



Safety Management Summit- SMS Brazil 2022 - ANAC



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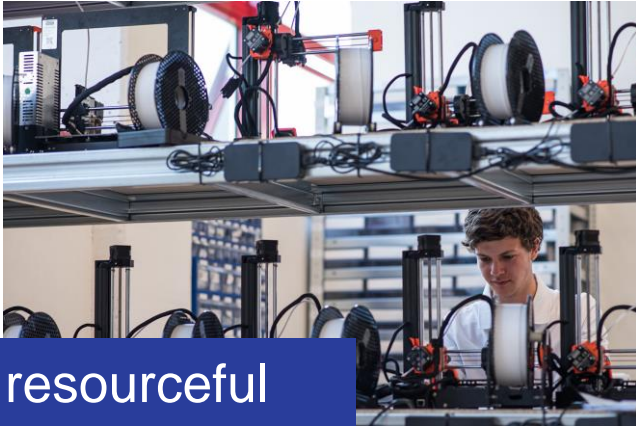
Our Mission



Be the worldwide leader in
cargo drones for
safety-critical applications.

Team of 30+ future builders

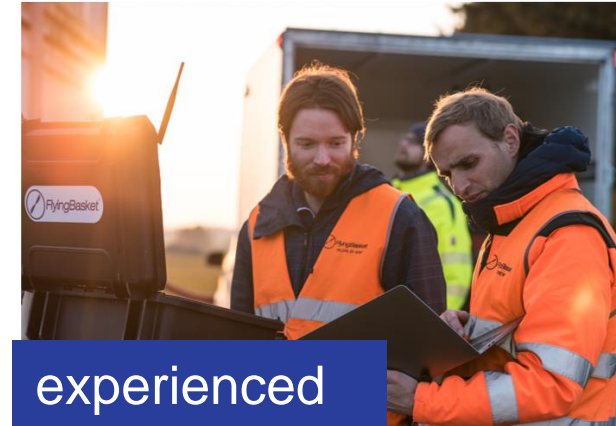
*From 14 countries



resourceful



ambitious



experienced



connected

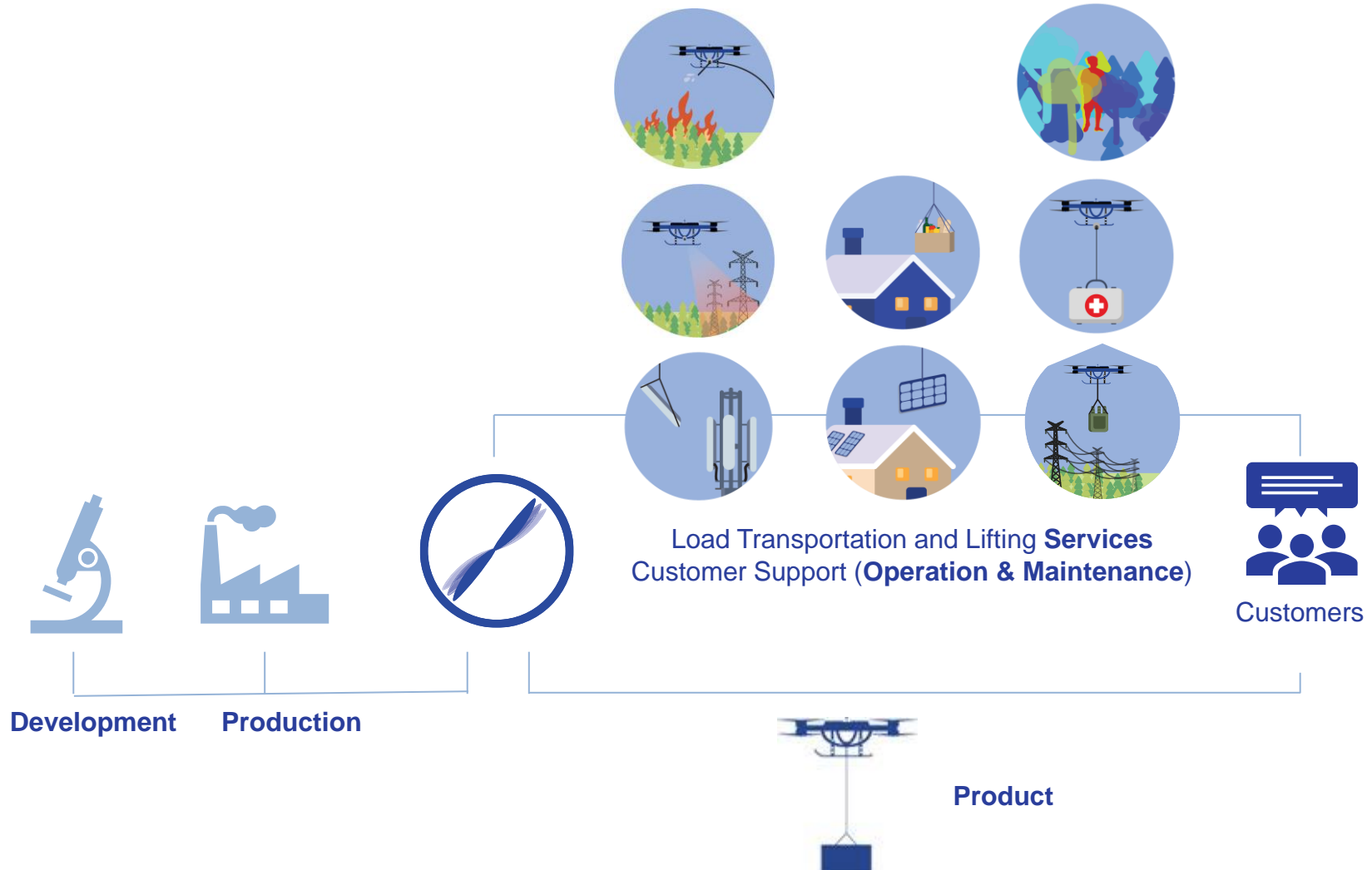


collaborative



international

FlyingBasket Activities



FlyingBasket OEM - FB3 Technical details



Max Speed **30 m/s**



70kg empty weight



Up to **100kg** of payload



Swappable Li-Ion battery



Up to **30 minutes** flight time



Maximum altitude: 3000 m confirmed,
designed for over **5000 m**





FlyingBasket

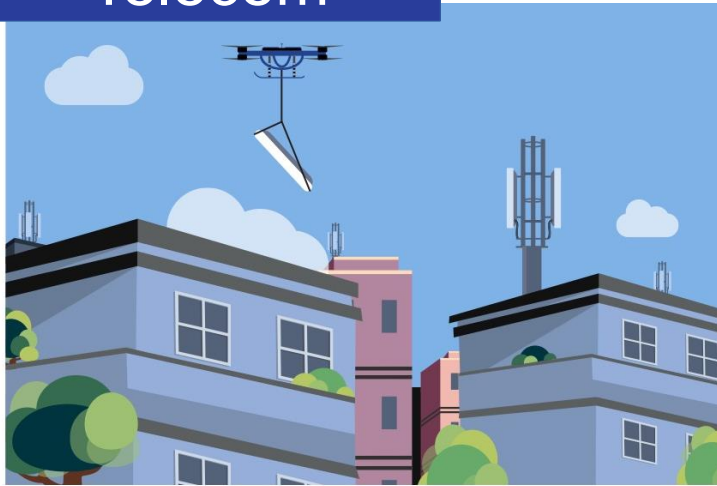
FlyingBasket
PILOTA DI APR

FlyingBasket

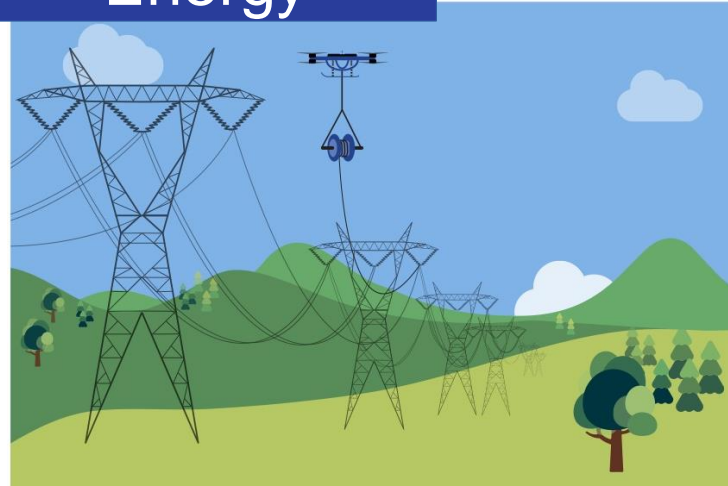
Applications



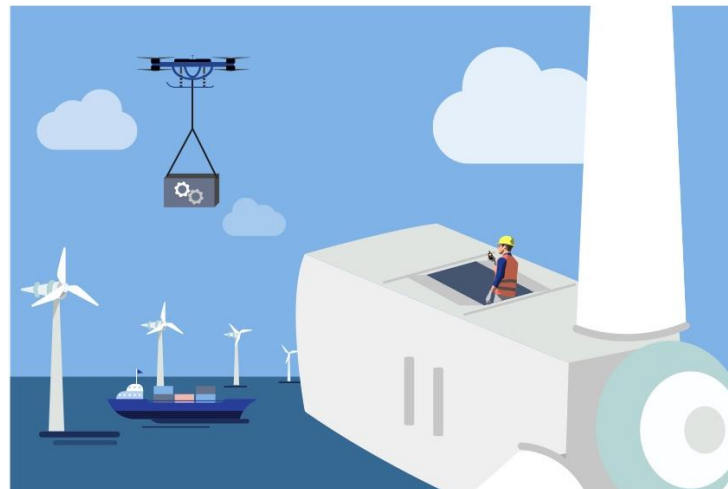
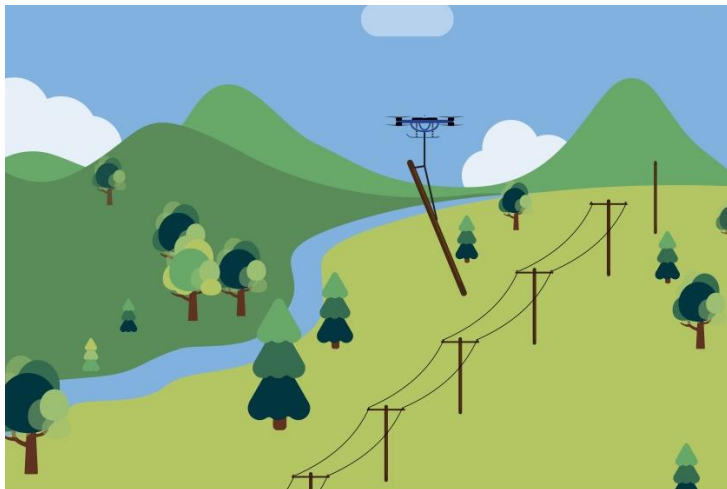
Telecom



Energy



Forestry



Operations - Forestry



 Luftfahrt-Bundesamt Bundesoberbehörde im Geschäftsbereich des Bundesministeriums für Verkehr und digitale Infrastruktur (BMVI)	
Luftfahrt-Bundesamt 38144 Braunschweig	
1. UAS operator data	
1.2 UAS operator name	FlyingBasket
1.4 Issuing Authority and Authorization number of Operational Authorisation	Italy 2021/007/AO




2000 young trees delivered



Up to 60kg each batch



Up to 600 m from the take-off area

 Autorizzazione Operativa Operational Authorization	
1. Autorità Competente Authority Relating the Authorization	
1.1 Stato dell'Operatore UAS State of the UAS operator	Italia
1.2 Autorità Competente Issuing authority	Ente Nazionale per l'Aviazione Civile (ENAC)
2.4 Numero Autorizzazione Authorization number	2021/001/AO
3. Dati UAS Data of authorized UAS	
3.1 Costruttore Manufacturer	FlyingBasket
3.2 Modello Model	FB3
3.3 Certificato di Omologazione di Tipo (CO) (se richiesto) Type certificate (TCO if required)	-
3.4 Numeri di Serie o Marche di Registrazione (per UAS Certificati) Serial number or ID registration mark (for certified UAS)	S/N 001









Operations - Telecom



austro
CONTROL

austro
CONTROL

FLYINGBASKET S.R.L.

Via Scurgia 54
39046 Ortisei
ITALIEN

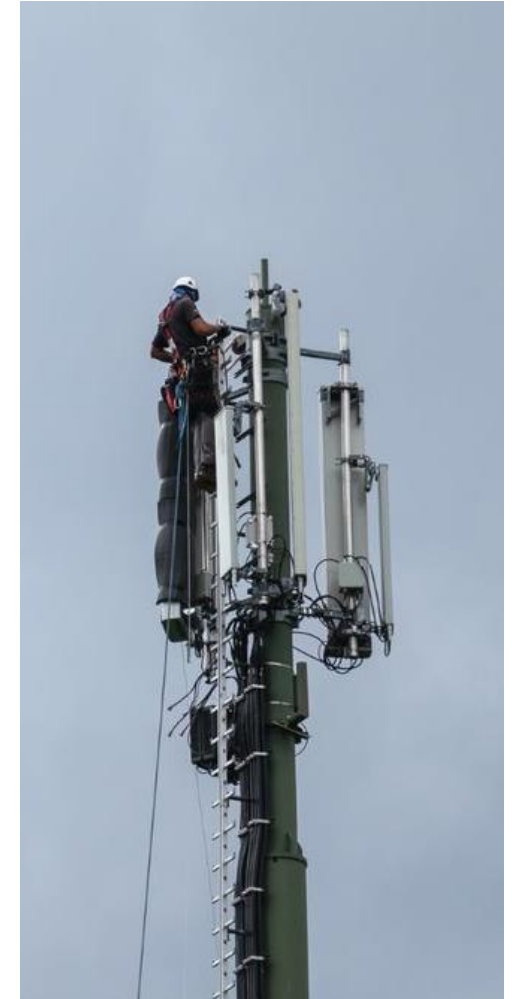
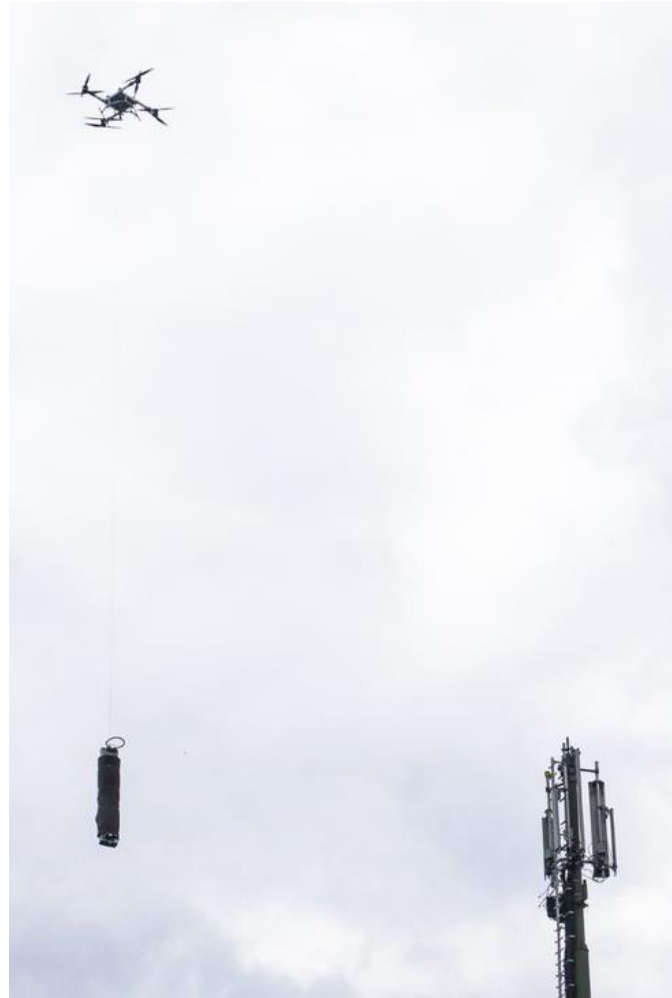
Unter-Zeichen	Ihr Zeichen	Bearbeiter / Bearbeitern	Teil / DV	Fax / DW	Wirk. am
E-LFA009-1/01-21		Andra-Annamaria Ureche	1908		06.05.2021

vorbis per E-Mail an moritz.moroder@flyingbasket.com

**Bestätigung gemäß Art. 13 Abs. 2 Durchführungsverordnung (EU) 2019/947
für den UAS-Betrieb außerhalb des Eintragsstaats**

Sehr geehrter Herr Moroder,

wir bestätigen hiermit den Eingang Ihres Antrags vom (eingelangt am , zuletzt ergänzt am) gemäß Art. 13 Abs. 1 Durchführungsverordnung (EU) 2019/947 über die Vorschriften und Verfahren für den Betrieb unbemannter Luftfahrzeuge für den UAS-Betrieb im Luftraum eines anderen Mitgliedstaats als dem des Eintragsmitgliedstaats.







Operations - Energy



Annex I to ED Decision 2022/002/R

AMC1 Article 13(1) Cross-border operations or operations outside the State of registration

APPLICATION FORM FOR A CROSS-BORDER UAS OPERATION



Application for a cross-border UAS operation in the 'specific' category

Data protection: Personal data included in this application is processed by the competent authority pursuant to [Regulation \(EU\) 2016/679](#) of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing [Directive 95/46/EC](#) (General Data Protection Regulation). Personal data will be processed for the purposes of the performance, management and follow-up of the application by the competent authority in accordance with Articles 12 and 13 of [Regulation \(EU\) 2019/947](#) of 24 May 2019 on the rules and procedures for the operation of unmanned aircraft.

If the applicant requires further information concerning the processing of their personal data or exercising their rights (e.g. to access or rectify any inaccurate or incomplete data), they should refer to the point of contact of their competent authority.

The applicant has the right to file a complaint regarding the processing of their personal data at any time to the national data protection supervisory authority.

<input checked="" type="checkbox"/> New application	<input type="checkbox"/> Amendment to confirmation of acceptability NNN-CBO-xxxxx/yyy	
1. UAS operator and approval data		
1.1 UAS operator registration number	ITAC	
1.2 UAS operator name	FlyingBasket SRL	
1.3 Operational point of contact Name Telephone Email	Thomas Markert	
	thomas.markert@flyingbasket.com	
1.4 Type of approval	1.4.1 Operational authorisation / LUC number issued by the MS of registration	1.4.2 Expiry date
	<input checked="" type="checkbox"/> Operational authorisation <input type="checkbox"/> LUC	2021/017/AO/Rev.00
2. Locations		
2.1 Expected date of start of the operation	21/03/2022	2.2 Expected end date
2.3 Intended location(s) for the operation	Wind Turbine Park South of Tjaereborg	
2.4 Operational volume height limit	90_m (300_ft)	
2.5 Airspace of the intended operation	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input checked="" type="checkbox"/> G <input type="checkbox"/> U-space <input type="checkbox"/> Other, specify	
2.6 Applicable local conditions	See attached documentation	
3. Update of the application of the mitigation means and local conditions		
3.1 Updated 'Location of UAS operation' chapter of the operations manual (OM), if applicable	See attached documentation	
3.2 Compliance evidence for updated mitigation measures and local conditions, if applicable	See attached documentation	



Urban Environment



Beyond Visual Line of Sight
(BVLOS) with Airspace Observer
(AO) over sparsely populated area

Operations - Telecom

cablex



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of the
Environment, Transport, Energy and Communications (DETEC)
Federal Office of Civil Aviation (FOCA)
Innovation and Digitalisation

CH-3003 Bern, FOCA

FlyingBasket SRL
Thomas Markert
Scurcia 54
39046 St. Ulrich
Ortisei / Italy

Document ref: BAZL-311.346-3/1/1/1/4 - BAZL-D-02633401/2043
Bern, 10 June 2021

AUTHORISATION

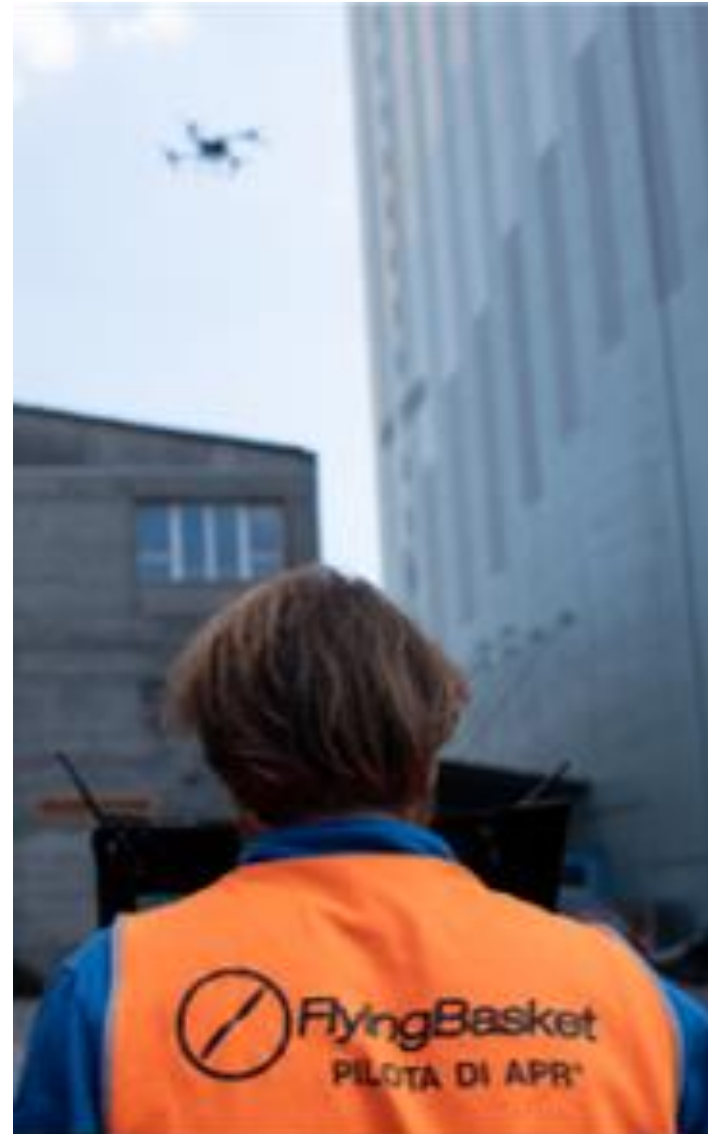
for the operation of unmanned aircraft beyond visual line of sight (BVLOS) with
airspace observers (AO) over sparsely populated areas

The Federal Office of Civil Aviation (FOCA) hereby authorises FlyingBasket SRL, Scurcia 54, 39046 St. Ulrich

based on the application made on 07 June 2021

in accordance with Article 18, para. 1(b) and para. (3) of the DETEC Ordinance on Special Category Aircraft (OSCA, SR 748.941)

to operate Unmanned Aircraft Systems (UAS) in BVLOS with AO over sparsely populated areas under the following conditions:



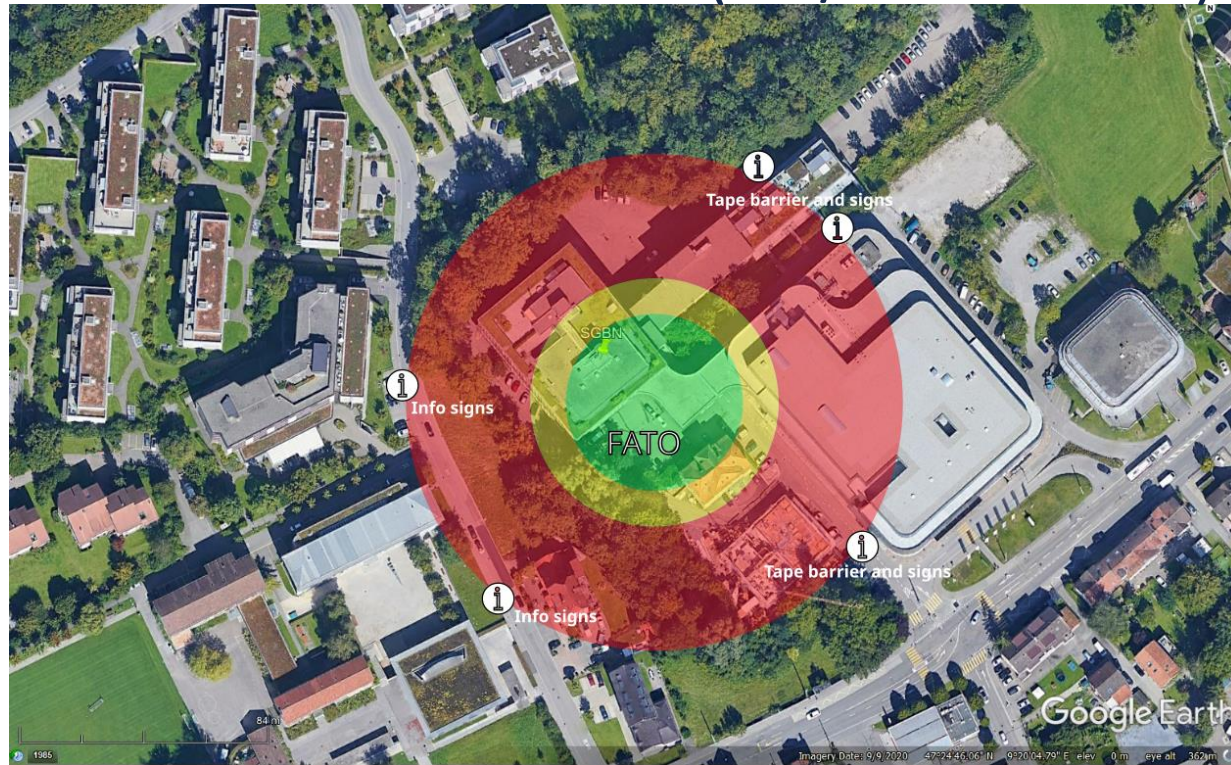


Operations - Telecom

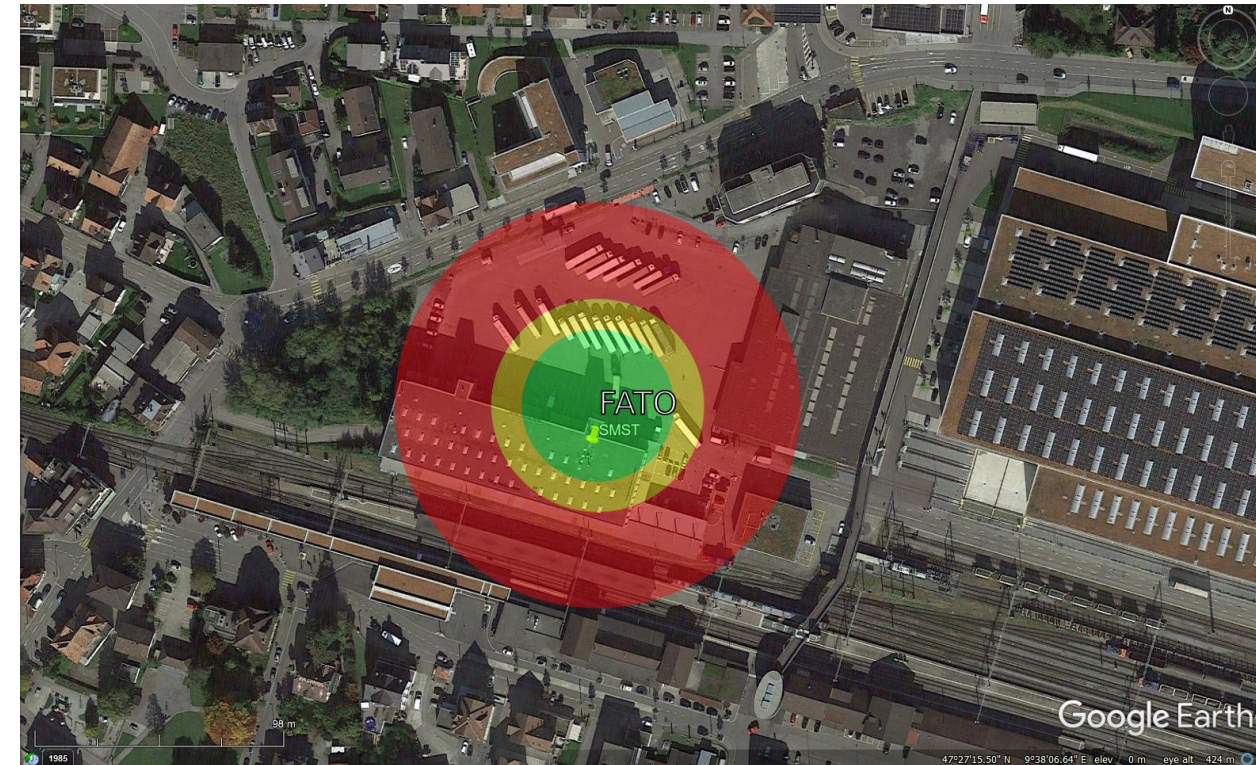
cablex



Area St Gallen - (3m/s 42m HAGL)



Area St Margrethen- (3m/s 38m HAGL)

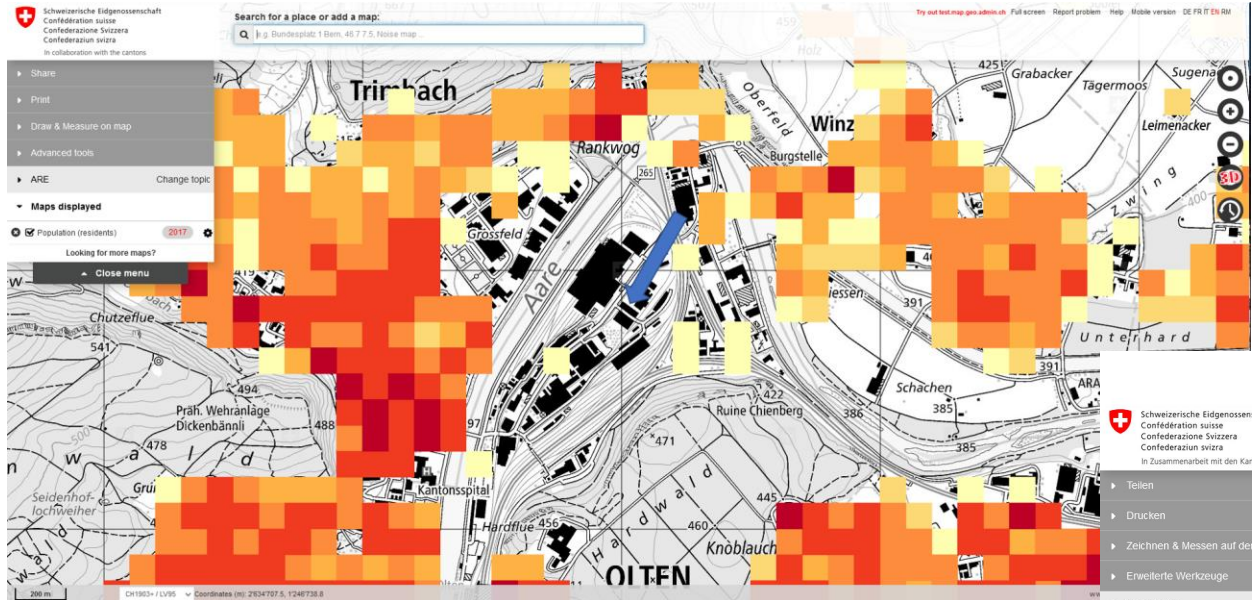


Operations - Telecom

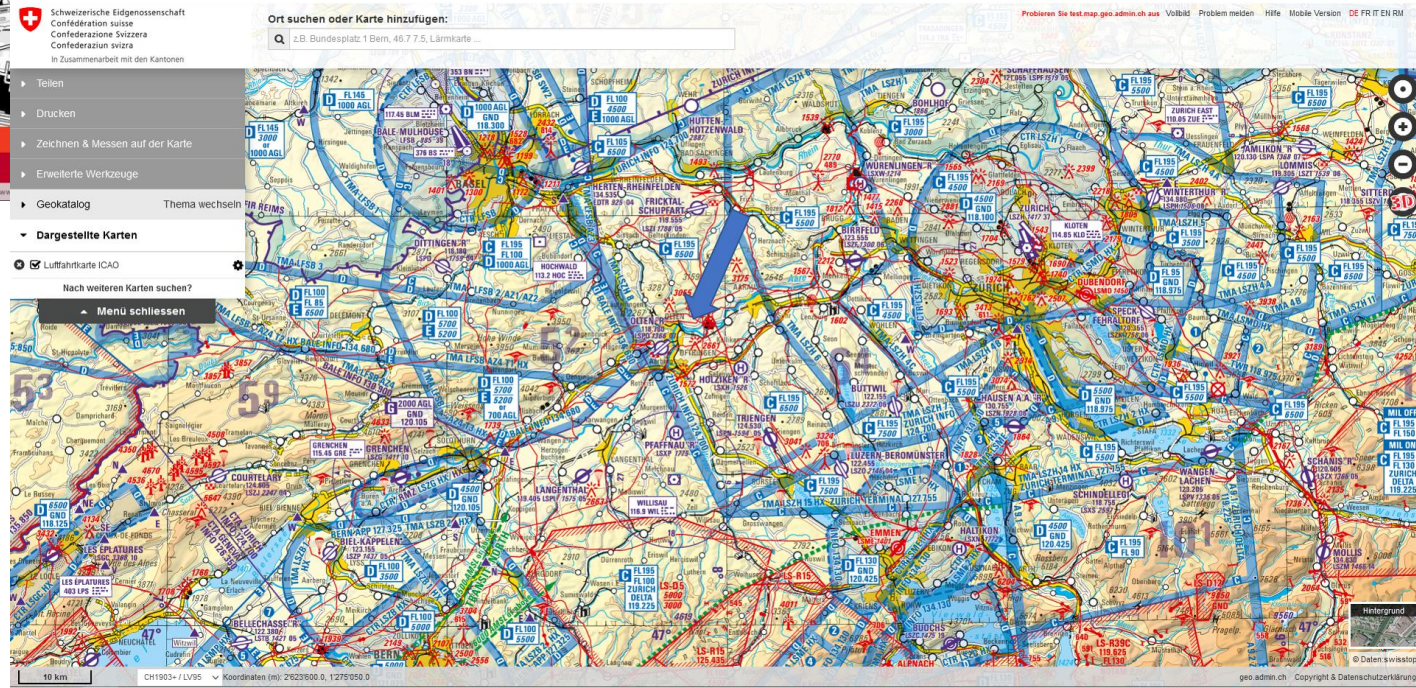
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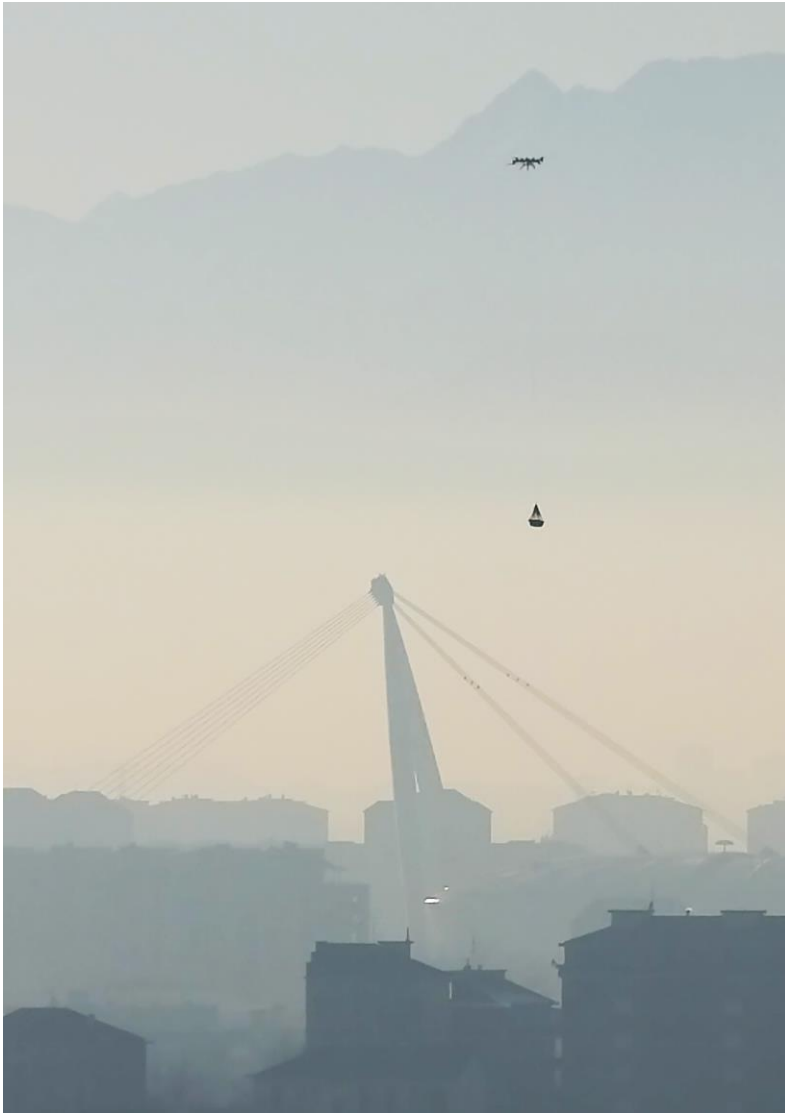
Ground risk



Air risk



Operations - Logistics



Sumeri Moderni

Posteitaliane



Performed UA Operationon



Turin Area - Stura di Lanzo



From a Poste Italiane logistics centre at via Reiss Romoli to the landfill north-west along the river Stura di Lanzo

 26 Kg

 3.9 Km to the destination
(total flight 7 Km)

European Categories

MTOM up to 600kg – Not transport people

OPEN Low risk

In principle, no prior authorization

Restrictions:
Max. 25 kg, direct visual line of sight (VLOS), Max. flying Height 120m



SPECIFIC Increased risk

Operational declaration (STS)
or
Operational Authorization from EU NAA
Predefined Risk Assessment
Or

**Specific operations risk assessment (SORA)
SAIL I-VI**



CERTIFIED Risk comparable to manned aviation

UAS Type Certificate (by EASA)
UAS Operator Certified Pilot License
Delegated Regulation (EU) 2019/945



EASA (EU) 2019/947 - Specific Category



SORA SAIL vs Requirements (EU) ED Decision 2020/022/R - AMC1 Article 11

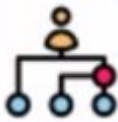
Low intrinsic risk

SAIL I and II

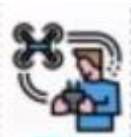


CE Or Declaration

Operational authorization (PDRA or SORA) or LUC



Development of Ops procedures – Operation Manual



Training syllabus available
And practical assessment

Medium intrinsic risk

SAIL III and IV

Declaration supported by evidence or



Operational authorization or LUC
Organization appropriate for ops

Training syllabus available
And practical assessment

High intrinsic risk

SAIL V and VI



TYPE CERTIFICATE

PART 21
CofAW

Ops certificate (including continuing AW organization) or flight test organization -
Operational Authorization

Training provided by third party (e.g. training organization)

SMS – Aircraft Operator Certificate



Light UAS operator certificate (LUC)

self-authorize our operations without applying for operational authorization

Regulation (EU) 2020/639 - UAS.LUC.030 Safety Management System

SMS – Implementation



Lessons learned to improve our SMS:

3 Incidents on Ground Controlled Areas

SMS – Implementation

1. (SMS-13) Drone crash in test area ex NATO
(Supplier error in **SW development and communication**)



SMS – Implementation

2. (SMS-83) Loss of control and crash carrying 100kg
(Human error as Operator)



SMS – Implementation

3. (SMS-115) Loss of one motor, explosion of ESCs and crash carrying 50kg
(Design Failure as Manufacturer)



SMS – Implementation

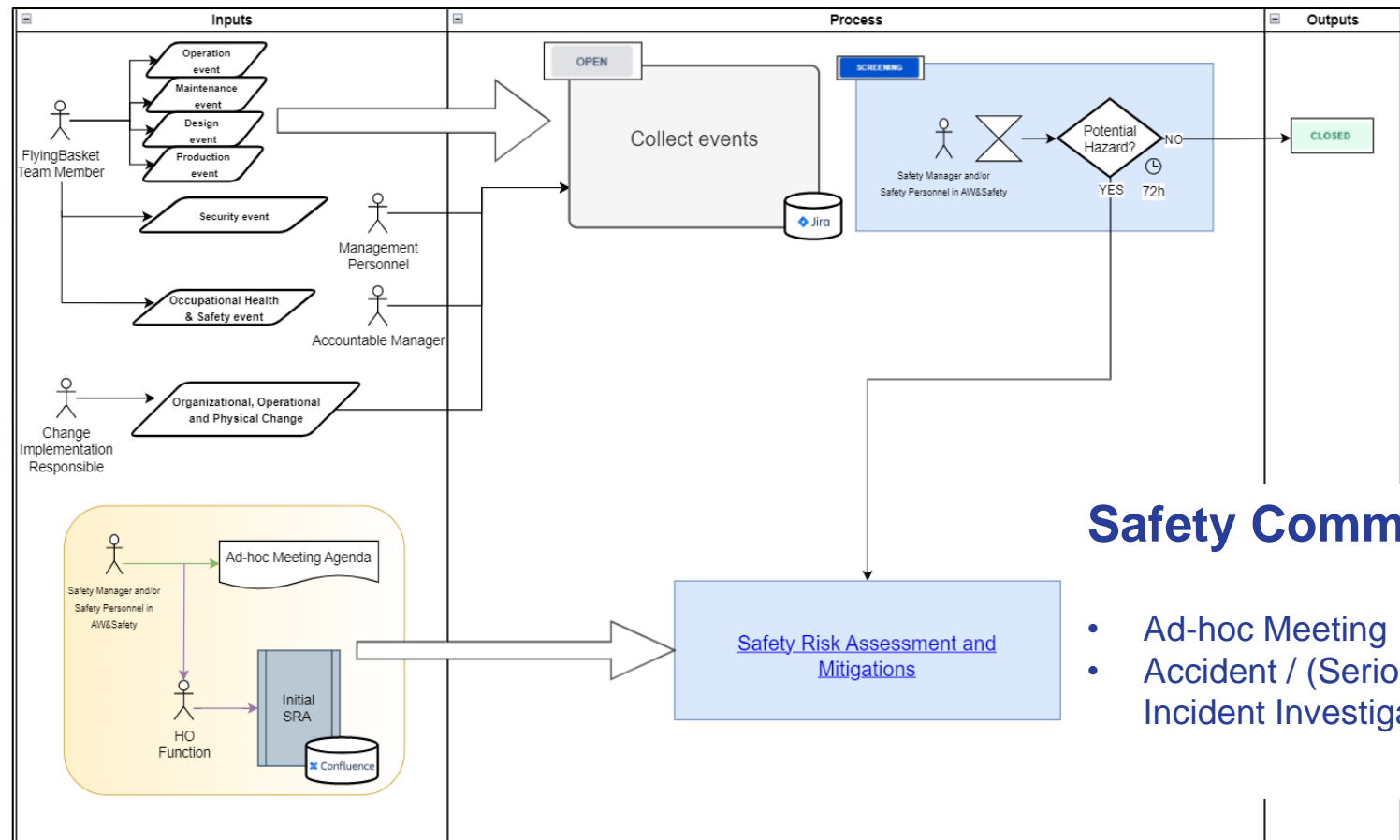


1. Safety Risk Management
2. Safety Assurance
3. Safety Promotion

SMS – 1. Safety Risk Management

GOAL:

- to reduce and maintain risk at an acceptable level.
- to prevent the occurrence of accidents / serious incidents / incidents.



Safety Committee:

- Ad-hoc Meeting
- Accident / (Serious) Incident Investigation Meeting

SMS – 2. Safety Assurance

GOAL:

- to monitor and improve all our SMS activities.

- ✓ Safety Assurance
 - › Safety Performance Monitoring and Measurement
 - › Management of Change
 - › Safety Surveys
- ✓ Continuous Improvement of our SMS
 - › Lessons Learned



Safety Committee:

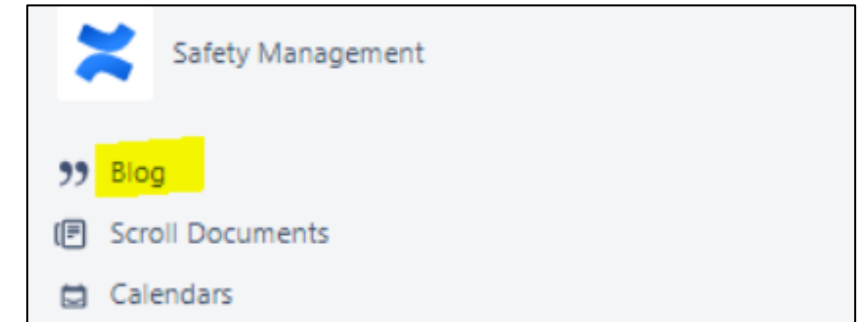
- Regular Meeting

SMS – 3. Safety Promotion

A. Call to Action for Safety (every month)



B. Safety Blog (every 2 weeks)



SMS – 3. Safety Promotion

A. Drone Regulatory Framework (onboarding)



C. Emergency Response Plan (4x/month)



B. Safety Management System (onboarding)



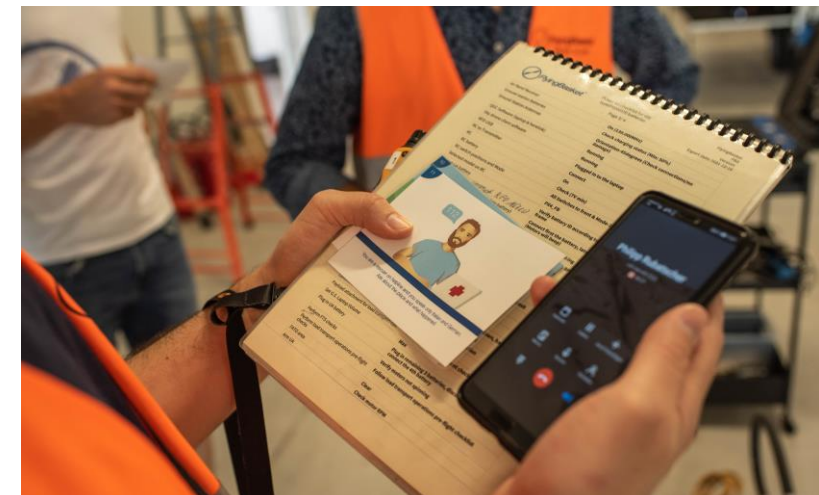
Safety Management System Training

Each FlyingBasket (FB) team member will be able to contribute to positive safety culture and the empowerment of each team member by becoming technical competent in the FB's SMS, providing effective communication, and sharing information while embracing the FB's values.

The focus of the SMS training is to transmit the basic concepts of the Safety Management System (SMS) and their responsibilities and involvement in safety matters in our organization. All FlyingBasket shall receive this basic course.

★★★★★ Add a review

Course Reviews





The future of transportation is now.

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+34 660 979861
info@flyingbasket.com

