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<https://venkataoec.wixsite.com/aerolite-centre>

AEROAIDE

DRONE STUDIO

- ROAD SAFETY AND HILL DRIVING

By

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AOEC Gap Analysis

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V 1.00e.2025



Visualizing Belief
and Conceiving
furtherance

ABOUT AEROAIDE

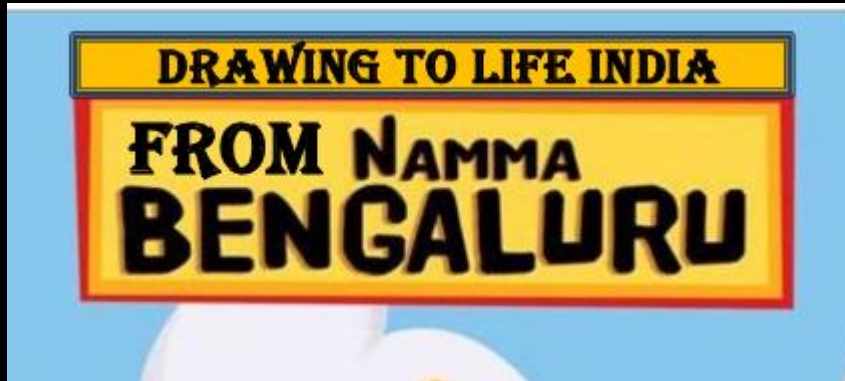
AEROAIDE is a Drone as a Service (DaaS) Solutions Company for SMART Drone Studio solutions.

Vision: Make a difference to Climate Change Mitigation & Adaptation for the tourism or pilgrimage industry

Mission: Set a track record for Drone Studio continuums for Road Safety and Hill Driving

Value: Sustainable Road Safety Assistance via AeroAide Videos, Podcasts, Viewpoints and AeroAide Relief & Rehabilitation





COMPANY SETUP

Suits tourism or pilgrimage industry needs for added Road Safety for Hill Driving

AEROAIDE designs and delivers Drone Studio related

- Video/Podcast
- Viewpoint inspection
- Incidences inspection
- Emerging issues inspection
- Relief & Rehabilitation inspection
- Squad Payload delivery services
- Solo Payload delivery services
- Contingency Response Research services

Control and Impact Siddhis, Riddhis, and Projectized Embankment

Drone Studio Coverage for (Use cases)
Videos, Podcasts, Viewpoints, Relief
and Rehabilitation like:



- 1) Motion and Time studies
- 2) Rainfall level rise
- 3) Driver needs
- 4) Vehicle issues
- 5) Road system understanding
- 6) Alpha Assistance
- 7) Control and Impact scenario degradation
- 8) 24/7 Supply or payload delivery
- 9) Community transformation

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DRONE AS A SERVICE EVALUATION AND PROJECTIZATION

AeroAide Control and Impact Matrix principle for use cases known to influence road safety and hill driving

AeroAide Data Analytics about the hill driving conditions via Drone Studio recordings or continuums, which are:

(a) Relevant, and (b) Periodic or Continual to match the control and impact expected for each trip /delivery/assistance planned

OUR SOLUTION'S USE CASE INFLUENCERS

CONDITIONS TO BE CONSIDERED FOR HILL DRIVING CHARACTERISTICS

Strategically mapped conditions

Severely affected conditions

Less dynamic conditions

Associated hill or mountainous areas

Storm afflicted conditions

Contingency Solution lacking conditions

Frequently affected or dynamic conditions

Vehicle safety affected conditions

Adversely affected conditions

Communication network-affected conditions

Supply or Emergency Services affected condition

Affected dealer network-coverage conditions

Unknown Hill or Road System zoning of conditions

Trip or journey parameter affected conditions

Not strategically showcased conditions

Other Safety Continuum conditions

UAV enabled Perspective Imagery Data Solutions

OUR SOLUTION'S USE CASE INFLUENCERS

CONDITIONS TO BE CONSIDERED FOR SAFE COMMUTING BY ROAD

Driving in dusty road conditions

Driving in road systems degraded by salt/corrosive toxins/ emissions

Driving in the condition of inflowing dust/sand/ water

Driving in hilly or mountainous areas

Towing related driving conditions

Driving in afflicted conditions (like low fuel or undue contingency or contaminated fuel, degraded parts, poor or damaged head lights, ...)

Driving in frequent stop and start conditions or brake affected conditions

Driving in sunroof affected conditions

Driving in dealer-network-affected conditions

Driving in Emergency Services affected conditions

Driving in out-of-network-coverage conditions

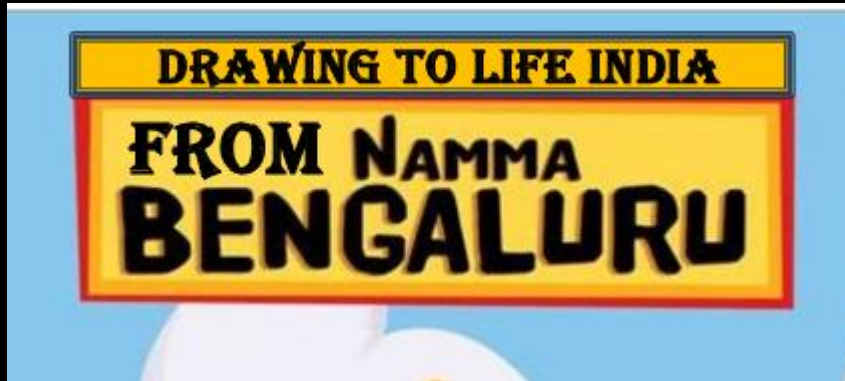
Driving in reverse gear specifically conditions

Driving in journey parameter affected conditions

Driving in non-showcased conditions

Road Safety Assist enabled Data Solutions

Drone Studio enabled interlinks for review, driver assistance, trace-ability, push/pull interoperability, SMART Prioritizing – Responsiveness – Mitigation – Transformation or Re-engineering



I3 SPECIFICATION

Drone Studio + NSSR Road Safety Systems +
AeroAide Systems + Technology Enabling
Solutions+ Veritable QoS Systems + A Heuristic
system called the Vital-Om-Kara

The I3 specification called Integrated Interoperability Interface designs and delivers Drone Studio related

- Road Safety / Hill Driving interlinks
- AeroAide Service interlinks
- Management Technology Enablers / interlinks
- Evaluation of QoS interlinks
- Gen NEXT Data Analytics for the QoS/QoP/QoO/QoS/QoS of the tourism or pilgrimage experience

AeroAid / AeroLite navigates for the future

AeroAid provides Do-it-as-AeroAid-Projects
& NSSR Programmes for Road Safety

Transformations or Ripple effect



NEW PROJECTS USE OF VIRTUAL REALITY & AUGMENTED REALITY

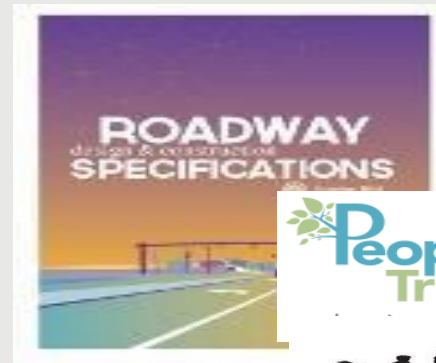
13 and Visual, Auditory, Experiential, Knowledge and Learning specific
criteria

VIRTUAL VIEWS FOR ROAD SAFETY:

1. CLIMATE CHANGE MITIGATION & ADAPTATION AND TRANSFORMATION
2. IMMERSIVE PLATFORMS
3. STEPPING INTO A SIMULATED CCMA/TRANSFORMATION ENVIRONMENT
4. PROJECTING OF CCMA/TRANSFORMATION VISUALIZATIONS ONTO PHYSICAL MAPS OR REAL LOCATIONS
5. DATA INTEGRATION OF CCMA/TRANSFORMATION SIMULATION MODELS WITH PANORAMIC IMAGES OR VIDEOS
6. DATA INTEGRATION OF MODELS TO IMPROVE REAL-TIME DATA PROCESSING AND VISUALIZATION EFFECTS

Key aspects of virtual CCMA views:

- Real-time Assessment:
- Interactive Visualization
- Accessibility
- Improved Decision-Making
- Tiered Transformation Services
- Tiered Transformation Projects



Drone Studio Coverage

EARLY DRONE STUDIO-KNOWLEDGE- ENABLING VIDEOS AND LINKS:

1. (TIERED PROJECTS) NSSR RS –
ROAD SYSTEM UNDERSTANDING

[HTTPS://YOUTU.BE/HGR600WVFMG](https://youtu.be/HGR600WVFMG)

2. (IMPROVED DECISION MAKING)
NSSR RS – DRIVER FITNESS

[HTTPS://YOUTU.BE/3DI7GUF7ID8](https://youtu.be/3DI7GUF7ID8)

3. (TIERED SERVICES) NSSR RS –
ALPHA ASSISTANCE

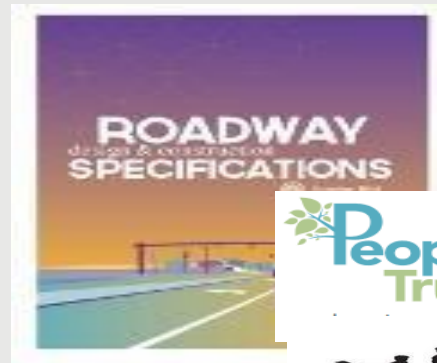
[HTTPS://YOUTU.BE/JUVUXW-OELW](https://youtu.be/JUVUXW-OELW)

4. (SERVICE ANYWHERE ANYHOW –
ACCESSIBILITY) NSSR RS – VEHICLE
OWNERSHIP / FITNESS

[HTTPS://YOUTU.BE/HXG-5BWJST8](https://youtu.be/HXG-5BWJST8)

Key aspects of virtual CCMA views:

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Motion and Time studies

INNOVATIVE SOLUTIONS

Drone Studio
Data/
Content/
Insights
Acquisition

Road Safety / Allied Services

Drone Studio
Phase related
Solution /
Relief and
Rehabilitation
Actuators

Road Safety Projects



CHARGING POLICY FOR SUCH PROJECTS

The Charging policy will depend upon the

1. Type of drone / failsafe plan or drone rental/ insurance & type of payload/project
2. Duration of the content management or the related project duration
3. Data processing, DaaS equipment and Hill site centric integration for Road Safety and Allied Support experience planning, control, operations and delivery of payloads
4. Ancillary services for operator training, Hill site specific travel & DaaS support, AMC & drone maintenance & spares replacement
5. Scalability of the project model / technical performance measures for the DaaS solution for Drone Studio continuums for Road Safety and Hill Driving

CHARGING POLICY FOR SUCH A PROJECT

The charging policy will also review costs borne for compliance to specification such as

❑ **Regulatory Specifications (India)** - Under the Directorate General of Civil Aviation (DGCA)'s Drone Rules, 2021, all drones must meet certain technical specifications:

- ✓ **Global Navigation Satellite System (GNSS)**: For position fixing.
- ✓ **Autonomous Flight Termination System/Return To Home (RTH)**: A safety feature to bring the drone back.
- ✓ **Geo-fencing**: To restrict flight in prohibited areas.
- ✓ **Anti-collision Strobe Lights**: For better visibility.
- ✓ **Command and Control Link**: A reliable link between the drone and operator.
- ✓ **Real-time Tracking**: To monitor the drone's location.
- ✓ **No Permission – No Takeoff (NPNT)**: Requires tamper-proof NPNT hardware and firmware for legal takeoff.
- ✓ **Flight Data Logging**: Capability to record flight information.
 - **Application-Specific Specifications**
Specific applications might require additional features:
- ✓ **High-Resolution Cameras**: For detailed imaging.
- ✓ **3-Axis Gimbal**: For stable video capture.
- ✓ **Omnidirectional Obstacle Avoidance**: To detect and avoid obstacles in any direction.
- ✓ **Extended Flight Time**: Minimum of 40 minutes for applications like surveying.
- ✓ **Range**: 4-10 km flight distance for remote operations.

CHARGING POLICY WILL BE REVISED FOR CRISIS

Price revision will be based on

Customized resolution for any anti-drone systems

Changes to the General & Regulatory Specifications (for Civil Drones)

Case wise improvement for **Anti-collision Strobe Lights**: For better visibility.

Command and Control Link: A reliable link between the drone and operator.

Real-time Tracking: To monitor the drone's location.

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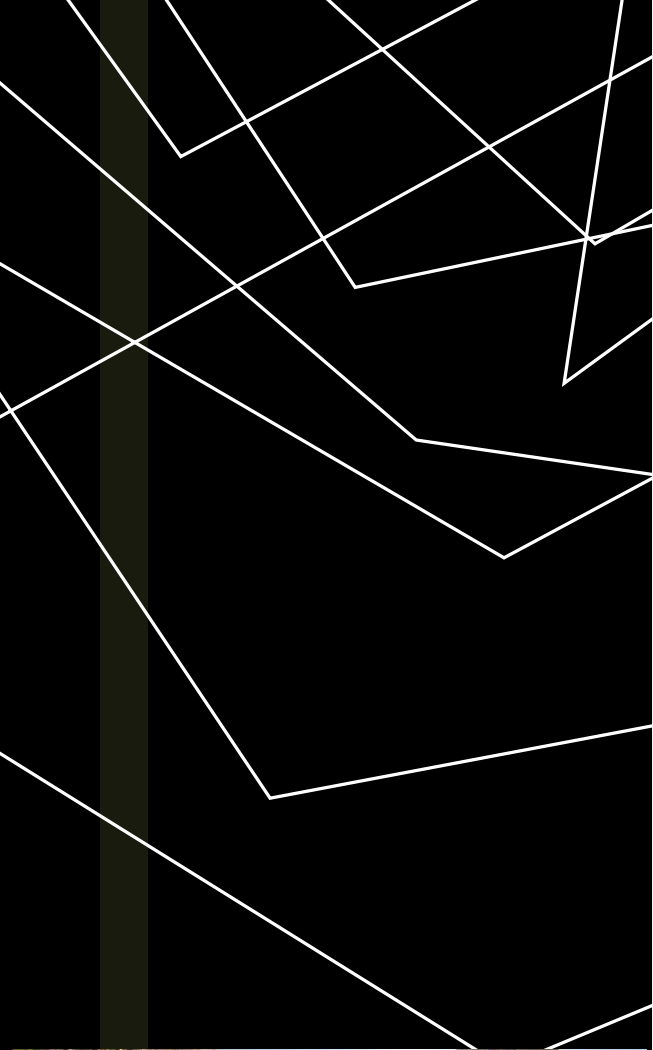
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THANK YOU



Mindfulness

