



# **BUILDING SAFE SCHOOL ZONES WITH STAR RATING FOR SCHOOLS**

**ASIA-PACIFIC ROAD SAFETY OBSERVATORY**

**PROTECTING THE MOST VULNERABLE: ENSURING ROAD SAFETY IN SCHOOLS**

**15 JUNE, 2021**

**Presenter: Minh Vo – Monitoring & Evaluation Coordinator, AIP Foundation  
iRAP Star Rating for Schools Master Trainer**

# OUR MISSION



## OUR MISSION

AIP Foundation is a non-profit organization delivering effective and sustainable road safety interventions to build resilient communities and save lives.



# OUR PARTNERSHIPS & AFFILIATIONS

International Organizations



National Governments



Philanthropic Foundations



Research Institutions



Multinational Corporations



FOUNDATION

*fondation*  
**BOTNAR**



CHILD HEALTH INITIATIVE



CHILD INJURY PREVENTION ALLIANCE



GLOBAL ROAD SAFETY PARTNERSHIP

SAFE K:IDS WORLDWIDE

*Johnson & Johnson*

# OUR ISSUE AREAS



## HELMET SAFETY

We prioritize people's well-being by putting safety equipment into the hands of those who need it most.



## PEDESTRIAN SAFETY & SCHOOL ZONES

We advocate for legislative change for walkable cities where every child can use their road safely.



## OCCUPATIONAL SAFETY

We design programs that serve workers and create space for them to speak up about issues that affect them most.



## ANTI DRINK-DRIVING

We focus on changing public perception and government legislation into sustainable actions.



## DRIVING SKILLS

We empower individuals to be in control of their environment through defensive driving skills.



## SPEED MANAGEMENT

We implement infrastructure that promotes speed reduction to save as many lives as possible.



## SEATBELTS & CHILD RESTRAINTS

We develop awareness campaigns targeting the behavior and attitudes of parents to keep their child safe.



## POST-CRASH CARE

We deliver resources to recovering victims for smooth transitions back into the workforce.

# PEDESTRIAN SAFETY AND SCHOOL ZONE PROGRAMS

- Previous School Zone Programs

Tools:

Pre - intervention	Post - intervention
Photography	Photography
Checklists	Checklists
Interviews	Interviews
Pedestrian observations	Pedestrian observations

- From *Walk This Way* Program to current School Zone Programs



**STAR RATING**  
FOR SCHOOLS

developed by





About iRAP:

Registered charity

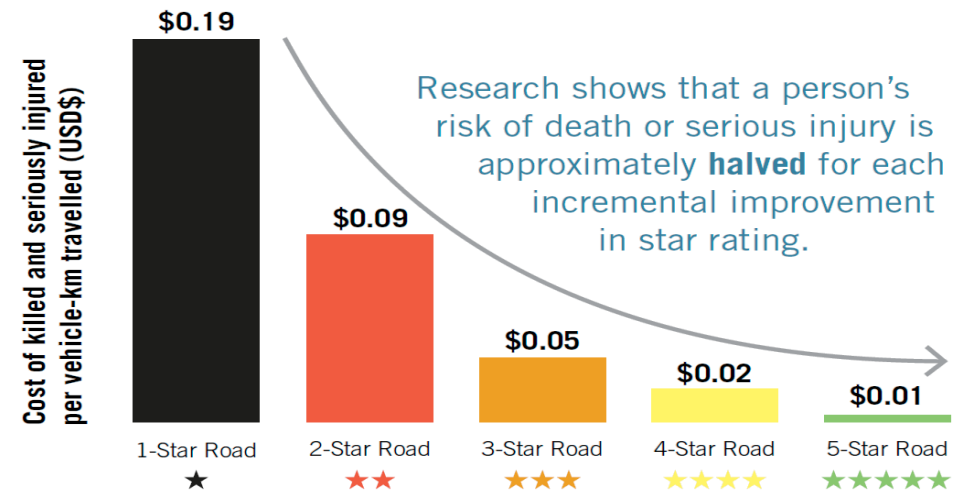
Vision: a world free of high risk roads

Inspect high-risk roads and develop Star Ratings and Safer Roads

100+ countries, 1 million km +

# WHAT'S A STAR RATING

- Simple and objective measure of the level of safety which is 'built-in' to the road
- Five-star road segments are the safest while one-star are the least safe
- Can be completed worldwide, in urban and rural areas, without reference to crash data



# STAR RATING FOR SCHOOLS (SR4S)

- Evidence-based tool for **measuring, monitoring and communicating** risks on the roads
- Focused on pedestrian road attributes
- Awarded a prestigious Prince Michael International Road Safety Award in 2018



Video courses and guidelines  
available in  
**English** and **Spanish**

**730** schools

**44**  
countries



Image Credit: FIA Foundation



STAR RATING  
FOR SCHOOLS

FOUNDING  
SPONSOR:



MAJOR  
DONOR:



MADE SAFER  
BY:



GLOBAL PROGRAMME  
PARTNER:



# SR4S: THE PROCESS

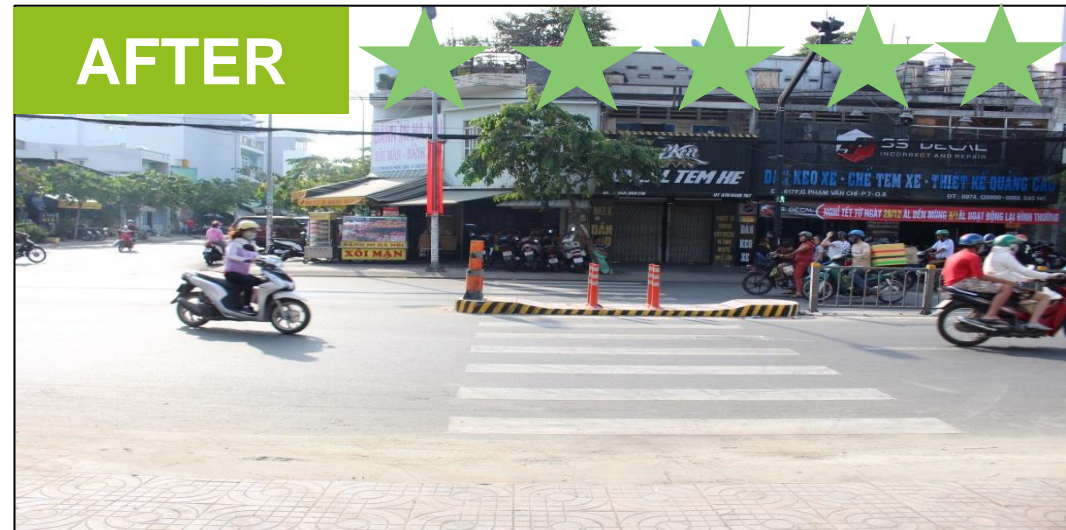
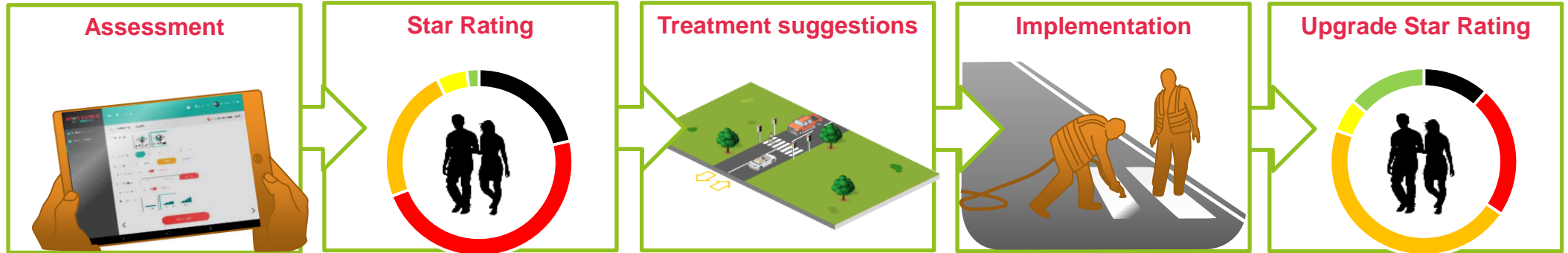


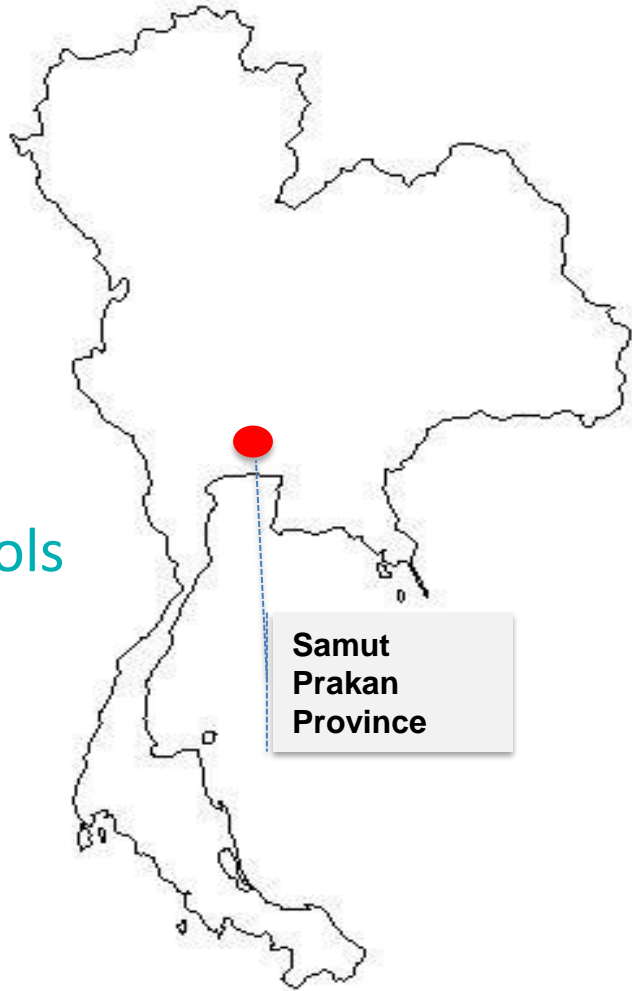
Image Credit: AIP Foundation



# LOCATIONS ASSESSED IN VIETNAM AND THAILAND



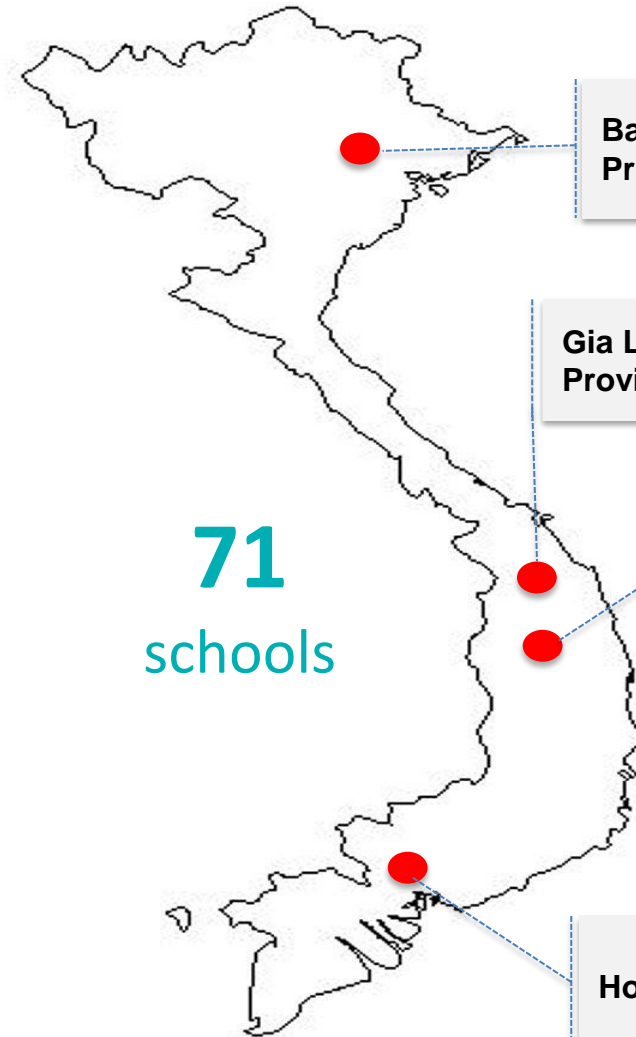
2 schools



Samut Prakan Province



71 schools



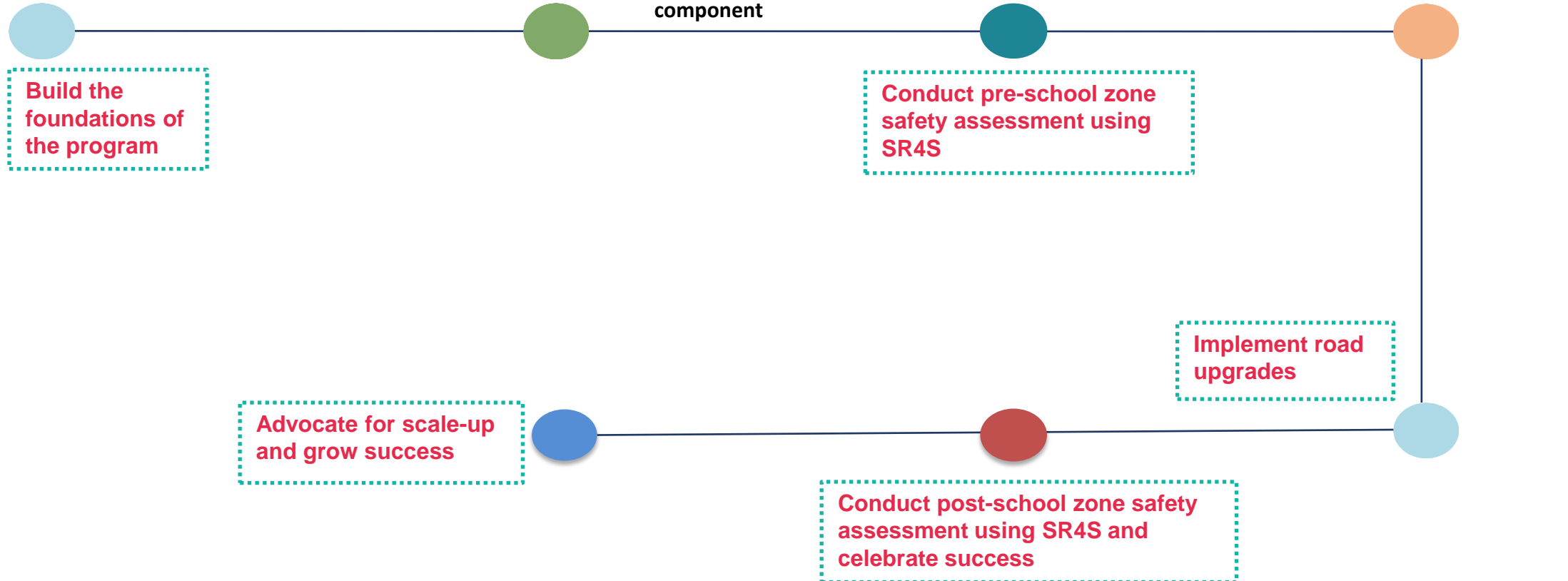
Bac Giang Province

Gia Lai Province

Dak Lak Province

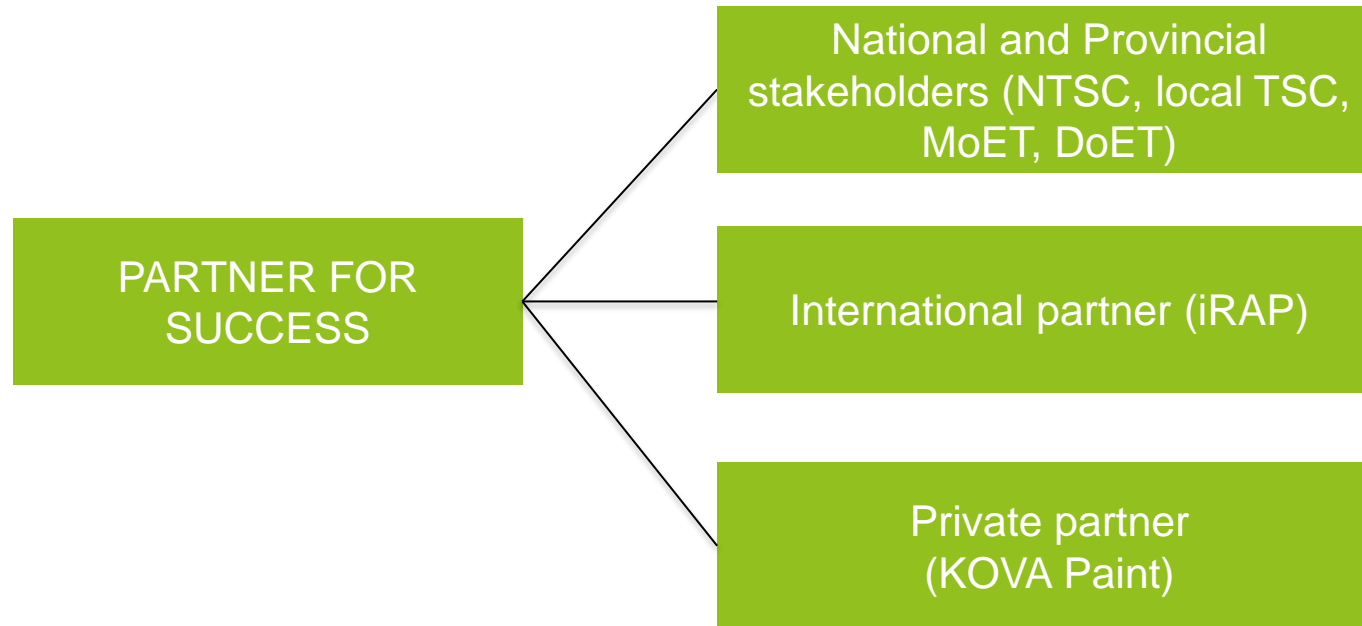
Ho Chi Minh City

# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM



# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (1) Build the foundations of the program



SECURE FUNDING

**BOTNAR**  
Child Road Safety Challenge



# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (2) Plan the need assessment

### IDENTIFY HIGH-RISK SCHOOLS



#### Criteria:

- High traffic flow and high speed;
- High records of road crashes (if crash data available);
- Align with local priorities/planned or ongoing projects;
- A great of number of student pedestrians.

# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (2) Plan the need assessment

IDENTIFY HIGH-RISK SCHOOLS

ENGAGE THE SCHOOLS

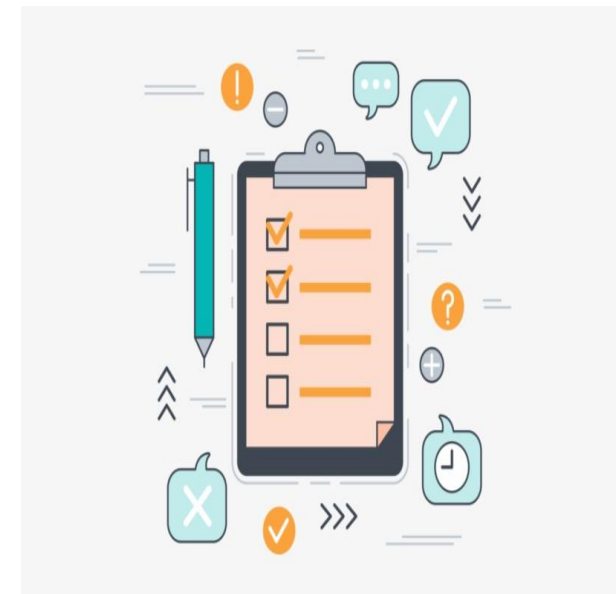


Image Credit: AIP Foundation

# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (2) Plan the need assessment

IDENTIFY HIGH-RISK SCHOOLS

ENGAGE THE SCHOOLS

CHOOSE AN APPROACH

*Slow Zones, Safe Zones* uses a multi-pronged approach to reduce speed through:



Constructing tailored school-zone modifications;



Implementing a public awareness campaign (TV, billboard, social media);



Developing and piloting a nationally-applicable road safety e-curriculum;



Enforcing new speed limits in school zones;



Advocating for legislative change.



# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

**(3) Conduct pre-school zone safety assessment using SR4S**

**BUILD CAPACITY ON ASSESSMENTS**

**ASSESS INFRASTRUCTURE WITH SR4S**



Image Credit: AIP Foundation

# ASSESS INFRASTRUCTURE WITH SR4S: ATTRIBUTES RECORDED FOR EACH SEGMENT

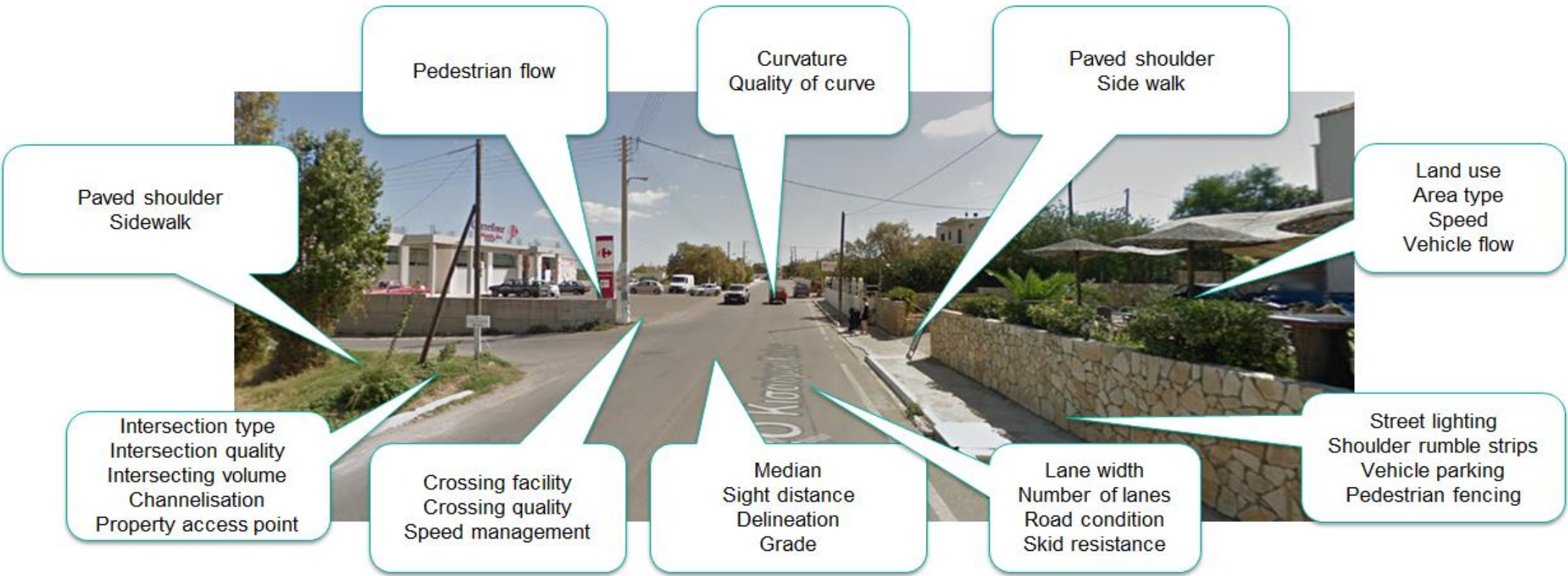


Image reference	Road name	Section	Comments	Carriageway label
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# ASSESS INFRASTRUCTURE WITH SR4S: WAYS TO CODE

**SR4S FOR SCHOOLS**

**Location**

**Road Environment**

**School Zone**

**Sidewalks**

**Road Features**

Median type: Centre line, Wide line 1m, DIVIDED 1 to 5m, DIVIDED 5 to 10m, Turn Lane, Feature posts, Divided 0 to 1m, Divided 1 to 5m, Divided 5 to 10m, Divided 10 to 20m, Divided 20m+

Definition: Metal barrier, Concrete barrier, Wire barrier, Motorcycle barrier, One Way

Street Lighting: Adequate, Floor, Not present, Present

School Warning: School Crossing Supervisor, Signs, No School

Sidewalk Left: None, 0 to 1m Aisley, 1 to 3m Aisley, >3m Aisley, Barrier, Informal 0 to 1m, Informal >3m

Sidewalk Right: None, 0 to 1m Aisley, 1 to 3m Aisley, >3m Aisley, Barrier, Informal 0 to 1m, Informal >3m

Paved Shoulder Left: None, 0 to 1m Wide, 1 to 2.4m Wide, >2.4m Wide

Paved Shoulder Right: None, 0 to 1m Wide, 1 to 2.4m Wide, >2.4m Wide

Pedestrian Fencing: Not present, Present

Founding sponsor: FedEx

Major donor: FIA FOUNDATION

Made safer by: IRAP

Entrance > Cardphone :: Star Rating for Schools

results.starratingforschools.org/location/3381

**STAR RATING FOR SCHOOLS**

Dashboard | Establish a Project | My Data | Reviews | Admin | My Account

Entrance > Cardphone ★★★★☆ Draft

School: Zorba

Items Recorded

- Land Use Left
- Land Use Right
- Undivided Carriageway Type
- Area Type
- Vehicle Parking
- Sight Distance
- Number of Lanes: 1&1
- Lane Width: MEDIUM
- Shoulder Rumble: NOT PRESENT
- Road Condition: POOR
- Grip: MEDIUM
- Grade
- Middle of Road
- Lines & Signs: POOR
- Street Lighting: NOT PRESENT
- School Warning: School
- Crossing Supervisor: STOP
- Sidewalk Left
- Sidewalk Right
- Road Edge Left
- Road Edge Right
- Crossing Main Road
- Crossing Side Road
- Crossing Quality: NA
- Pedestrian Fencing: NOT PRESENT
- Vehicle Flow: 2000
- Left Side Flow / Hr: 6-25
- Crossing Flow / Hr: 1-5



Image Credit: Fundación Gonzalo Rodriguez



# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (4) Communicate baseline results and propose countermeasures

DEMONSTRATOR

Click on icon to change its value to see the effect on star ratings.



Land Use Left MEDIUM	Land Use Right	Area Type	Vehicle Parking	Sight Distance POOR	Number of Lanes 1&1	Lane Width MEDIUM	Shoulder Rumble NOT PRESENT	Road Condition MEDIUM
Grip	Grade	Carriageway Type Undivided	Middle of Road	Lines & Signs	Street Lighting NOT PRESENT	School Warning	Crossing Supervisor	Sidewalk Left
Sidewalk Right	Road Edge Left	Road Edge Right	Pedestrian Fencing NOT PRESENT	Crossing Main Road	Crossing Side Road	Crossing Quality NA	Vehicles / Day 2000	Crossing Flow / Hr 26-50
Right Side Flow / Hr 101-200	Left Side Flow / Hr 6-25	Intersection Type	Driveways	Intersection Side Flow 100-1k	Intersection Quality POOR	Intersection Channelisation NOT PRESENT	Curve Type	Curve Quality NA
Speed Limit 40 km/h				Operating Speed 50 km/h	Speed Management NOT PRESENT			

Click on icon to change its value to see the effect on star ratings.



Land Use Left MEDIUM	Land Use Right	Area Type	Vehicle Parking	Sight Distance POOR	Number of Lanes 1&1	Lane Width MEDIUM	Shoulder Rumble NOT PRESENT	Road Condition MEDIUM	
Grip	Grade	Carriageway Type Undivided	Middle of Road	Lines & Signs	Street Lighting NOT PRESENT	School Warning	Crossing Supervisor	Sidewalk Left	
<b>Crossing Main Road</b>									
None	Lights	Raised	Bridge / Tunnel	Marked	Refuge	Lights & Refuge	Marked & Refuge	Raised & Marked	Raised & Refuge
				Raised, Marked & Refuge					
Speed Limit				Operating Speed				Speed Management	

# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (5) Implement road upgrades



*Image Credit: AIP Foundation*

# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

(6) Conduct post-school zone safety assessment using SR4S and celebrate success



Key intervention:  
Improve sidewalks, road markings. Install raised crosswalk

Prince Michael  
**INTERNATIONAL  
ROAD SAFETY AWARD**

Recognising achievements and innovations  
which will improve road safety

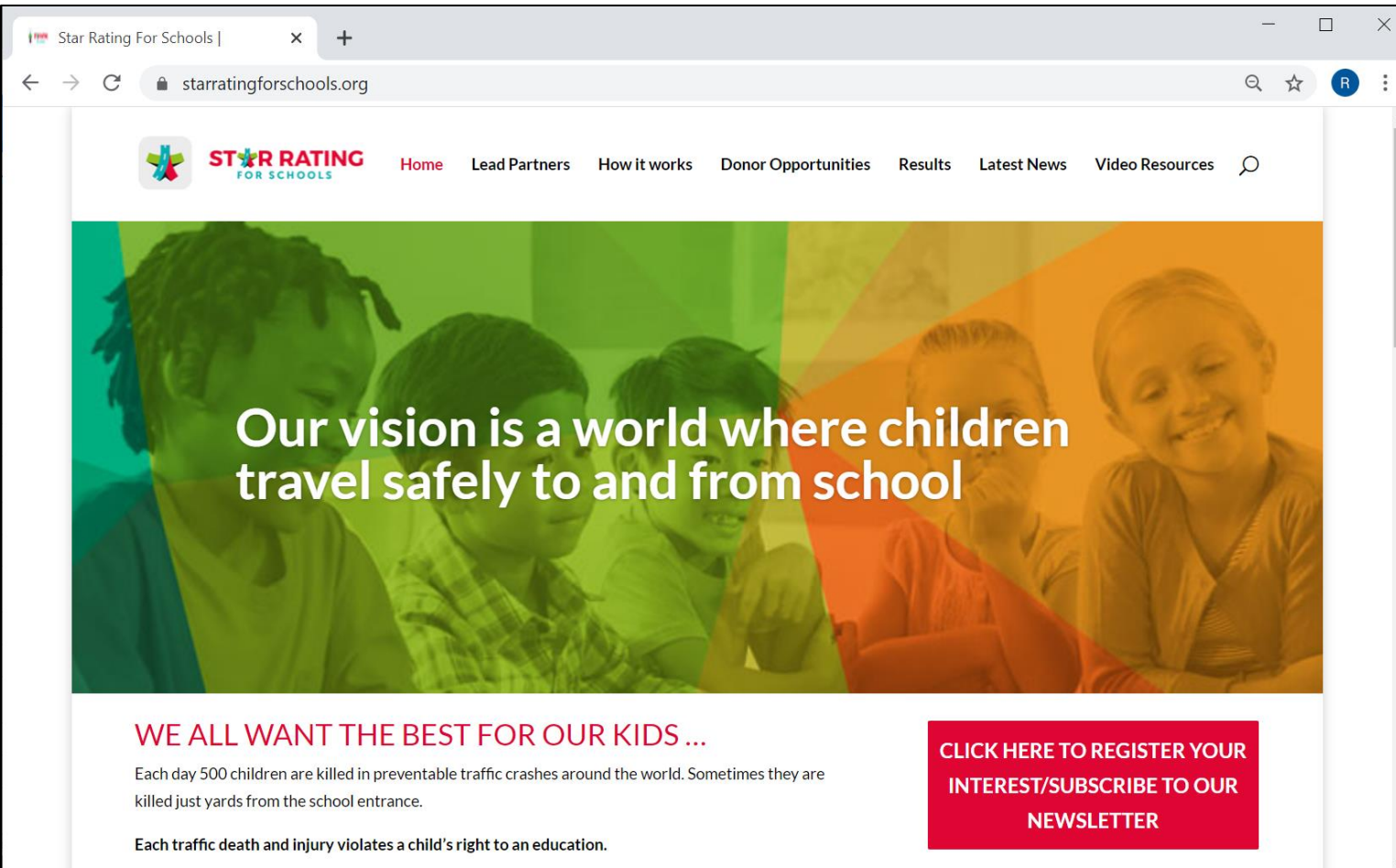
**Vietnamese Government wins Prince Michael Road Safety Award for  
AIP Foundation's Slow Zones, Safe Zones program**

# HOW TO STRUCTURE A SAFE SCHOOL ZONE PROGRAM

## (7) Advocate for scale-up and grow success



# KEEN TO GET INVOLVED?



The screenshot shows the homepage of the Star Rating For Schools website. The browser address bar displays "starratingforschools.org". The navigation menu includes "Home", "Lead Partners", "How it works", "Donor Opportunities", "Results", "Latest News", and "Video Resources". The main banner features a photograph of diverse children with the text: "Our vision is a world where children travel safely to and from school". Below the banner, a red box contains the text: "WE ALL WANT THE BEST FOR OUR KIDS ..." followed by a paragraph: "Each day 500 children are killed in preventable traffic crashes around the world. Sometimes they are killed just yards from the school entrance. Each traffic death and injury violates a child's right to an education." To the right of this text is a red button that says "CLICK HERE TO REGISTER YOUR INTEREST/SUBSCRIBE TO OUR NEWSLETTER".

- Check the resources available at [www.starratingforschools.org](http://www.starratingforschools.org)
- Discuss your project with local partners and stakeholders
- Get a partnership with SR4S Lead Partners or iRAP



# THANK YOU



## For more information:

Visit: [www.aip-foundation.org](http://www.aip-foundation.org)

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  -  [@saferoadsforlife](https://www.instagram.com/saferoadsforlife)



[schools@irap.org](mailto:schools@irap.org)



[starratingforschools.org](http://starratingforschools.org)



[starratingforschools.org/register-your-interest/](http://starratingforschools.org/register-your-interest/)



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