



# Drones



## UNEP Challenge

START Hack 2022





# Problem



76 B. dollar  
damage



13 500 deaths



No warning information



# Solution B2B



Gathering data



AI data analysis



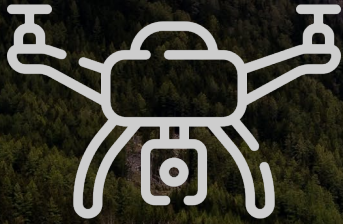
DaaS

# Prevention





# Solution B2C



Gathering data



AI data analysis



Warning app



# Capturing data



Weather data



Drone data



Satellite data



Data analysis



# Data flow

Capturing data  
with satellite  
information



Capturing data  
with drones and  
LiDAR ->Service  
for red zones



AI algorithm for  
probabilities



Notification app



Sell data to  
governments,  
insurance,  
property



prevention



# Algorithm improvements

- Upsampling data
- Light GBM classifier

```
LGBMClassifier F1 score on the X_test is: 0.94219826295298
```

```
Confusion Matrix:
```

```
[[1494 152]
```

```
[ 41 1573]]
```

	precision	recall	f1-score	support
0	0.97	0.91	0.94	1646
1	0.91	0.97	0.94	1614
accuracy			0.94	3260
macro avg	0.94	0.94	0.94	3260
weighted avg	0.94	0.94	0.94	3260



# Data customers

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Real estate



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Insurance companies



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Private individuals



# Business model

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Data a service



# Road map

## Warning App

- Satallite data
- AI algorithm



## Drone Service

- Collecting data with drones
- Much better probabilities



## Providing data to others

- Providing data to companies and institutions



# USP



easy to handle



fast information



precise data





# Drones



## Save lives from Landslides

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