

THE NSSR ROAD SAFETY/SUPPORT PROGRAMME



Road Safety / Support is a mainline National Safety and Social Responsibility

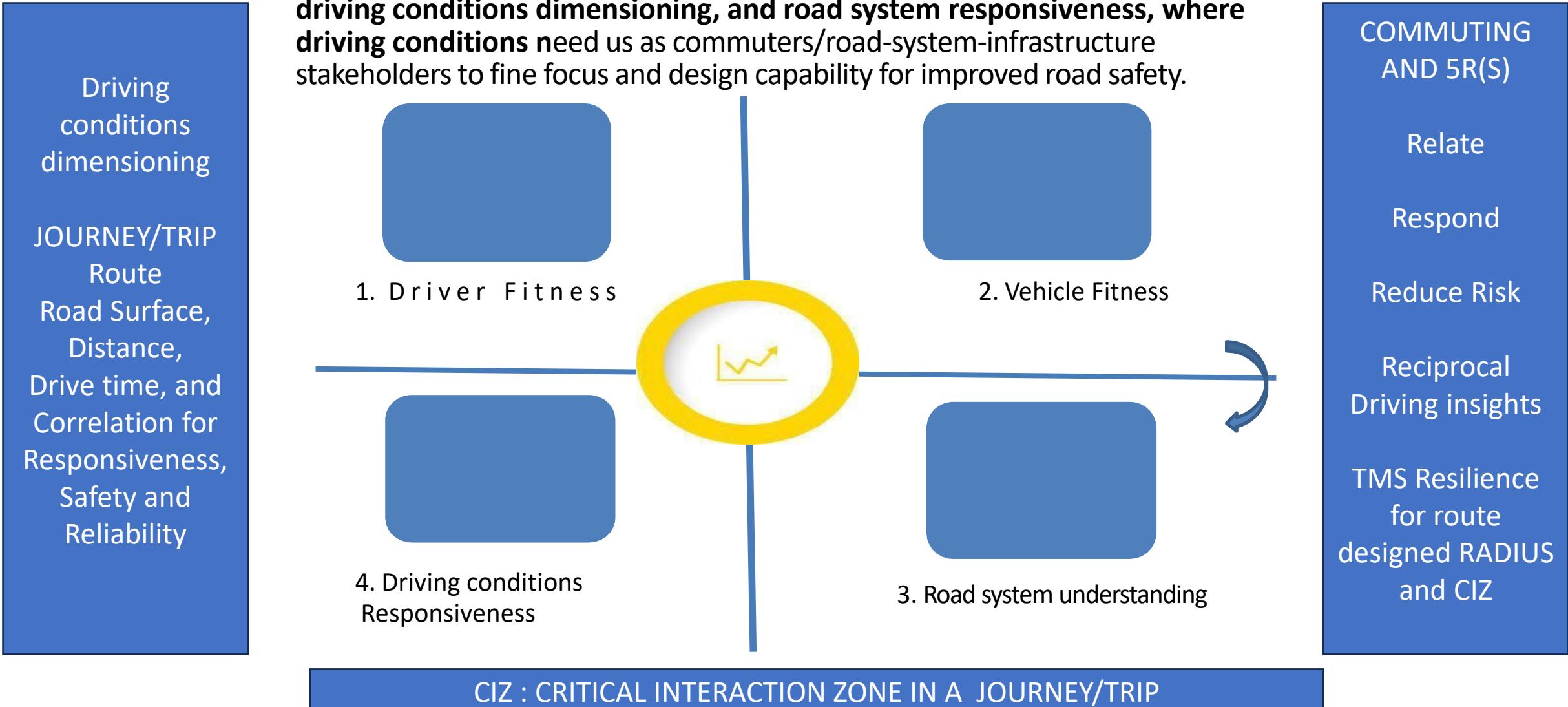
MONTHLY
BULLETIN

**DASHBOARDING ROAD SAFETY / SUPPORT
BY
VENKATRAM K S, AOEC 2026-2027**

NOV
2026

Dashboarding Road Safety/Support

- AOEC finds that safety while commuting on road, depends upon the automobile manufacturer's quality assurance, driver fitness, vehicle fitness, driving conditions dimensioning, and road system responsiveness, where driving conditions need us as commuters/road-system-infrastructure stakeholders to fine focus and design capability for improved road safety.



Dashboarding Road Safety/Support

- AOEC finds that instrumentally, Dashboarding Road Safety / Support (DRSS) projects must
- define a TMS workflow for accentuating
- 1. Driver Fitness
- 2. Vehicle Fitness
- 3. Road system understanding
- 4. Alpha Assistance
- 5. 5R(s) SMART(ness) for a safer journey

CRITICAL
INTERACTION
DETERMINERS

ROAD SURFACE
COVERINGS,
LIGHT / SHADE
ISSUES,
CURVES,
MEANDERS,
INCLINES,
BOTTLENECKS,
CLOSE PROXIMITY
REGIONS

SMART(ness) :
SPECIFIC CRITICAL
INTERACTION FOR
MEETING NEED WITH
APPLICABLE INSIGHT
RESPONSE AND
TEMPERAMENT



CRITICAL
INTERACTIONS

EXPECTED LICENSE,
PROBABLE
INCIDENCE/HAZARD/
RISK/RULE
COMPLIANCE,
PRECISE DRIVING,
ENDURANCE
DRIVING,
INTERCEPTING
CURVES,
MANEUVERING
OPTIONS,
RESPONSE,
RAPID RESPONSE,
UNDERSTANDING
SERVICE ANYWHERE
ANYHOW
ASSISTANCE,
EMERGENCY
RESPONSE / SPECIFIC
NEEDS

Dashboarding Road Safety/Support

- DRSS SMART(ness) for a journey/trip and virtual POINT SLOPE INTERCEPTION can make it simpler to identify the tangible correlation between driving conditions dimensioning of a route/road system/road with a DRSS Workflow to help and improve safer commuting
- This DRSS Workflow plus NSSR RS programme teamwork can
- Record-or-review,
- Relate,
- Reduce risk,
- Reciprocate response and
- Design Resilience for any journey/trip and its dimensions like the
- road surface,
- distance,
- drive time,
- commute reliably factors, where there is universal or brand specific service centre-assessable part-lifetime mitigation, condition monitoring, trafficable fault tolerance/preventive and corrective action, where this DRSS Workflow development can help a NSSR participant define/use a NSSR RS index for a journey/trip/TMS radius, where the index can be simply (1), (2), (3), (4) or combinations of them

The NSSR project recommends the use of different assistants to help commuters improve their experience

Dashboarding Road Safety/Support

- **(1) NRRS-I1:** where this workflow will need to address History of interaction & Foreseeable needs and 5R(s)
- **(2) NRRS- I2:** = this workflow will need to address Critical Interaction Zone needs and 5R(s)
- **(3) NRRS- I3:** this workflow will need to address Road/Route dynamics and 5R(s)
- **(4 NRRS- I4:** this workflow will need to address Advanced safetyneeds and 5R(s)
 - (like air quality, unregulated climate intolerance, temperature/humidity, road system or road or terrain safety, with more than an expected driving style for commuting with safety, reliability & timing and with more than programmed gear changes, or braking or drive distribution between the front and rear wheels as expected in 4WD modes)
 - The bulletin looks at the different assistants that can help a commuter's 5R(s). The editions that follow will delve into details of each of them to help a commuter/stakeholder ramp up scores in a dashboard

Dashboarding Road Safety/Support

- The DRSS Data Analysis Channel Building for an **automobile manufacturer's quality assurance, driver fitness, vehicle fitness, driving conditions dimensioning, and road system responsiveness** for deteriorating or changing driving conditions dimensioning of the needed SMART(ness for safer commuting will need to
- **1. Improve Sensitization and Awareness for Road Safety**
- **2. Develop issue/feedback/data channelization for safer commuting**
- **3. Provide handbooks/guides/planners for such planning/ incorporation**
- **4. Promote quality for road safety and infrastructure via NSSR guided methodologies like the training programmes/monthly bulletins & quizzes/dashboarding of experience or incidences**

DRSS Lifecycle and
NSSR RS Teamwork for
the DRSS Workflows

DRSS Data Analytics
and
Drive Performance
SMART(ness)

Accentuated
to enable
The Extra
Mile

Road safety and Accountability Dashboard for the Year 2026

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY

Year:



**STRATEGIC
PLANNING**



**TACTICAL
PLANNING**

**OPERATIONAL
PLANNING**

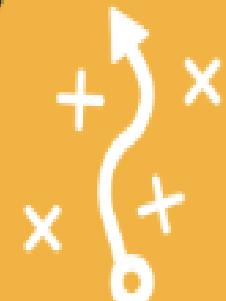


Road safety and Accountability Dashboard for the Year/Season 1

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STRATEGIC PLANNING



TACTICAL PLANNING



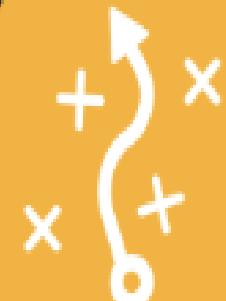
OPERATIONAL PLANNING

Road safety and Accountability Dashboard for the Year/Season 2

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
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- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



STRATEGIC PLANNING



TACTICAL PLANNING



OPERATIONAL PLANNING

Road safety and Accountability Dashboard for the Year/Season 3

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



STRATEGIC PLANNING



TACTICAL PLANNING



OPERATIONAL PLANNING

Road safety and Accountability Dashboard for the Year/Season 4

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
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STRATEGIC PLANNING

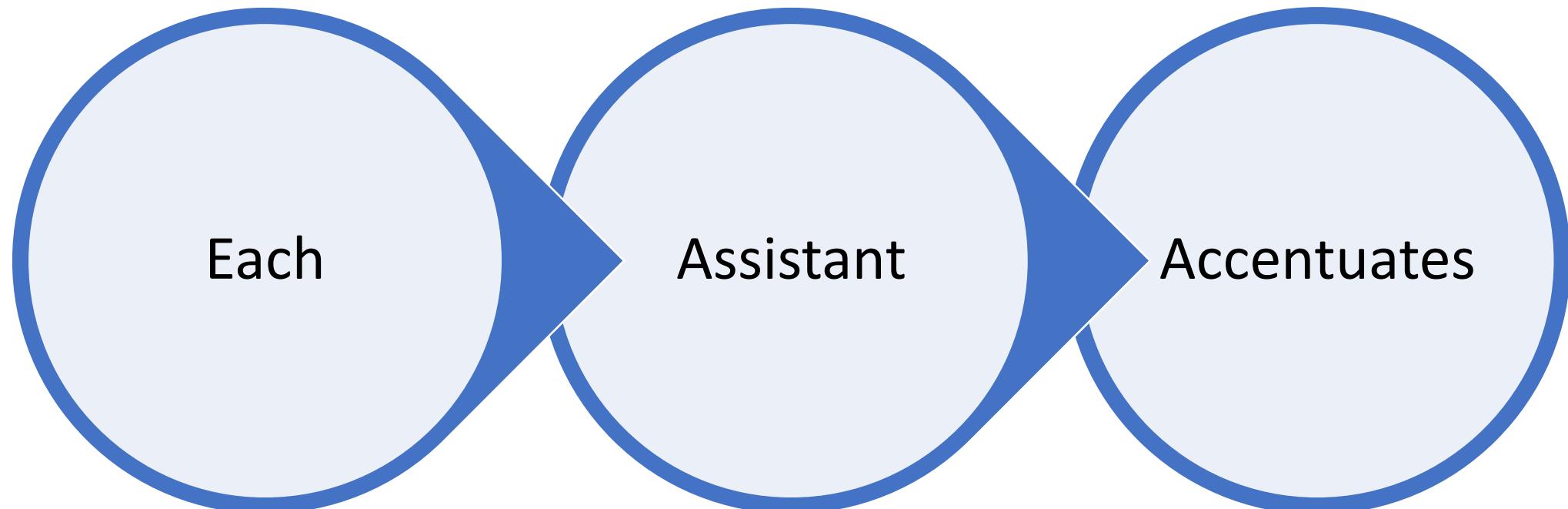


TACTICAL PLANNING

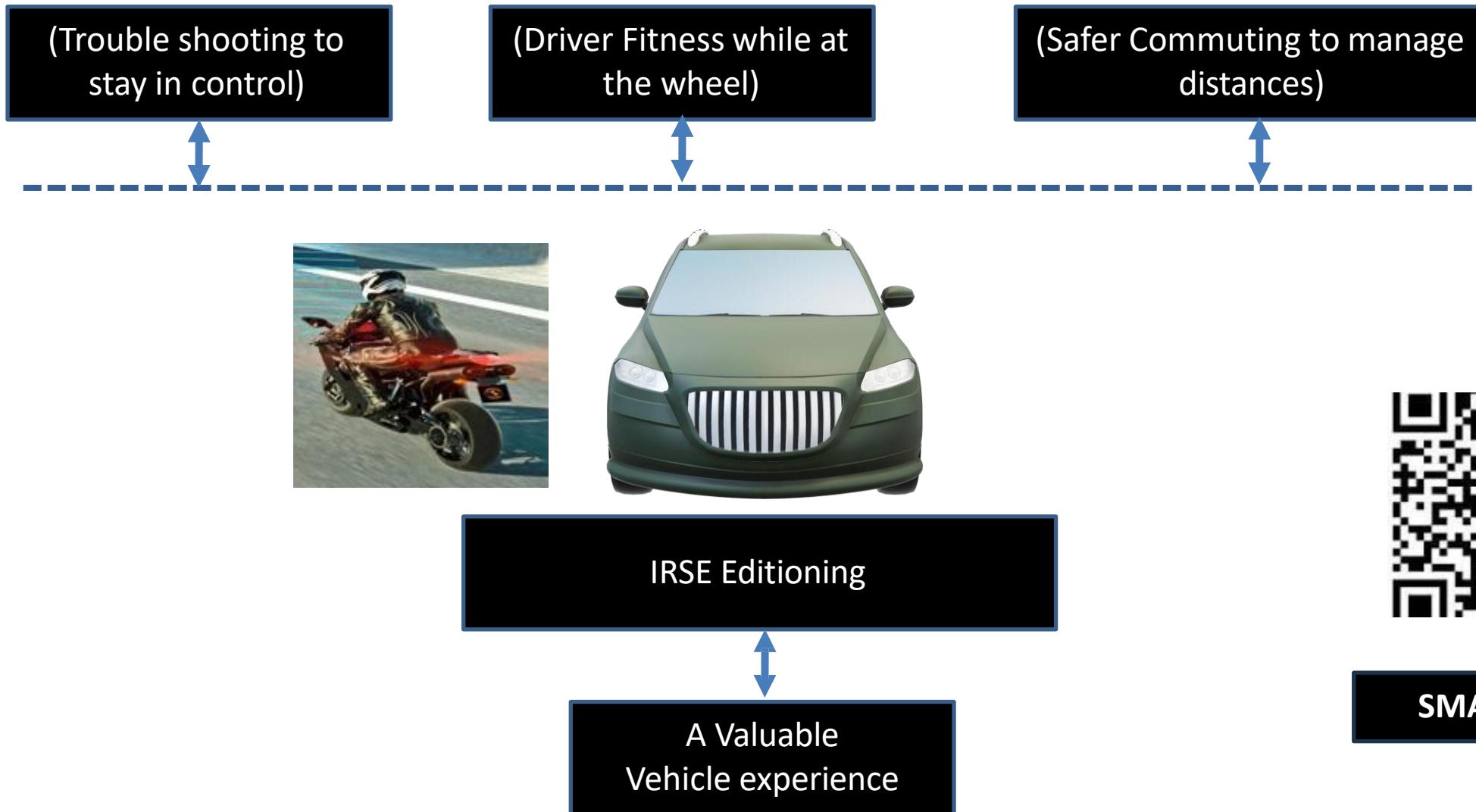
OPERATIONAL PLANNING



DRSS Assistants – Safety Systems



YOUR VEHICLE DEMYSTIFIED



ABS Performance

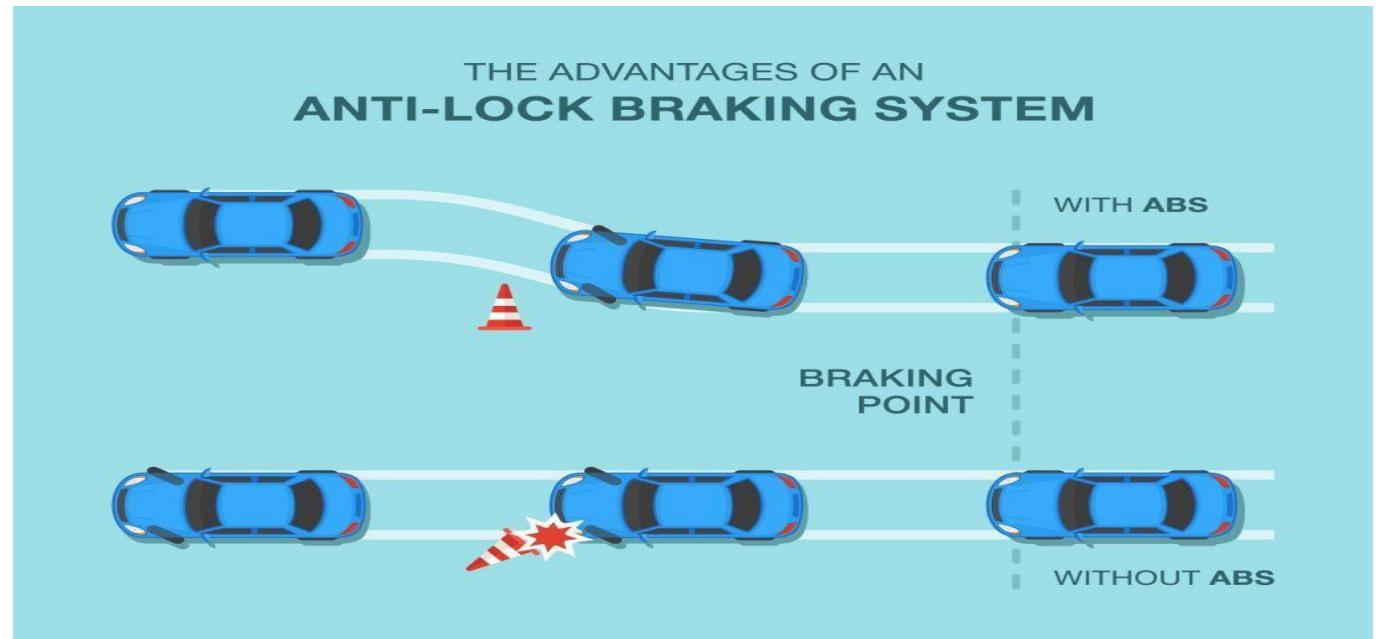
ABS stands for Anti-lock braking system. It is incorporated in two wheelers, four wheelers, commercial vehicles.

ABS incorporated Vehicle Experience

- ✓ ABS helps safe and effective braking
- ✓ ABS improves control over steering during braking
- ✓ ABS improves control over vehicle during cornering
- ✓ ABS improves tyre life
- ✓ ABS reduces fuel consumption



SMART Vision



ARAS Performance

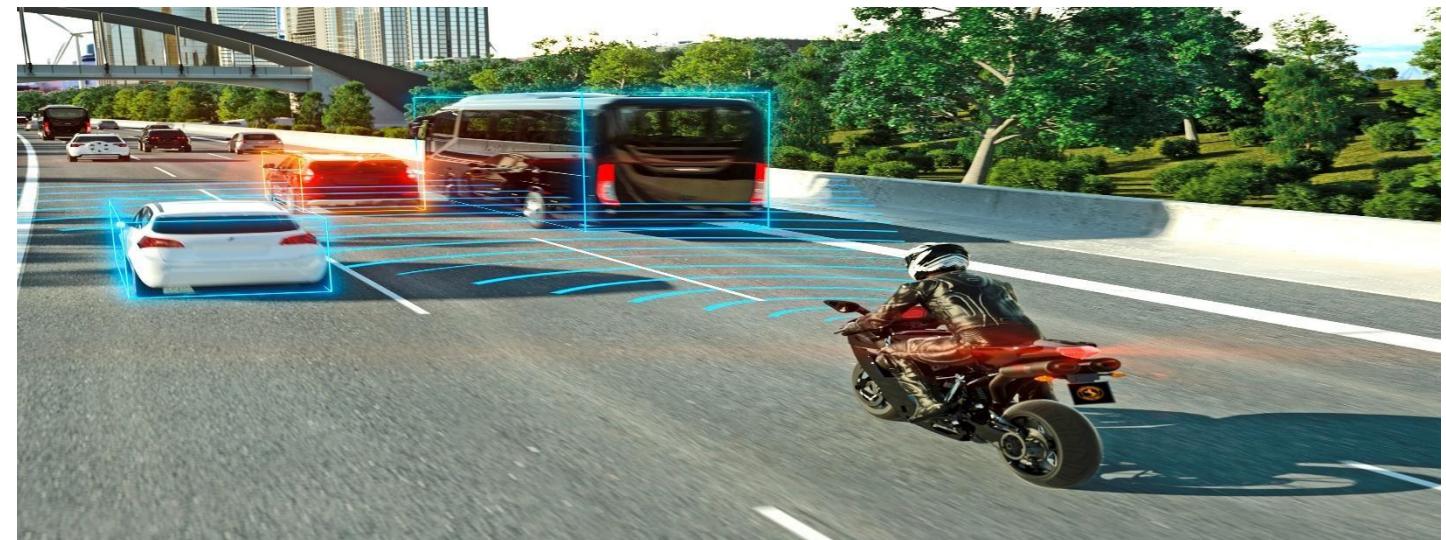
Advanced Rider Assistance Systems (ARAS) is often incorporated in two wheelers

ARAS Vehicle Experience

- ✓ ARAS improves safety and enhances rider assistance
- ✓ ARAS improves riding control in different situations
- ✓ ARAS enables alerts for Blind spot detection (BSD)
- ✓ ARAS enables Lane change assistance (LCA) at higher relative speeds
- ✓ ARAS enables high frequency hazard lights for Rear end collision warning (RCW)
- ✓ ARAS delivers effective Forward collision warning (FCW)
- ✓ ARAS enables comfortable, safe distance riding and Adaptive Cruise Control (ACC)



SMART Vision



EBA Performance

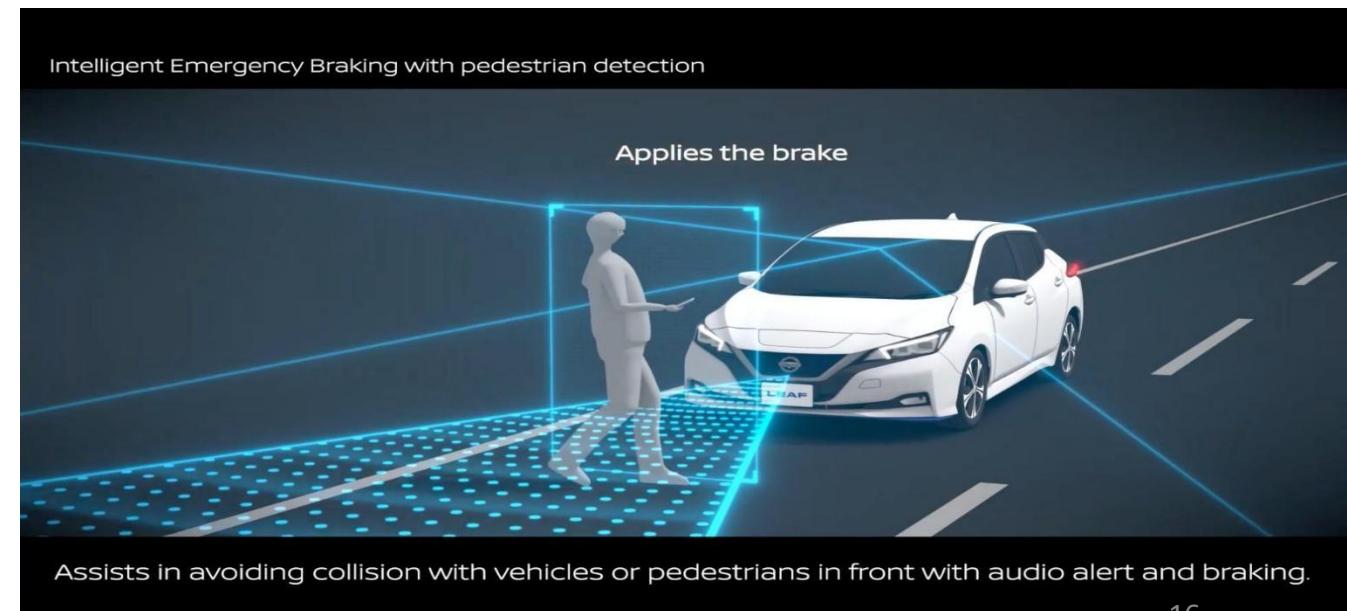
Emergency Braking Assist (ARAS) is often incorporated in two wheelers/four wheelers and CMV(s)

EBA Vehicle Experience

- ✓ EBA improves safety and control in driving
- ✓ EBA assists braking on collision risk
- ✓ EBA improves safety in sudden and forceful braking
- ✓ EBA reduces stopping distance
- ✓ EBA works effectively in cross traffic situations
- ✓ EBA assists and improves pedestrian safety



SMART Vision



TPMS Performance

Tyre Pressure Monitoring System is often incorporated in two wheelers, four wheelers and commercial vehicles

TPMS Vehicle Experience

- ✓ TPMS improves handling and stability in driving
- ✓ TPMS alerts when tyre pressure is low
- ✓ TPMS improves safety by reducing the wear of tyre or incidences of a blow-out / punctured tyre
- ✓ TPMS improves fuel efficiency
- ✓ TPMS reduces hydroplaning when an under-inflated tyre loses contact with the road surface in wet conditions
- ✓ TPMS ensures proper stopping distance

SMART Vision



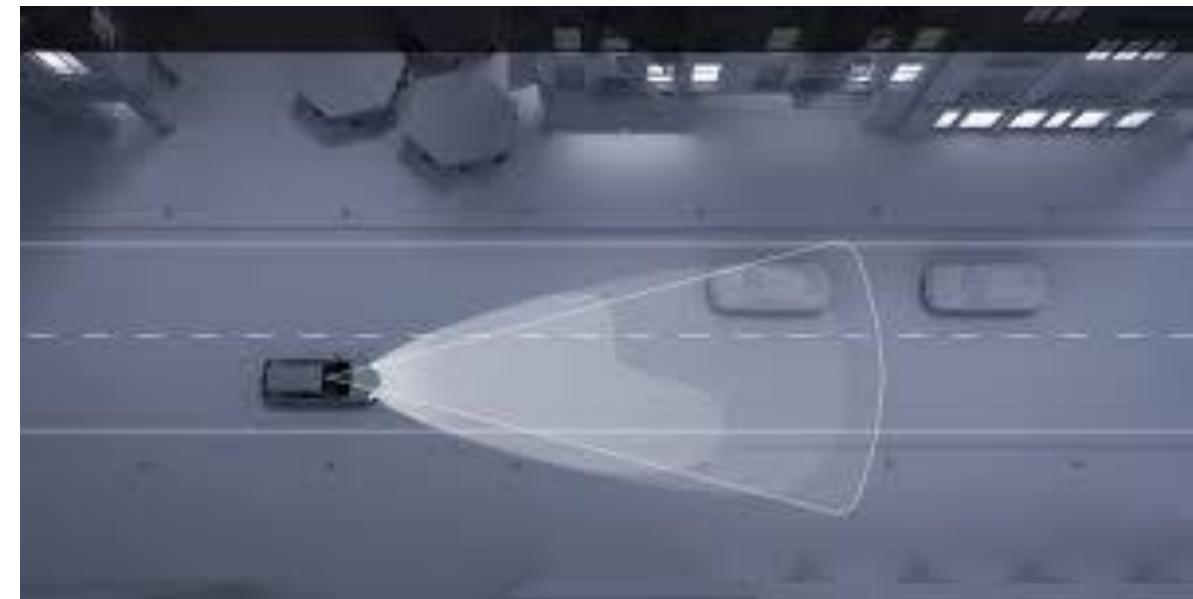
AHO Performance

Automatic Headlamp on is often incorporated in two wheelers, four wheelers and commercial vehicles.

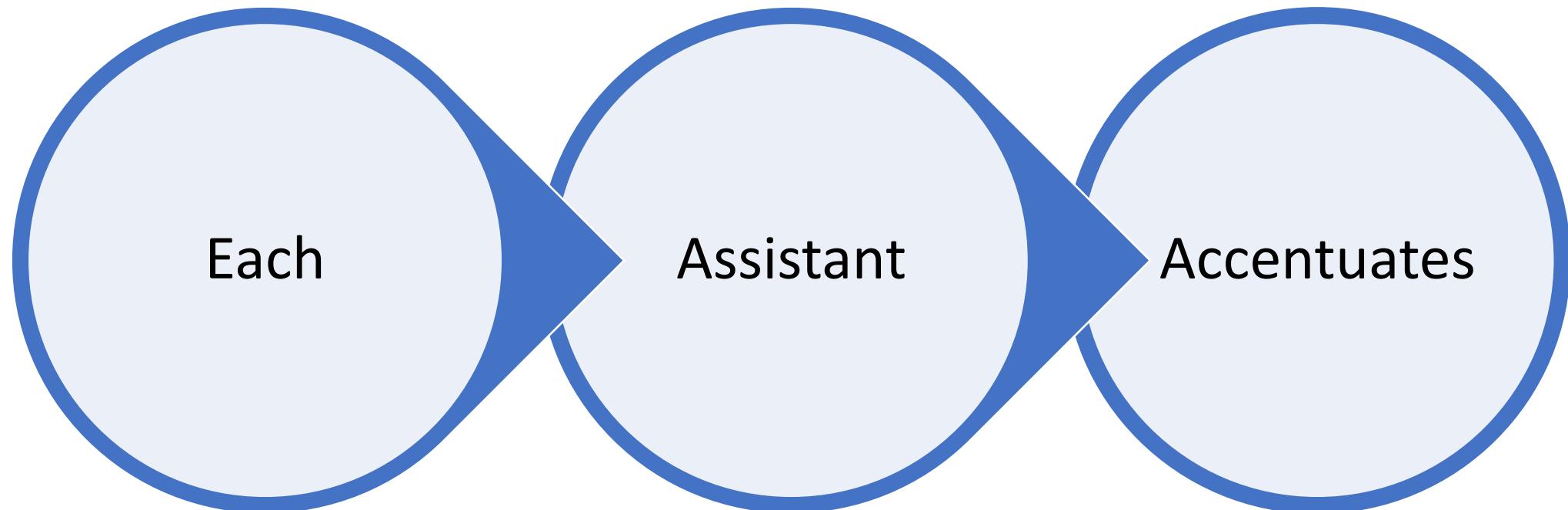
AHO Vehicle Experience

- AHO improves safety and visibility in driving
- AHO turns on automatically when the engine is started
- AHO turns off only when the engine stops
- AHO improves visibility at night, in rain, or in fog or in dusty conditions
- AHO improves rear view mirror visibility of 2 wheeler and its vehicle information
- AHO does not drain the battery when ON

SMART Vision



DRSS Assistants – Safety Systems



Quiz

DRSS
Assistants –
Safety
Systems

