



TARRA  
EARTH





# TARRA EARTH

## About Us

Tarra Earth, is a sub-brand of Tarra Tech, specializing in design, development, and delivery of professional drone services tailored to various industrial needs.

We combine sound technical expertise and proven field experiences to provide efficient, safe, and data-driven drone solutions. Our key focus areas are offering mapping, surveying, and monitoring services suitable for clients in mining, plantation, and oil & gas industry.

Backed by a team of certified technical professionals and supported with the latest technologies in drones sensors – from high-res RGB camera, thermal sensors, to AI powered data processing systems, Tarra Earth are committed to deliver operational efficiency, risk minimization, and strengthen our client's infrastructure monitoring capabilities.



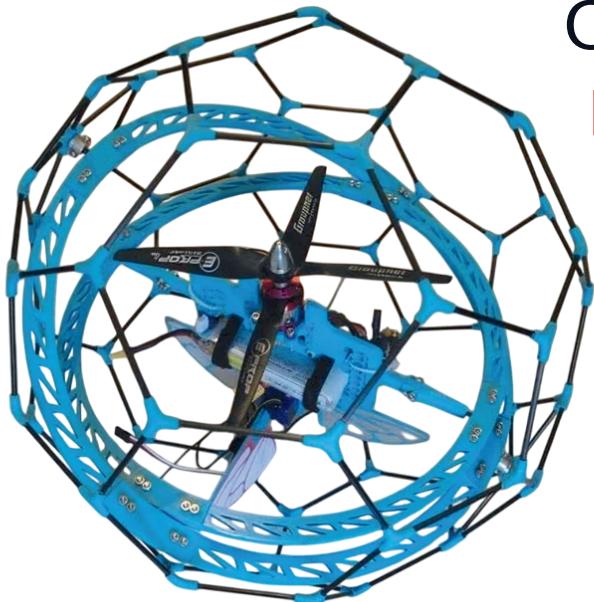
## Mapping, Surveying, and Monitoring

- Terrain Mapping & Surveying (3D Mapping)
- Slope Stability Monitoring (Detecting changes in terrain)
- Underground Mine Mapping
- Environmental Monitoring
- Stockpile Monitoring
- Mine site and assets surveillance
- Pipeline & Infrastructure Monitoring, Mapping and Surveillance (Detailed mapping of well sites, pipelines, and other infrastructures, facilitating in asset management and maintenance)
- Environmental Assessment (Assess environmental impacts of operations)
- Well Site Planning & Monitoring



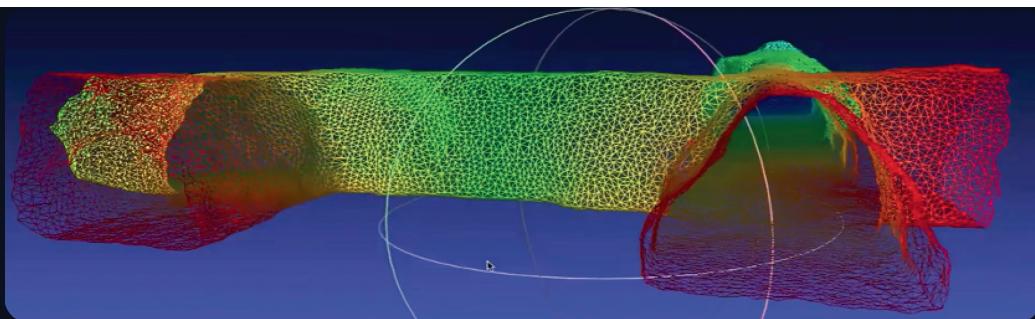
## Inspection

- Confined space inspections of shafts, tunnels, and other underground structures integrity
- Post-Blast inspection (To ensure safe entry after detonation)
- Remote area inspections
- Asset inspections (Inspect and monitor the integrity of infrastructure)

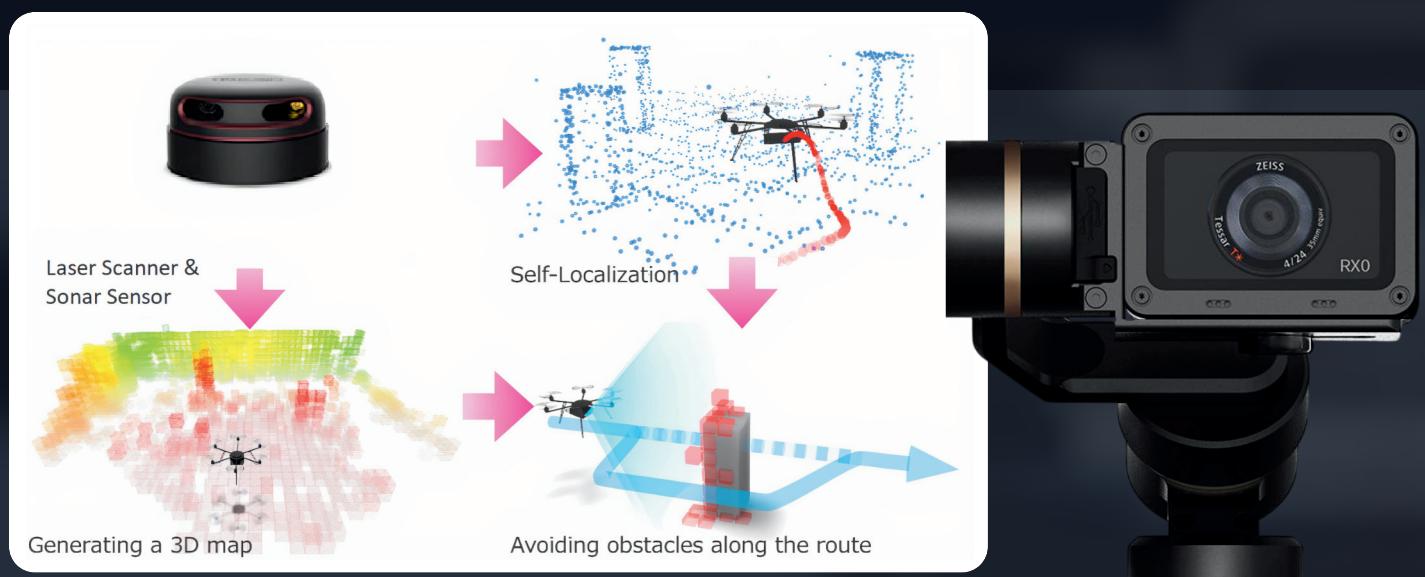


## Our **services** are suitable for **Mining, Plantation, Oil & Gas**

- Collision Tolerant Design
- Advanced Sensors (LiDar, HD cam, Thermal cam, High Resolution Aerial cam, Multispectral RGB Cam)
- Remote Piloting
- Real Time Data Transmission with live video feeds & data transfer for immediate analysis and decision making)



\*The core technology of the terrestrial laser scanning is the LiDAR technique, which is used to obtain the distance of each object point from the lens. The laser system produces and emits a beam (or a pulse series) of highly collimated, directional, coherent, and in-phase electromagnetic radiation. When the light reflected by the surface of an object is received, the system can calculate the range by the flight time and acquire the reflectivity of the surface



3D localization sensor on the drone for autonomous flight.



Tarra Earth team are supported by professionals with wide ranges of experiences in the design, operation, maintenance, and application of unmanned aerial vehicles (UAV's);

### **PROF. DR. IR. GESANG NUGROHO, S.T., M.T.,**



Professor of Mechanical Engineering and Head of Mechanical Technology Laboratory since 2012 at the prestigious Universitas Gadjah Mada in Yogyakarta, Indonesia. Prof. Gesang is an important figure in drone technologies development in Indonesia, with over 20 years of experience in UAV research and development and two successful UAV built under his wing, the Palapa S-1 and Palapa S-2, Dr. Gesang also successfully granted patent on composite printing using bladder pressure, Bladder Compression Moulding or the BCM.

### **DEDE SATRIA MAULANA**



Indonesian citizen, graduated from Universitas Gadjah Mada with Master of Mechanical Engineering, Dede has been at the forefront in pushing UAV ecosystem forward in Yogyakarta and Indonesia. His professional and proven field experiences in UAV operations including mapping and surveying. Dede has also developed the first and only passenger drone (air taxi) in Indonesia while spearheading the design department at Frogs Indonesia.





# TARRA EARTH

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