



## Towards an Al Commons

@oceanprotocol Trent McConaghy



# SUSTAINABLE GEALS









#### **AI + Satellite projects**



# Tracking livestock to reduce conflict

/ Micro insurance for crops



#### **AI + Smart Communities**







# AI FOR GOOD SUMMIT





## Q: can Al help? A: Yes! #AlforGood





# Q: can Al help? A: Yes! #AlforGood But...











## Scaling #AlforGood







#### **Connective tissue: public utility network**



## Blockchains are public utility networks





Blockchain public utility network for the AI Commons





Have data	Have Al (Want data)	Have data	Have data	Have Al (Want data)
Have Al (Want data)	Have data	Have Al (Want data)	Have Al (Want data)	Have data
Data marketplace	DM	DM	DM	DM
DM	DM	DM	DM	DM
DM	DM	DM	DM	DM
DM	DM	DM	DM	DM

Catalyze the commons *and* profit-making, via a substrate for a thousand marketplaces to bloom.

Block rewards to incentivize data supply Add to data commons, make \$

## Preserve privacy: bring AI compute to the data



XPRIZE



# Framings

## "Al Compute Pipeline"



## "Decentralized Orchestration"



## "SABRE for data"

SABRE is metadata/substrate for airline tickets. Ocean, for data itself.



# User Experience

#### **Keep Data Science Tooling, Add Crypto**







#### Every dataset is an asset. Every Jupyter notebook is an asset (!)

ocean	Ocean	► KillTheHumans	5 Datasets	View		Login 🔒					
	Marl <mark>KillT</mark>	ketplace heHumans	KillThe orde data	Humans is a ma r to eradicate p must be input version 2.8.	ocean	7845.12 OCN <sup>My Token Assets</sup>	11	Datasets	1 OCN Dataset Si	= 0.12 ETH election and Token Supply vs Cc	Diminator 🛔
	1	Dataset 78XcYT9 Laser Target Practice Exercises	Publisher Name: Lazerdrone Ltd. Date Published: 03-08-2019	LAZ	NTT 102.10 RED 0.45 INT 45.38 ZAP 10.00 NTT 100.00 ACC 22.45	KIO 55.00 OSC 0.80 IOX 1.00 BAR 4523.12 URD 200.00			Dataset 78XcYT9	Marketplace <mark>#Name</mark>	Ranking 7
	2	Dataset 87ertHG Facial Recognition Data	Publisher Name: VoyeurDrone Inc. Date Published: 20-06-2018	VOY	My 02 Dataset 0XbiikA	7 Dataset Portfolio	4210 OCN				▲ +4.5% Current
	3	Dataset 000x567 Thermal Sensor Data	Publisher Name: Predator Movement Date Published: 31-09-2022	ктн	10 Dataset 0XhjijkA 04 Dataset qfij875	<ul> <li>→ -0.5%</li> <li>2.47k RED</li> <li>→ +2.1%</li> <li>5.89k INT</li> </ul>	01.10 OCN 30.10 OCN			9.20 OCN 2.99k AAC	
	4	Dataset 96zERC Human Locations based on IP	Publisher Name: SkyNet Date Published: 09-11-2020	KLO	08 Dataset x00C475 02 Dataset 0XhjijkA	▲ +5.2% 0.20k ZAP	42.10 OCN 40.10 OCN				Future 9.25 OCN 3.04k AAC
	5	Dataset <mark>254phyY</mark> Human Biological Weaknesses	Publisher Name: The Overmind Date Published: 28-06-2016	REX	07 Dataset 78XcYT9 02 Dataset euyijC88	▲ +4.5% 2.99k AAC	9.20 OCN 38.26 OCN		<	vest (+) or Withdraw (-)	
	6	Add your dataset her	e and be	ecome p	10 Dataset 78eyujP 19 Dataset 0XhjijkA	<ul> <li>→ -4.6% 0.45k OSC</li> <li>→ -2.3% 4.23k IOX</li> </ul>	42.10 OCN 22.47 OCN		Confirr	n Transaction	
				_	<ul><li>22 Dataset AA854cv</li><li>03 Dataset 0XhjijkA</li></ul>	<ul> <li>▲ +0.4%</li> <li>▲ +1.8%</li> <li>8.23k URD</li> </ul>	42.10 OCN 10.24 OCN				
							_				

### New powers for data scientists

- Way more data. Data commons. Enterprise data without data escapes via on-premise compute.
- **Provenance** in data & AI training. Goodbye data honeypots.
- More \$. For generating data. For cleaning, labeling, feature engineering data. For algs. For curation.



# Applications

#### Use case: water quality

#### Satellite data in the commons to verify impact of forest restoration on water





Better predict Parkinson's by connecting data across hospitals & borders; promoting & promoting research collaboration (ConnectedLife)



Grow Asia (WEF Spinoff): Help small farmers allocate their fertilizer better, to increase yields



Govt of Singapore Data Authorities (IMDA): Give policymakers optionality to get benefits of AI, while addressing privacy



**Fred Werner** @fredwerner73

Following

V

On stage at World AI Summit with @xprize @FondationBotnar @SColesPorter @trentmc0 @frossi\_t announcing #Alcommons and @ITU #Aiforgood Global Summit. Big congrats to @SColesPorter and team for another amazing #wsai18!!



#### Al Commons: With ITU, AI XPRIZE, Ocean Protocol

# User Experience II

#### https://datascience.oceanprotocol.com

## Manta Ray

ocear

#### Data Science powered by Ocean Protocol

The **Manta Ray** notebooks provide a guided tour of Ocean Protocol in an interactive Jupyter Notebook environment. Start using Ocean Protocol with your own pre-configured and loaded cloud instance after login with your GitHub account.

**This project is in alpha!** Feel free to ask questions and post bug reports in **our Gitter channel**. Notebooks are for tutorial and demonstration purpose only. Notebook instances may be periodically offline, and storage volumes will be purged.

JupyterLab Instance



🗰 Ocean Protocol 🗙 🛛 🏭 Tools & Example 🗙 👫 Quickstart - Oce	× Jupyter Notebo⊂ ×   ☐ Manta Ray — O⊂ ×   ⊃ JupyterLab ×   ∰ Overview of the ×
← → C	rt/ 📩 🔂 🔽 🔀 🔊 💷
QUICKSTART	<pre>git clone https://github.com/oceanprotocol/barge.git cd barge/</pre>
Run & Try Everything	

MARKETPLACES

Set Up a Marketplace

#### PUBLISHERS

Publish Data or Services

**KEEPERS** 

Run a Keeper

./start\_ocean.sh --latest

Seeing the dolphin means it's working:

đ

\_

 $\times$ 

Get info: oceanprotocol.com Get code: github.com/oceanprotocol Get help: gitter.im/oceanprotocol/Lobby

# Conclusion



# Q: how to scale #AlforGood? A: Blockchain public utility network for the Al commons

Trent McConaghy @trentmc0

