	Wrong Species (Endangere d)	xx
5	B	PS	Baby Tuna - YFT123	714	Wrong	xx