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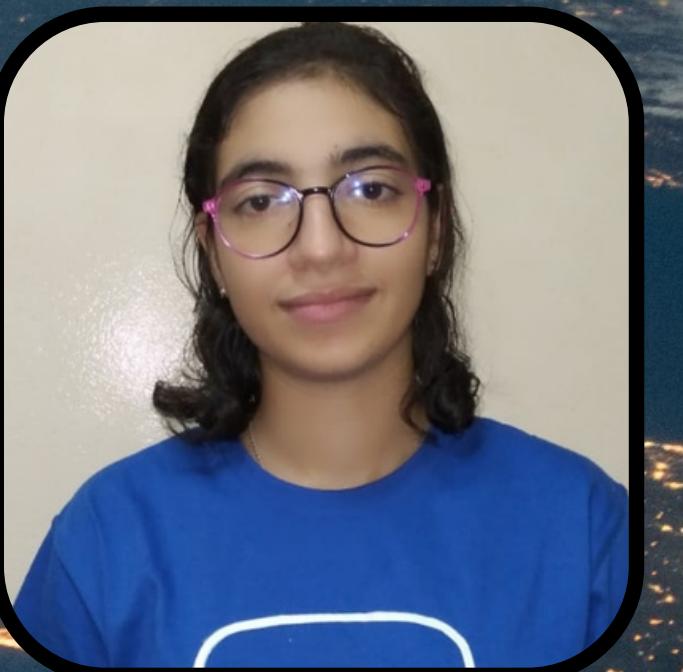
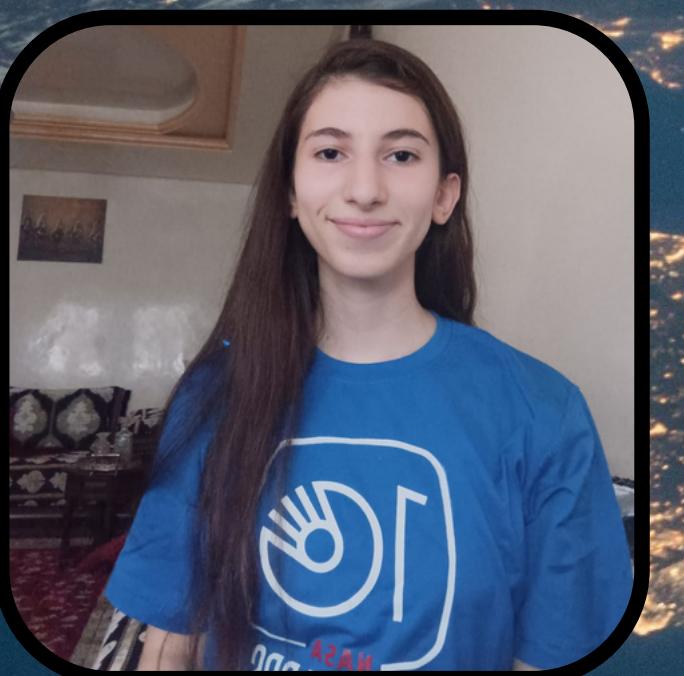
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Warning! It's Warming . . .

- Climate Hackers

Meet the Team...



**Acile
Chahboun**

Resources Investigator

**Salma
El Barbori**

Software Developer

**Oussama
Hichou**

Team Leader

**Nouhaila
Innan**

Data Scientist

**Akram
Bellouk**

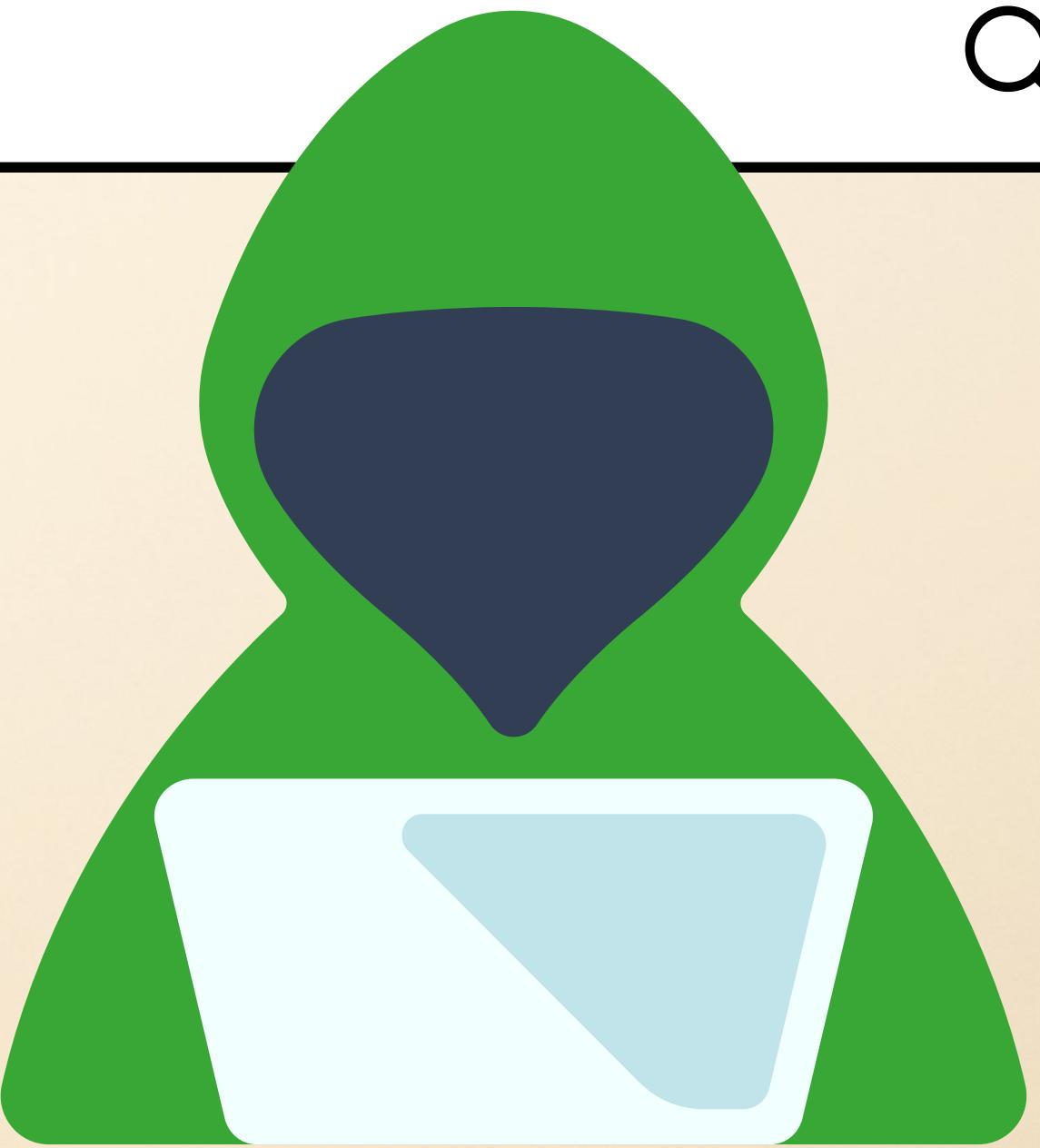
Hardware Developer

Meet the Team...



CLIMATE HACKERS

WE HACK FOR THE CLIMATE



Climate Change



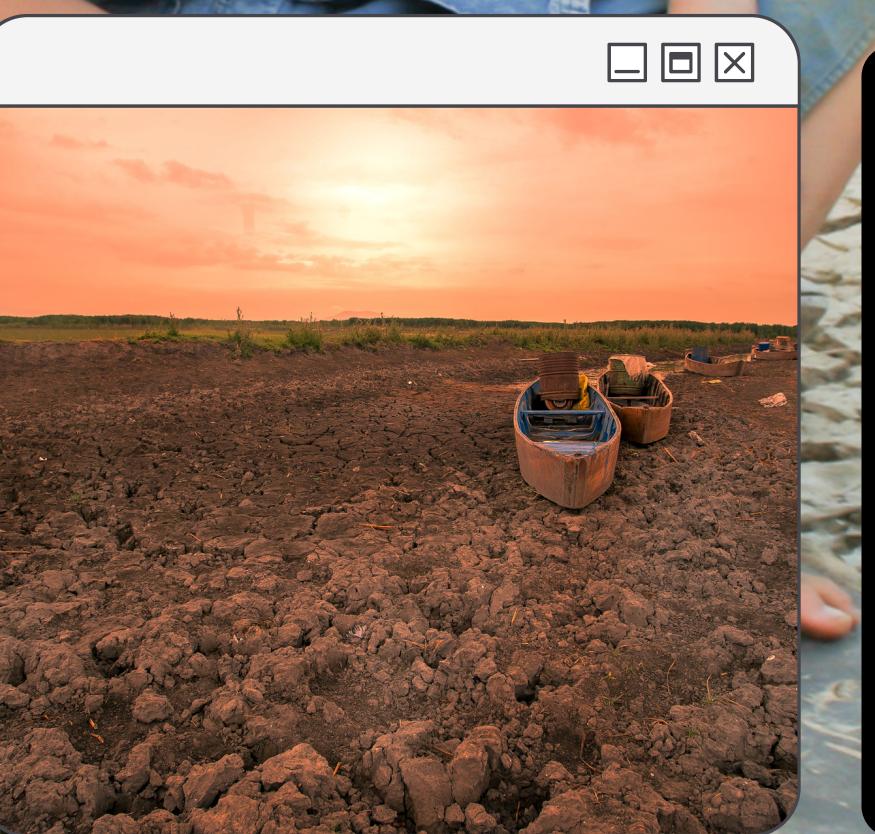
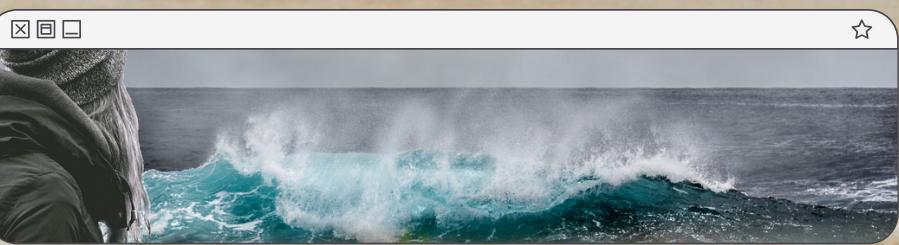
Global Warming & Heat



Global Warming & Heat



Global Warming & Heat



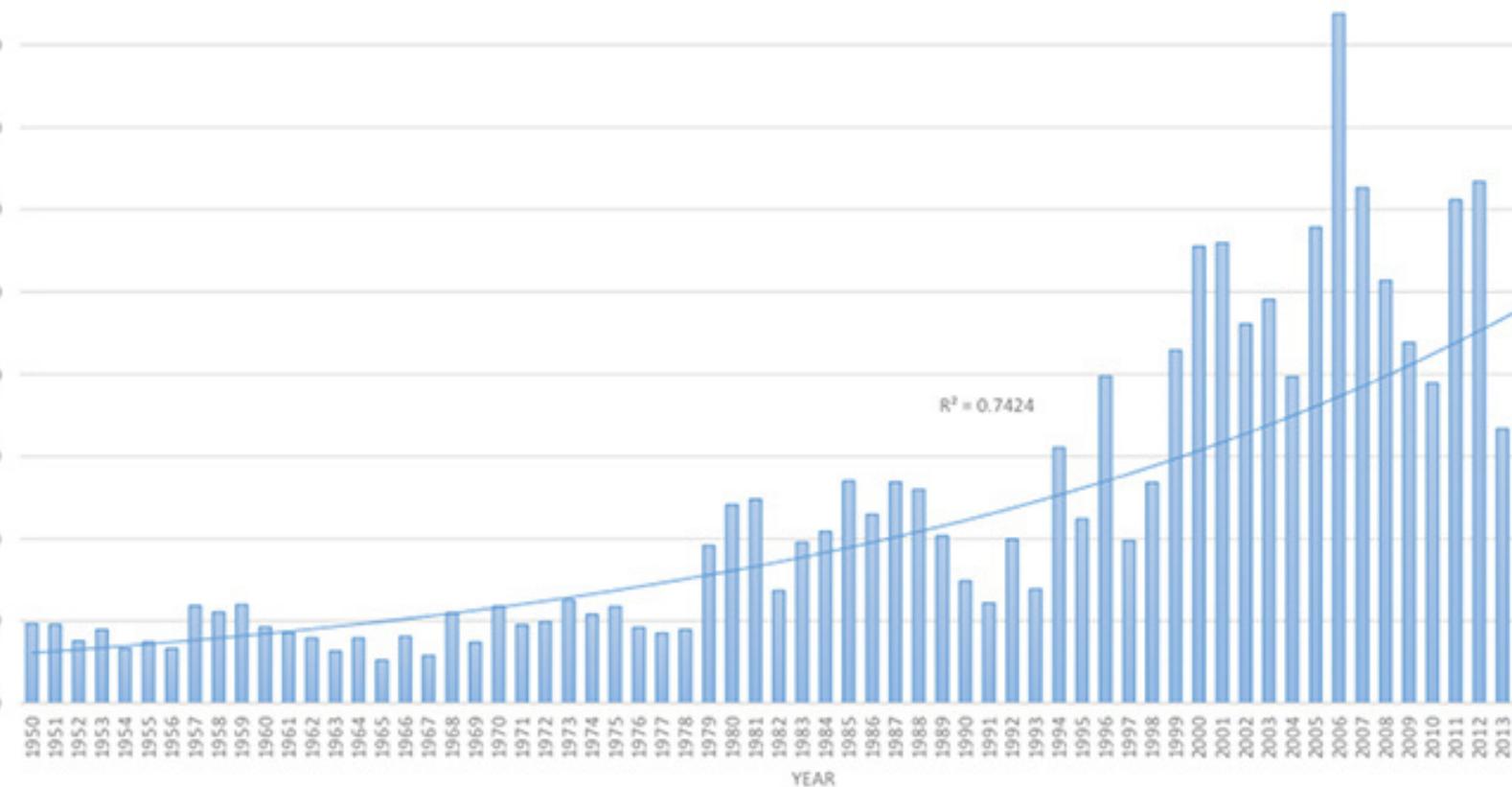
Statistics



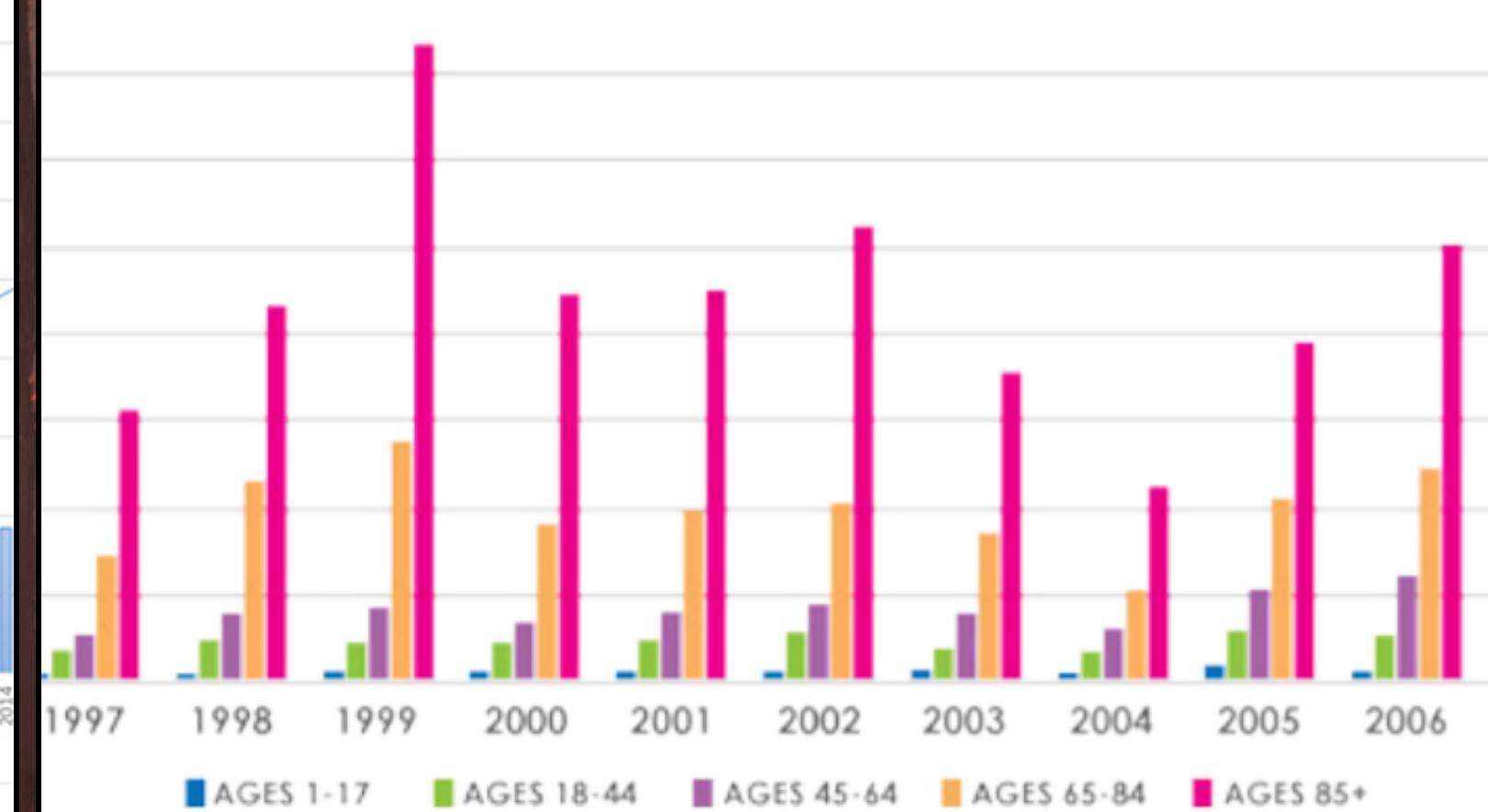
Statistics



X — Source: NASA RECOVER/Keith Weber



X —



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The evolution of number of fires in the western U.S.



Crude Rate of Hospitalizations for Heat-Related Illness in the U.S.

A photograph of a massive forest fire. The scene is filled with thick, billowing smoke that has turned the sky a dark, hazy orange. In the foreground and middle ground, numerous tree trunks stand tall, their bark charred black. Intense orange and yellow flames are visible at the base of many trees and in the lower right corner, where they appear to be spreading across the ground. The overall atmosphere is one of a major, uncontrollable wildfire.

Action Plans?



So, what do we need?



Warnings

Guidance

Easy/Fast Access to DATA

...



Ding! Ding! Ding!

We might have a solution...

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Warning! It's Warming . . .

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WARMNING

WARNING! IT'S WARNING...



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Warnings -> Notifications

Guidance -> Emergency Guide

Easy/Fast Access to DATA -> User Friendly Interface



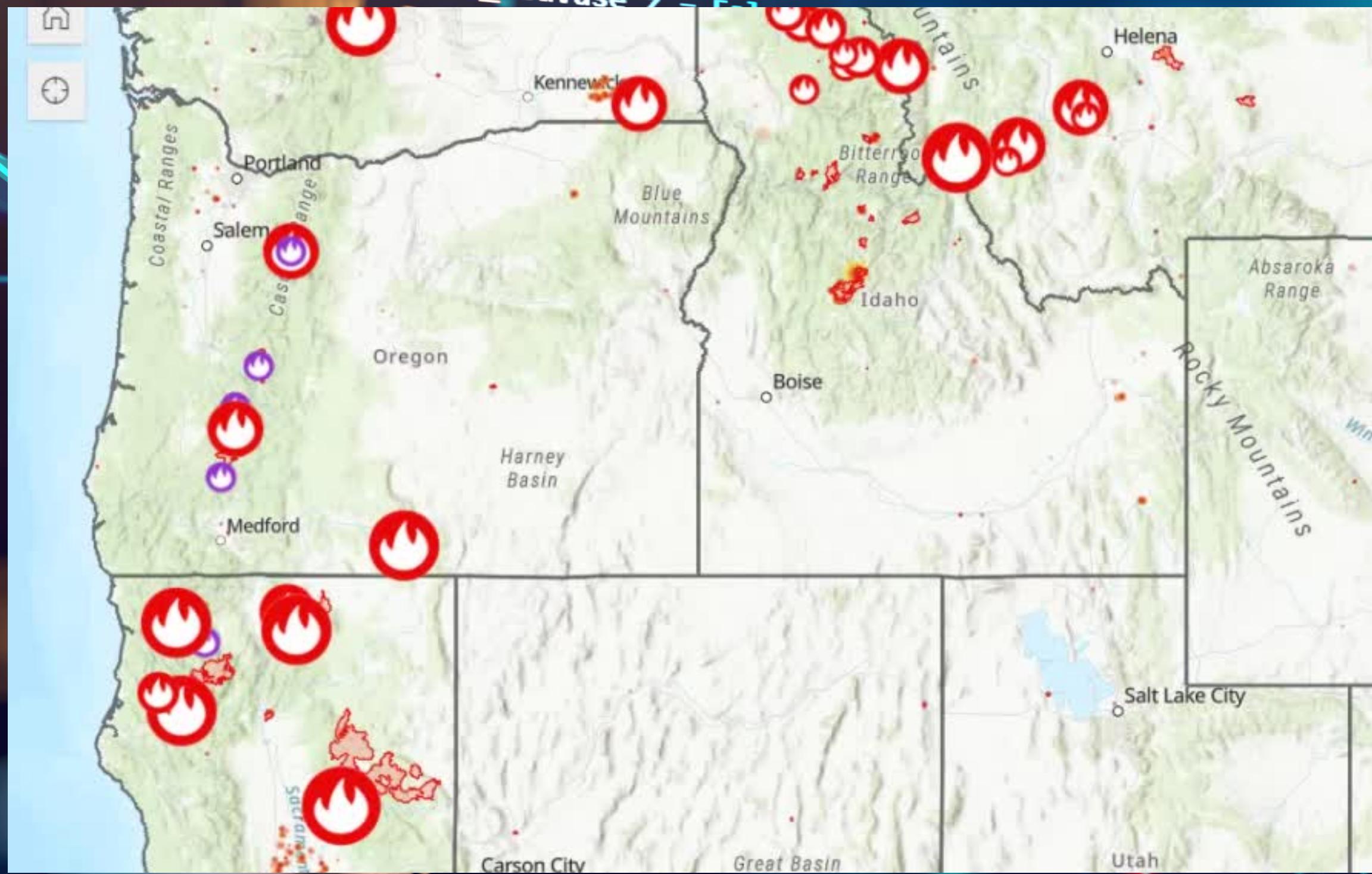
Salma

El Barbori

Software Developer

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Preview : Warming

English | Français | Español | العربية



WARMING
WARMING/WARNING

Guest

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If you are one of our partners please click here to login.

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Earth Observation



Hardware



Crowdsourced



Other



<https://warming.earth/data/HW>

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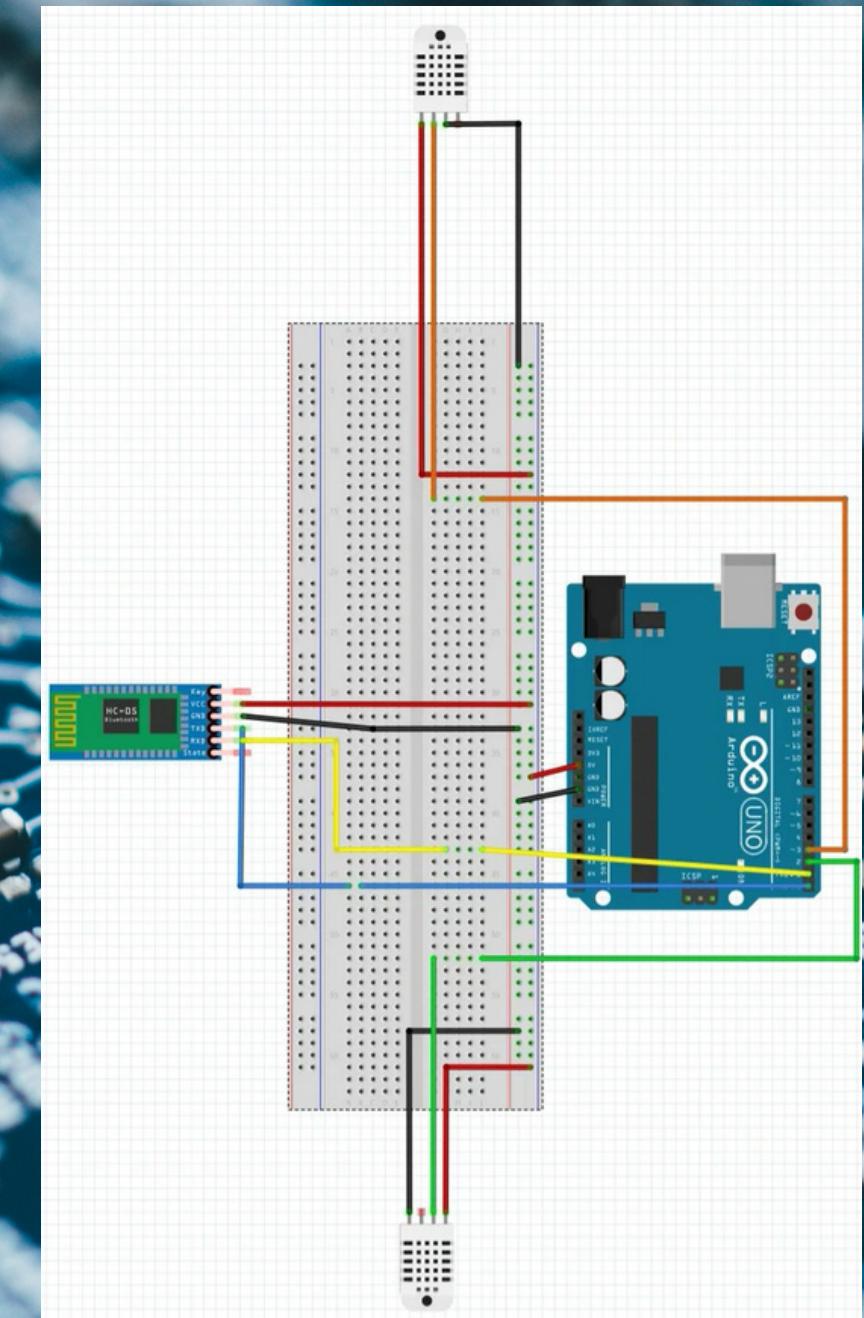


Earth Observation

Crowdsourced

Hardware

Other



Akram

Bellouk

Hardware Developer

<https://warmning.earth/data/HW>

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1

```
#include "DHT.h"
#define DHTPIN 2
#define DHTTYPE DHT11
DHT dht(DHTPIN, DHTTYPE);

const float c1 = -8.78469475556
const float c2 = 1.61139411
const float c3 = 2.33854883889
const float c4 = -0.14611605
const float c5 = -0.012308094
const float c6 = -0.0164248277778
const float c7 = 0.002211732
const float c8 = 0.00072546
const float c9 = -0.000003582

void setup() {
  Serial.begin(9600);
  dht.begin();
}

void loop() {
  float humidity = dht.readHumidity();
  float temp = dht.readTemperature();

  float heatIndex = c1 + (c2 * temp) +
    (c3 * humidity) +
    (c4 * temp*humidity) +
    (c5 * (temp*temp)) +
    (c6 * (humidity * humidity)) +
    (c7 * (temp * temp) * humidity)
    (c8 * temp * (humidity * humidity))
    (c9 * (temp * temp) * (humidity

  Serial.print("H: ");
  Serial.print(humidity);
  Serial.print(" | T: ");
  Serial.print(temp);
  Serial.print(" | ");
  Serial.print(heatIndex);

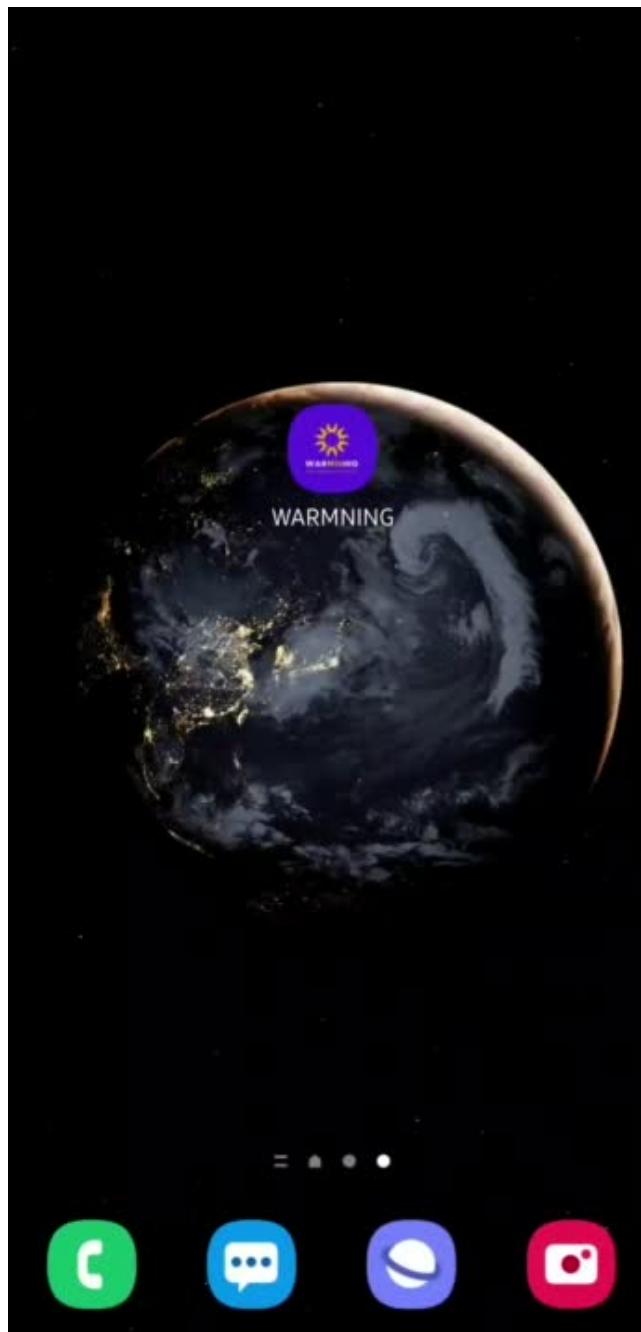
  if(heatIndex<20) Serial.print(" - No Heat Stress");
  else if(heatIndex<23) Serial.print(" - Light Heat Stress");
  else if(heatIndex<27) Serial.print(" - Moderate Heat Stress");
  else if(heatIndex<33) Serial.print(" - Heavy Heat Stress");
  else if(heatIndex<41) Serial.print(" - Severe Heat Stress");
  else Serial.print(" - Deadly Heat Stress");

  delay(1000);
}
```

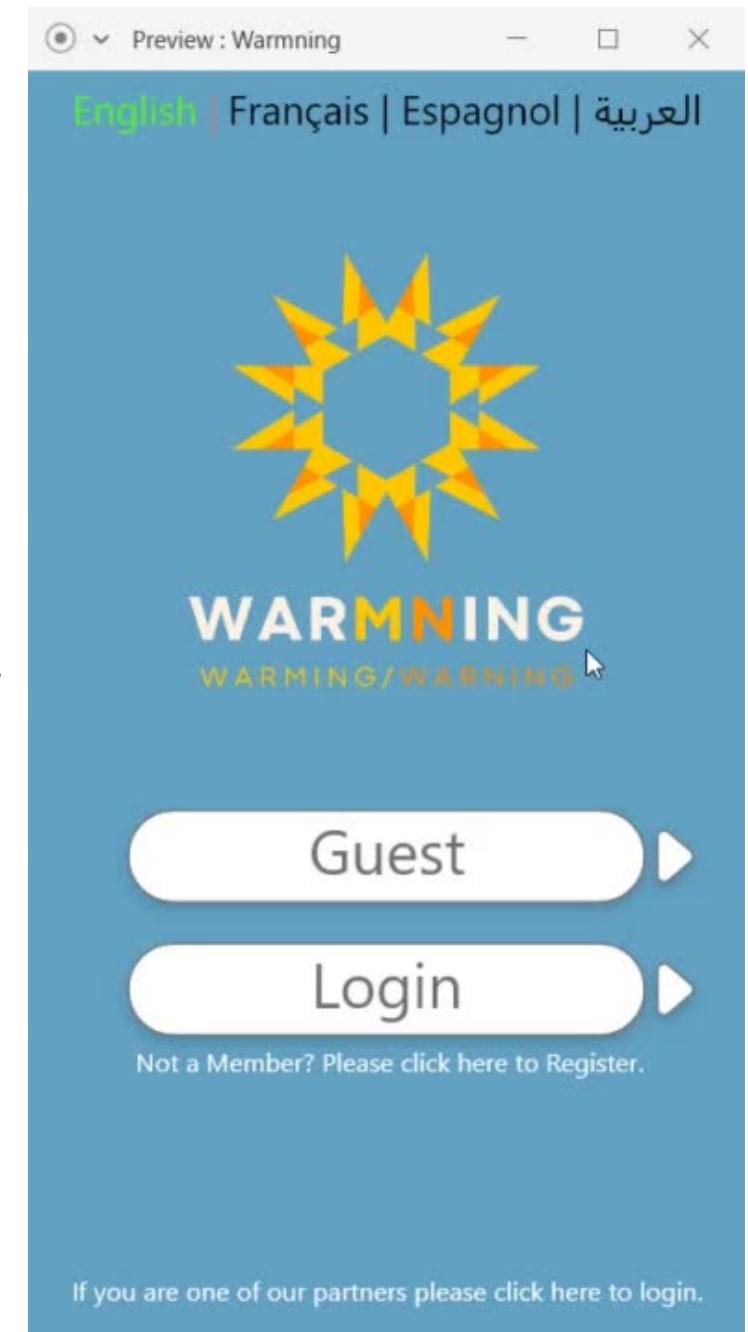
2



3



4



<https://warming.earth/data/EO>

Search



Earth Observation

Crowdsourced

Hardware

Other

year	mo	data-type	region	exten
1979	9	Goddard	N	7.05
1980	9	Goddard	N	7.67
1981	9	Goddard	N	7.14
1982	9	Goddard	N	7.3
1983	9	Goddard	N	7.39
1984	9	Goddard	N	6.81
1985	9	Goddard	N	6.7
1986	9	Goddard	N	7.41
1987	9	Goddard	N	7.28
1988	9	Goddard	N	7.37
1989	9	Goddard	N	7.01
1990	9	Goddard	N	6.14
1991	9	Goddard	N	6.47
1992	9	Goddard	N	7.47
1993	9	Goddard	N	6.4
1994	9	Goddard	N	7.14
1995	9	Goddard	N	6.08
1996	9	Goddard	N	7.58
1997	9	Goddard	N	6.69
1998	9	Goddard	N	6.54
1999	9	Goddard	N	6.12
2000	9	Goddard	N	6.25
2001	9	Goddard	N	6.73
2002	9	Goddard	N	5.83
2003	9	Goddard	N	6.12
2004	9	Goddard	N	5.98
2005	9	Goddard	N	5.5
2006	9	Goddard	N	5.86
2007	9	Goddard	N	4.27
2008	9	Goddard	N	4.69



Nouhaila

Innan

Data Scientist

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1

Get

2

Analyse

3

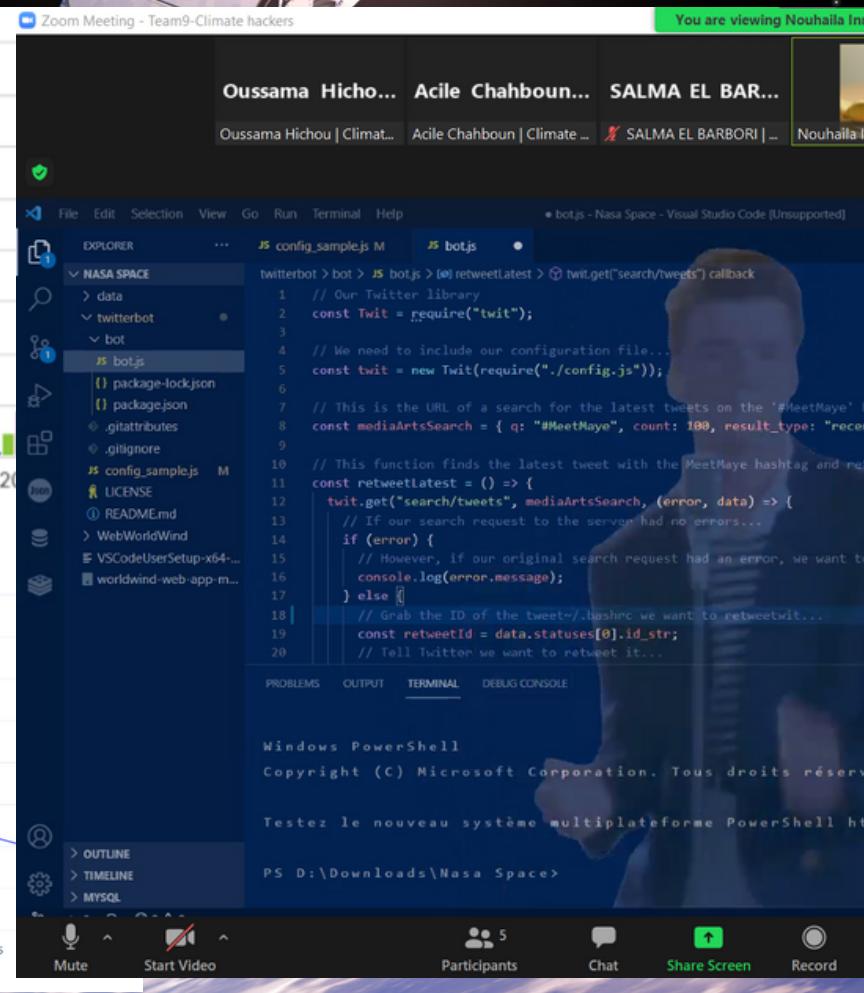
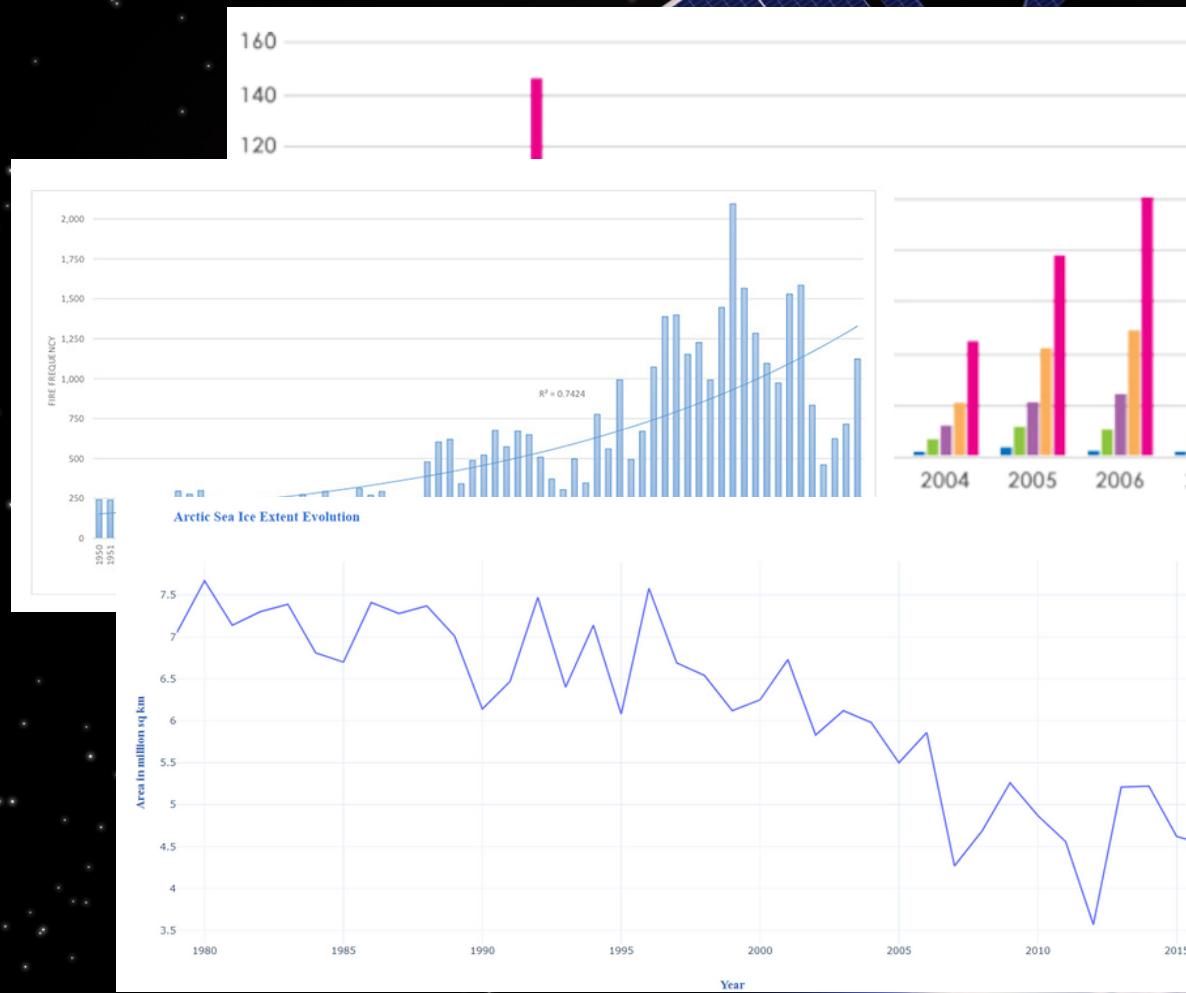
Visualize

4

Code

5

Show



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Earth Observation



Crowdsourced



Sensors



Other



Social media users in Morocco
June 2020

Facebook
20 620 000

Instagram
6 713 000

Messenger
18 290 000

LinkedIn
2 818 000

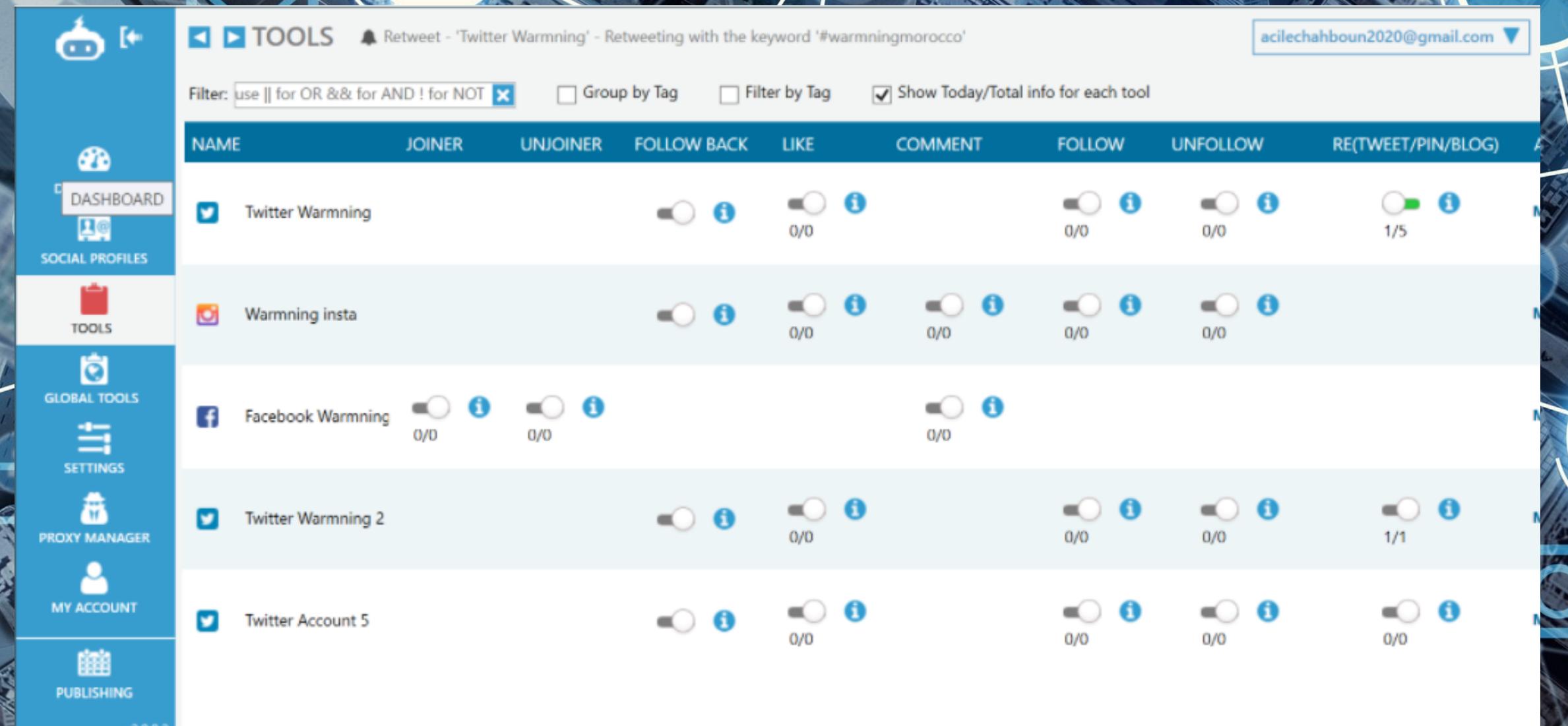


**Acile
Chahboun**

Resources Investigator

<https://warmning.earth/data/CS>

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The screenshot shows a dashboard for managing multiple social media accounts. The left sidebar includes links for DASHBOARD, SOCIAL PROFILES, TOOLS, GLOBAL TOOLS, SETTINGS, PROXY MANAGER, MY ACCOUNT, and PUBLISHING. The main area displays a table with columns for NAME, JOINER, UNJOINER, FOLLOW BACK, LIKE, COMMENT, FOLLOW, UNFOLLOW, and RE(TWEET/PIN/BLOG). The rows list accounts such as Twitter Warmning, Warmning insta, Facebook Warmning, Twitter Warmning 2, and Twitter Account 5. Each row provides specific counts for each action type.

NAME	JOINER	UNJOINER	FOLLOW BACK	LIKE	COMMENT	FOLLOW	UNFOLLOW	RE(TWEET/PIN/BLOG)
Twitter Warmning				0/0		0/0	0/0	1/5
Warmning insta				0/0	0/0	0/0	0/0	
Facebook Warmning	0/0	0/0			0/0			
Twitter Warmning 2				0/0		0/0	0/0	1/1
Twitter Account 5				0/0		0/0	0/0	

#WarmingMorocco 

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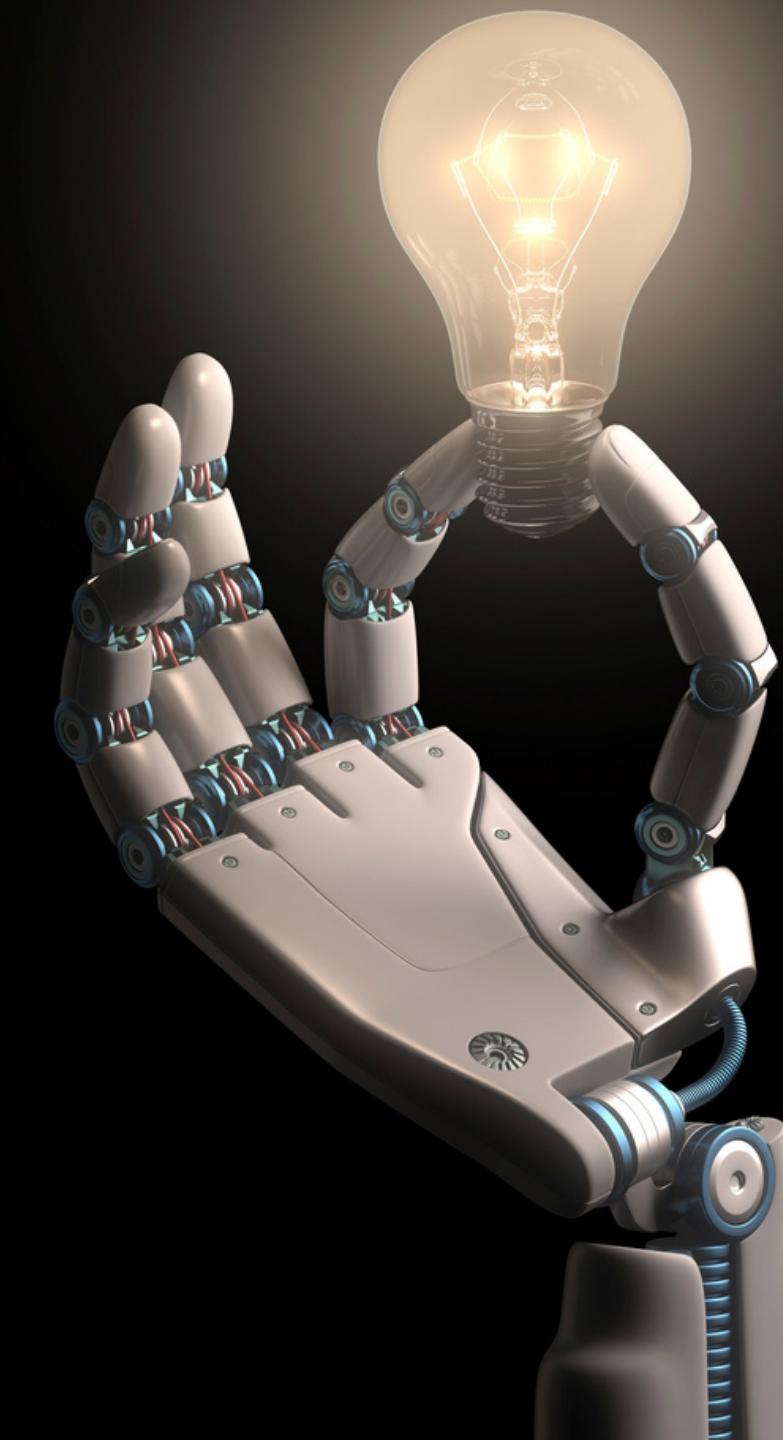


Earth Observation

Crowdsourced

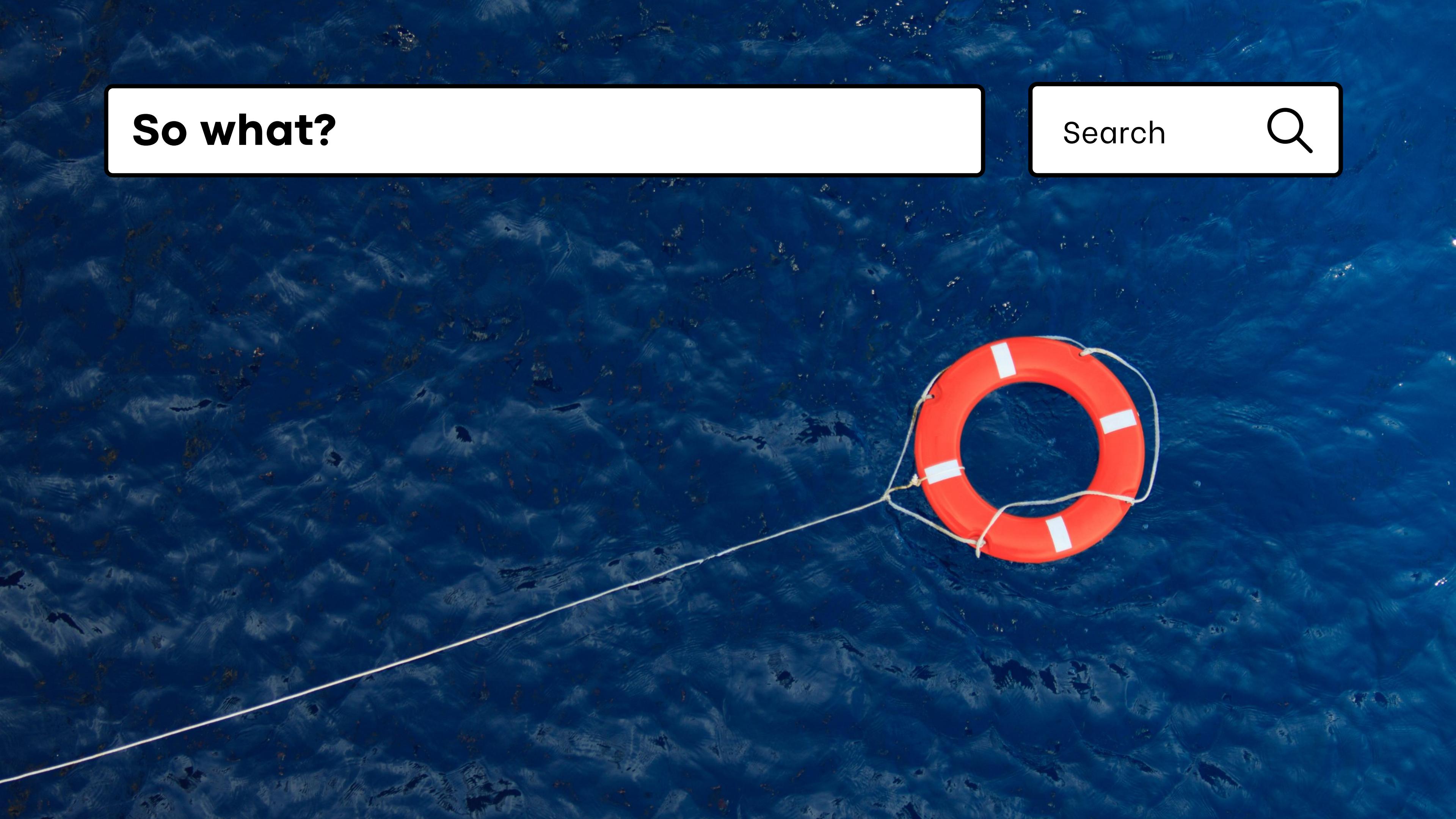
Hardware

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So what?

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Thank you !

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