



# Drones

## UNEP Challenge

START Hack 2022



# Problem



76 B. Dollar  
Damage



13 500 Deaths



No warning information

# Solution B2B

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Gathering data



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AI data analysis



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DaaS

# Prevention

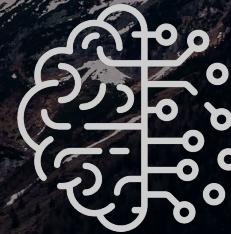


# Solution B2C

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Gathering data



AI data analysis



Warning app

# Capturing data



Weather data



Gathering 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

prevention

Sell data to  
governments,  
insurance,  
property

Notification App



# Algorithm improvements

Upsampling data

Light GBM classifier

	precision	recall	f1-score	support
0	0.97	0.88	0.92	1646
1	0.89	0.98	0.93	1614
accuracy			0.93	3260
macro avg	0.93	0.93	0.93	3260
weighted avg	0.93	0.93	0.93	3260

# Data customers



Real estate



Insurance companies



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 lifes from Landslides

## Landslides

START Hack 2022

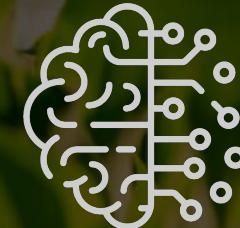
# Lösung



Autonome Drohnen  
sammeln Pflanzendaten



Bildverarbeitung analysiert  
Pflanzendaten



KI-Software wertet  
die Daten aus



Landwirt überblickt alle  
Daten & Empfehlungen

# USP

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Unkomplizierte  
Einarbeitung



Schnell & Einfach



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Präzise  
Auswertung

# Geschäftsmodell

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Drohnenhardware  
Einzeltransaktion



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Software  
Abomodell



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Wartungsrabatte &  
Berichte  
Clubmitgliedschaft