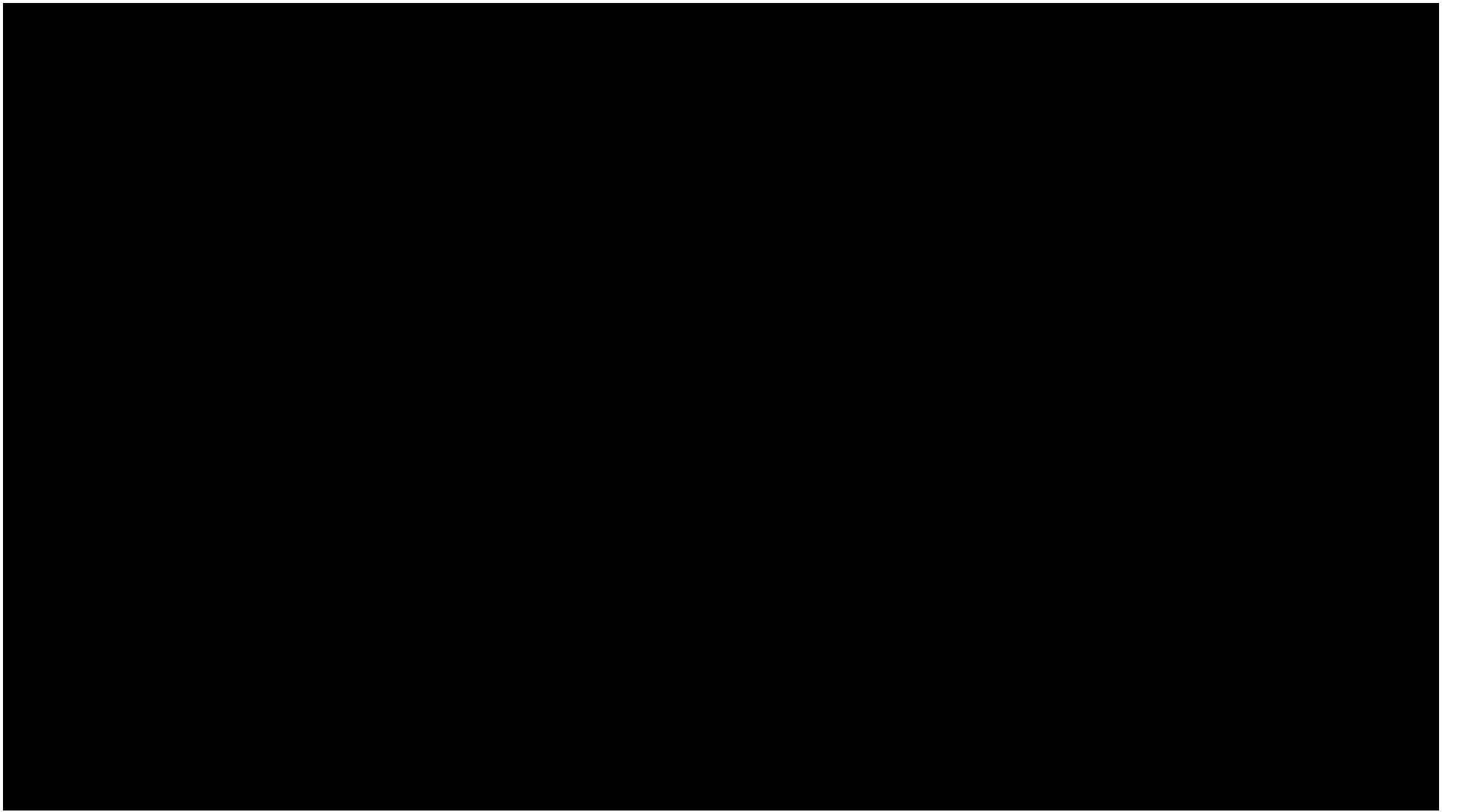




Xomnia Datathon

Analyzing fishing data to improve sustainable fishing





Problem

- Overfishing leads to a ton of problems



- To formulate working policies proper data is necessary



- Data is lacking and poorly organized



- Question: How to generate more organized data?

SOLUTION

- Generate data via crowdsourcing and technology
- Organize, consolidate and clean data

Bycatch

- 17% of caught animals is bycatch
- Hardly any data available

BLUPP

GAMIFICATION DATA COLLECTION

- Photos collected from fishermen and researchers
- Photos classified by crowdsourcing via game application
- Trained model used for bycatch classification



NOT KNOWN

Turtle	0.8
Cod	0.15
Haddock	0.05

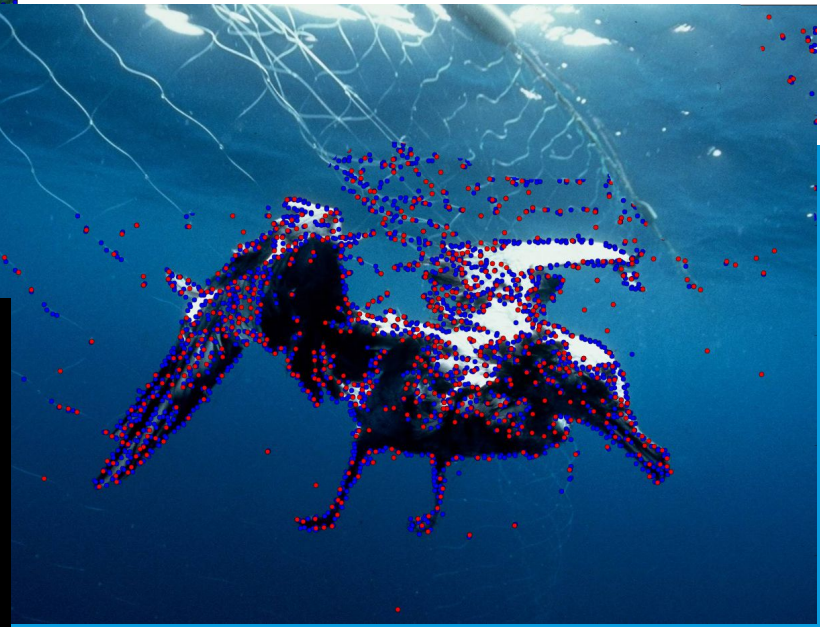
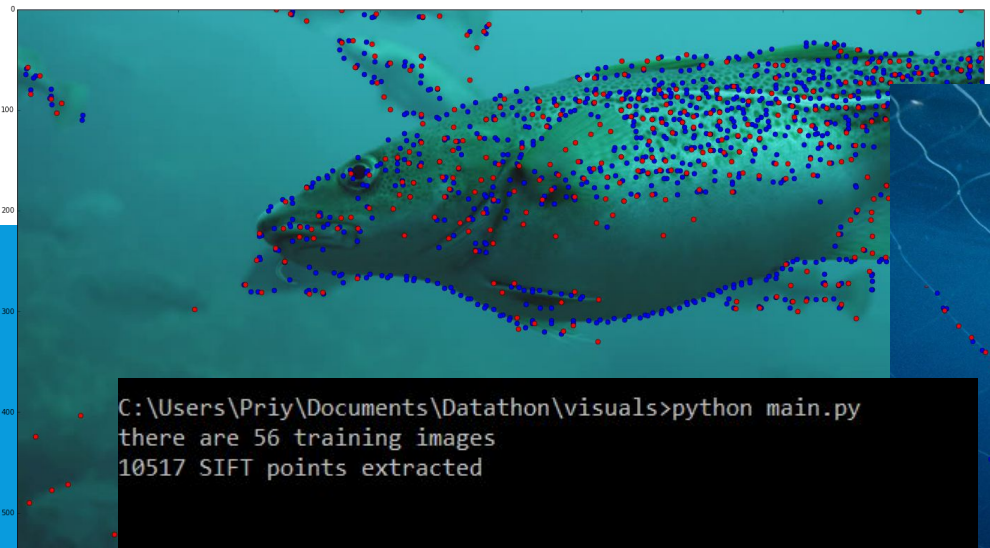
KNOWN



TURTLE

TRAINING DATA

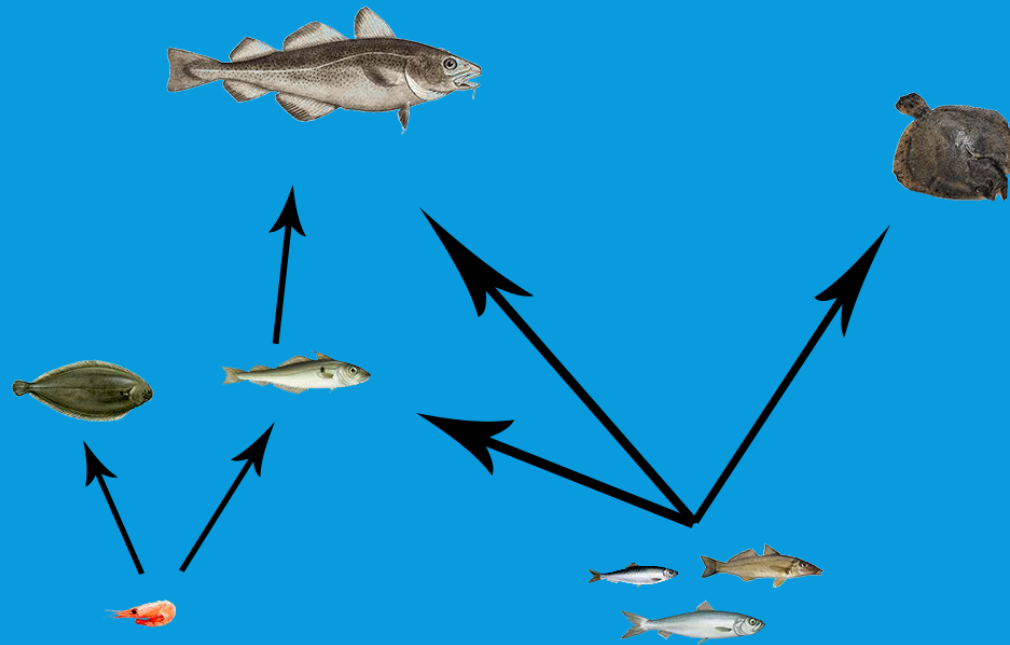




```
C:\Users\Priy\Documents\Datathon\visuals>python main.py  
there are 56 training images  
10517 SIFT points extracted
```


North SEA fishing ecosystem

FISHUALIZATION



Atlantic fish map

- Visual information about fishing from different years and fish
- Get insights into effects of time and other fish on population
- Upgradable with more statistics and dynamic movement

CONCLUSIONS AND RECOMMENDATIONS

- Data is important to combat overfishing
- Data gathering via mobile quiz game
- Data shows promising insights

Questions

