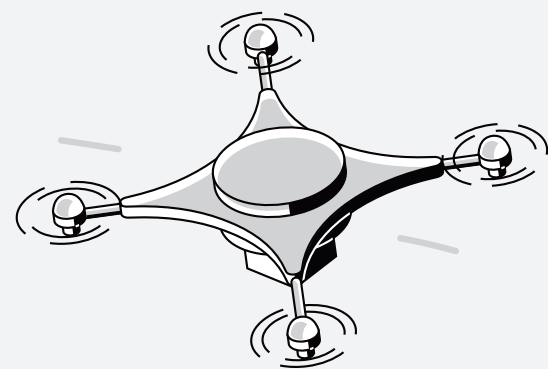


# Drone Management System **Malta**



**NOVEMBER 10TH 2020**

**Capt. Charles Pace**, Director General, TM-CAD

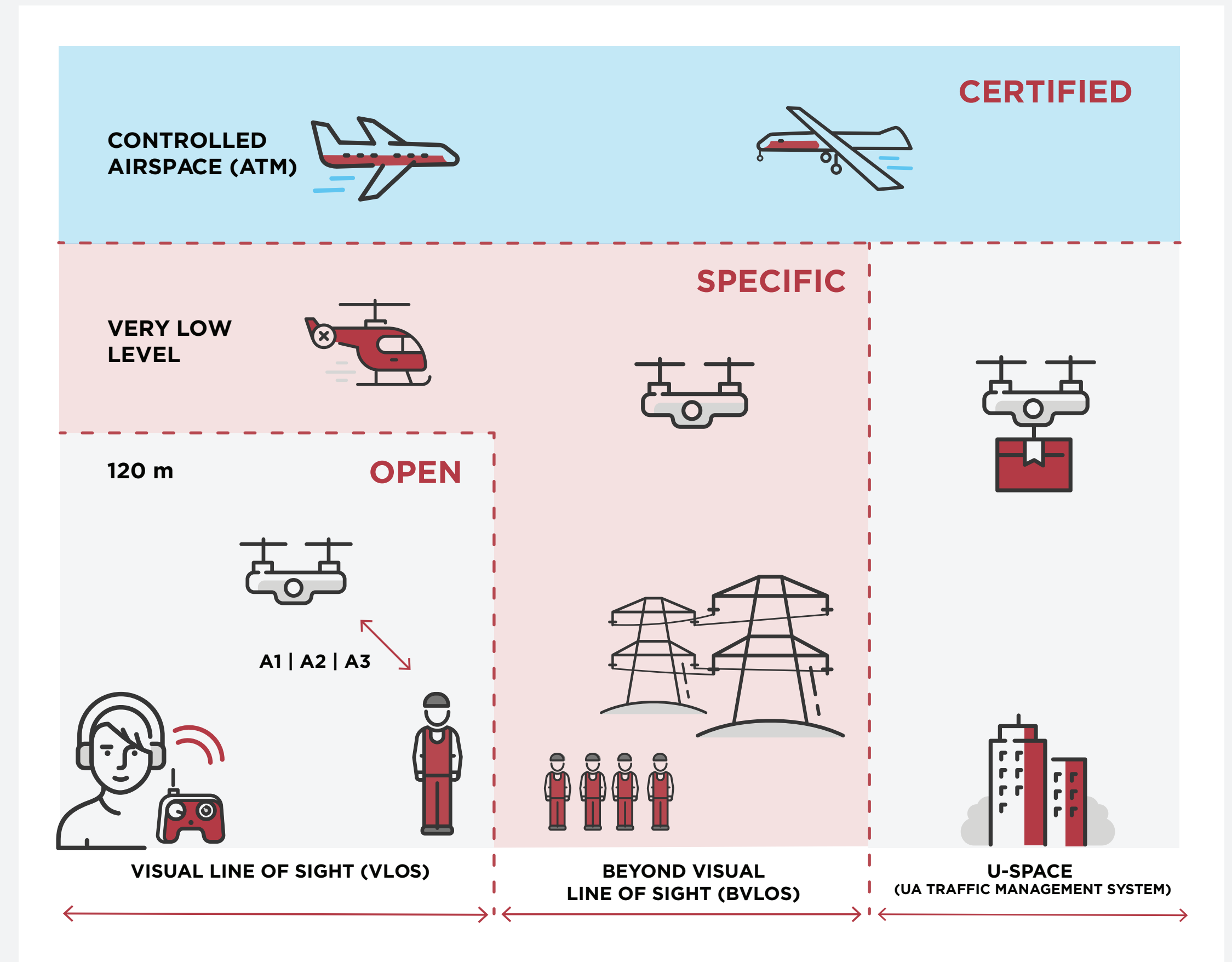
**Dr Analiza Abdilla**, Aviation Specialist, TM-CAD

**Mr Tom Verbruggen**, CEO, IDRONECT

**Mr Chris De Rouck**, CTO, IDRONECT

# + EASA UAS Regulation OVERVIEW

- Entry into force 31st December 2020;
- 3 categories of drone operations (risk-based):
  01. OPEN
  02. SPECIFIC
  03. CERTIFIED
- Requirements:
  - + UAS Operator Registration
  - + Identification of restricted geographical zones
  - + ...
- Met through TM-IDRONECT system



# + UAS Operator REGISTRATION

- Individual registration, may be on behalf of organisation;
- Operator registration number / QR code affixed to each drone → enforcement purposes;
- Free until 31st Dec 2020; renewable annually against a fee of €25.



# + UAS GEOGRAPHICAL ZONES



Defined by TM-CAD as requested by authorities;

The screenshot shows the IDRONECT web interface. On the left is a dark sidebar with the 'tm' logo and navigation menu items: Flight Submissions, Map (highlighted), Profiles, Company, Team, Drones, Equipment, Trackers, Logbooks, and Document library. The main content area has a search bar at the top with 'Search in Malta' and a magnifying glass icon. To the right of the search bar, there is a user profile icon for 'abdilla.analiza@gmail.com' and a 'Select Company' button. Below the search bar, a map of Malta is displayed with a red-shaded restricted area. A data panel is overlaid on the map, titled 'SGW, Siggiewi, Siggiewi, Malta' with a 'Minimize' button. It shows coordinates '35°50'54.2"N 14°26'49.0"E - 35.84838, 14.44694' and tabs for 'Weather', 'Airspaces', and 'Notams'. The weather tab is active, showing a timeline from 01:00 to 06:00 with icons for wind, temperature, and cloud cover. A warning box at the bottom of the data panel reads 'Attention! Restricted Area LUQA'. The map also shows various locations on the island like Victoria, Nadur, Saint Paul's Bay, Mgarr, MoSt, Rabat, Dingli, Zebbuq, Żurrieq, Birzebbugia, Zabbar, Żejtun, and Marsascala.

# + Flight Submission PROCESS

## I Registration → submission of flight plan

- + 'Open' category → automatic authorisation
- + 'Specific' category → risk assessment → trackers

## I Other Requirements:

- + Valid third-party liability insurance;

## I T&Cs

- + GDPR, flight over private property etc.



The screenshot shows a document from Transport Malta. At the top left are icons for a train, a bus, and an airplane. The Transport Malta logo (tm) is in the top right, along with contact information: Malta Transport Centre, Triq Pantar, Hal Lija, LA 2021, Malta. Tel: (356) 2122 2203, Fax: (356) 2125 0365, Email: info.tm@transport.gov.mt, www.transport.gov.mt.

**Flight Authorization** TM000002050

Authorization to fly with a drone as specified below granted by the authority on 23 October 2020. The drone operator needs to be available at the specified phone number and email address. Both need to be checked before flight to see if nothing changed to the authorization status.

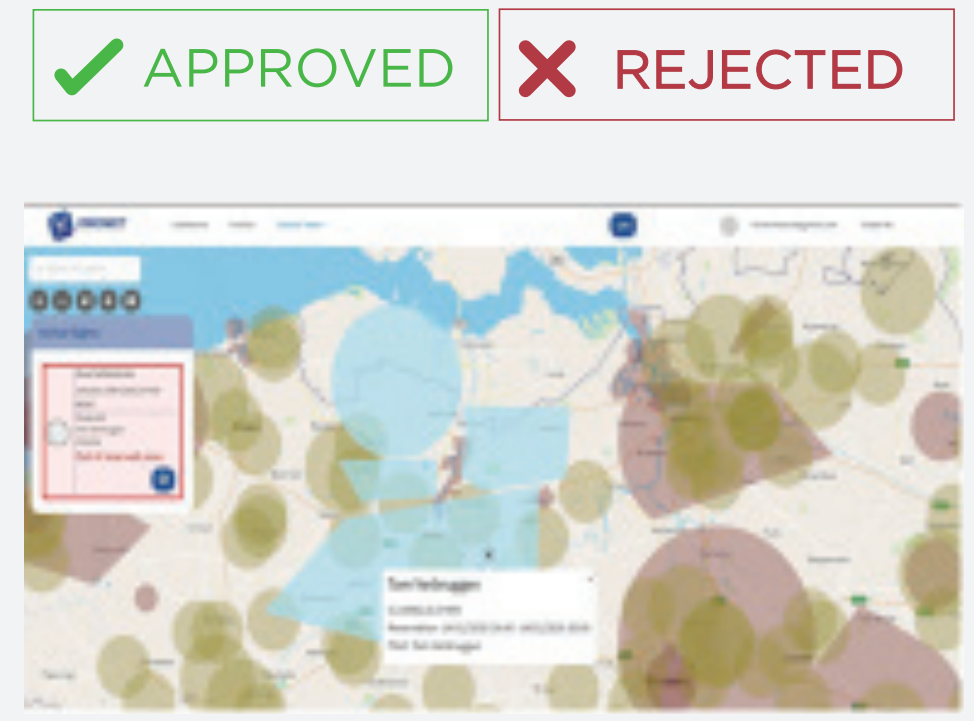
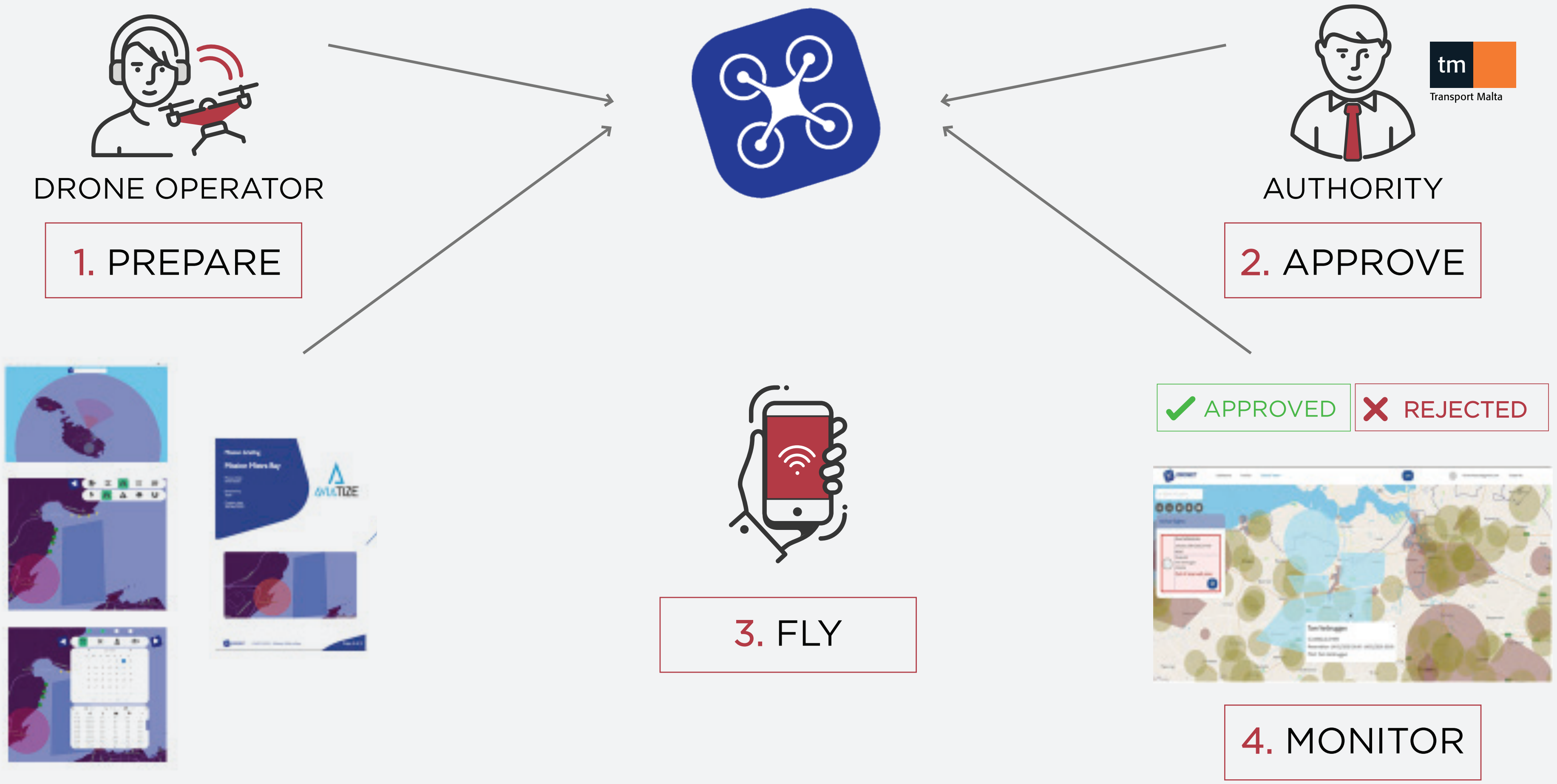
Enjoy your flights

**Authorization information**

Name	Analiza Abdilla
Email	abdilla.analiza@gmail.com
Phone	+35679305839
Age	32 years
Company	N/A
Max height	50 Meters AGL
Start date	23/10/2020 12:49
End date	23/10/2020 14:49
Type	Recreational
Purpose	N/A
Status	Submitted
Drone brand	DJI
Drone model	Mavic Air



# + What is the system?



# + How does it work?



## DRONE OPERATOR

ACCOUNT CREATION

CREATE A FLIGHT

NOTIFY TO TM

FLY

## TRANSPORT MALTA

MITIGATION REQUEST

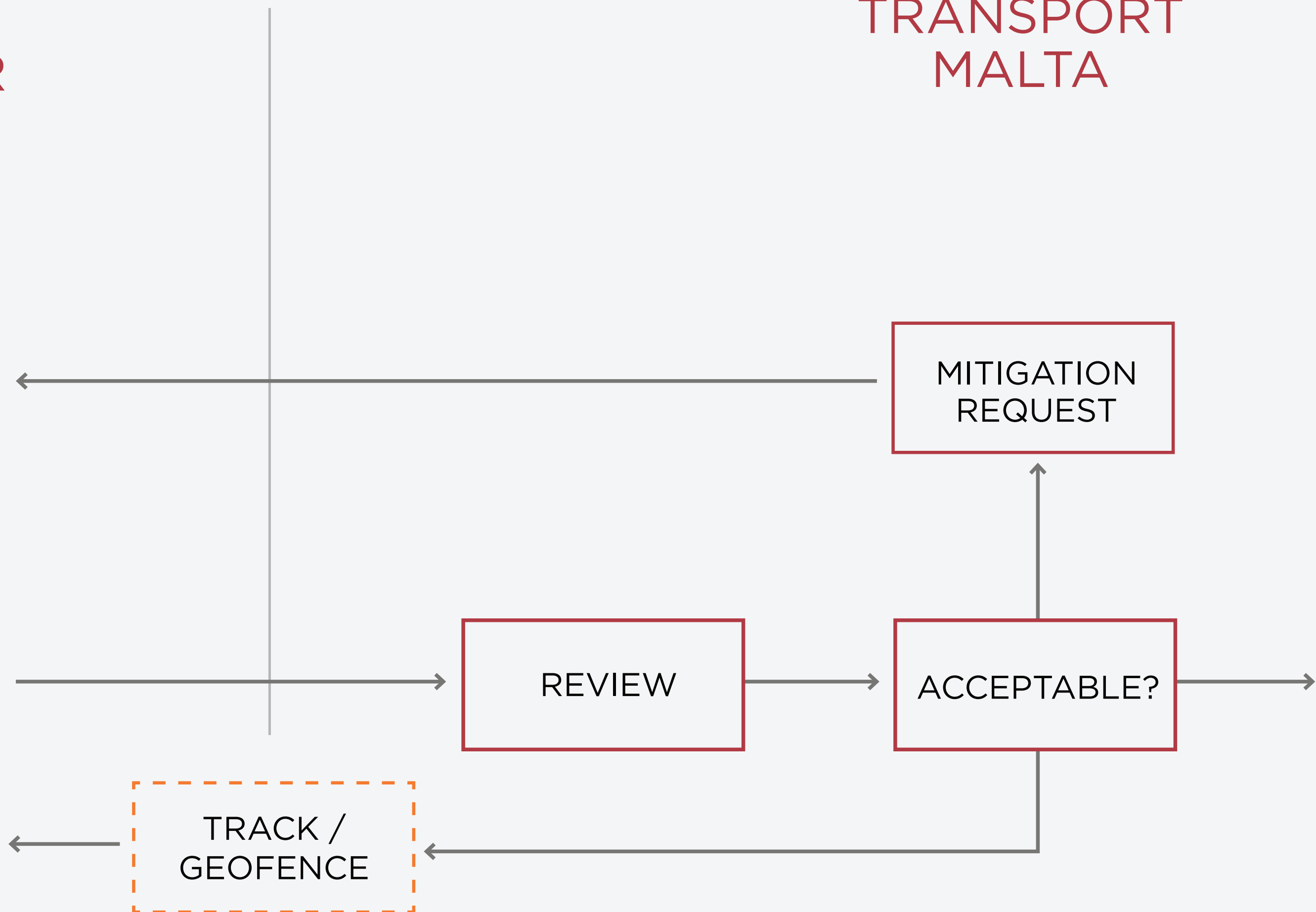
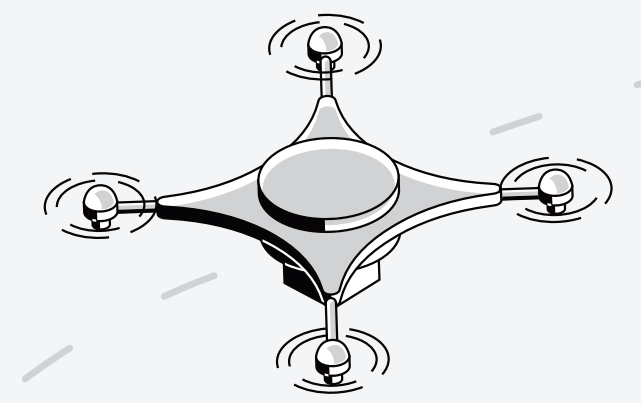
REVIEW

ACCEPTABLE?

FLIGHT REJECTED

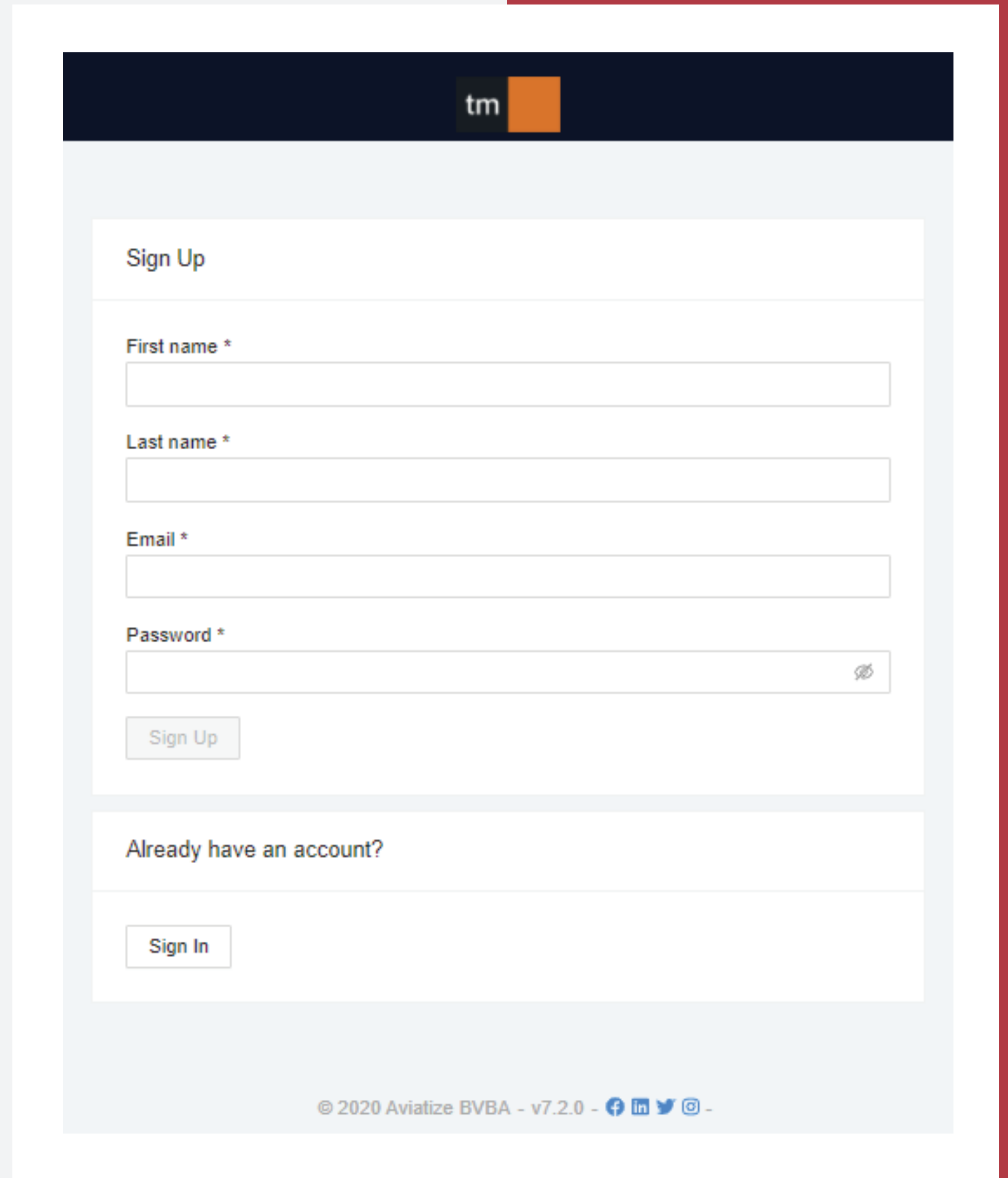
TRACK / GEOFENCE

OPTIONAL



# + Register AS A UAS OR DRONE OPERATOR

- | Go to **tmcad.idronect.com**
- | **Register** by following the form.



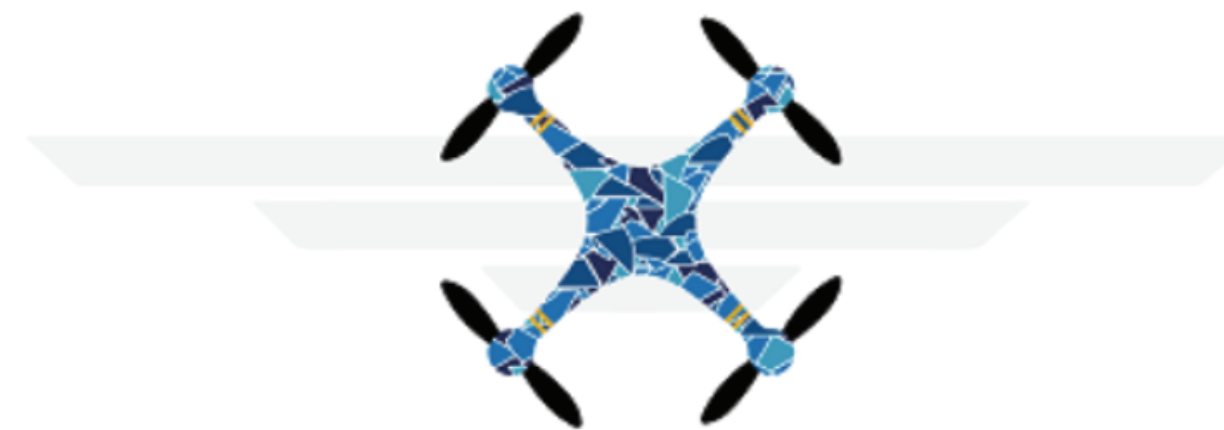
The screenshot shows a web browser window with the Transport Malta (tm) logo in the top right corner. The main content area is titled "Sign Up" and contains a registration form with the following fields:

- First name \*
- Last name \*
- Email \*
- Password \*

Below the password field is a "Sign Up" button. Underneath the form is a section titled "Already have an account?" with a "Sign In" button. At the bottom of the page, there is a copyright notice: "© 2020 Aviatize BVBA - v7.2.0 -" followed by social media icons for Facebook, LinkedIn, Twitter, and Instagram.



# + EASA UAS Operator Registration CERTIFICATE



## Ċertifikat ta' Reġistrazzjoni tal-Operatur tad-Drons UAS OPERATOR REGISTRATION CERTIFICATE

Isem u Kunjom (Name and Surname)

**Tristan Vermeesch**

Numru tal-ID/Passaport (ID/Passport Number)

**00082229701**

Numru ta' Reġistrazzjoni (Registration number)

**MLTj000822297011**

Data ta' skadenza (Expiration date)

**31 December 2020**



+  
3 SIMPLE STEPS  
to start flying



# + Start by making a new FLIGHT SUBMISSION



The dashboard features a dark sidebar with the 'tm' logo and navigation options: Flight Submissions, Map, Profiles, Logbooks, and Document library. The main content area includes a search bar for 'Search in Malta', a menu with 'Overview', 'Board', and 'Calendar', a 'Flight Submissions' header, a 'Submission Code' field containing 'TM000002060', and a prominent blue 'Create Flight Submission' button.

The 'Flight Submission' form includes fields for Name (Chris De Rouck), Email (utruiser@idronect.com), Phone (+32477349046), Age (30 years), Company (N/A), Max. Flight height (0 m AGL), Flight Date (25/10/2020), and Flight Time (10:52 - 12:52). A weather forecast table is provided below the form.

Time	Wind	Temp	Humidity	Cloud	Pressure
01:00	11/13 m/s	20°C	41%	0%	N/A
02:00	11/13 m/s	20°C	42%	0%	3
03:00	10/12 m/s	20°C	71%	0%	3
04:00	10/11 m/s	20°C	55%	0%	3
05:00	10/11 m/s	20°C	67%	0%	3
06:00	9/10 m/s	20°C	82%	0%	3
07:00	8/10 m/s	20°C	87%	0%	3
08:00	8/10 m/s	20°C	82%	0%	3
09:00	8/10 m/s	21°C	61%	0%	3

Additional form fields include Drone (All Aircrafts), Documents (All Documents), and a Flight Plan map showing a red flight zone over a map of Malta. The map includes a search bar, a 'Flight plan' dropdown, and a 'Please draw your flight plan' instruction. The flight zone is labeled 'Flight Zone - max. height 60m'. At the bottom, there is a 'Flight Submission Readiness Status' section with an 'Incomplete' indicator.

# PREPARE

# + "Where can I fly?"

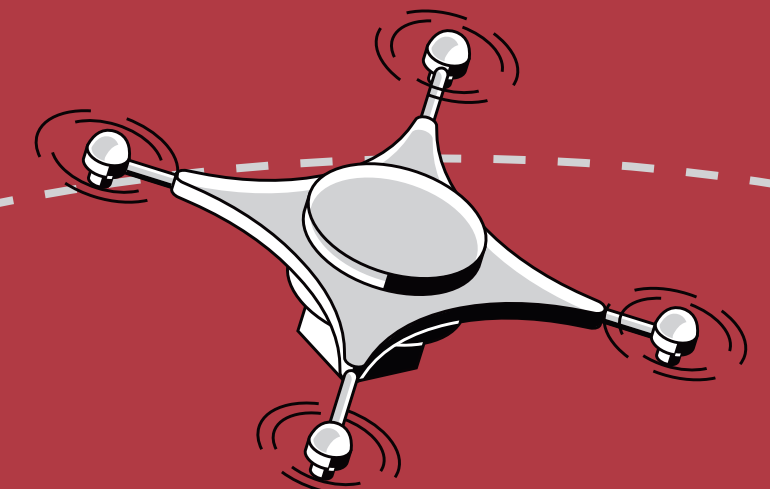


Time	Wind	Temp	Humidity	Clouds	Kp
13:00	4/4 m/s	22°C	30%	0%	3
14:00	4/4 m/s	22°C	75%	0%	3
15:00	3/3 m/s	22°C	85%	0%	3
16:00	3/3 m/s	22°C	63%	0%	3
17:00	3/3 m/s	22°C	47%	0%	2
18:00	3/3 m/s	21°C	44%	0%	2
19:00	3/3 m/s	21°C	38%	0%	2
20:00	3/3 m/s	20°C	31%	0%	4
21:00	3/3 m/s	20°C	21%	0%	4
22:00	2/2 m/s	20°C	9%	0%	4
23:00	2/2 m/s	20°C	0%	0%	3

Time	Wind	Temp	Humidity	Clouds	Kp
01:00	3/3 m/s	20°C	29%	0%	N/A
02:00	3/3 m/s	19°C	22%	0%	3
03:00	3/3 m/s	19°C	36%	0%	3
04:00	2/3 m/s	19°C	41%	0%	3
05:00	2/3 m/s	19°C	44%	0%	3
06:00	2/3 m/s	19°C	39%	0%	3
07:00	3/3 m/s	19°C	31%	0%	3
08:00	3/3 m/s	19°C	32%	0%	2
09:00	3/4 m/s	20°C	30%	0%	2
10:00	3/3 m/s	21°C	24%	0%	2
11:00	4/4 m/s	21°C	20%	0%	3
12:00	4/4 m/s	22°C	21%	0%	3
13:00	4/4 m/s	22°C	32%	0%	3
14:00	4/4 m/s	22°C	75%	0%	3
15:00	3/3 m/s	22°C	82%	0%	3

Time	Wind	Temp	Humidity	Clouds	Kp
01:00	10/13 m/s	20°C	45%	0%	N/A
02:00	10/13 m/s	20°C	39%	0%	3
03:00	10/12 m/s	20°C	79%	0%	3
04:00	10/12 m/s	20°C	52%	0%	3
05:00	10/11 m/s	20°C	81%	0%	3
06:00	8/11 m/s	20°C	73%	0%	3
07:00	8/10 m/s	20°C	79%	0%	3
08:00	8/10 m/s	20°C	75%	0%	3
09:00	8/10 m/s	20°C	51%	0%	3
10:00	8/9 m/s	21°C	67%	0%	3
11:00	8/8 m/s	22°C	34%	0%	3
12:00	8/8 m/s	23°C	21%	0%	3

Attention! Restricted Area  
Gzira Health Centre



PREPARE

+ “Where can I fly?”



Search in Malta

flight zone Minimize

Details

Name  
flight zone

Type  
Flight

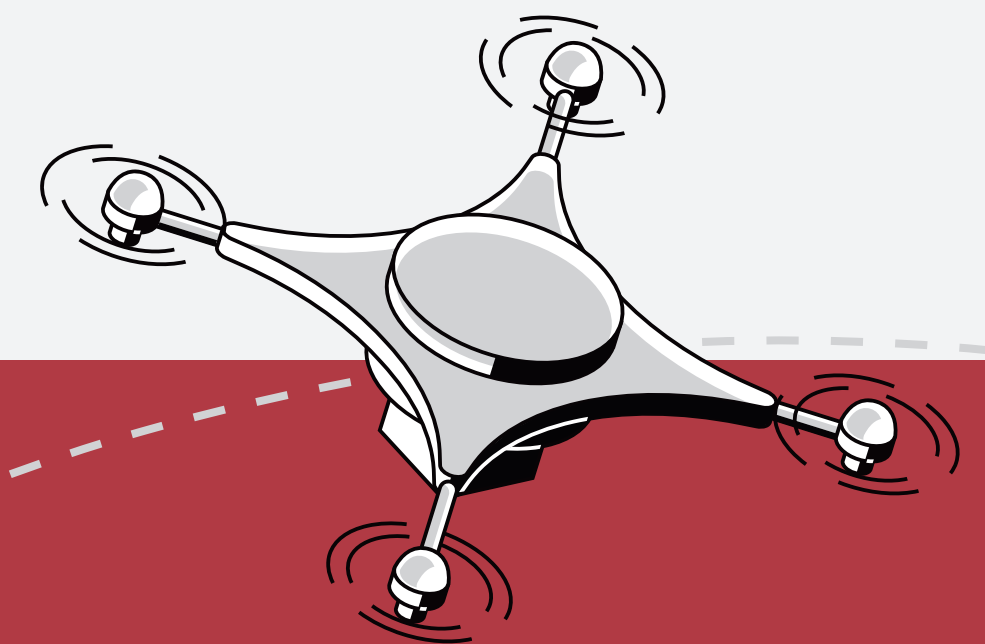
Coordinates

- 35°54'17.2"N 14°29'55.7"E
- 35°54'17.1"N 14°30'5.7"E
- 35°54'20.5"N 14°30'9.6"E
- 35°54'24.6"N 14°30'6.4"E
- 35°54'24.2"N 14°29'56.5"E
- 35°54'20.7"N 14°29'52.8"E

Save

Flight Zone - max. height 60m

© mapbox © Mapbox © OpenStreetMap Improve this map



PREPARE

+ “Where can I fly?”  
“WILL THE WEATHER BE OK ?”



Flight Date	30/10/2020							
Flight Time	10:00 → 14:00							
Weather Forecast	30 / 10			06:25			17:10	
		🕒	🌀	🌡️	☁️	☁️	Kp	
	01:00	5/5 m/s	19°C	2%	1%	N/A		
	02:00	5/5 m/s	19°C	8%	1%	N/A		
	03:00	5/5 m/s	19°C	17%	1%	N/A		
	04:00	5/5 m/s	19°C	23%	1%	N/A		
	05:00	5/5 m/s	19°C	24%	1%	N/A		
	06:00	5/5 m/s	19°C	23%	2%	N/A		
	07:00	5/5 m/s	20°C	24%	0%	N/A		
	08:00	5/5 m/s	20°C	32%	0%	N/A		
09:00	4/4 m/s	21°C	43%	0%	N/A			
Status	🟡							

PREPARE

+ Check the Status before Submitting



### Incomplete

Flight Submission Readiness Status

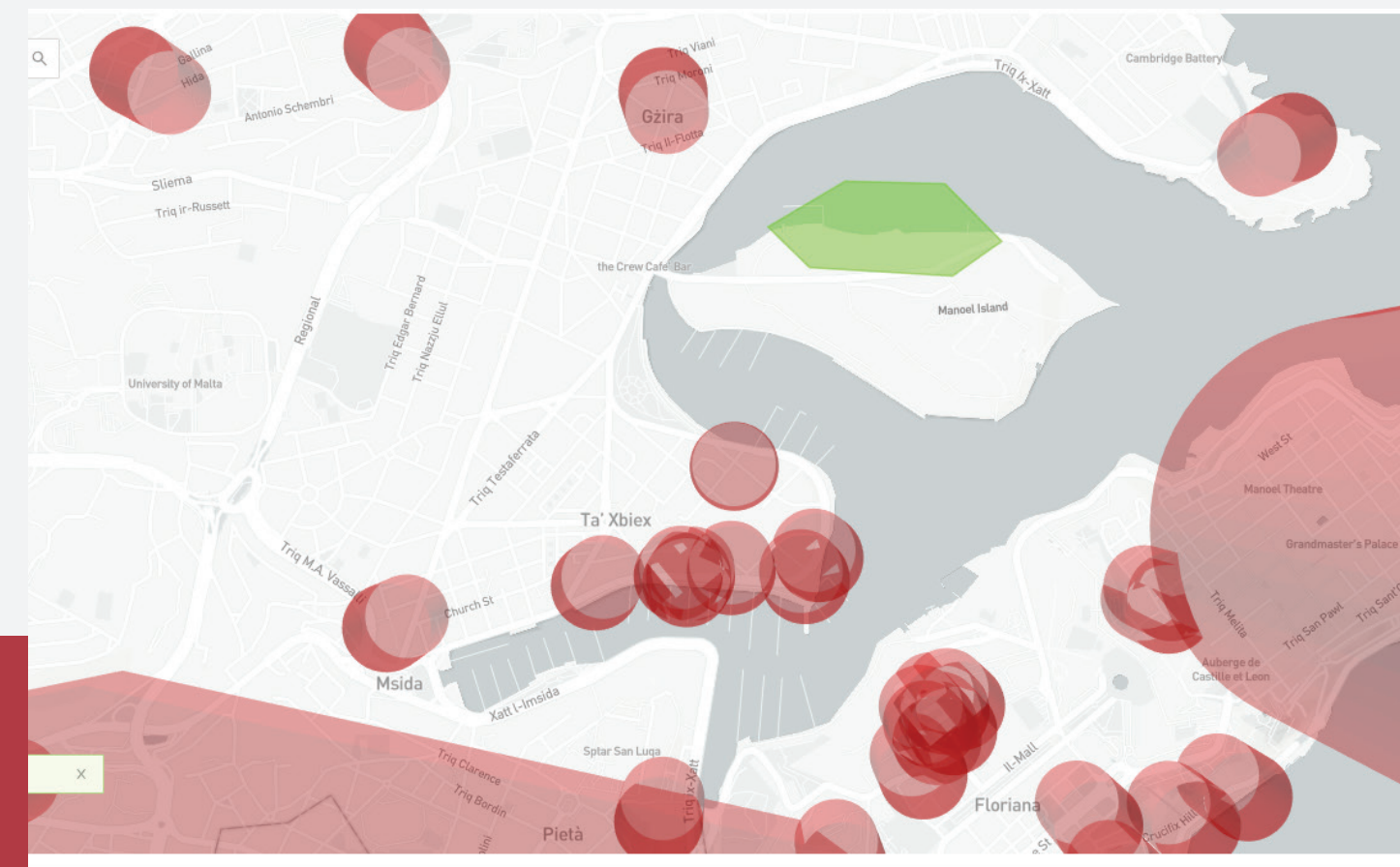
Incomplete

Reasons for incompleteness

1. Please draw the area where you want to execute your flight
2. You need to add your proof of insurance

No Submit Request button available

### Auto - Authorisation Possible



Flight Submission Readiness Status

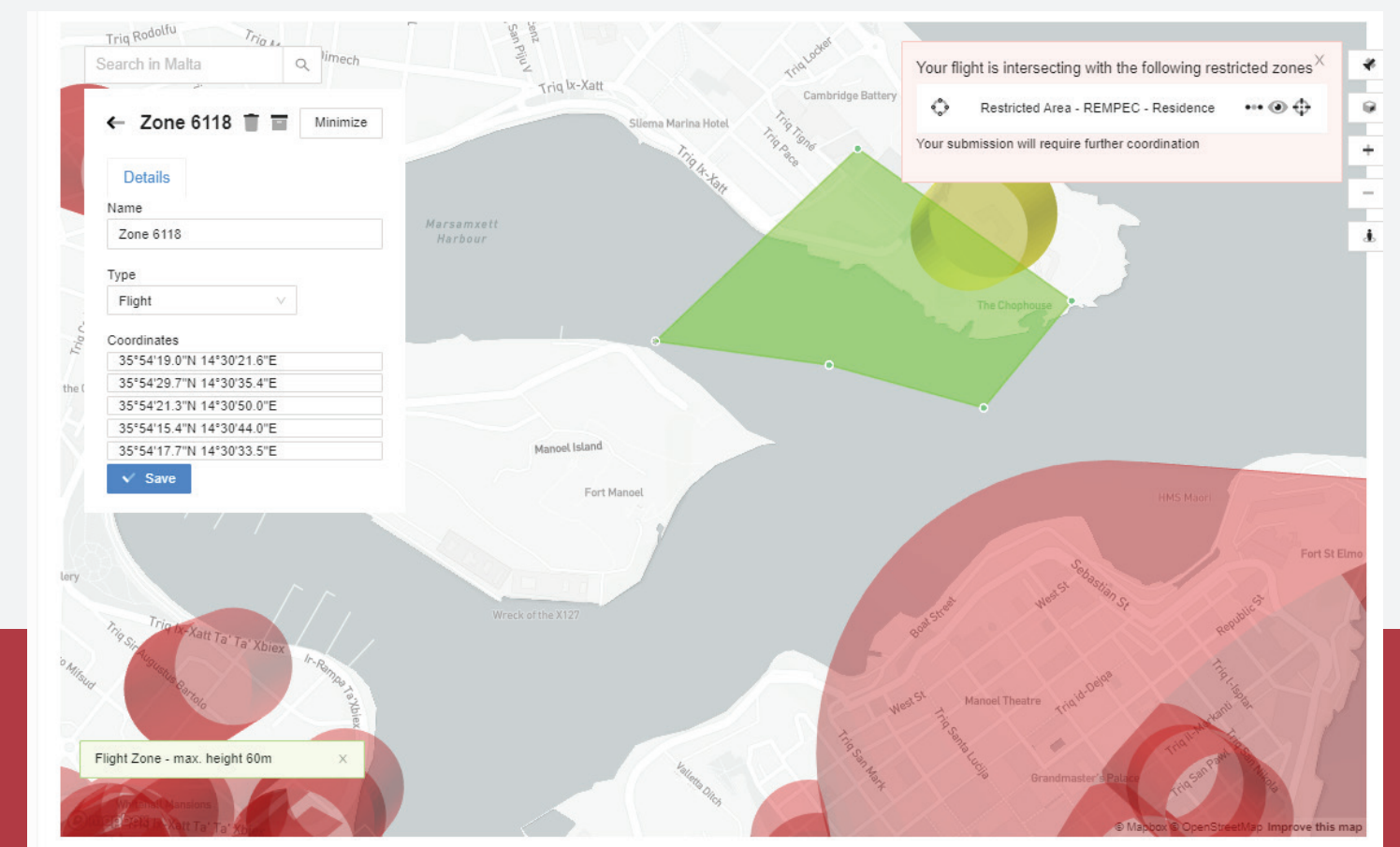
Suitable for Automatic Authorization

Status indicators

1. Max Altitude: 30 meter
2. No restricted zones intersected
3. Age: 30

Submit Request

### Further Coordination Needed



Flight Submission Readiness Status

Further coordination needed

Status indicators

1. Max Altitude: 70 meter
2. Intersecting Restricted Zones: 1
3. Age: 30
4. Flight date: 08/11/2020

Submit Request

PREPARE

+ Submit Request



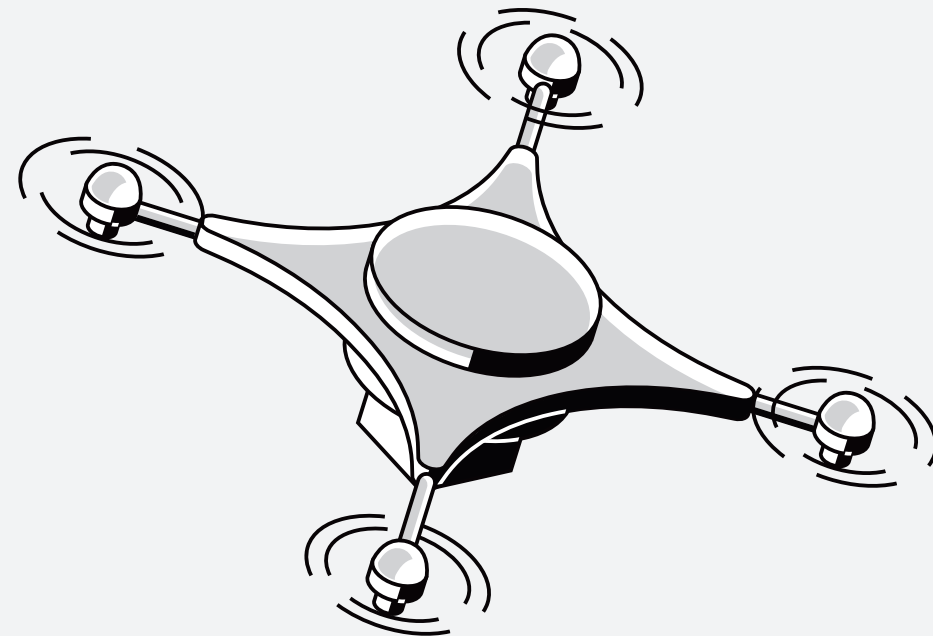
Flight Submissions									Search table	Refresh
Submission Code	Submission Date	Operator Name	Operator Phone	Start Date	End Date	Max height	Status	Actions		
TM00000260	22/10/2020 13:30	Chris De Rouck	+32477349046	30/10/2020 13:25	30/10/2020 15:25	30 meters AGL	Authorized			
TM00000250	21/10/2020 14:13	Chris De Rouck	+32477349046	30/10/2020 14:08	30/10/2020 16:08	30 meters AGL	Authorized			
TM00000240	21/10/2020 11:57	Chris De Rouck	+32477349046	28/10/2020 11:56	28/10/2020 11:56	30 meters AGL	Pending User			
TM00000230	21/10/2020 10:39	Chris De Rouck	+32477349046	21/10/2020 10:34	21/10/2020 12:34	30 meters AGL	Rejected			
TM00000200	05/10/2020 11:59	Chris De Rouck	+32477349046	12/10/2020 11:54	12/10/2020 11:54	25 meters AGL	Authorized			
TM00000200	21/09/2020 14:04	Chris De Rouck	+32477349046	21/09/2020 14:03	21/09/2020 16:03	10 meters AGL	Authorized			
TM000001890	17/09/2020 12:59	Chris De Rouck	+32477349046	30/09/2020 12:55	30/09/2020 16:55	45 meters AGL	Submitted			


APPROVE




Flight Submissions									Search table	Refresh
Submission Code	Submission Date	Operator Name	Operator Phone	Start Date	End Date	Max height	Status	Actions		
TM00000260	22/10/2020 13:30	Chris De Rouck	+32477349046	30/10/2020 13:25	30/10/2020 15:25	30 meters AGL	Authorized			
TM00000250	21/10/2020 14:13	Chris De Rouck	+32477349046	30/10/2020 14:08	30/10/2020 16:08	30 meters AGL	Authorized			1
TM00000240	21/10/2020 11:57	Chris De Rouck	+32477349046	28/10/2020 11:56	28/10/2020 11:56	30 meters AGL	Pending User			
TM00000230	21/10/2020 10:39	Chris De Rouck	+32477349046	21/10/2020 10:34	21/10/2020 12:34	30 meters AGL	Rejected			1
TM00000200	05/10/2020 11:59	Chris De Rouck	+32477349046	12/10/2020 11:54	12/10/2020 11:54	25 meters AGL	Authorized			
TM00000200	21/09/2020 14:04	Chris De Rouck	+32477349046	21/09/2020 14:03	21/09/2020 16:03	10 meters AGL	Authorized			
TM00001890	17/09/2020 12:59	Chris De Rouck	+32477349046	30/09/2020 12:55	30/09/2020 16:55	45 meters AGL	Submitted			

# + Authorized flight







**Transport Malta**

Malta Transport Centre,  
Triq Pantar,  
Hal Lija, LJA 2021  
Malta

Tel: (356) 2122 2203  
Fax: (356) 2125 0365  
Email: info.tm@transport.gov.mt  
www.transport.gov.mt

**Flight Authorization** TM000001930

Authorization to fly with a drone as specified below granted by the authority on 21 October 2020. The drone operator needs to be available at the specified phone number and email address. Both need to be checked before flight to see if nothing changed to the authorization status.

Enjoy your flights

**Authorization information**


Name	Lennert Van Kerckhove
Email	lennertm@idronect.com
Phone	+32472037839
Age	22 years
Company	Lennert's drone company
Max height	50 Meters AGL
Start date	21/10/2020 04:04
End date	21/10/2020 16:04
Type	Commercial
Purpose	Inspection flight
Status	Submitted
Drone brand	DJI
Drone model	Mavic Pro 2 Zoom

1/3
Transport Malta is the Authority for Transport in Malta set up by ACT XV of 2009

**Flight zone information**

Radius: 536.3697543928135 m : Center: 14.481870921558901,35.8970155598254

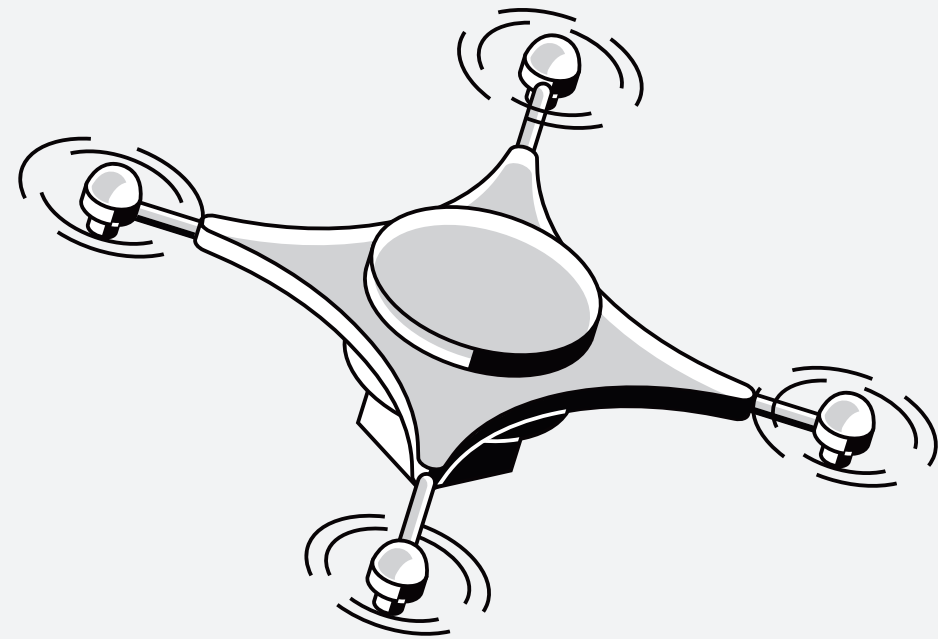




2/3
Transport Malta is the Authority for Transport in Malta set up by ACT XV of 2009



FLY



← TM000000260

Edit + Add a new comment Download PDF Fly Authorized

Details Flights Comments Licenses Files Breaches

Name	Chris De Rouck
Email	utmuser@idronect.com
Phone	+32477349046

← Start flight

Missing information Locate Minimize

Linking Details Remarks Tracker information Tracker data Breaches

Link this flight to an authorization

TM000000260 +

A map view showing a flight area in Berendrecht, Belgium. The map includes labels for 'Oud Gemeentehuis Berendrecht', 'Sint-Jan Baptistkerk', 'Schouwvegerstraat', 'Crelan Adverfi Berendrecht', 'Halewijn', 'Dierenarts Van Tilborg', and 'Bo Beauty Center'. A green shaded area indicates the flight zone.

# + Benefits

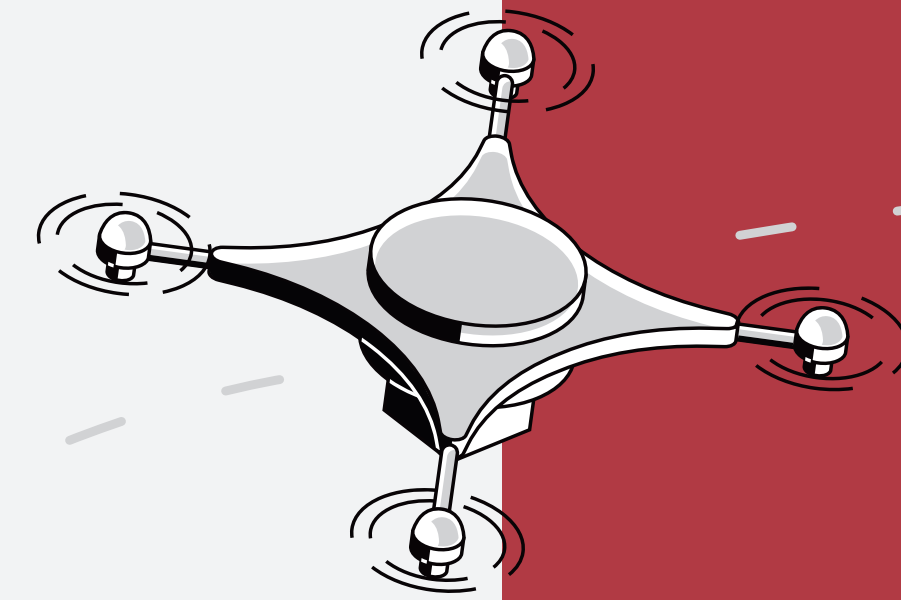
## | One stop shop for drone users

- + All documents in one place
- + Team management
- + Drone Management
- + Digital logbooks
- + Professional but easy flight planning tools

## | Easy communication with TM-CAD

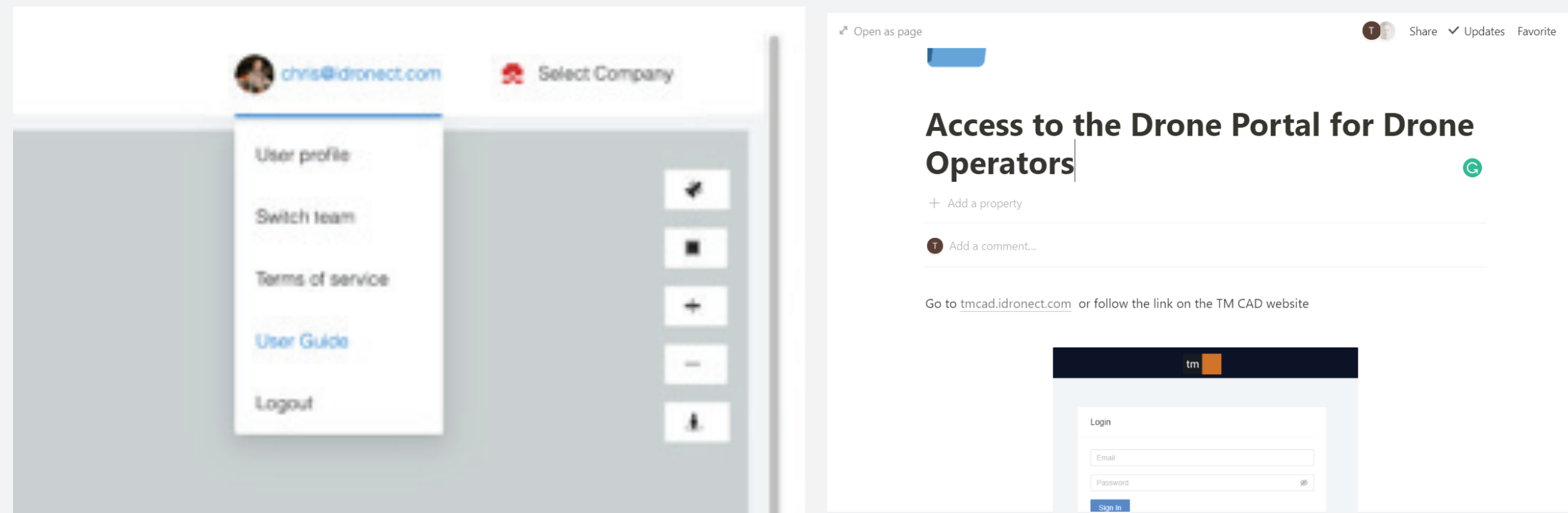
## | 100% compliant flight submission

→ Which results in swift flight authorisation

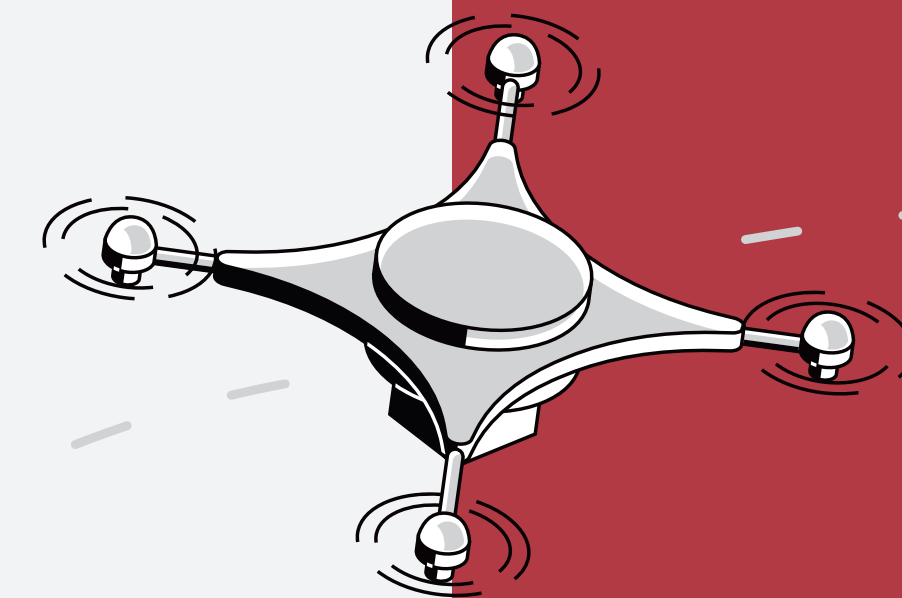


# + Support

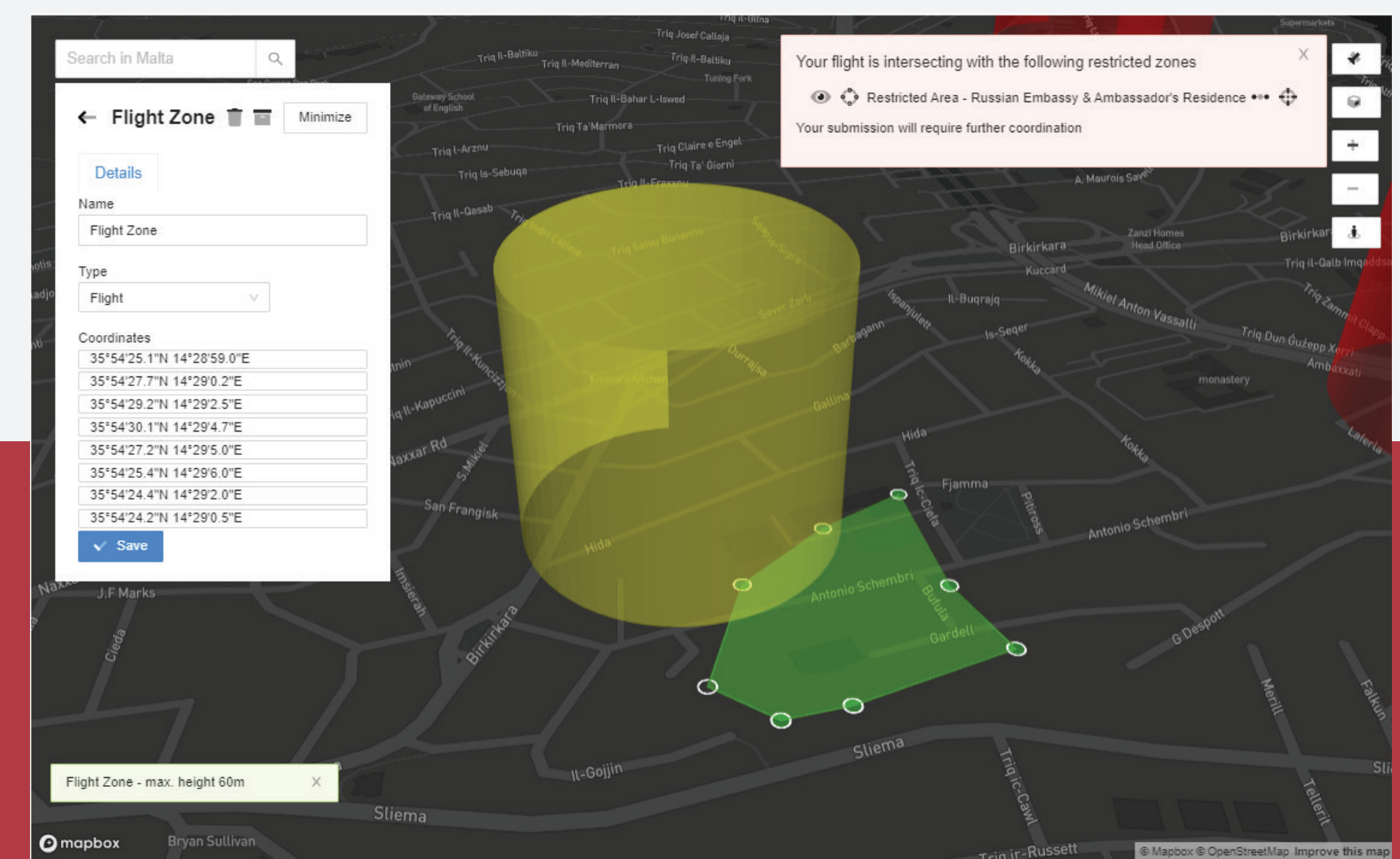
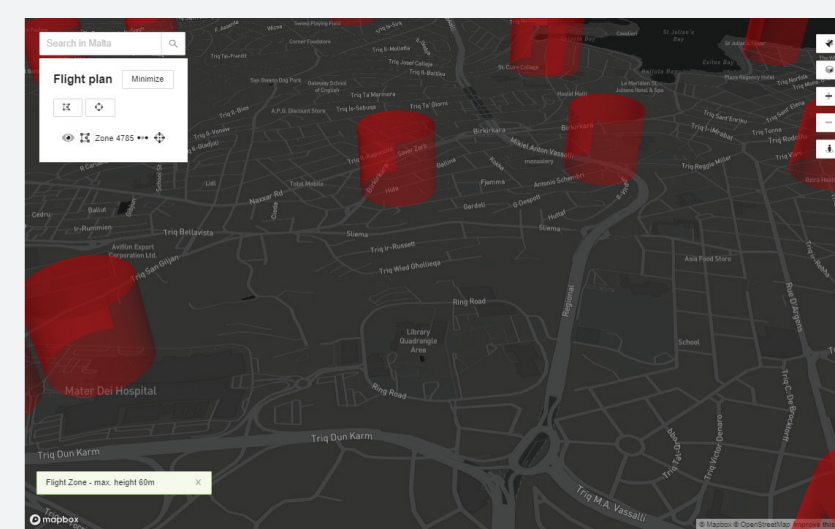
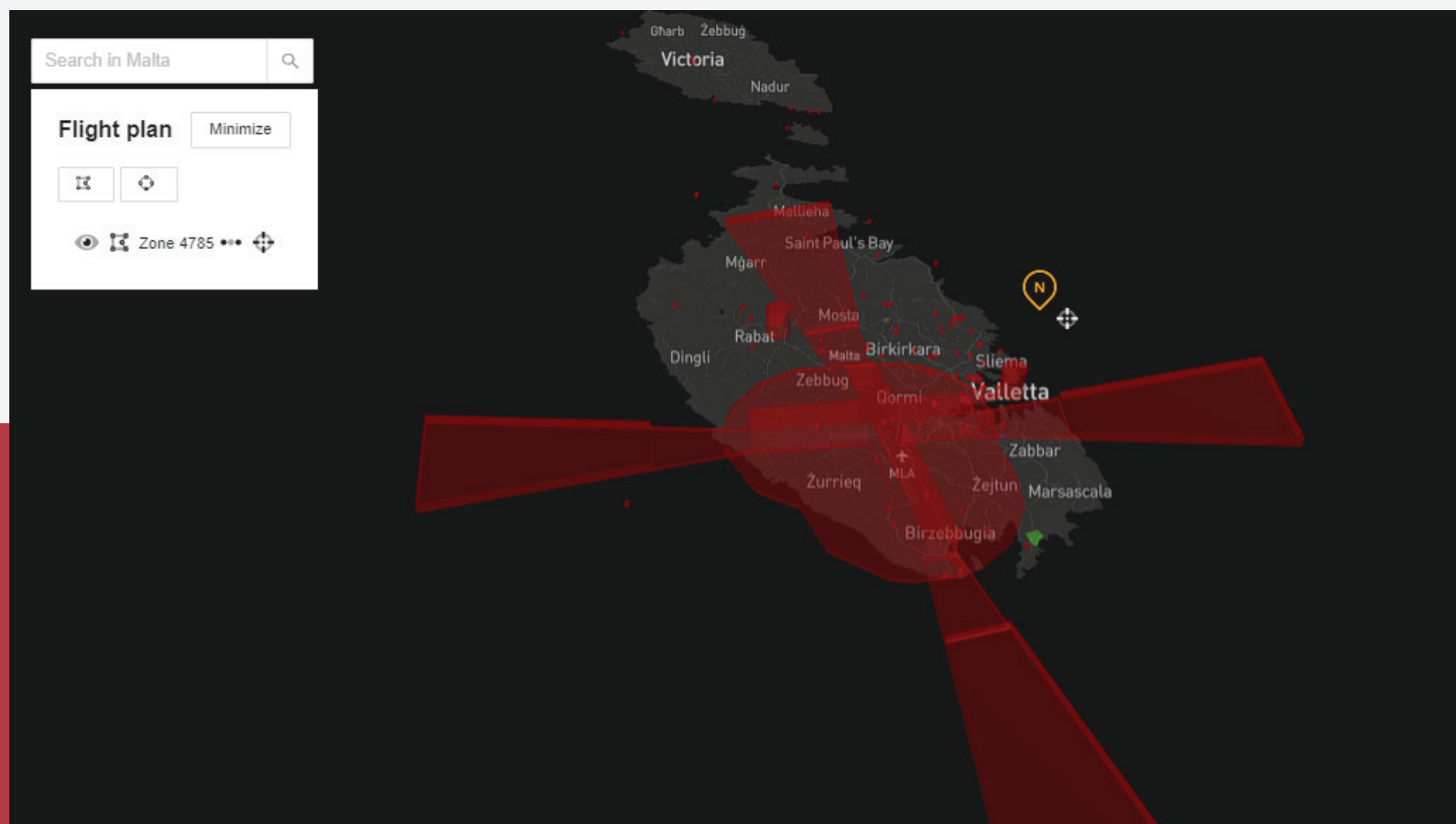
## I Userguide in the application:



## I Dedicated Support from IDRONECT team: **info@idroneconnect.com**

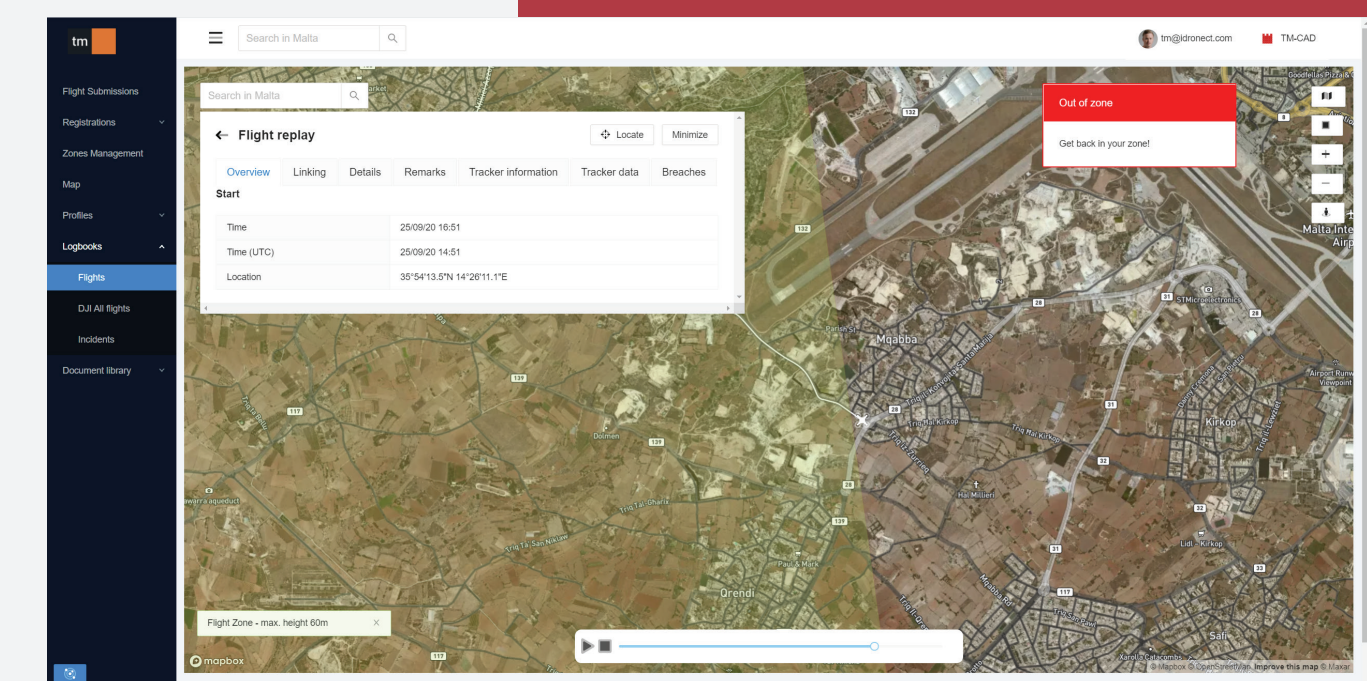
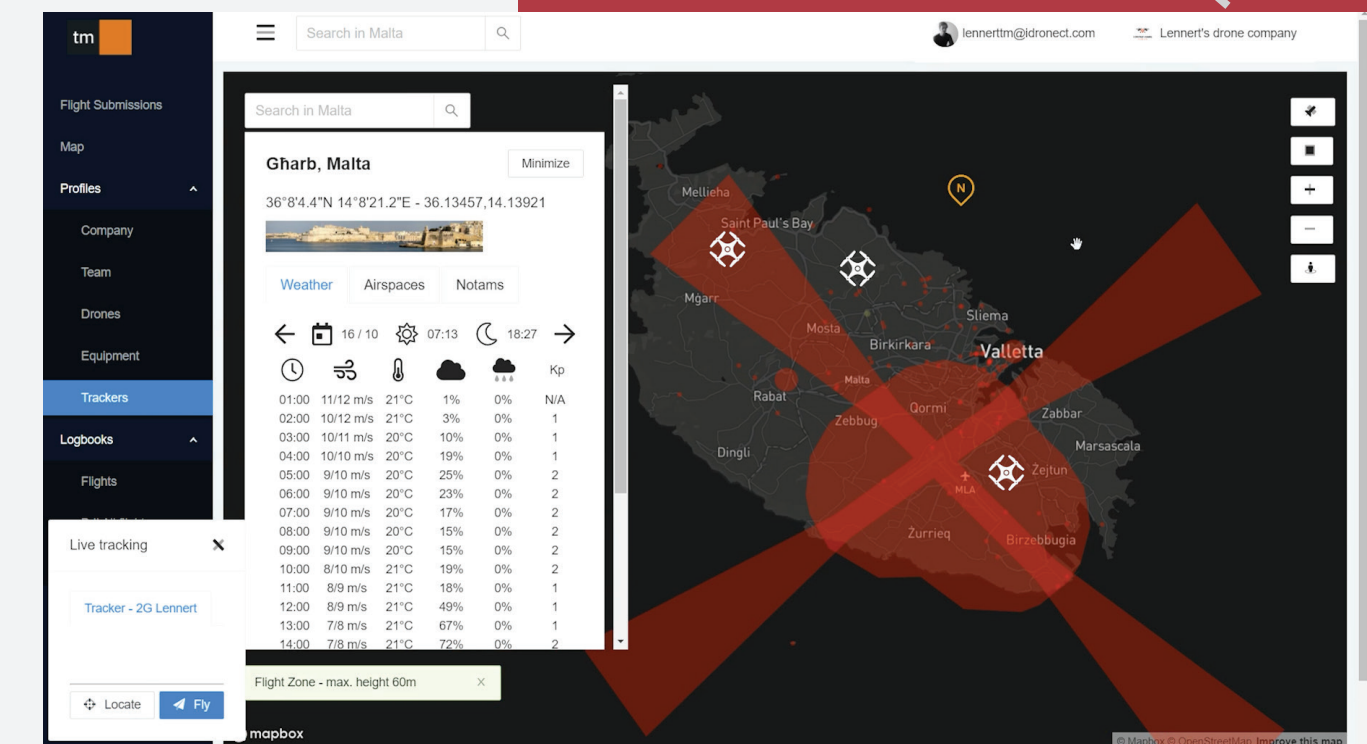
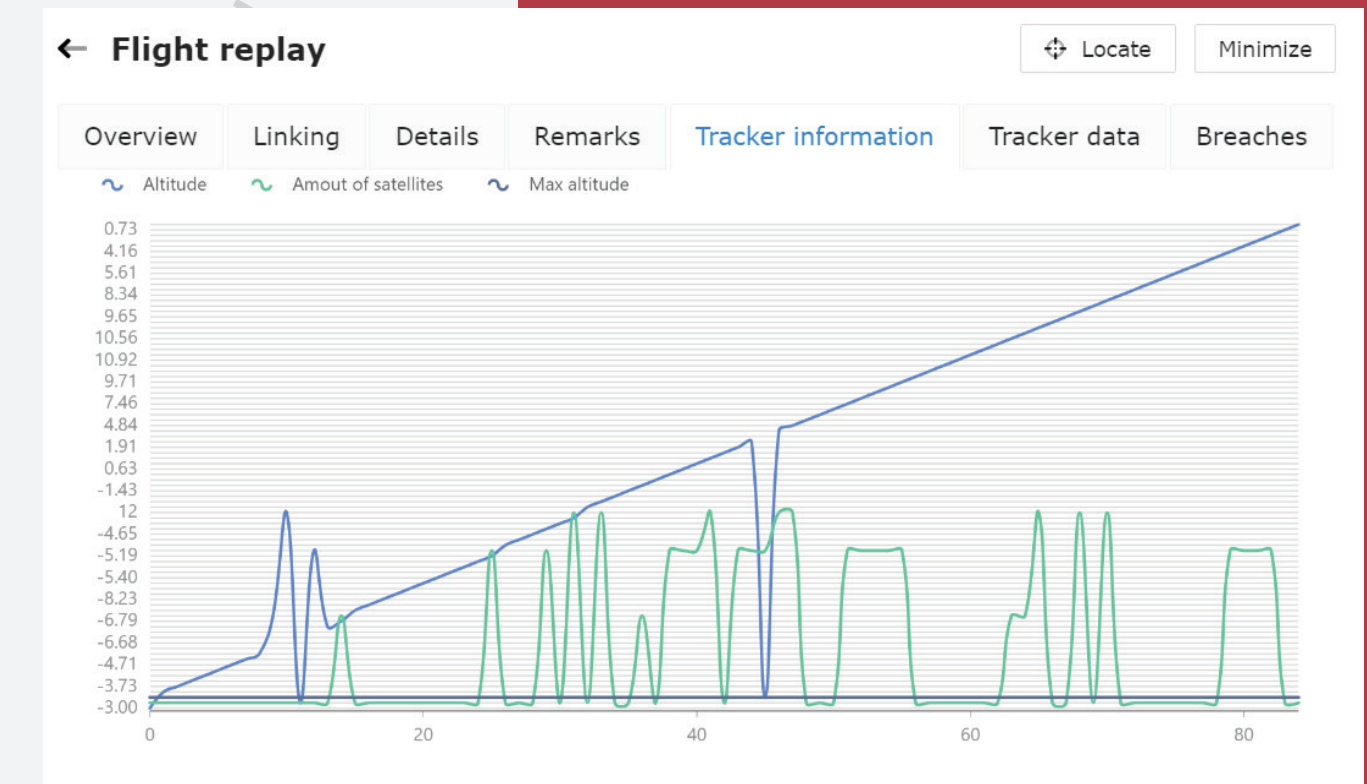


# + ZONE MANAGEMENT: create your own zones



# + Tracking, geofencing and breach control

- Part of Specific Approval cases
- Tracking device
- Real-time monitoring by operator and authority
- Recording of flight parameters, allowing replay of the flight
- When breach is detected, notification in-app and by SMS
- When breach occurred, safety report required.



# + Traffic Deconfliction





tm Search in Malta tm@idronect.com TM-CAD

← **TM000002030** Revoke authorization Archive + Add a new comment Download PDF Authorized

[Details](#) [Flights](#) [Comments](#) [Licenses](#) [Files](#) [Breaches](#)

Strategic Deconfliction

Flight Submissions Search table Refresh

Submission Code	Submission Date	Operator Name	Operator Phone	Start Date	End Date	Max height	Status	Actions
<span>TM000002020</span>	<span>16/10/2020 14:52</span>	Lennert Van Kerckhove	+32472037839	<span>16/10/2020 14:52</span>	<span>16/10/2020 16:52</span>	50 meters AGL	<span>Authorized</span>	 

< 1 >

Name	Lennert Van Kerckhove
Email	lennerttm@idronect.com
Phone	+32472037839
Age	22
Company	Lennert's drone company
Max. Flight height	50 meter
Start Date	<span>16/10/2020 14:52</span>
End Date	<span>16/10/2020 16:52</span>

THANK YOU

---

