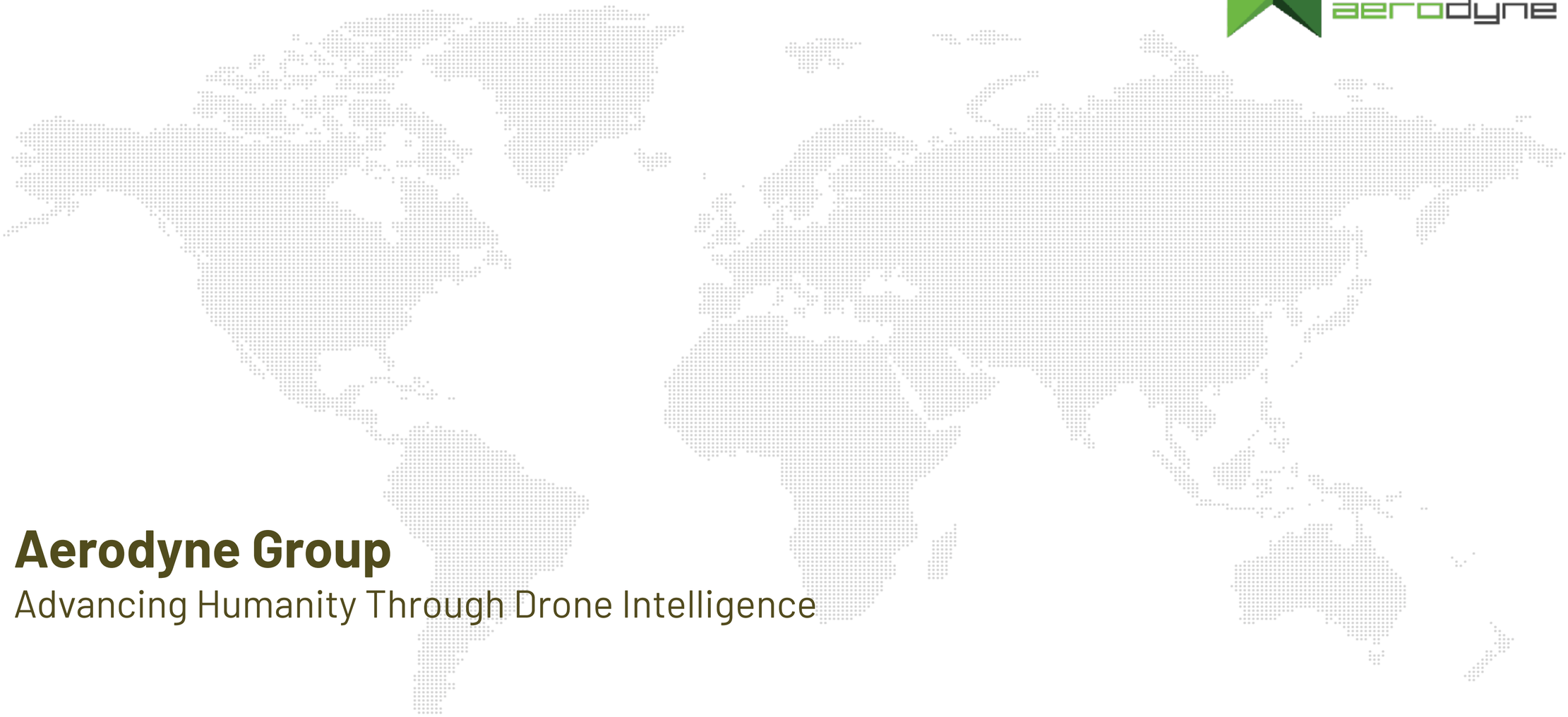
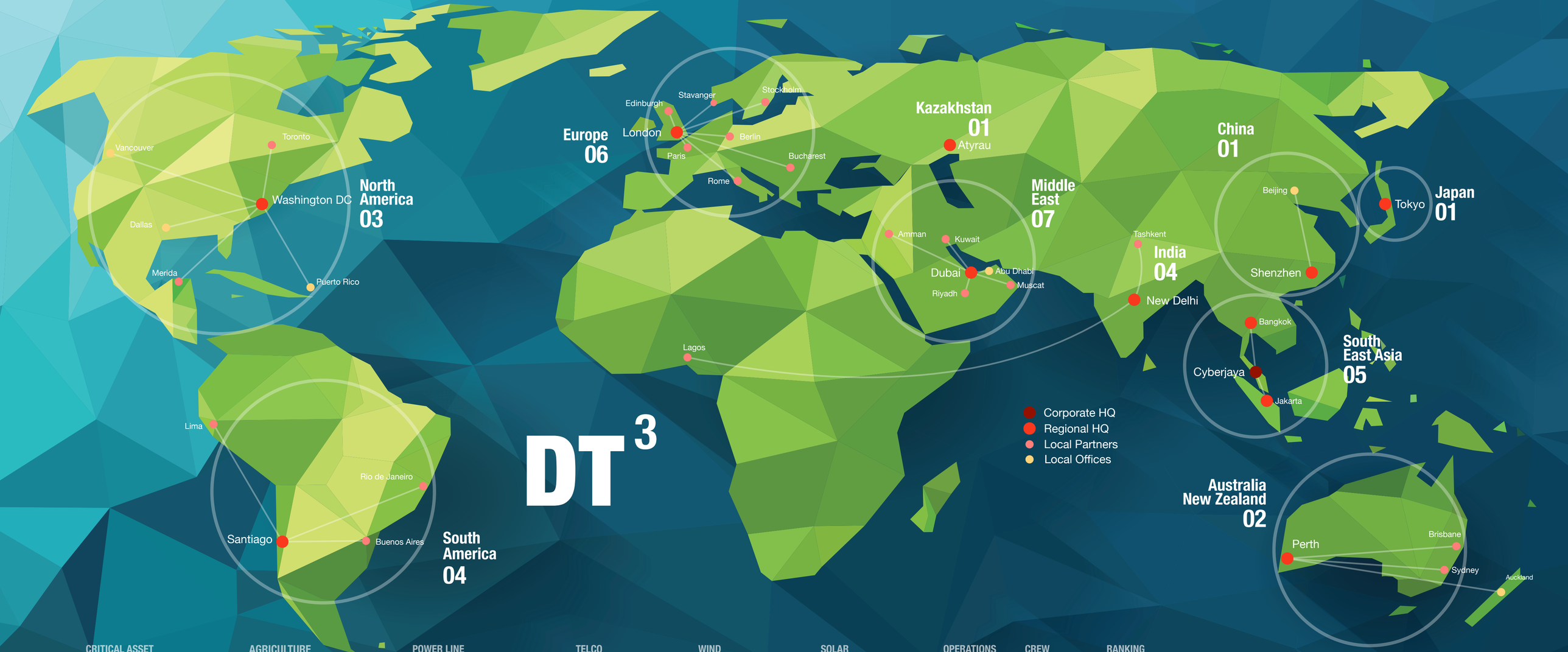


Aerodyne Group

Advancing Humanity Through Drone Intelligence

What do we do across the globe?

Aerodyne and Malaysian Talent Across the Globe



DT 3

CRITICAL ASSET	AGRICULTURE	POWER LINE	TELCO	WIND	SOLAR	OPERATIONS	CREW	RANKING
560,000	265,000	600,000	9,000	7,300	7,000	35	900	1st
ASSETS INSPECTED AS OF DEC 2021	HECTARES AS OF DEC 2021	TOWERS/POLES INSPECTED AS OF DEC 2021	TOWERS INSPECTED AS OF DEC 2021	WTG INSPECTED AS OF DEC 2021	MW INSPECTED AS OF DEC 2021	COUNTRIES GLOBALLY	AERORANGERS GLOBALLY	GLOBALLY IN 2021

DT1 Drone Technology


Onshore
Wind Farm


Offshore
Wind Farm

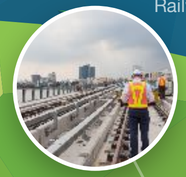

Ports


Structural Integrity
Management


Underground
Mining


Confined
Space


Structural Integrity
Management


Railways


Solar
Farm


Onshore
Wind Farm


Electrical
Power Grid


Bridges


Security


Precision
Agriculture

Electrical
Power Grid


Electrical
Power Grid


Telecommunication
Tower

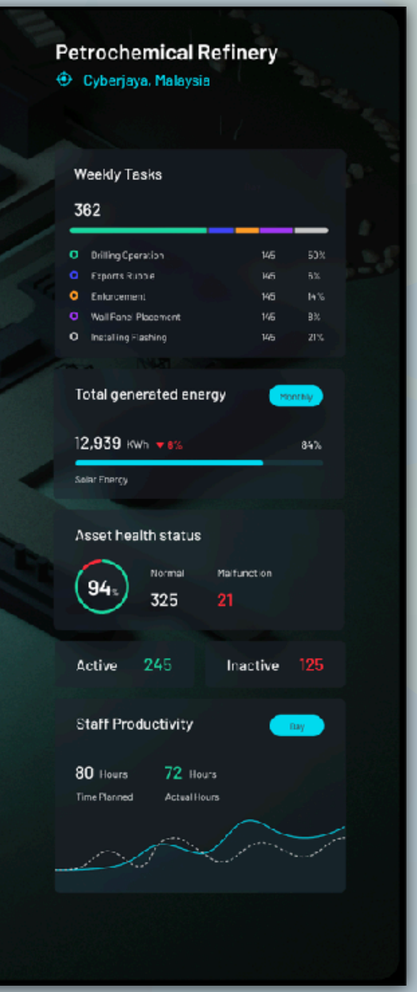
Global DaaS

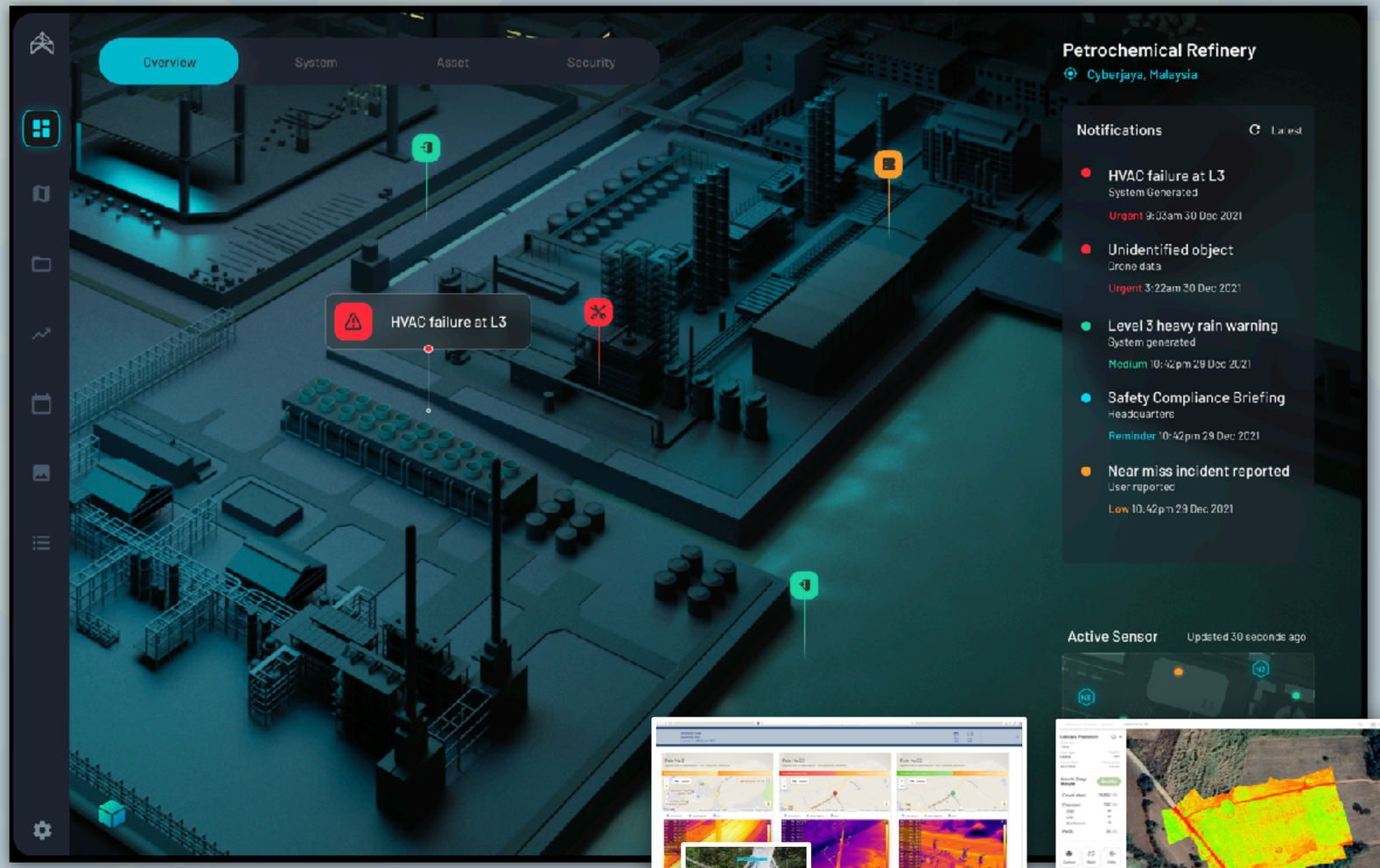
- Platform agnostic
- Immediate deployment
- Zero CAPEX
- Zero hassle
- Immediate value

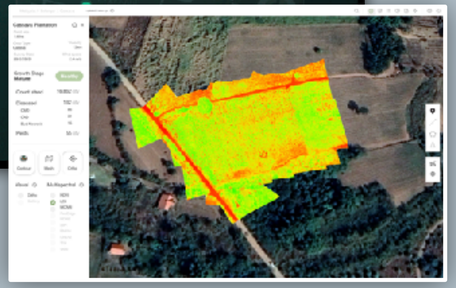
DT2 Data Technology

Built by Malaysian Talent | Technology Exported to the World

aerodyne







DT3 Digital Transformation

Immediate Value Creation

aerodyne

01

POWER GRID

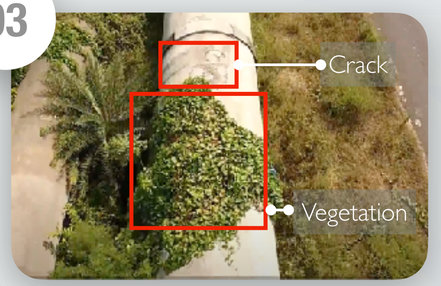
- **30%** cost savings
- **400%** time savings in project duration

02

CELL TOWER

- **20%** cost savings
- **500%** process acceleration

03



OIL & GAS

- **27%** increase in uptime and reliability
- **30%** cost savings in project equipment

04

WIND TURBINES

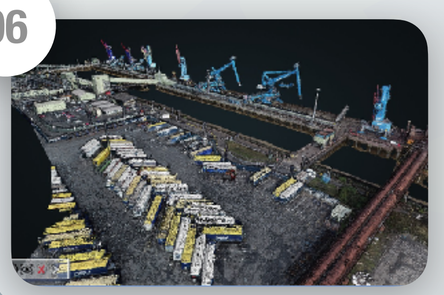
- **35%** operations cost savings
- **50%** cost saving in defect marking & categorisation

05

SOLAR FARMS

- **97%** faster than conventional method
- **$1,254** average cost savings per MW

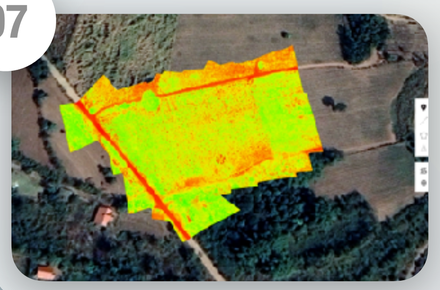
06



PORTS

- **25%** proven cost savings
- **55%** less time compared to traditional method

07



AGRICULTURE

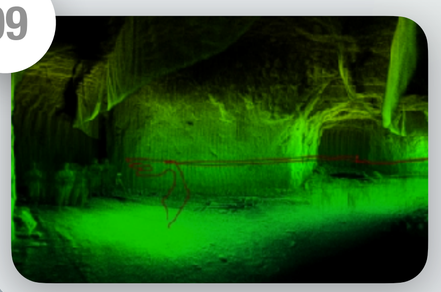
- **500%** operations cost savings
- **67%** increase in crop yields

08

INFRASTRUCTURE

- **75%** proven cost savings
- **3D** Superior 3D modelling and digital twin of assets

09



MINING

- **30X** faster speed of inspection
- **3D** Superior 3D modelling of mines

aerodyne

advancing humanity through
drone intelligence

Building and Growing Malaysian Talent

Izham Zakaria
Vice President,
Public Sector & Training
Aerodyne Group

Recent Challenges in Building MY Talent

Challeges

WHY

01 Fast Pace Technology

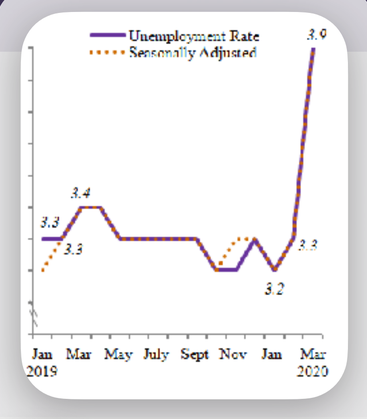
1. Tech is advancing so fast especially in niche industry areas.
2. Investments in technology and equipment become obsolete in 18 to 24 months.

02 Softskills & Aptitude Gap

1. Critical thinking and problem solving competencies.
2. Most important is ATTITUDE towards the skills gap.
3. CGPA - How do we differentiate memoriser vs actual problem solver or performer?

03 Industry Demand

1. Tech graduates are not meeting industry needs (industry say)
2. Industry doesn't have the requirements for high paying job
3. Industry still stuck at lower supply chain - low wage business model



04 High Unemployment

1. Fresh graduate market saturation vs actual job / market demand.
2. Complicates industry talent recruitment.

05 Financial Debt

1. Students are burdened with academic financial debt and unemployment upon graduation
2. This drives into employers market and leads to lower wages for fresh graduates


Jabatan Perangkaan Malaysia 2019 untuk WEF
72.1%
5.8%
Sampai SPM sahaja
Tak pernah bersekolah

What did we do about it?

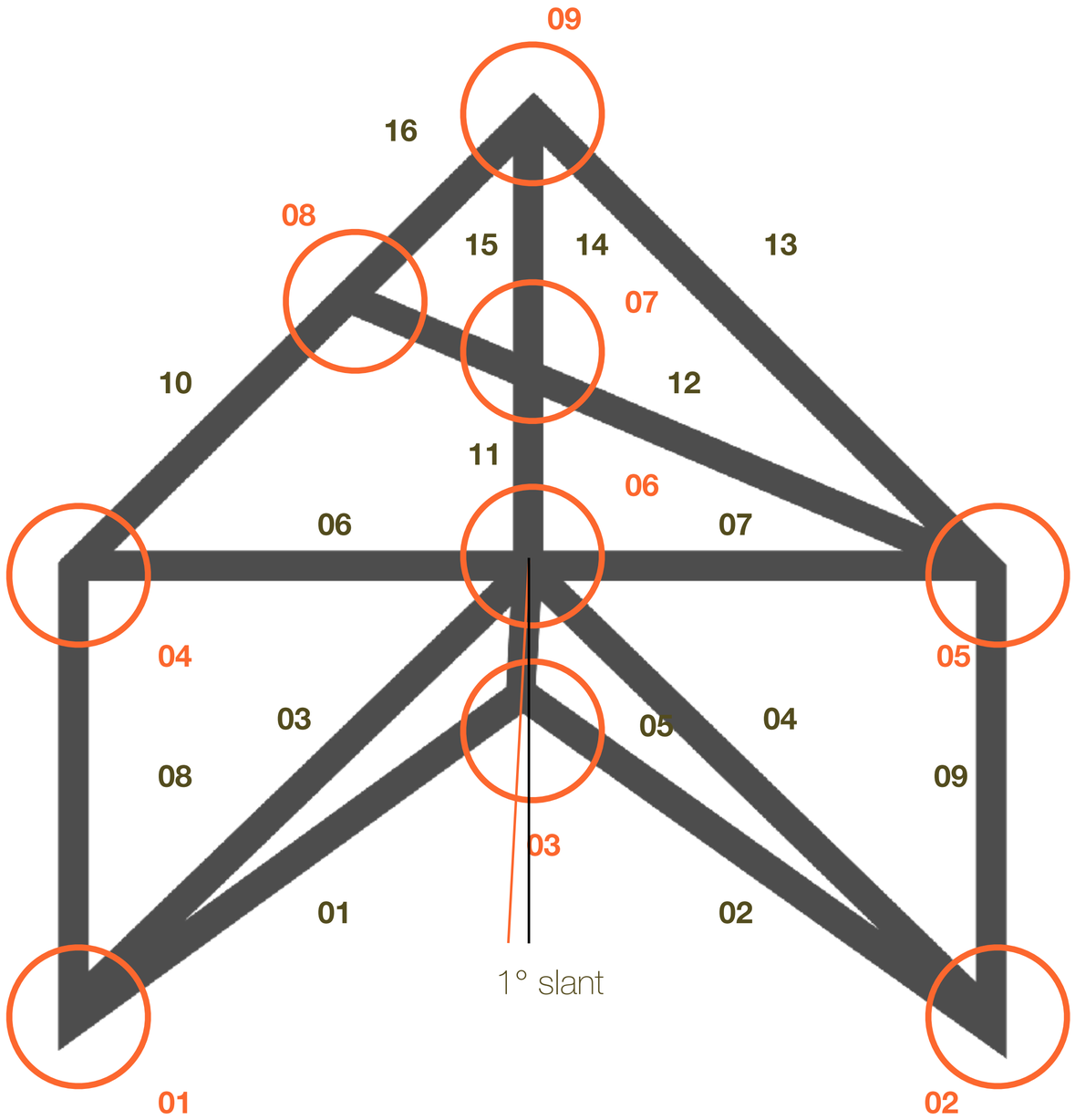
work within
an ecosystem
of reliable partners

culture, values and
work-life integration

screen for best talents
young, energetic, hungry for success, knowledge is a must, attitude is key

1V99A
1% Vision,
99% Alignment

Align teams and individuals to the Aerodyne Way



THE AERODYNE WAY
It's our DNA

Encoded in our Insignia are our core values, key solutions and our 16 world class capabilities.

In a world full of chaos and imperfections, we aspire to push the limit by continuously improving by the power of tiny gains **(1% daily as represented by the 1° slant at 03).**

The Insignia contains 9 intersections comprising 5 Core Values and 4 solutions, and the **16 lines reflecting our World Class capabilities.**

9 Intersections and 16 Lines

5 Core Values

1. Creating Trust
2. Delivering Value
3. Problem Solvers
4. Integrity
5. Balance

4 Solutions

6. AGRIMOR
7. FULCRUM
8. DRONOS
9. ARGENTAVIS

Our World Class Strategy 16 Capabilities

01 High Flexibility

- We are highly flexible in our conduct with our clients, colleagues and partners
- We put our goals and objectives as a compass to steer us in making our operational decisions

02 High Dependability

- Each and every single one of us have a very high level of dependability
- Everyone can depend on one another. Not just internally but externally too

03 Meet Requirements

- Quality is defined as meeting requirements
- We relentlessly focused on the smallest details to create excellence in delivery

04 High Productivity

- We are efficient in our execution
- High level of productivity is the hallmark of Aerorangers!

05 Fast Delivery

- Our deliveries are consistently quick. On-time, every time
- We find ways to uphold this track record with professional project execution and time management

06 Meet Goals & Targets

- We have evolving approaches that ensure we do the right thing in always meeting stakeholders goals and values

07 Growing Capabilities

- Our capabilities are growing in-line with what our growth needs are

08 Internal Matching

- We have sufficient internal resources to power our growth and strategic plans

09 Resource Matching

- Our available resources matches with what the market needs

1 Do Things Right

Delivering Value

OPERATIONAL EXCELLENCE

2 Do The Right Thing

Profitability & Resiliency

STRATEGIC FIT

3 Competent Shape Shifter

Long Term Sustainability

ABILITY TO ADAPT

4 We are AeroRangers

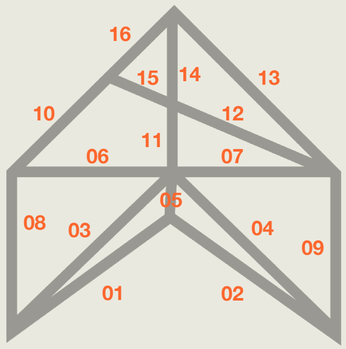
Creating trust

UNIQUE IDENTITY

WC4

16 Lines

Representing our 16 World Class Capabilities



10 Continuous Improvements

- At Aerodyne, the only constant is change
- We continuously strive for improvements

11 Alert To Change

- We are alert to changing requirements in technology and the business environment
- We reward and recognise innovation and creative problem-solving

12 Easily Adapt To Change

- We are like a chameleon, able to adapt to the changing environment easily and effortlessly

13 Vision & Mission

- We have clarity on our Vision and we execute our Mission
- Vision : Advancing humanity through drone intelligence
- Mission : Delivering best-in-class DT3 solutions, on-time, every time

14 No Fuss, No Drama, Just Deliver

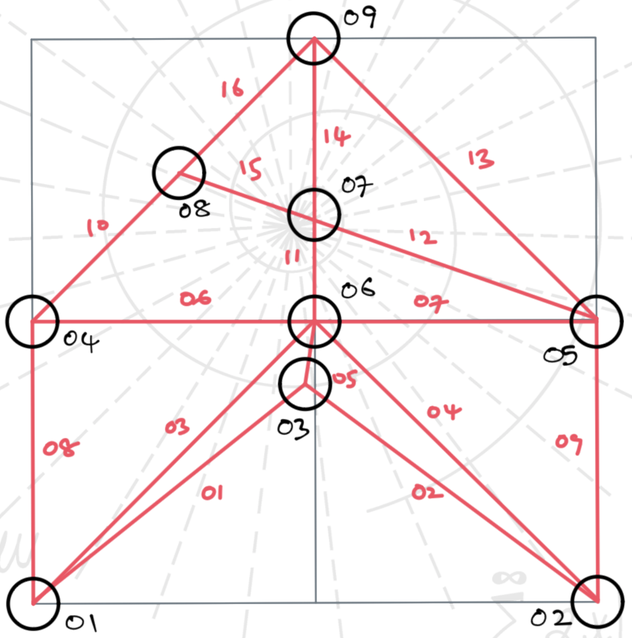
- We know what the stakeholders wants and we just get on with it #nofussnodramajustdeliver

15 Faster, Better, Cheaper, Safer

- We know what matters to our clients
- We push ourselves to deliver solutions to improve efficiency, productivity and cost savings, with a commitment to safety

16 Global Ready

- Our people and technology are globally competitive
- We aspire to be the technological trendsetter of our industry
- We aim to build a best in class multi-disciplinary talent pool



drone tech
data tech
digital transformation

DTR
DTRT
SS
NFNDJD

continuous improvements

$$\alpha = \left(\frac{dt^3 \times \omega c^4}{P^3} \right)^n$$

People Planet Profit

The Aerodyne Way

Aerodyne Campus

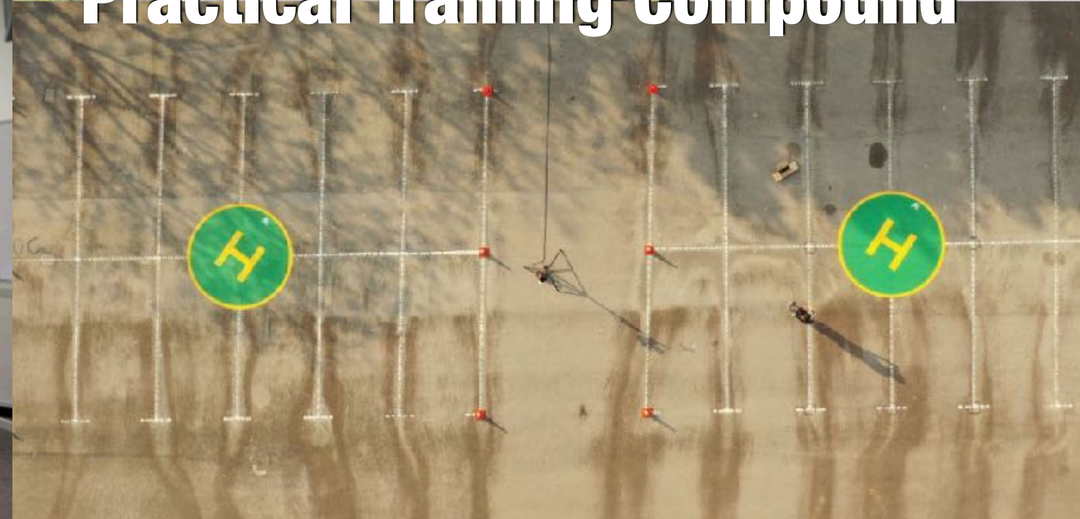
A 50,000 SQFT. FACILITY LOCATED IN CYBERJAYA
DEDICATED AS TRAINING CENTRE FOR RPTO

MRO Facility

Practical Training Compound

Flight Ops Room

Emergency Response Room



Examination Hall

Training Classroom

Library / Study Room

Drone Simulator Area

Why Aerodyne?

Our Company

- Excellent track record in DT3 - Drone Technology, Data Technology & Digital Transformation
- Ranked 1st in 2021 World's Best Drone Service Provider - Drone Industry Insights (DII)

Our People

- Instructor track record of up to 1000 flight hours without LTI
- Professionally trained drone pilots
- Sharing experience in high value industries

DT3 Training Pathway

Safely fly drone and master the basic movements instructed by certified and professional trainers.
Basic requirements to operate a drone: regulations, safety, theory and practical module.
Participants will receive Certificate of Completion after completing the course.

Level 1 - Basic Drone Course

Duration : 5 days
New Pilot/Experienced Pilot

Modules :

1. UAS Air Law & Regulations
2. UAS/Airspace
3. Aviation Safety & Airmanship
4. Human Perf. Limitation
5. Meteorology
6. Navigation
7. UAS Gen. Knowledge
8. Operation Manual
9. Introduction to Mavic 2 Pro
10. Operational Procedure

Level 2 - Agriculture Drone Operation

Duration : 5 days
Prerequisite is Level 1 / Other Basic Course

Modules :

1. Introduction to Agriculture Drone
2. Safety and Procedure
3. Aviation Safety and Airmanship
4. Introduction to Agras T16 and T20
5. Pesticide Handling
6. 2 - 5 Hours of Flying Exercise

Level 2 - Surveillance & Mapping Operation

Duration : 5 days
Prerequisite is Level 1 / Other Basic Course

Modules :

1. Aerial Surveillance & Mapping Overview
2. Types of Photogrammetry
3. 2D & 3D Mapping
4. Flight/Mission Planning
5. 2 - 5 Hours of Flying Exercise
6. 2D / 3D using Pix4D

Level 2 - Asset Inspection Drone Operation

Duration : 5 days
Prerequisite is Level 1 / Other Basic Course

Modules :

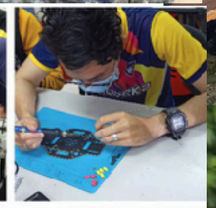
1. Introduction to Telco Tower Inspection
2. Cell Tower Audit Finding
3. Introduction to Grid Asset Inspection
4. Grid Asset Audit Finding
5. Introduction to Matrice 200 & 300
6. 2 - 5 Hours of Flying Exercise

REMARKS:
Subject to customisation based on actual client needs


MPOB


NAVY


GENTING




KISMEC


PAHANG SKILLS


FELDA

Aerodyne Artificial-Intelligence Program

Artificial Intelligence and Data Science
Duration : 7 days

Modules :
1. Introduction to Artificial Intelligence
2. Coding with Python
3. Data Structures & Algorithms
4. Introduction to Data Science
5. Mathematical & Statistical Skills
6. Algorithms used in ML
7. Data Preprocessing and Analysis
8. Machine learning Model Training
9. Data Visualization

Big Data Analytics
Duration : 7 days

Modules :
1. Introduction to Big Data Analytics
2. Big Data Platforms and Data Storage
3. Big Data Algorithms and Framework
4. Real-time streaming and Batch Processing
5. Basic Cloud Computing
6. Data Visualization

Cloud Computing
Duration : 6 days

Modules :
1. Introduction to Cloud Computing with AWS
2. Cloud Computing Concepts (IaaS)
3. Setup and Configuration
4. Storage and Elastic Search
5. Virtualization and Virtual Machine
6. Containers and Kubernetes
7. Cloud Native and Serverless
8. Basic DevOps and Automation
9. Application Modernization
10. Cloud Security

Front-End Development
Duration : 8 days

Modules :
1. Introduction to Front-End Development
2. Concepts of Data Structure and Coding with CLI and Node.js
3. Creating Instances and model overview
4. Setup and Configuration for Vue.js and Angular
5. Working with Form
6. Application Programming Interfaces (API)
7. Concepts and applications in Routing
8. Application Development Projects

PHP & MySQL
Duration : 5 days

Modules :
1. Introduction to Model View Controller
2. Setup and Configuration
3. Basic PHP
4. Basic MySQL
5. Working with CRUD
6. Integration with Javascript and CSS
7. Application Development Projects

HTML, Javascript and CSS
Duration : 5 days

Modules :
1. Introduction to Web Application Development
2. Setup and Configuration Basic HTML
3. Basic CSS
4. Basic Javascript
5. Development CRUD application
6. Application Development Projects

Python Programming
Duration : 5 days

Modules :
1. Introduction to Python
2. Basic Python
3. Setup and Configuration
4. Data Structure
5. Libraries for Machine Learning
6. Application Development Projects

Cyber Security
Duration : 5 days

Modules :
1. Introduction to Cyber Security
2. Threat Actors, Attack, and Mitigation
3. Security Policies and Procedures
4. Secure Architecture
5. Network Security Controls
6. Security Testing
7. Information Security Government
8. Digital Forensic
9. Disaster Recovery

Create Expert Generalist who can connect the dots

Our Internal Development Framework

Open Entry

Competency Based

18yrs and above

LEARN AT YOUR PACE!

ALL Malaysians

Online Profiling, Psychometrics, Sociometrics and Best Fit Assessment

Short Term Program

Fundamental Competencies Training

Cross Sectoral Technical Training

Digital Transformation Theory

Emerging & New Skills Program

Specialization

Advanced Deep Tech

Industry Placement

On Job Training & Assessment

Critical Infrastructure Inspection (Telco & Grid)

Geographic Information System & Geotechnical

Project Monitoring & Stakeholder Engagement

Future Agriculture Technology & IoT

New Job Creation

Fueling Future Innovations with Expert Generalist

unity mapbox CESIUM GitHub

- Architecture, Engineering and Construction
- Automotive, Transportation and Manufacturing
- Film, Animation, Cinema
- Consoles & PC, Mobile and VR Platform

- 3D Geospatial Intelligence
- Aerospace and Defense
- Real Estate
- Smart Cities / IoT
- Digital Transformation

1. 70% of all DT fail to achieve goals
2. 1.3 Trillion spent in 2018, 900b wasted

Tabrizi, Lam, Girard, Irvin 2019 <https://hbr.org/2019/03/digital-transformation-is-not-about-technology>
Harvard Business Review - March 2019

Do the Right Things and Do Things Right

initiate and drive change at

Policy Level

Building and Growing Talent

requires supply and demand - a complete supporting ecosystem driving individuals towards their fullest potential

1. Technology as a global enabler.
2. **Create Jobs**. Support local startups and tech companies.
3. Policy for **selective FDIs**. Focus on those which create quality jobs.
4. Diversify Economic Complexity Index **(ECI)** which will eventually create more jobs.
5. Change (and commitment) in government policies - benchmarking S.Korea, Taiwan, Turkey
    a. Localisation of technology, push for domestic solution.
    b. Strengthen supply chain - higher value activities create high value jobs.

recommendations

MAKING THAT LEAP

1 Work together in an integrated ecosystem

i) Talent development is not just the responsibility of MoE / MoHE

ii) Both institutions and industry plays an important role to the ecosystem

2 Supplying quality talent - Creating quality demand

i) Quality FDI - non labor oriented investments

ii) Quality over quantity - graduates, employment opportunities

3 Strengthen policy to source local solutions, prioritise Malaysian products and tech

i) Strong execution of an internal development policy that prioritise local solutions and supports local supply chain

ii) Adoption of a Stratified Investment Model between industry, institutions and government to harness the full socioeconomic potential of the triple helix model of innovation.

Thank You

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Drones | IoT | Sensors | Ai | Big Data Analytics | Turnkey Application