



Monitoring & Data Collecting System

Ben Rosenberg

Head of Wildlife protection Dept.

Law Enforcement Division

Israel Nature & Parks Authority



Israel Nature & Parks Authority

- Manages Nature Reserves & National Parks
- Manages protected flora & fauna populations
- In charge of Hunting Legislation
- Law Enforcement
- Wild Fire fighting
- Assisting Farmers with Agricultural Damage Inflicted by Wildlife

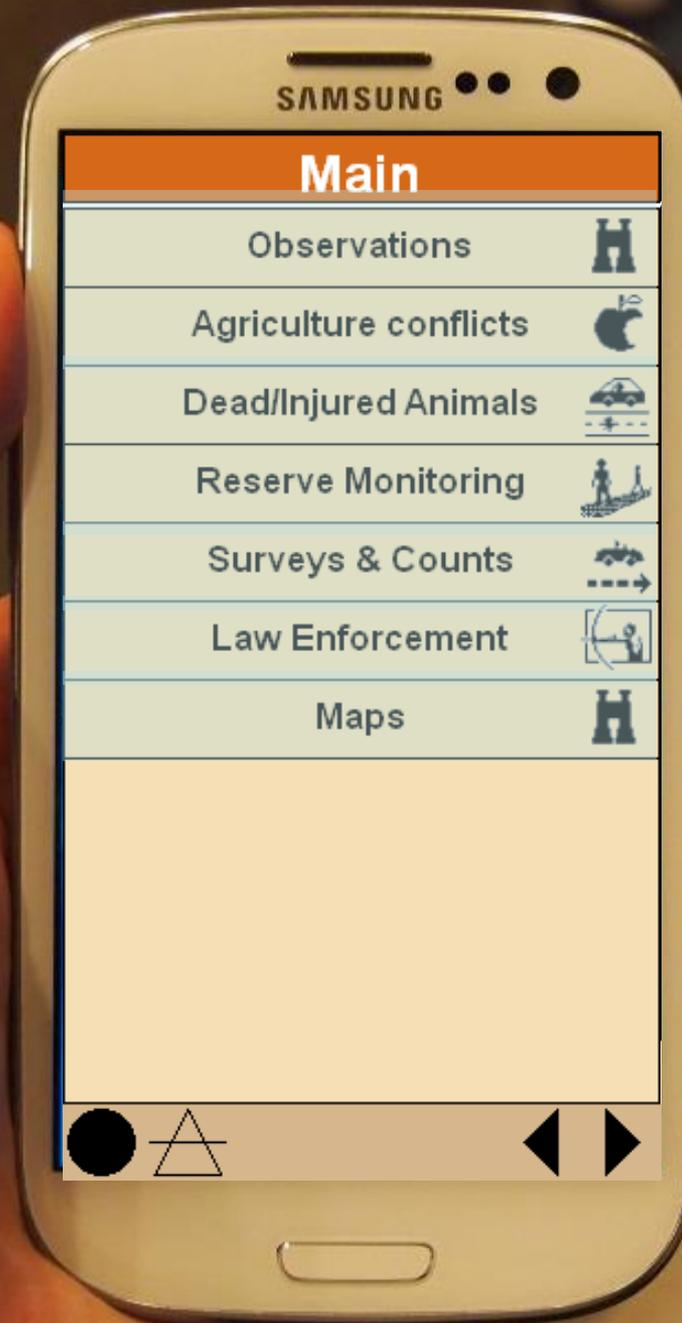


Collecting Data





ISRAEL NATURE
AND PARKS
AUTHORITY



Reserve name
Animal surveys
Plant surveys

Sea turtle nests
Gazelle counts
Vulture feeding station
monitoring

Poaching events
Illegal plant harvesting
fires

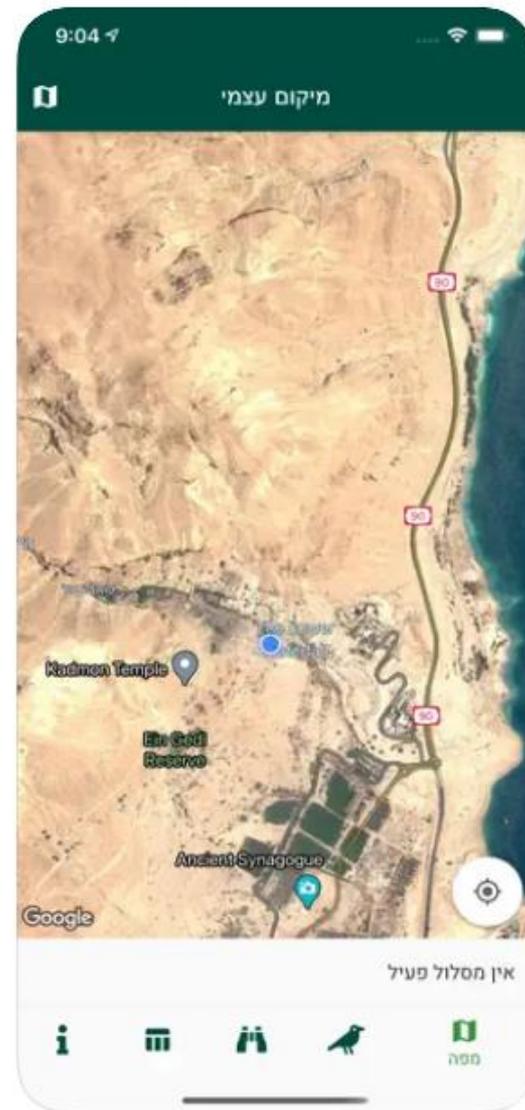
Aerial photos &
maps for field
navigation

Animals
Plants
observations

Location
Crop types
Damage type
Species involved

Road carcass
surveys
Poisoning events
Electrocution
Invasive species
management

Almost 3 million reports in 10 years !!



Chukar Partridge – *Alectoris c.*



Protected but
Desired by hunters



Chukar Partridge – *Alectoris c.*



PARKS

ENCYCLOPEDIA

DATA

RESEARCH MAP

TOOLS

Search

Observations

Observers

Documents

Reports From Public

Map Items

Management Plans

Observations Charts

Knowledge Items

Filter Observations

Update Results

My Observations Observations To Handle

General Filters

Category

Date

Last 7 Days

Last 30 Days

Current Year

From:

2010-01-01

To:

2022-05-30

Date Window

End Date Window

Months

Observer

External Contact

External Person

Observations

Observations - Filter Results (65,008)

[Display On Research Map](#) • [Display On Heat Map](#) • [Display On Axis Table](#) • [Display On Domain Reporting](#)

Date: 2010-01-01 - 2022-05-30

Taxon (Animals And Plants): Alectoris Chukar

Sort By: Reporting Date

<p>Today 8:37 A.M.</p> <p>Alectoris Chukar Ranger Area Sharon Dromi</p> <p>Biodiversity  Yair Friedberg Green Patrol Inspector</p>	<p>Today 8:26 A.M.</p> <p>Alectoris Chukar Ranger Area The Judean Moun...</p> <p>Biodiversity  Ariel Kedem Regional Ranger</p>	<p>Today 7:38 A.M.</p> <p>Alectoris Chukar Ranger Area The Judean Moun...</p> <p>Animals Random Observation  Uri Orbach Infrastructure Ranger</p>	<p>Today 7:22 A.M.</p> <p>Alectoris Chukar Ranger Area Eastern Lower Gal...</p> <p>Biodiversity  Omri Guelman Regional Ranger</p>
<p>Today 7:21 A.M.</p> <p>Alectoris Chukar</p>	<p>Today 7:21 A.M.</p> <p>Alectoris Chukar</p>	<p>Today 7:13 A.M.</p> <p>Alectoris Chukar</p>	<p>Yesterday 4:11 P.M.</p> <p>Alectoris C</p>

עזרה ?

Chukar Partridge – All sightings



Over 65000 sightings



Observations

Total observations on map : **65008**

Filtering | Research

refer to 65008 observations out of 65008 [manage fields](#)

counter config

basic fields | extra fields | by layers

root category (10 groups)

- Random observation (56670) | Polls (76)

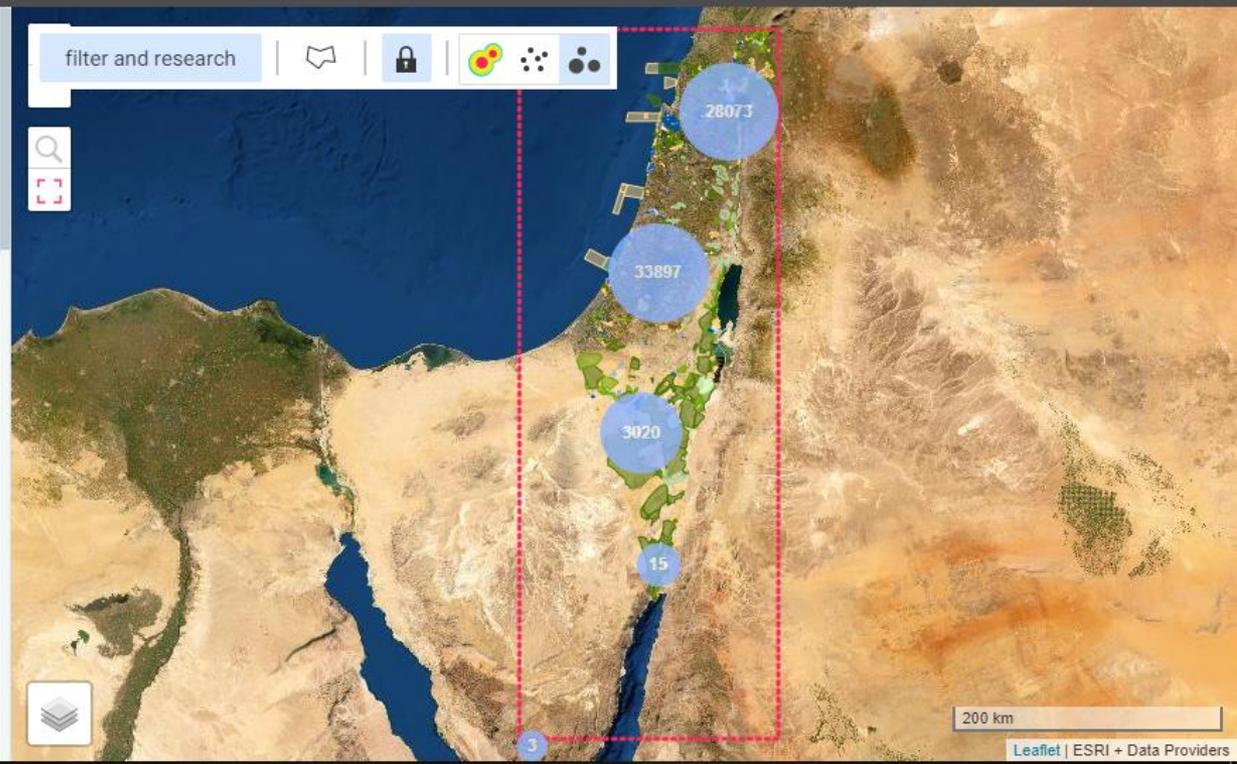
category (42 groups)

- Animals random observation (54771) | Surveys (Bi)

npa district (5 groups)

- (472) (6406) | (28849) מרכז | (25022) צפון

npa region (19 groups)



Chukar Partridge – Law Enforcement



Mostly - poaching



[PARKS](#)
[ENCYCLOPEDIA](#)
[DATA](#)
[RESEARCH MAP](#)
[TOOLS](#)

[export map](#)
[share map](#)
[197619:820680] [34.9695:33.4819]

root category

show 0 values

- Enforcement 123

category (5 groups)

show 0 values

- Enforcement > Wildlife assault > Poaching 87
- Enforcement > Wildlife assault > Possession 19
- Enforcement > Wildlife assault > search warrants 13
- Enforcement > Wildlife assault > Trade 3
- Enforcement > Wildlife assault > Poaching Indications 1

npa district (4 groups)

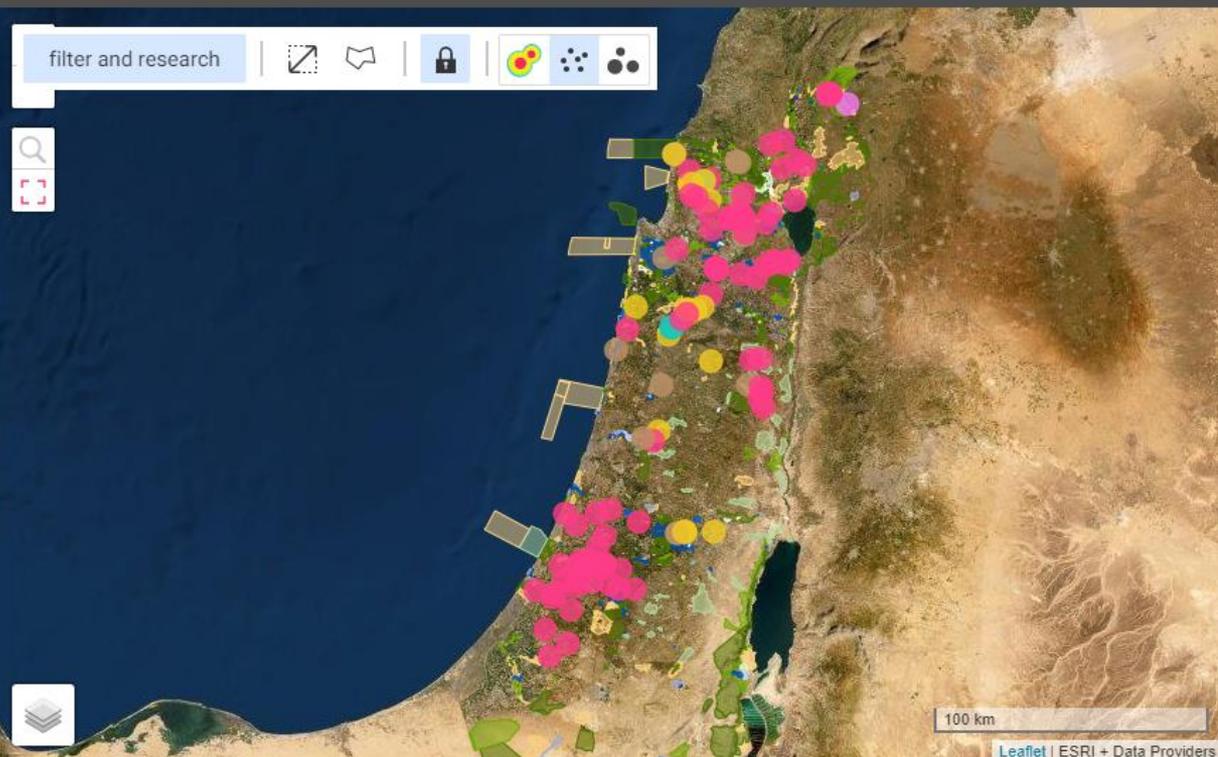
יון (12) (4)	מרכז (36)	צפון (71)
--------------	-----------	-----------

npa region (12 groups)

בנרמל (18)	גליל תחתון (29)	יון (12)	חוף (7)	הוה (17)	יון (12)
------------	-----------------	----------	---------	----------	----------

npa ranger area (26 groups)

filter and research



100 km

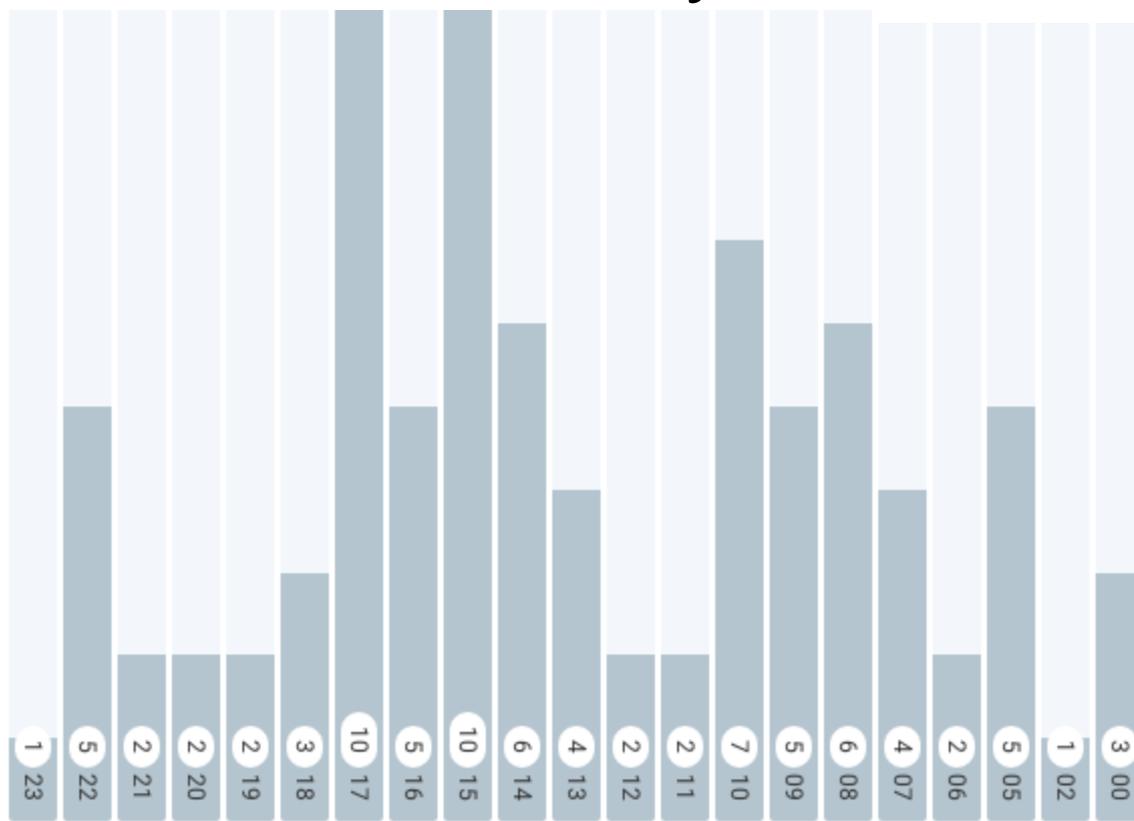
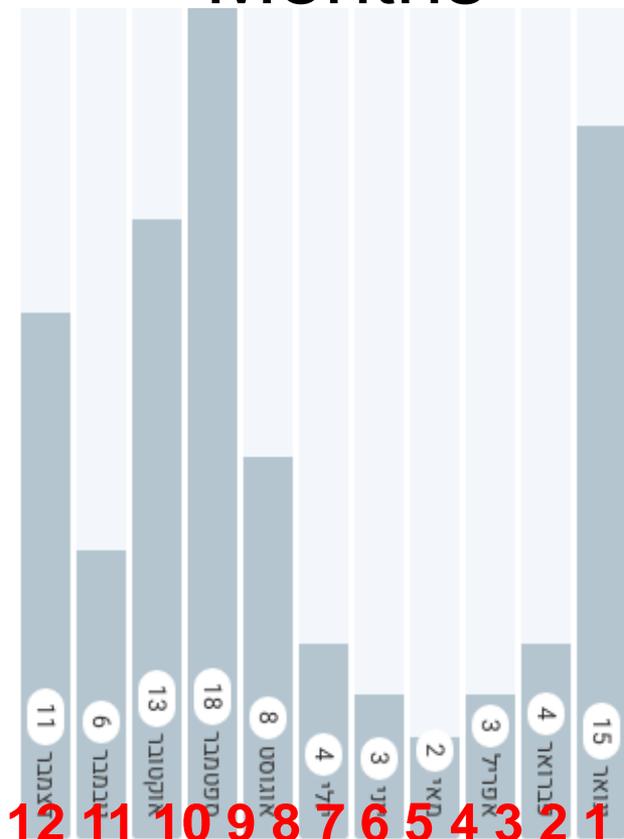
Leaflet | ESRI + Data Providers

Chukar Partridge – *Poaching*



Months

Time of Day

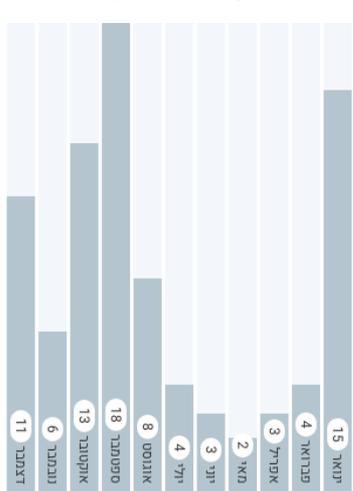


Improving law Enforcement Efforts

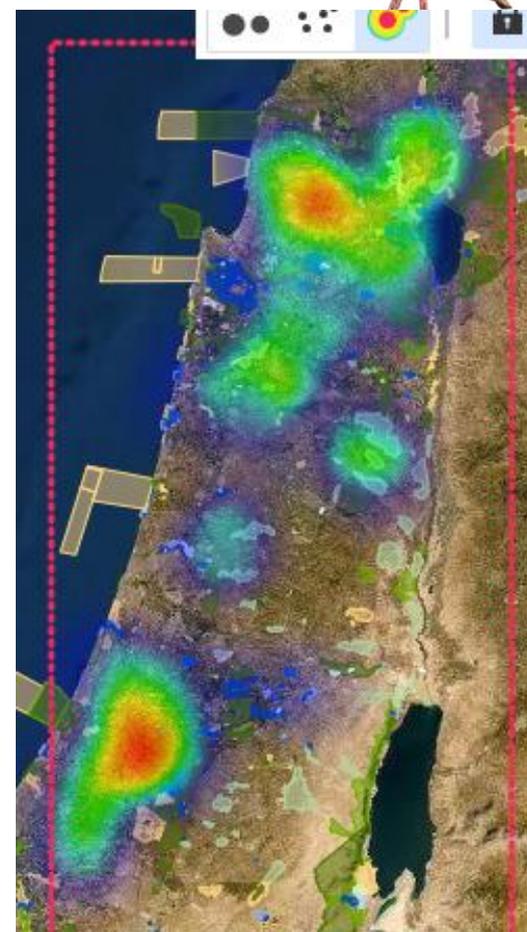
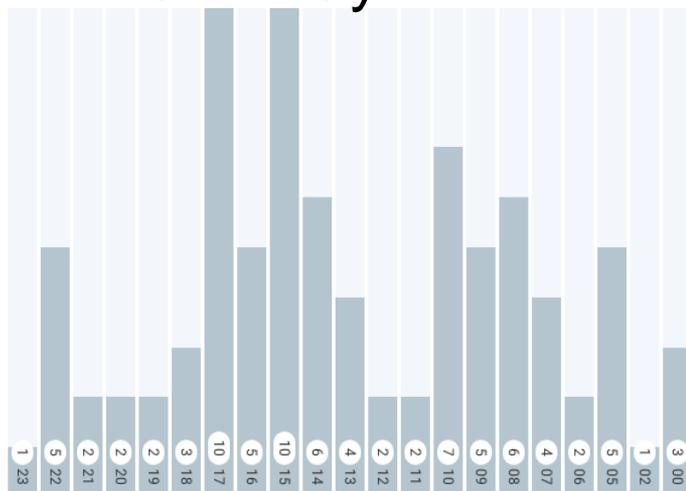


**Knowledge:
Where + When = Better Law Enforcement**

Months



Time of Day



European Goldfinch– *Carduelis c.*



European Goldfinch – All sightings



5862 Observations



PARKS

ENCYCLOPEDIA

DATA

RESEARCH MAP

TOOLS

Search

Ben Rosenberg

+99

Observations

Observers

Documents

Reports From Public

Map Items

Management Plans

Observations Charts

Knowledge Items

Filter Observations

Update Results

My Observations

Observations To Handle

General Filters

Category

Date

Last 7 Days

Last 30 Days

Current Year

From:

2010-01-01

To:

2022-06-01

Date Window

End Date Window

Months

Observer

External Contact

External Person

Observations

Observations - Filter Results (5,862)

[Display On Research Map](#) • [Display On Heat Map](#) • [Display On Axis Table](#) • [Display On Domain Reporting](#)

Date: 2010-01-01 - 2022-06-01

Taxon (Animals And Plants): Carduelis Carduelis

Sort By: Reporting Date

Yesterday
12:09 P.M.

0 0 0 0

Carduelis Carduelis
Ranger Area Southern Golan



Georgi Norkin
Regional Ranger

Yesterday
8:30 A.M.

0 0 0 0

Carduelis Carduelis
Ranger Area Hermon



Ayman Gottani
Reserved Inspector

May 30, 2022
2:45 P.M.

1 0 0 1

Carduelis Carduelis
Ranger Area Gilboa



Roy Rabin
Regional Ranger

May 30, 2022
2:45 P.M.

0 0 0 1

Carduelis Carduelis
Ranger Area Gilboa



Roy Rabin
Regional Ranger

May 30, 2022
2:36 P.M.

0 0 0 0

Carduelis Carduelis

May 30, 2022
8:28 A.M.

0 0 0 0

Carduelis Carduelis

May 30, 2022
8:21 A.M.

0 0 0 0

Carduelis Carduelis

May 29, 2022
5:26 P.M.

1 0 0 1

Carduelis C

עזרה ?

European Goldfinch – All sightings



PARKS

ENCYCLOPEDIA

DATA

RESEARCH MAP

TOOLS

Search

Ben Rosenberg



export map share map

[-242597 : 656263] [30.3223 : 31.9055]

Observations

Total observations on map : 5862

Filtering

Research

Date: 2010-01-01 - 2022-06-01

Taxon (Animals And Plants): *Carduelis Carduelis*

Update Results

My Observations

Observations To Handle

General Filters

Category

Date

Last 7 Days

Last 30 Days

Current Year

From:

2010-01-01

To:





Trapping by nets Crossbred with Canary “Banduk/Bastared” “Pet” Industry



PARKS

ENCYCLOPEDIA

DATA

RESEARCH MAP

TOOLS

Search

Ben Rosenberg

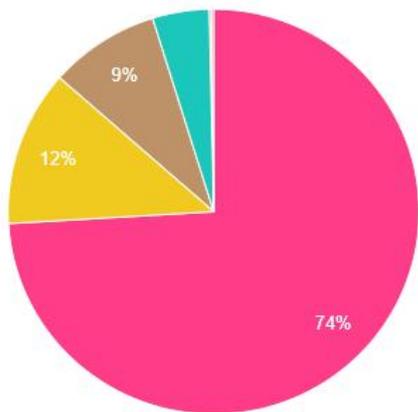
export map share map

[5075:726958] [32.9205:32.6162]

root category

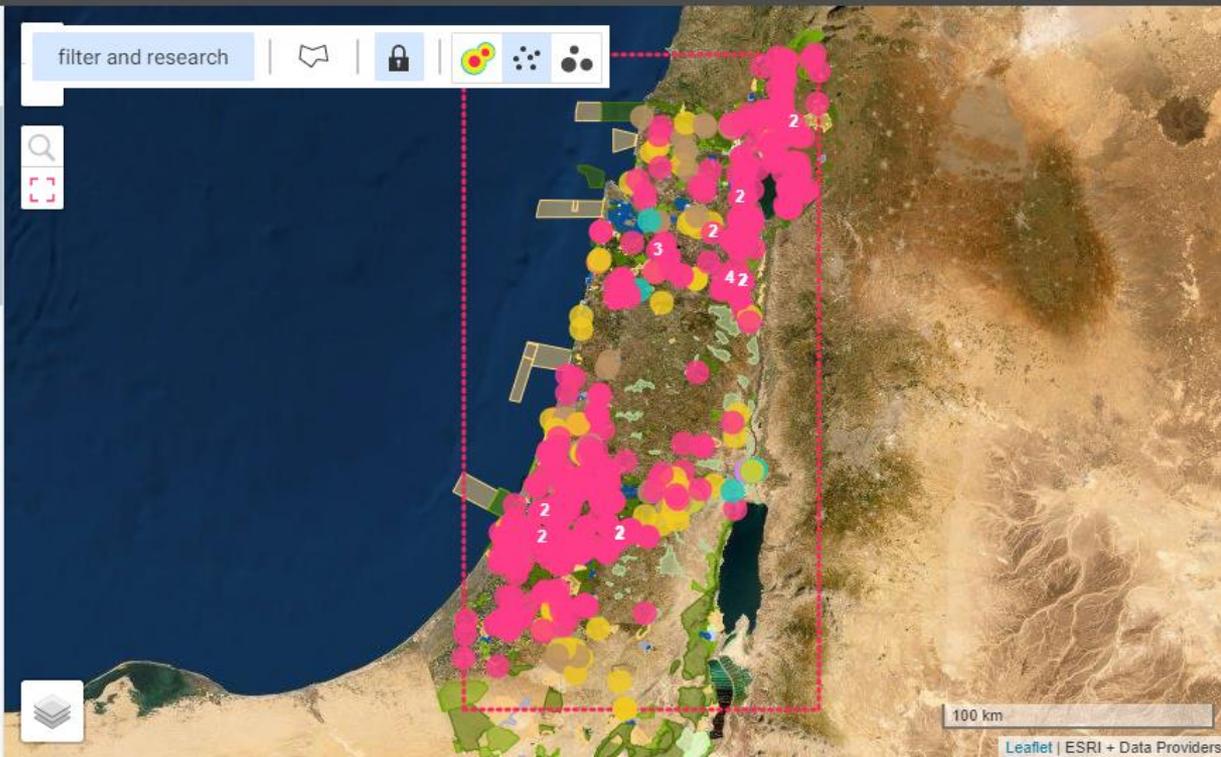
Enforcement (563)

category (6 groups)



■ Poaching 417 (74.1%) |
 ■ Possession 70 (12.5%) |
 ■ search warrants 49 (8.8%) |
 ■ Trade 25 (4.5%) |
 ■ Forwarding 1 (0.2%) |
 ■ Poaching Indications 1 (0.2%)

filter and research



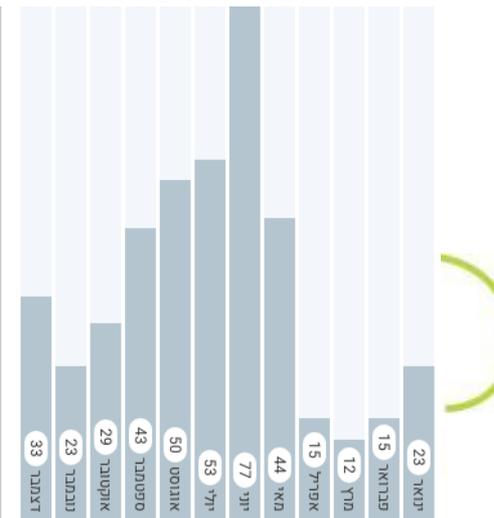
100 km

Improving law Enforcement Efforts

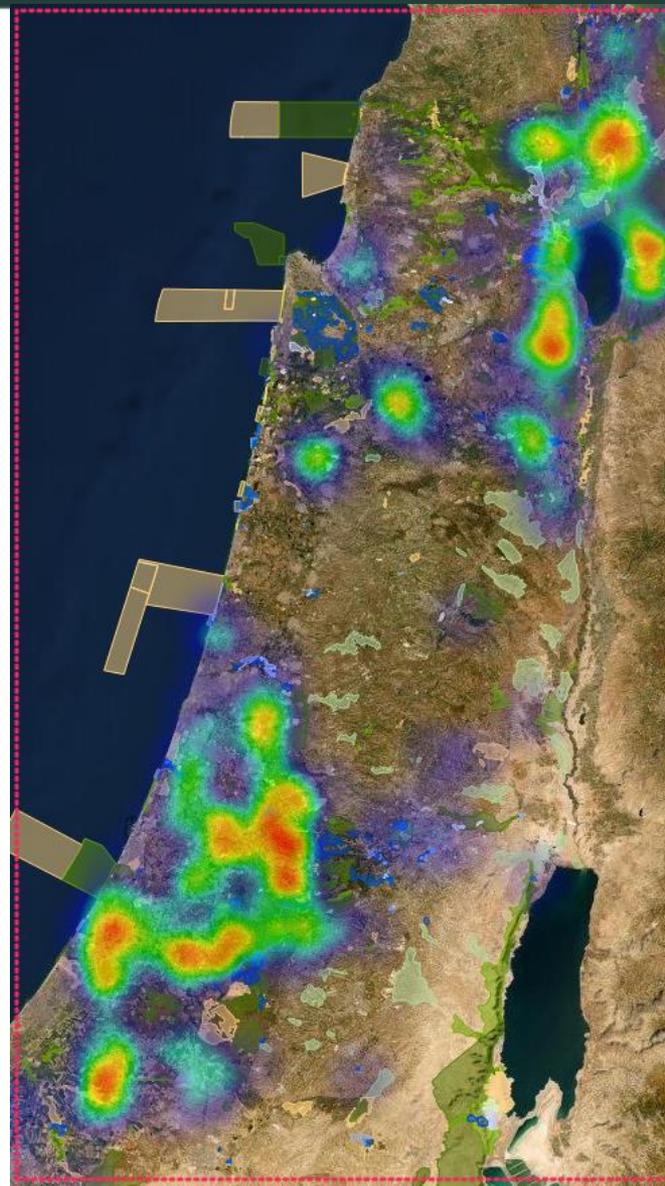
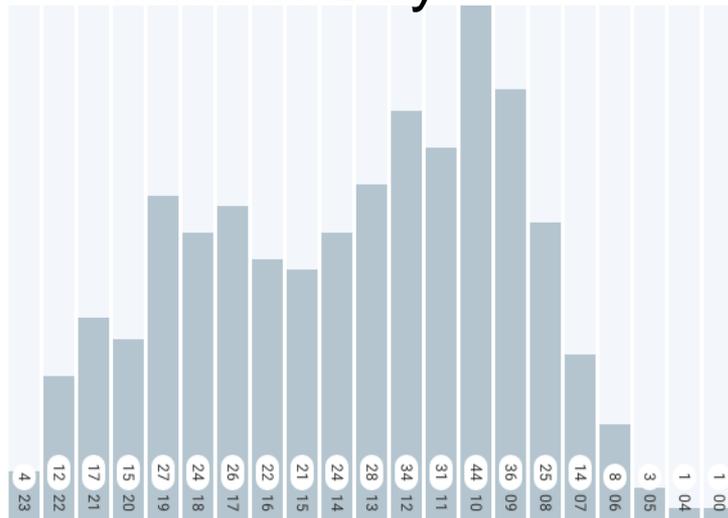
Knowledge:

Where + When = Better Law Enforcement

Months



Time of Day



Wildlife Poisoning Alert System

Poisoning Location-Aware using GPS Tagged Vultures



X43



Settings



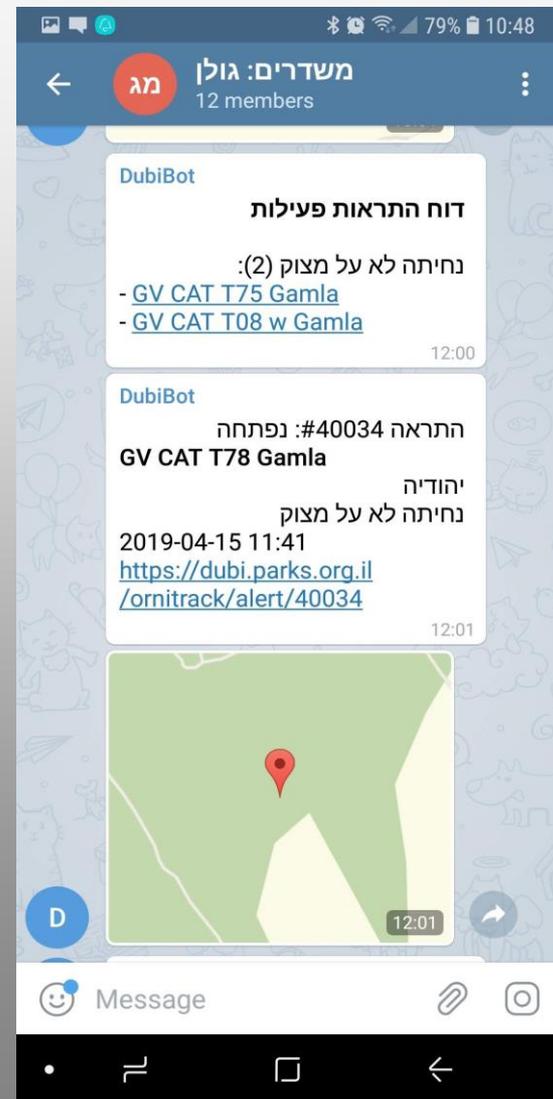
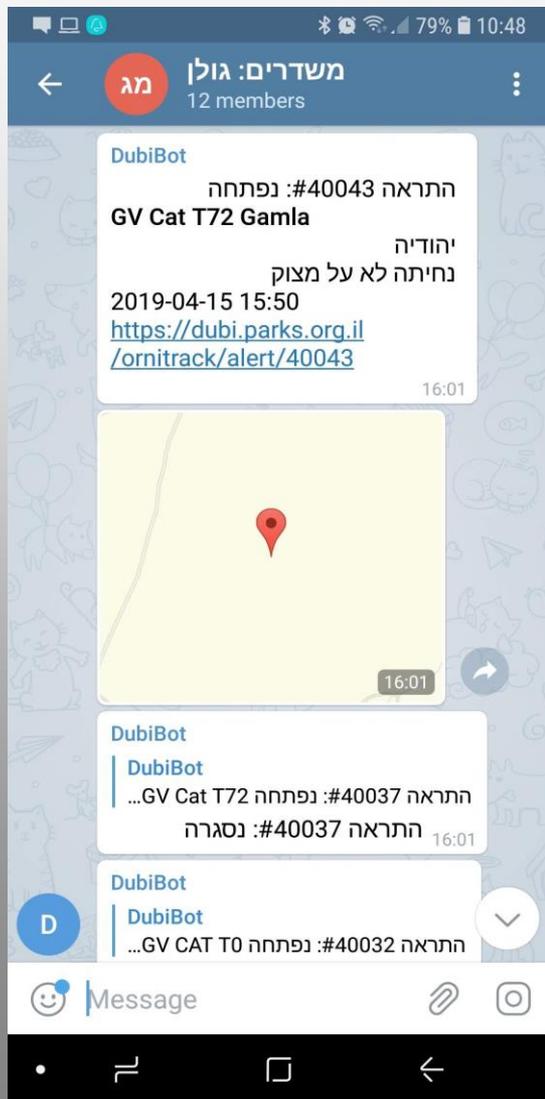
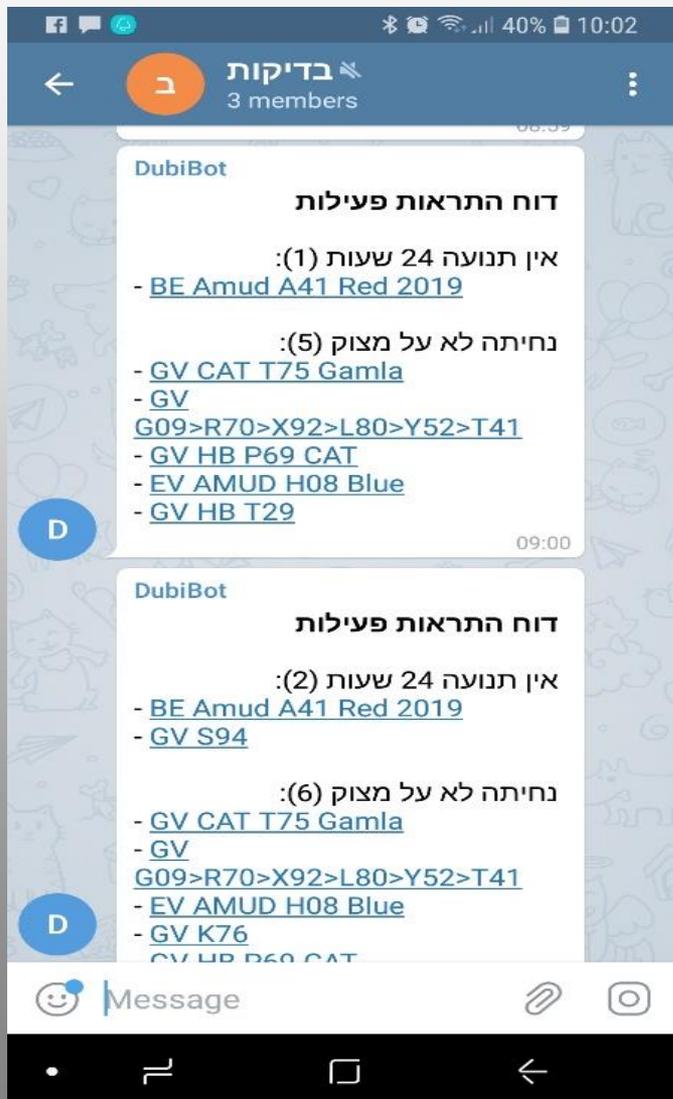
Findings & action
Alert system



Ground
team



Telegram Alerts



Alert details

רשות הטבע והגנים

#40075 התראה

התראה פעילה

נחיתה לא על מצוק

מרחק למצוק: 117.0m

כרמל
Google Maps

נשר מקראי
GV HB P69
CAT

גרפים
מפות
יומן

שודרו נתונים מאז	כן
זוהתה תנועה מאז	לא
פתיחת התראה תאריך: 17-04-2019	09:11 לפני 19 דקות
שידור אחרון תאריך: 17-04-2019	08:55 לפני 36 דקות
זמן הסריג תאריך: 17-04-2019	08:50 לפני 40 דקות
תנועה אחרונה תאריך: 17-04-2019	08:50 לפני 40 דקות
מיקום ידוע אחרון תאריך: 17-04-2019	08:50 לפני 40 דקות

<https://dubi.parks.org.il/ornitrack/alert/40075/>

רשות הטבע והגנים

#40075 התראה

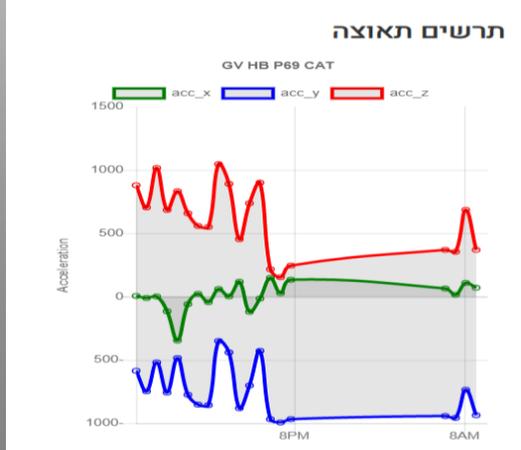
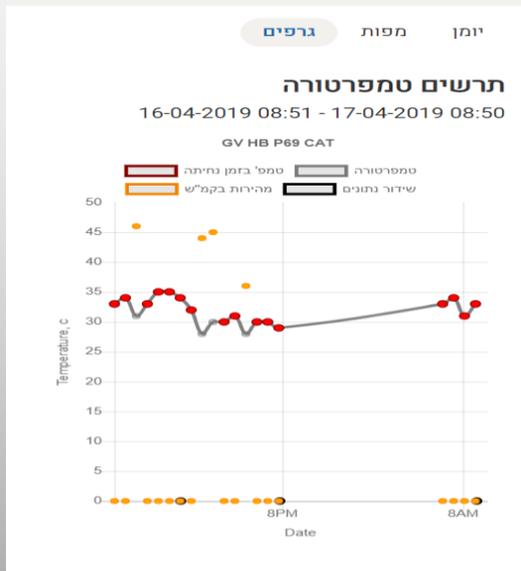
התראה פעילה

נחיתה לא על מצוק

מרחק למצוק: 117.0m

כרמל
Google Maps

נשר מקראי
GV HB P69
CAT



רשות הטבע והגנים

#40075 התראה

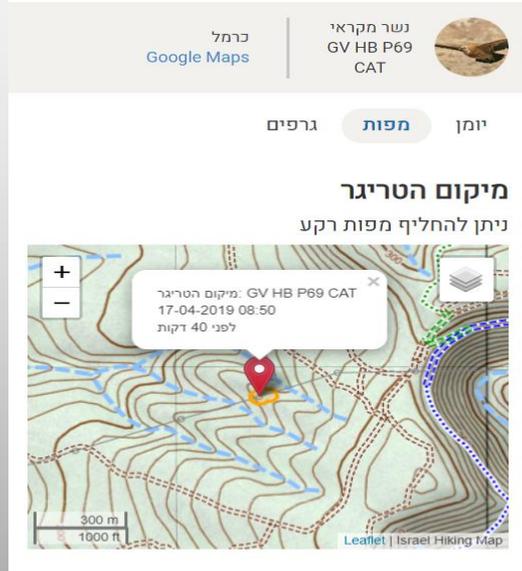
התראה פעילה

נחיתה לא על מצוק

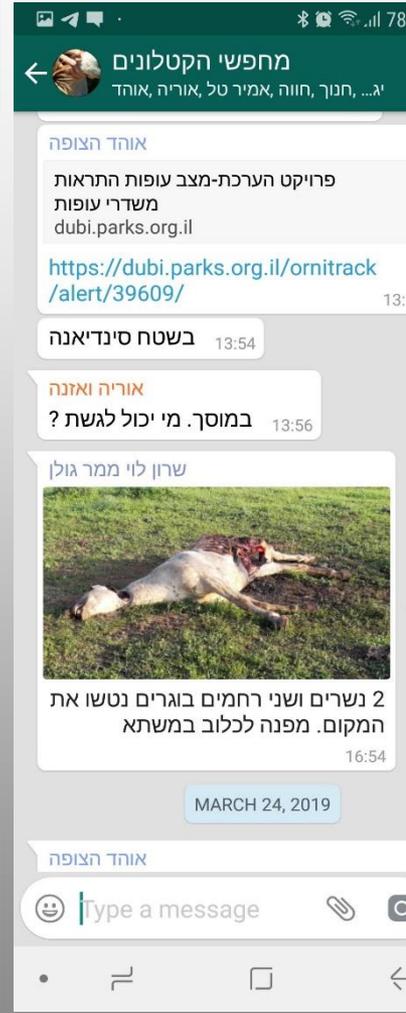
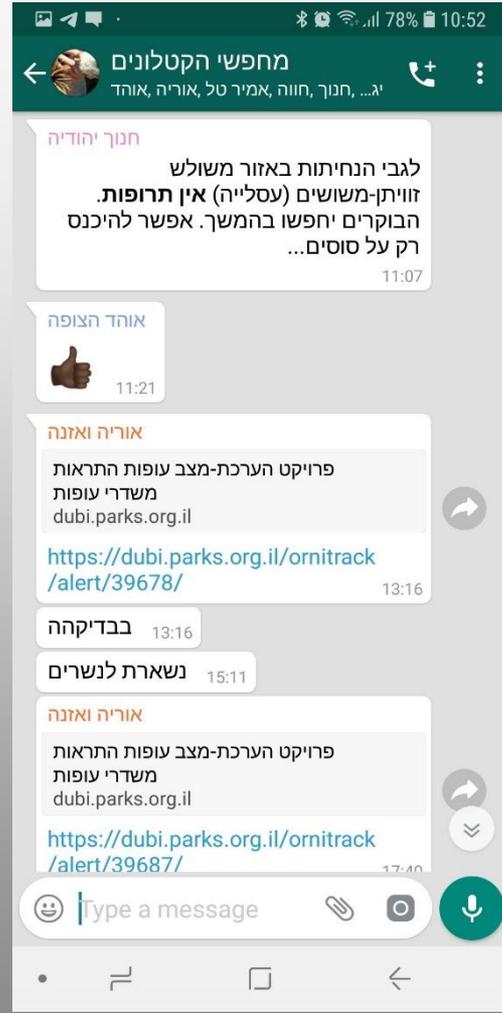
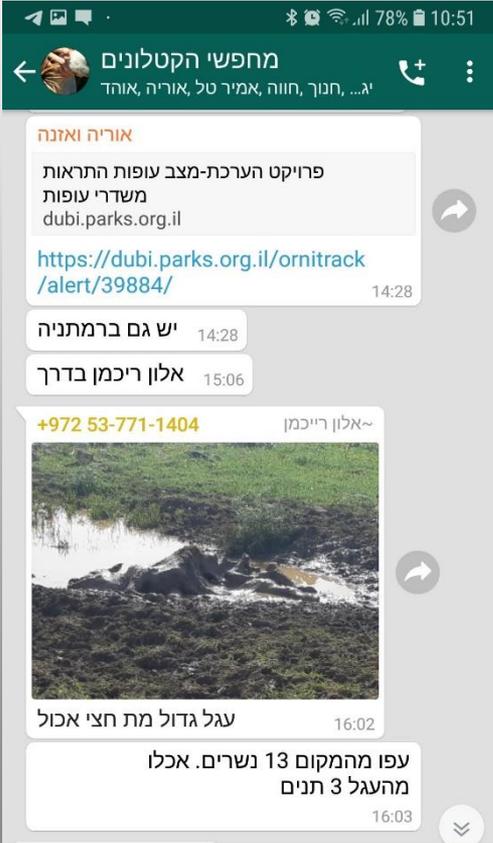
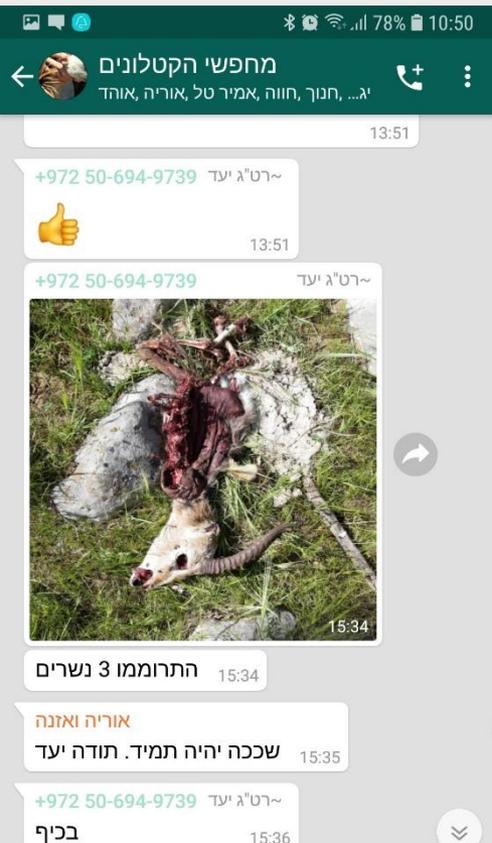
מרחק למצוק: 117.0m

כרמל
Google Maps

נשר מקראי
GV HB P69
CAT



Ground team work



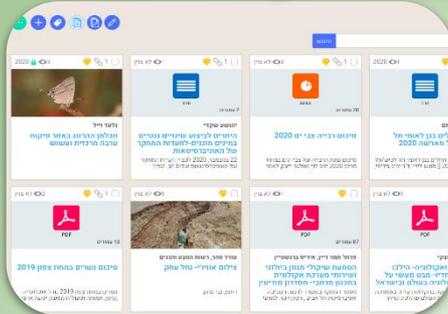
Data collection



CyberTracker



Document management



Encyclopedia



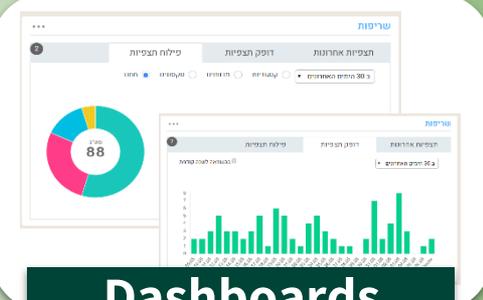
Data analysis



תאונות צילומים ודוחות
השלמה של מסמכים או תמונות יש לוודא שצורפו צילום

ממתין	אופיר בריקנשטיין פקח שמורה
הבקשה הועברת ל	שחר כפיר פקח איזורי
העברתי ל	ערן היימס

External systems



Dashboards

Process management



<p>דרבן</p> <p>אזור פיקוח ממשל - אלנה</p> <p>14 קינים נטרופו כליל</p> <p>65 קינים אינסטיטו</p> <p>347 קינים הגניחו</p> <p>301 קינים שהופקדו</p> <p>308 קינים שהותקנו</p>	<p>צב-יבשה מצוי</p> <p>שטוחות נדר סיאסא</p> <p>מדינת נוקים להקלאות</p> <p>אזור פיקוח ממשל - אלנה</p> <p>מניעת נוקים להקלאו</p>	<p>טיילות ומטיילים</p> <p>אזור פיקוח נר מירון</p> <p>שעיר מצוי</p> <p>אזור פיקוח ממשל - אלנה</p> <p>שחרור</p> <p>אזור פיקוח ממשל - אלנה</p>
--	--	---



שריפות: סיכום אירוע שריפה, דוחן 20, פארק הירדן, נוצרה 12:07

<https://timi.parks.org.il/obs/observations/2096647/>

ת": סיכום אירוע שריפה, אוחד מאס, נוצרה 17:17

<https://timi.parks.org.il/obs/observations/2096653/>

"הרעלות": בע"ח פצועים/מתים, בו מצוי, אסתי יסיקס, דרום הגולן, נוצרה 19:04

<https://timi.parks.org.il/obs/observations/2096904/>

Custom reporting

Data

GIS

Alerts

Thank you

