

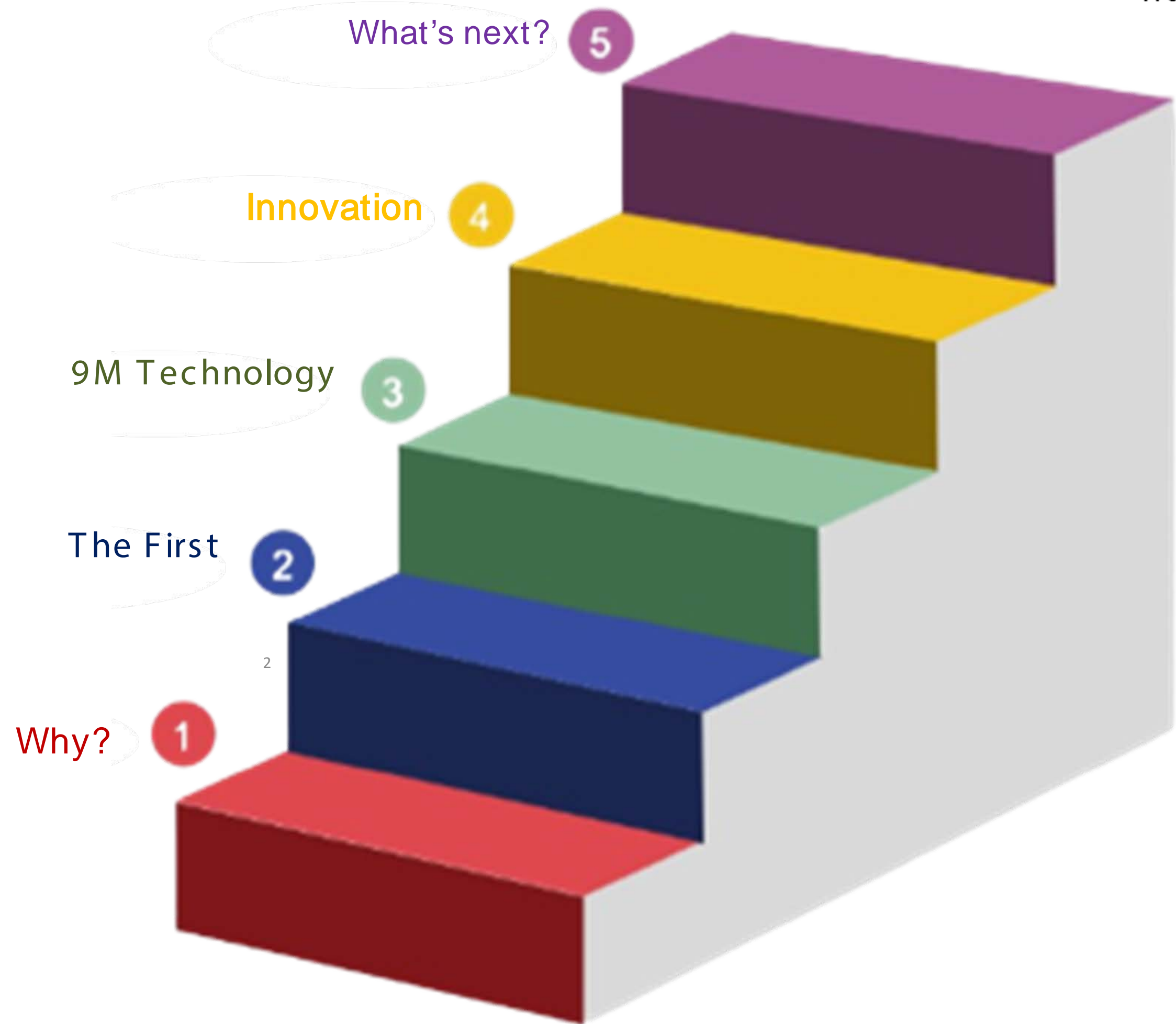


# Motorbike Ambulance !

Moto- 'Rapidity'; Lance: Land  
Rapid Response on Land

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# Why!

Road Injuries & Life Saving Solution

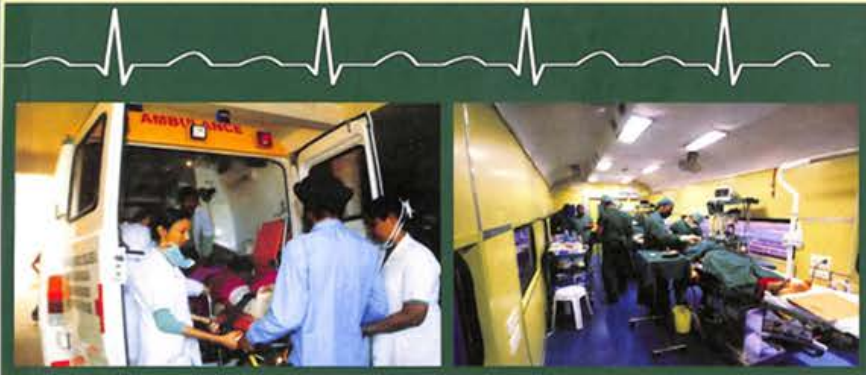


## Deficit

Life Saving Vehicles



NATIONAL DISASTER MANAGEMENT GUIDELINES  
MEDICAL PREPAREDNESS AND MASS CASUALTY MANAGEMENT



October 2007

NATIONAL DISASTER MANAGEMENT AUTHORITY  
GOVERNMENT OF INDIA

**NDMA Guidelines :**  
**01 TRAUMA CARE AMBULANCE @ 50  
Km Stretch of Highways**

**WHO Guidelines :**  
**01 BASIC LIFE SUPPORT/LAKH  
01 ADVANCE LIFE SUPPORT/05 LAKH**



# Why ?

## Socio-Economics

**Life Saving Vehicles Deficit** (min 01 Basic Life Support Ambulance/ lakh population)

**Road Injuries & Mortality** (lose 18 persons/ hr)

**Inaccessible Urban Slums** (~40,000 slums with 6.5 Crore population non-accessible to 4- wheelers)

**Climate Change led Natural Disasters** (~80,000 lives lost in 321 incidences between 2000-2019)

**Unequipped Rural Sub-centres** (~1.5 lakh, 01/ 5000 population with no emergency evacuation system)

**Last Mile-Remote Villages** (~24 lakh with maximum of 500 inhabitants require connectivity)

**Terrorism inflicted zones** (non existing fast multi-terrain rescue vehicles)

**Lack of Responder Care in Naxal Forest Belts** (difficult terrain to provide emergency medical support)

**High Risk Border Community** (2960 high risk areas required prioritized emergency evacuation especially during conflict situations)





# The First!

Median Life Support Motorbike Ambulance





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The First....

# Let's together save lives!

- *Our group focuses on 'technological innovations' to provide low cost high quality life saving devices & health care, care of care providers & innovative habitats.*



Start Up with first innovation as “Motorbike Ambulance” launched on 17<sup>th</sup> January 2025 at Bharat Mobility Global Expo, New Delhi



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# 9M Technology!

Motolance Technologies



9 M Technology

# Multi-Terrain

- *Mountains, Hills, Highways, Plains, Deserts, Coastal Roads, Villages & Remote Areas*



Uneven/ Muddy Terrain



Hilly Terrain



City Roads/ Highways



Field Trial conducted in hilly regions, city roads, muddy/ uneven terrain, non-accessible zones in remote locations.





9 M Technology  
**M**anoeuving

Narrow Zone- Urban Slums,  
Uneven muddy, light weight  
bridges & steep U-Turns

**Left Side Turn  
(Hilly Terrain)**

**Right Side  
(Circular Turn)**

**Steep U-Turn**

**Turning on Narrow Lane**

**Turning on Red Light  
(Urban Roads)**



**Steep u-turns at hilly narrow roads & tested on muddy zones- with limited width able to manoeuvre effectively**



Equipped with Fire Extinguisher to manage fire incidences at Site for rescuing victim



Deployed in Industrial Accident Zone



Deployed in crowded polluted city



GPS enabled Track-Trace-Save

# 9 M Technology Multi-Environment

Industrial Accidents, Polluted Cities, Fires, Pandemic/ Outbreaks/ Disasters with GPS enabled Tracking-Tracing-Saving Lives



Patient Chamber is protected against pollution & ingress/ dust, industrial environment , managing fires for safe evacuation.



9 M Technology

## Multi-layered Air Sanitization Unit

Equipped with DRDO's Vayu Swachh+ Technology removes industrial pollutants & infectious pathogens



Patient Chamber is protected against infectious pathogens (microbial Neutralizer) and 7- layered air sanitization technology.



Microbial Resistance Coating



Third Eye Technology (TeT)



Portable Oxygen Cylinder



Coated Surface prevents building up of microbes in Patient's Chamber

9 M Technology  
**M**icrobial  
Resistance  
Coating

Prevent microbial build  
up X 24 hrs X 365 days





9 M Technology  
**Medical Grade  
Stretcher-cum-  
Chair**

Evacuation in High-Rise buildings, slums, non-accessible small home areas in remote areas

**Patient Loading  
(Auto-loadable Medical Grade  
Stretcher)**

**Patient Safety  
(Head & Body Immobilization with  
Tapas Aasan Vibration Suppression)**

**Life Support  
(Equipped with Medical  
Devices)**

Auto loadable stretcher transformable into chair similar to Type B/C/D4- wheeler ambulance is available for ease of transition as well as evacuation.



9 M Technology  
**M**edian Life  
Support

Rapid Response in Golden Hour; On-Site Bleed Management & Trauma Care for Critical Patients



Medical devices as listed with Type B ambulance(s) are adapted for Bike Ambulance as per minimum requirement with respect to space, thereby median life support.



Inside view – Head Immobilizer/  
Patient's Chamber



Medical First Aid/  
Trauma Care Box

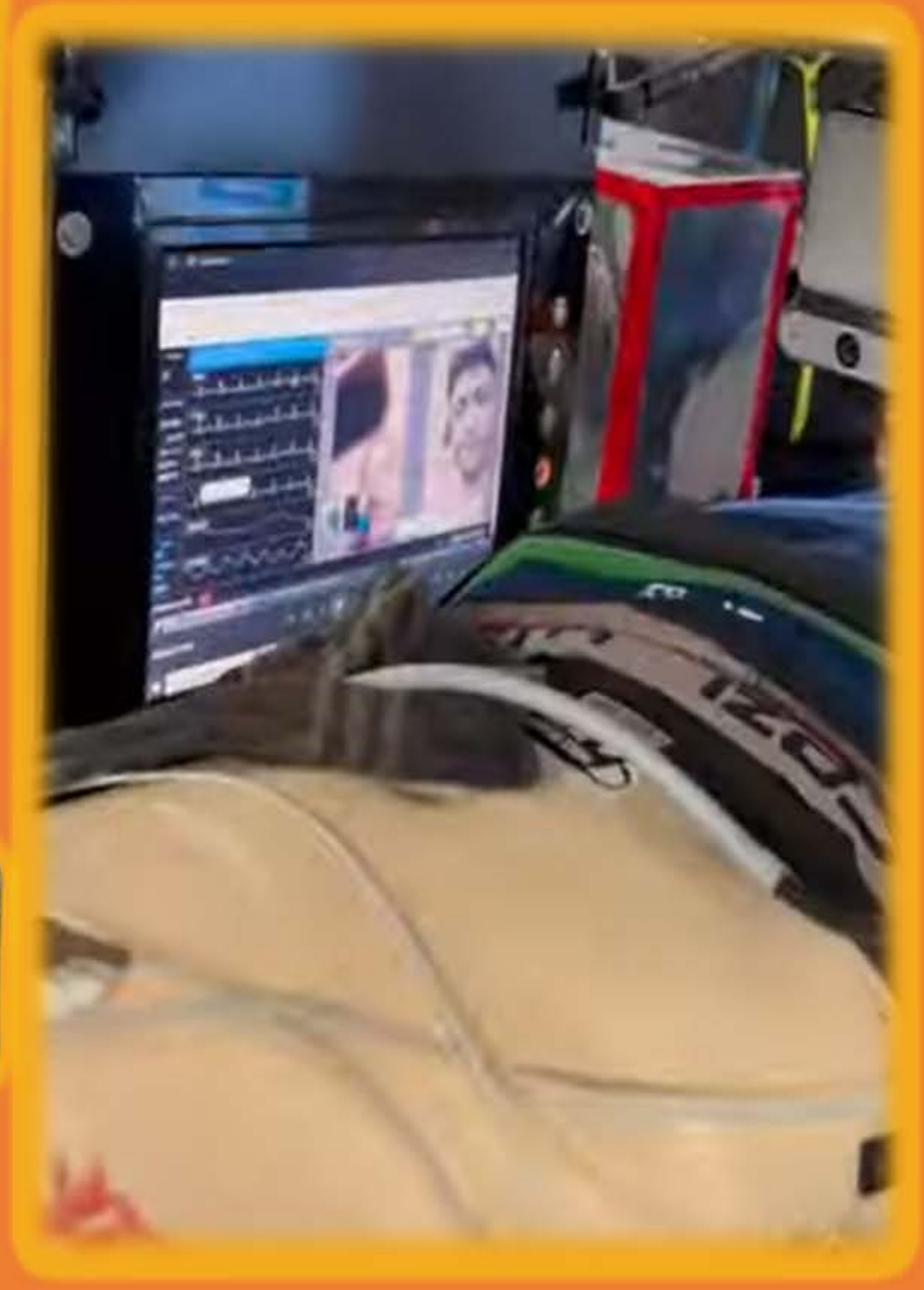


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Traumatic Patient  
Immobilized on Stretcher &  
Vibration Suppression  
Stretcher Gel Pad (Tapas  
Aasan)



Bleed & Fracture  
Management



Multi-Channel Parameter  
with Telemedicine (inside  
Chamber)

# 9 M Technology Medical Devices: Telemedicine

~ 15 Devices, live  
monitoring of body  
vitals with Third Eye  
Technology (TeT) &  
Telemedicine



Continuous monitoring of body vitals by paramedic sitting on rear chair of bike while capable of sending real time data to hospital/ doctor where Bike ambulance is approaching to perform triage in mass casualty events



Transformable into multi-bedded hospital by using valued added devices to mitigate mass casualty events

9 M Technology

# Mass Casualty Compliance

GPS enabled triage, directly deployable at disaster site & develop multi-bedded hospital in < 24 hrs using value-added devices for management of mass casualty events



DRDO's Ultraswachh™  
Ucchvasita Oxygen Concentrator



Fast exchange of patients between 4- & 2- Wheeler Ambulance



Directly deployable at Mass Casualty Event Site



~ 50 bike ambulances with standard equipment support and baseline protected tent structure can be transformed into full fledged 40- bedded hospital within 24 hours in any stadium.



# Innovation !

Technology Integrator Marvel

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# Features...

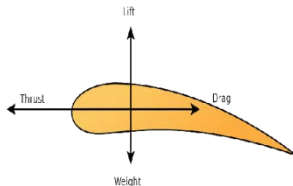
### Auto-loading Stretcher

≤ 16° loading angle & transforms into wheel chair



### Aerodynamic Design

Min 165mm ground clearance; least air dynamic resistance



### Cavity Design

Spacious w. isolated chamber of patient & health accessories



### Multi-Terrain

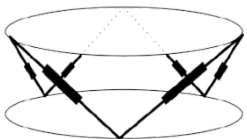
Min 250 cc powered engine w. effective manoeuvring ability



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### Vibration Suppression

Anti-vibration 'Tapas Aasan'; Chest Support & Shock absorbers.



### Puncture Resistance

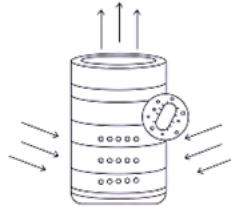
Viscoelastic gel enabled 'tyre pressure' restoration system



# Features...

### Air Sanitization

5-layered 'Vayu Swachh' enabled continuous dust & microbial free air flow



### Infection Control

Anti-microbial coating sustainable for 90-365 days.



### Live Monitoring

Multi-channel vital parameter monitoring integrated with 'telemedicine' system.



### Third Eye (Bluetooth enabled)

Vital parameter monitoring w. early warning alarm for attendant



### Contamination Management

PPEs, skin decontamination & waste containerization system (optional)



### Global Positioning System

Track & trace position, stationary/mobile w. SOS response process.



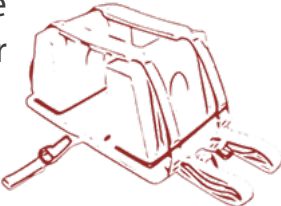
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# Features...

### Patient Safety

Head Immobilizer, Safety Belts Torque Pressure Resistance, Emergency Buzzer



### Oxygen Support

Min 2 Kg of portable oxygen provided for patient's support



### 'Freedom' Design

2-side open, large windows (tinted) w. air ventilation



### First Aid

ABC Management with primary care for medical emergency



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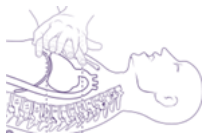
### Remote Medical Care

Diagnostics & continuous oxygen support w. medicines supply chains



### Pre-Hospital Care

CPR, Trauma care, pain & wound management for resuscitation



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# What's Next!

Site-Specific Targeted Solution



Fundamental right of every Indian Citizen...  
“access to emergency care”

# Impact!

Socio-Economics

**Technological Drive for Emergency Response**  
(Miniaturization of safety devices & patient's aid)

**Export Potential & International Aid element**  
(Cost-effective long lasting, high in number for export/ aid)

**Economically Viable –Sustainable Emergency Care**

(Access to emergency care for such large population with differential range of affordability)

**Multiplier Effect : International Peace/ DM missions**

(Humanitarian Response become effective case ex: Turkey Earthquake)

**NGOs, RWAs and Civil Social Groups**

(Excellent option for tagging as first line resilience for population groups against future disasters)

*This will be able to plug in deficit of life saving vehicles required for vast country like India.*



Motolance..

Next Step...

# Life Saving Vehicle!

Target: Deployment across India & countries of Global South



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## Affordable w. Quality Care

40-50% lesser than quality equivalent 4-wheeler counterpart



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## Least Recurring Cost

50-60% less recurring cost than 4-wheeler counterpart



**Motolance Is A Sustainable Solution For Healthcare Access for All.**



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THANK YOU

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