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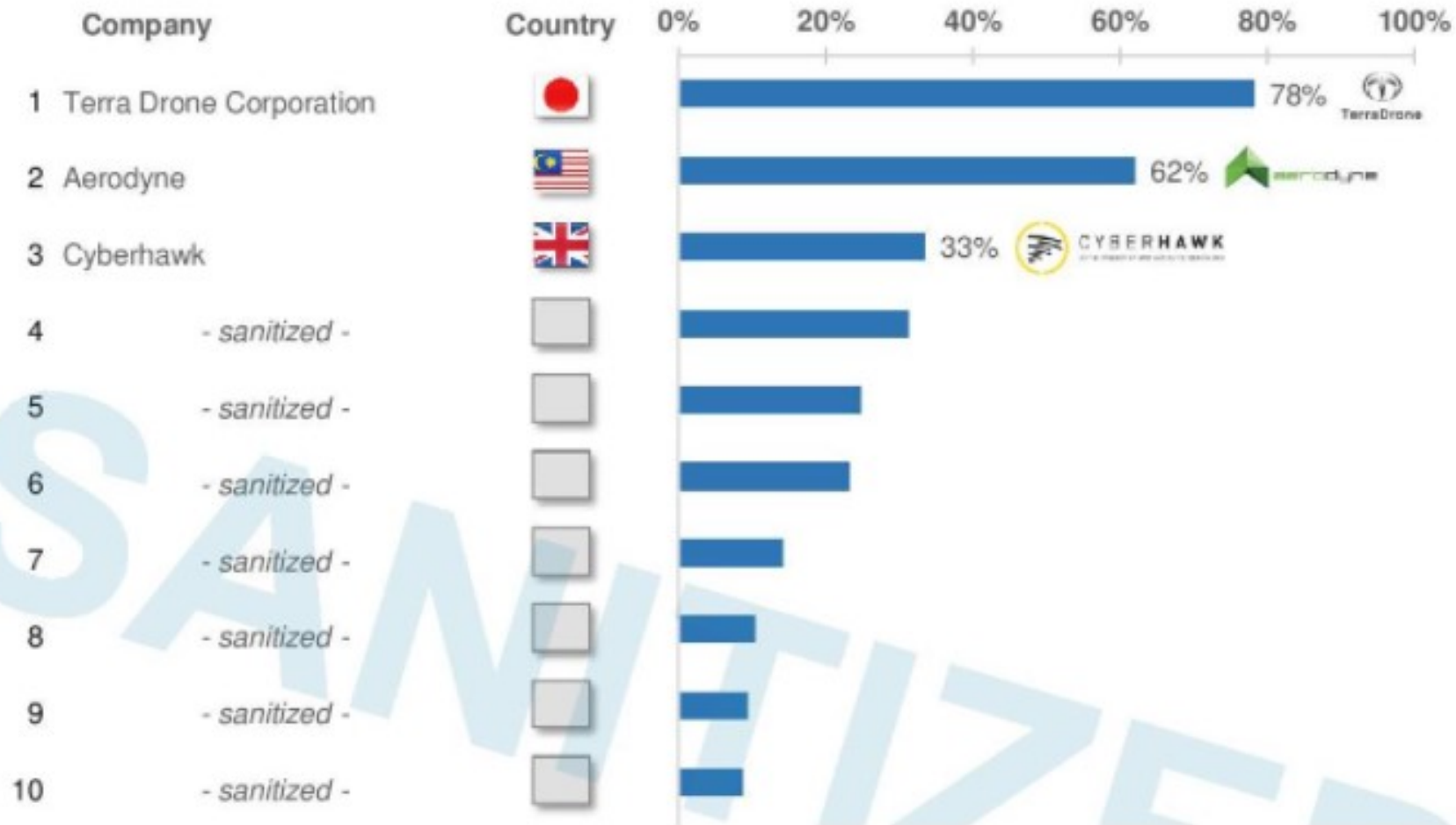
1. Who we are



Established in 2016, Terra Drone Corporation is a drone startup which has quickly expanded its global footprint to become a leading provider of industrial drone solutions in the world. Our head office is located in Tokyo, Japan, and global branches are spread throughout the Asia-Pacific, European Union, Africa, and South America.

We provide innovative and reliable drone services by leveraging the advances in unmanned hardware, sophisticated LiDAR and photogrammetric surveying methods, and drone data processing techniques powered by machine learning and artificial intelligence technologies.

2.1.1 TOP 40 RANKING (1/2)



Oil Palm Plantation

The utilization of data in form of aerial map produced by drone in oil palm industry can be vary. Until today, the exercises include tree counting and health assessment, due diligence for asset valuation, flooded land identification, slope analysis, geographical situation update, concession registration and boundary update, as well as contractor's work monitoring and assessment.



Mining

Information captured using drone can be used for mining companies in every stage they face: planning drilling point for sampling, documenting land change, calculating stockpile volume, and monitoring the site from third party activity. When entering reclamation phase, drone can also be used to document the work for legal requirement as requested by Ministry of Energy and Mineral Resources.



Construction

Drone application in engineering & construction sector always relate with improvement of resolution and accuracy. Visual data is needed as foundation in designing and planning construction works such as feasibility study, cut & fill activity, grand design, and other agenda that will affect the Build of Quantity (BOQ) of the total works. It can also be used for environmental impact analysis or AMDAL. Besides, it can also help contractor to monitor and document construction progress in higher precision level.



Urban Planning

In measuring the effectivity of managing land in Indonesia, either urban or rural area drone can be utilized optimally. Its ease of use, supported with higher resolution and accuracy of the images they produced, can show the actual situation of an area. The data generated can provide information regarding urban planning, economic distribution, land registration, or even disaster mitigation. It is also aligned with what Indonesia government is targeting, which is to register all the land concessions across the archipelago.



Agriculture

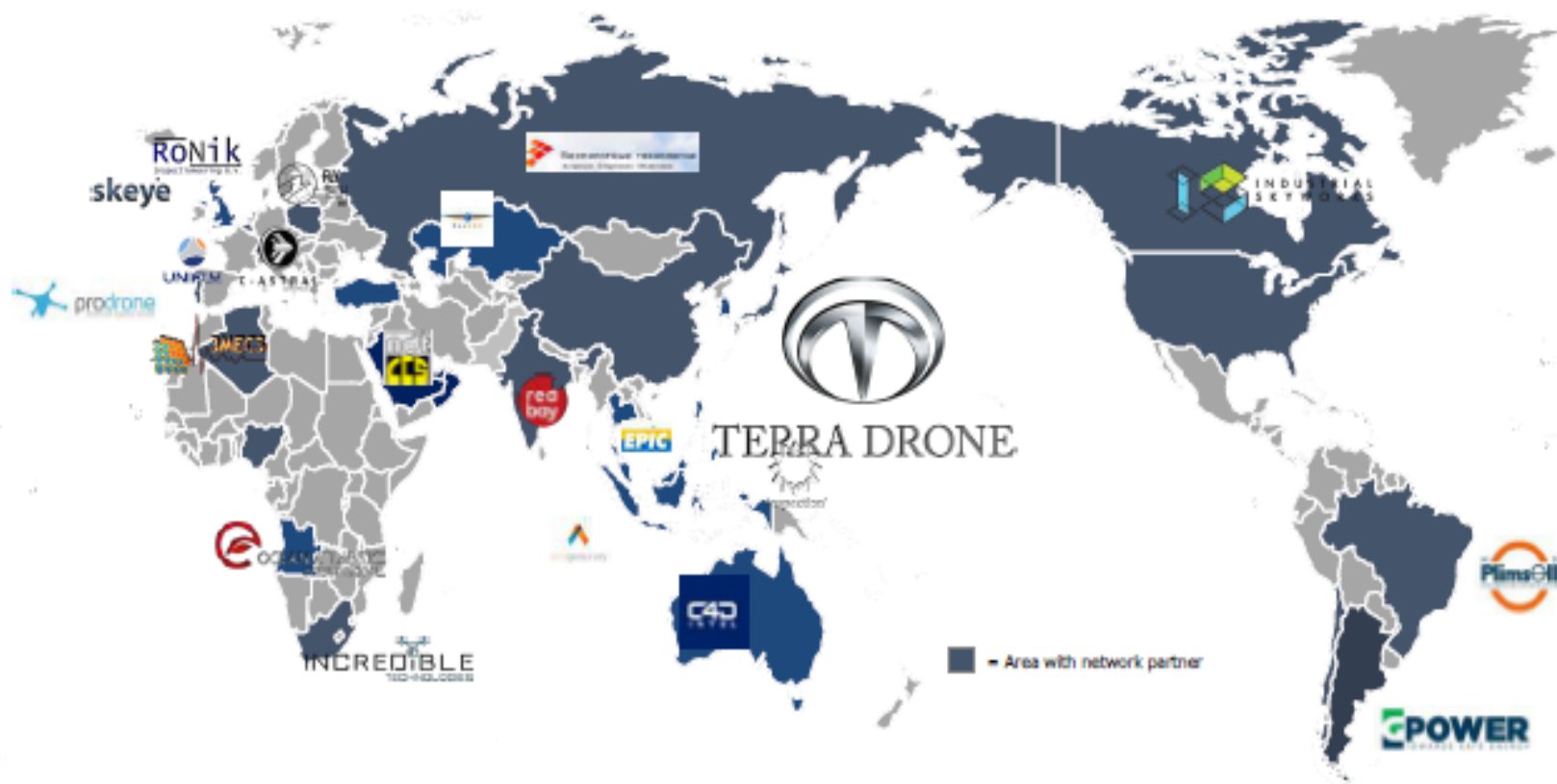
Drone can be used to fulfill data required regarding agriculture land being managed. The images captured by drone can show the situation of the land. By using new technology such as multispectral camera, more data can be represented, including crop health and weed distribution.



Inspection

Efforts to increase the productivity in exploiting oil and gas sources always face high risk activities to their workers. To minimize the risk, drone technology can be used to replace them in hazardous tasks such as inspecting tall features like flare stack and chimney.





2. What we do

Oil&Gas



Power/Utilities



Mining/Quarry



UTM



Construction





ATS Ai450 v2.5 ER

Ai450 v2.5 ER is a drone designed and manufactured by AeroTerrascan. It is specifically designed to meet the needs on aerial mapping activities, especially in oil palm plantations and industrial forestries. Ai450 v2.5 ER is very suitable to be used in the case of mapping a large area because the drone can cover up to 1,000 hectares on each flight.

Model	Role	Duration	Coverage	Resolution
Flying Wing	Aerial Mapping	70 minutes	± 1,000 ha/flight (GSD 12 cm/px)	24.0 MP



Terra Atlas c4eye

This drone is specifically engineered to perform surveillance, monitoring, and patrol activities. It is equipped with super advanced camera that can automatically track suspicious objects in its footprints. Besides, it is also equipped with high gain antenna to transmit video link up to 15 km.

Model	Role	Duration	Coverage	Resolution
Flying Wing	Aerial Monitoring	90 minutes	± 90 km/flight	Full HD Live Streaming

Flying Wing Model	Aerial Mapping Role	Duration	Coverage	Resolution
		60 minutes	(GSD 5 cm/px) ± 450 ha/flight	24.0 MP



Terra Wing Geo

A small flying wing engineered by Terra Drone Corporation that is suitable for aerial mapping and modeling activities. Despite its small size, the drone is very durable and easy to use. It is equipped with dual frequency RTK/PPK positioning system to provide data with high accuracy.

Terra Atlas ppX

The drone has identical configuration with Atlas c4eye but this one is purposed for aerial mapping & modeling. Equipped with 42.0 MP, this drone is capable to provide sub-cm resolution with high accuracy because it is using PPK positioning technology.

Flying Wing Model	Aerial Mapping Role	Duration	Visual Camera Thermal Camera Compatibility	Resolution
		90 minutes		42.0 MP



Terra LIDAR

This multirotor is perfect to carry heavy payload such as LIDAR. Its redundancy system also allow this drone to be operated in various situations including high altitude locations. Unlike other LIDAR system, Terra LIDAR does not use IMU for attitude determination but a set of single frequency positioning system, allowing the reduction of investment of the equipment.

Model	Role	Duration	Compatibility	MTOW
Hexacopter	Heavy Payload	15 minutes	LIDAR	12.0 kg



Terra Slam

This drone is specifically designed for underground mining operation. The intention is to be able to locate itself without GNSS while modeling the tunnel with high precision data. It is also equipped with anti collision frame and wheels.

Model	Role	Duration	Compatibility	Feature
Rover Hybrid	Underground Modeling	15 minutes	Mini LIDAR Visual Camera	Self Positioning Live Streaming

Quadcopter Model	Aerial Inspection Role	Duration	Visual Camera Thermal Camera Compatibility	4.0 kg MTOW
		20 minutes		

DJI M210

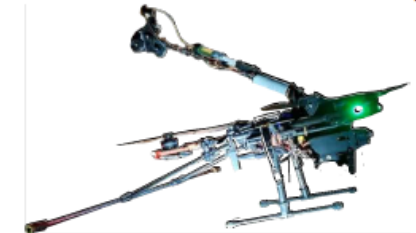
DJI M210 provides immersive set of sensors to be used for aerial inspection activities. These include high resolution camera, ultra zoom camera, and thermal camera. Its electromagnetic proof can also be useful for operation in substation and powerline.



Terra Ultrasonic

Inspection, especially ultrasonic testing for thickness measurement never been easier since the appearance of drone engineered by Ronik. By using this solution, UT can be done very quick and only require a handful of operators and inspectors.

Quadrotor Model	Ultrasonic Test Role	Duration	Ultrasonic Sensor Compatibility	Contact Anti Collision Feature
		10 minutes		



UTM

(Unmanned Traffic Management)

Ensuring safe and secure integration of drones in the society



Terra UTM is a platform that delivers peace of mind to commercial drone operators.

The one-stop-solution enables safe and easy usage of drones by bringing all essential information such as national drone laws, local regulations, weather, topography, radio waves, etc., on the fingertips of drone pilots.

Terra Drone Europe aids Djibouti in flood damage mitigation and port inspection

🕒 2019-06-20 | 📄 Terra News

Terra Drone Europe has conducted aerial photogrammetric pavement assessment in the Horn of Africa



MURC、アフリカでドローン医薬品輸送目指す

2019年10月30日 (水)

>> この記事を印刷する (PDF)

■ 国際 ■ シンクタンク・コンサルティングファームの三菱UFJリサーチ&コンサルティング (MURC) と産業用ドローンプロバイダーのテラドローン (東京都渋谷区) は 30日、国際保健医療の領域でドローンを活用した新規事業を創出するため、企画開発、実証事業を協力して行うことで合意した、と発表した。

再社は今後、アフリカでドローンを活用した医療用物資輸送の改革に取り組むなど、新規事業の創出を目指すほか、持続可能な開発目標 (SDGs) の達成に向けてドローン技術とその活用事例を、市民社会、企業、学術機関などに広く普及させるための活動にも取り組むという。

テラドローンは、東京本社と全国7支社に加え、アジア、ヨーロッパ、北アメリカ、南アメリカ、アフリカ、オセアニアの世界25か国以上に支社を構える世界最大規模の産業用ドローンソリューションプロバイダーで、特に、ドローンの運行管理システムの構築を強みの一つとしており、保健医療分野におけるドローンの普及が大きく促進されることが期待される。



▲テラドローン提供のドローン「テラライダー」 (出所：テラドローン)

既存ドローンビジネス (Zipline社) のモデル



- 大掛かりな配送拠点の建設
- 配送拠点からの片道輸送
- 人的リソースがかなり高コスト

提案モデル



- 既存の医療機関に離発着装置を設置
- 多拠点を繋ぐネットワーク型デリバリー
- 小口輸送で低コスト

3. What we aim



Vision

代表挨拶

今こそ、日本全体がもう一度立ち上がる時です。
Terra Groupはその先頭に立ち、日本人の誇りを蘇らせます。

Terra Groupは日本が世界に誇る技術分野で、設立当初からグローバル市場で戦う事を前提に創業された企業です。
新しい市場を生み出しリード出来る存在になる事で、日本発のベンチャー企業が世界で通用することをもう一度証明
します。また、日本社会、特に若者をインスパイアして、世界で勝負すること、高いハードルを乗り越えリスクに挑
戦することが当たり前の日本社会をつくる事に貢献します。

テラドローン株式会社

代表取締役社長 徳重 徹

Thank you for listening!