

The**CityFix**

WEBINAR Enabling Safe Commutes for School Children: Case of Rohtak, Haryana

Tuesday June 25th | 3:00 – 4:00 PM (IST)

Vaibhav Kush - Project Associate, WRI India



Child-friendly City?

"A Good City is one in which children can grow and develop to the extent of their powers; where they can build their confidence and become actively engaged in the world; yet be autonomous and capable of managing their own affairs."

– Kevin Lynch

"The ideal notion of childfriendliness guides cities to envision and develop sustainable environments where young citizens can live, grow up, develop, socialise and express themselves in the fundamental fulfilment of their rights."

Arab Gulf Fund for Development (AGFUND)

"...it is a city, town or community in which the voices, needs, priorities and rights of children are an integral part of public policies, programmes and decisions."

- UNICEF Child Friendly Cities Initiative



ROAD SAFETY SCENARIO





1.35 million

people die every year due to road traffic crashes

8th leading cause of death for all age groups



CHILD ROAD SAFETY SCENARIO



3



81,760

children aged between 5 and 14 die every year



cause of death for persons aged 5 - 14

ROAD SAFETY SCENARIO



148,000

people die every year due to road traffic crashes

1st cause of accidental death for all ages



SOURCE: ACCIDENTAL DEATHS & SUICIDES IN INDIA (NCRB 2015), CENSUS (2011)

CHILD ROAD SAFETY SCENARIO





15,600

children below 18 years died due to road traffic

crash

(NCRB Accidental Deaths & Suicides in India 2015)

9,400 children below 18 years died due to road traffic crash

(Nissan & SaveLIFE Foundation 2017)

HARYANA



5,000 Road Traffic Fatalities **5%** In vicinity of schools

HARYANA VISION ZERO

Road crash fatalities per 100,000 population





The Safer Commute for School Children – Rohtak, Haryana

Project Partners:













Estimated population in 2016 = 400,000

Municipal Area = 115 km2

schools

Population below 18 years of age = 36%

About 78,000 students enrolled in

In 2016, 521 road crashes led to 241 deaths in District Rohtak

As per Police FIRs - 123 road crashes led to 137 deaths in city in 2016







Source: Graphics based on National Crime Records Bureau ADSI 2015 data

To transform Rohtak into a city where children can travel safely on the road, either by foot, cycle or transit, and irrespective of whether they are accompanied by an adult or on their own







OBJECTIVES



1. Reduce crash risk around 5 schools



2. Reduce crash risk for children in Rohtak















Objective 2: To influence a reduction in the crash risk for children across Rohtak by the end of two years





Workshops for Engineers

Capacity building of city officials



Workshops for Traffic Police

Strategy 2.1







Strategy 2.1 – Capacity Building of City Officials



4 6 153 workshops departments participants

















Workshop with school children, community etc.

Community campaigns through Raahgiri

Influence community on prioritizing child road safety

Strategy 2.2



Media outreach



h















Activity 2.2.2 – Community Campaigns through Raahgiri

RCDS

Awareness campaigns during Raahgiri Days and on special occasions like World Remembrance Day, Road Safety Week, etc.











Activity 2.2.3 – Media Coverage

Rohtakselected for school kids' safety project

ROHTAK, APRIL 26

Rohtak has been selected for the 'Safer commute for schoolchildren' project by Swiss Foundation Botnar as part of its Child Road Safety Challenge. The project, convened by the Indian chapter of the World Resources Institute (WRI), in partnership with Rohtak police, MC and NASSCOM Foundation, is slated to kick off from May 1.

Rohtak SP Pankaj Nain disclosed here on Thursday that Rohtak was among the 12 cities across the world and two from India which have been selected for the project.

"The Botnar Foundation will provide a financial assistance of ₹2 crore over a period of two years to WRI India for providing evidencebased knowledge and technical support, conducting training for the municipal officers and traffic police personnel and creating awareness. - TNS







के बाद अपनी टीम के साथ खडे आईजी संदीप खिरवार

रोहतक | बॉटनार संस्था की ओर से गरुवार को बेहतर यातायात प्रबंधन व रोड इंफ्रास्टक्चर विषय पर सर्किट ह्राउस में रोड पुलिसिंग वर्कशॉप लगाई गई। वर्कशॉप में आईजी संदीप खिरवार ने शिरकत की। इस कार्यशाला में रोहतक, सोनीपत, झज्जर, चरखी दादरी और भिवानी के अंतर्गत 5 जिलों के पुलिस अधीक्षक, अतिरिक्त एसपी और डीएसपी (टैफिक) ने

डीसी कार्यालय में पुलिस और प्रशासनिक अधिकारियों

के बीच हुई बैठक

रोहतक (ब्यूरो)। डीसी कार्यालय में पुलिस

व प्रशासनिक अधिकारियों ने वर्ल्ड रिसोंसेज

इंस्टिटवर इंडिया के साथ बैठक की। चाइल्ड

रोड सेपटी प्रोजेक्ट के तहत शहर के सात

स्कूलों का चयन किया गया। पुलिस व संस्था मिलकर बच्चों व उनके अभिभाषकों को

ट्रैफिक नियमों के प्रति जागरूक करेंगे। वहीं

सहक हाटमों पर अंकण लगाने को रहे

मोटिंग में डीसी डॉ. यश गर्ग, एसपी

डब्ल्यआरआई

किया गया था। इसके तहत जरूरी मानकों को भी परा कराया जाएगा।

स्कूलों के बच्चों से लेकर अभिभावकों,

जशनदीप सिंह रंधावा, डीएसपी टैफिक रविंद

पदाधिकारी मौजूद रहे। डीएसपी डॉ. रविंद्र

कमार ने बताया कि हाल ही में रोहतक व

सम का चयन चाडल्ड रोड सेफरी प्रोतेकर

देवाददर को भी सदी कराया जगगा।

हिस्सा लिया। कार्यशाला का उद्देश मख्य सडक सरक्षा सिद्धांतों, नेत सिद्धांतों, सुरक्षित प्रणाली मॉडल आशावादी प्रवर्तन के लिए रणनीति योजना, प्रभावी डेटा प्रबंधन के महत बेहतर सामुदायिक समर्थन के लि प्रक्रियात्मक निष्पश्चता, समकालीन प्रवर्तन का उपयोग करने में रोहतक टैफिक पुलिस लीडरशिप टीम के बारे में बताना था।

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KILLER ROADS Is lick/pergris lose their likes on india's roads- the highest namber in the world. What is even more worksome first fact het name india that set liked more work indian reads	<text><text><text><text></text></text></text></text>	HAVE THE COUNTER'S STILL STREETS IN ADDITIONAL TO BE THE STREETS IN ADDITIONAL TO BE THE STREET STREETS IN THE STREETS IN ADDITIONAL TO BE THE STREETS IN ADDITIONAL
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पुरानी समय के लिए प्रतासवालिये के लिए के कार्य में मिलिक प्रेलेकर की बात है (तेलक प्रतिस जाएग) इस केलेकर का जिलक म प्राप्त, तक लग में स्टोट्यूट्ट हीतिल, जस जिलका पर प्रथम दिनाओं

के देशन माधर स्टेक्के प्रस	वाप्रवल भाषीत	रजनोडलाइगः अवस्थ	साधन सीमने प्रजयप्रेयन		
क्ताडः । वियटजरतीतः व तापः से शहर में प्रतः क्षे	01	नाह १७ ध्वनेत्रा बीट नरवी से छट काटुप्रस	तिलाइन बनाव गय है उसने पैछन और पहल आलामें को पॉई प्रेसनी से न्हों हो हो। लाग		
भा दुवान गुरू कर उसा के पांच की नावड़ि भा कैमिनेटिंग त्याई यहें और हमें के लिए खड़ा या दिनि हम परियम संप्रदालक हमें के जा खुंचकर ट्रेनिक । एस जोटन कि जात ने गावा दोक कि पा खुंचकर होने गावा दोक कि कि जो हम हिंदा कारावा	विष्ठाय संस विकांत पाटा और स्वर वि पालाया जा पहले नय क विष्या गया है अनुपाल की दिश में प्रेटिन विद्या जाने सखा त्या प्रा	त्यार कंपनार के जिपने कंपलाटें, तथा ने कहाना कि पुनित प्रजासन राज के कहाना कि पुनित प्रजासन राज है। दूसार के तिर स कामे स नटेंद के बसा दे-नाम्बंद का पहन राजीवार एक के बर्ग राज हिम्हा के तेर्वित राज के बंध के कि का क्या आदि कर के म्हानुकार काल उन्हा आदि कर के म्हानुकार काल उन्हा राज के देश के क्या जाना करता (उन्हान के देश के क्या जाना करता) (उन्हान के देश के क्या जाना करता)	व स्वर्थन केला के, स्वरं का संगठ संगठ प्रेरण के स्वर्थना का सा कहा है। उसने के से प्रेरण संगठ को कारण के जावता ! इनको प्रतरे के स्वरंत कि स्वरंत के स्वाप्त कि संगठना के साम कि स्वरंत के स्वरंत कि स्वरंत के स्वरंती का स्वरंत का स्वरंत कि स्वरंत के स्वाप्त स्वरंती पर कार्यों कर स्वरंत के स्वरंत के स्वाप्त स्वरंती पर कार्यों कर स्वरंत के स्वाप्त का सिंहम स्वरंत के स्वारंत के स्वाप्त का दिन्द सामय इसके स्वारंत क्यांत कि स्वाप्त कि		

विद्यार्थियों का सफर होगा सरक्षित. स्विटजरलैंड बोटनर फाउंडेशन शरू करेगी प्रोजेक्ट

बच्चों का सफर होगा सुरक्षित, बॉटनार का ट्रायल शुरू

एसआरएस स्कूल में बच्चों को दी सड़क सरक्षा की जानकारी

एसआरएस वरिष माध्यमिक विद्यालय में स्विटजरलैंड हा एक पायलेर प्रोजेकर प्राप्त हथ मफर करने के बारे में जानकारी गई। बच्चों के अभिभावकों से वादः को लेकर विचार लिए गए। प्रोजेक ह तहत बच्चों व अभिभावकों को पैदल यात्रा के बारे में विस्तार मे जानकारी दी गई। और चाणी किसान २१ चलाई

को बेहतर तरीके से क्रियांचित करने में उनके। उच्च्यआरआई इंडिया से इंडीवेडेंड डासपोर्ट पेड नेशांत भटनगर ने बताया के राउला अनुभव का लाभ मेलेगा। व्यायुक्त और एलगी के रोड सेंफ्टी हंड सारेका पांडा. अडत जानी वैभव गावलोरकी उलोबल रोड संपत्नी गार्टनरीरेग जिनेवां संभी बैठक में संयुक्त आयुक्त र केश कुमार, कुश और अधित लंगवान मौतद रहे



बच्चों के सफर को सुरक्षित बनाने के लिए कार्यशाला आज चाइल्ड रोड सेफ्टी प्रोजेक्ट के तहत रोहतक के सात स्कूलों का चयन

अमर उजाला ब्युरो

रोहतक। हरियाणा सरकार की ओर से रोहतक में एक किए गए ग्रीजेक्ट बॉटनार लेकर कायट फॉर चरूडन के तहत शुक्रवार को एक कार्यशाला का आयोजन किया जा रहा है। जिसमें स्विमजर भए ग्लोबल रोड सेपटी पार्टनरशिप की ओर रडल पावलोस्को हिम्सा लेंगे। इस सदर्भ में वोरवार को डक्टर आरआई इंडिया के साथ हो उपयुवन डा. डीसी कार्यालय में पलिस व अन्य अधिकारियों के साथ बैठक करते डीसी डा. यश गर्ग दल गर्ग और उसपी जलपटीम सिंह रंधावा को बैठक में प्रोजेक्ट के तहत मॉडल, सैने सेठफ हई

कमार व वर्ल्ड रिमोंसेज इंस्टीट्यूट डॉंड्या के अधिकारियों के सहयोग से इन शहरों के समेत सात रकलों का चयन किया गया। संस्थ की पदाधिकारी सारिका पंडा ने बताया कि राज्ल्यआइं इंडिया की ओर से रिचर्स अध्यापकों को ट्रैफिक नियमों के प्रति अगले हफ्ते से प्रोजेक्ट पर कार्य करना शुरू केसल्टेंट जागरूक करेगा। वहीं, रोड सेफ्टी के लिए कर दिया जाएगा। बच्चों को सडक हाटसों बचाना ही प्रोजेक्ट का मुख्य उद्देश्य है।

UTTOJ ल्यार को আক্রজির এমরা

निमाण















Objective 1: To reduce crash risk of 5 school districts in Rohtak by the end of two years









Activity 1.1.1 - Selection of School Districts

Selection Parameters:



- Type of School (Private / Govt. / Aided/ KV / Navodaya / Other)
- Total Enrollment
- Students below Grade 5
- Students residing within 1 km of school
- Willingness of the schools and their past initiatives around road safety
- Proximity to existing blackspots identified by Police / HVZ
- Proximity of school to Railway fine OSS CENTER





Activity 1.1.1 - Selection of School Districts





7738

Total direct beneficiaries

















Activity 1.1.2 – Focus Group Discussions

School Profiling

Model S	School	SRS School			Saini School		
 Private Scl Students g from 'well families 	hool generally -off'	 Private School Students from middle-class families 			 Aided School Students from poor families. 		
45 minutes per session			3 - 4 Sessions a day			9 Sessions over 3 days	







Activity 1.1.2 – Focus Group Discussions

Participant Profiling







1 Boy + 1 Girl each from:





Activity 1.1.2 – Focus Group Discussions

Conduct of the Sessions:

- Ice breaking session
- Consent Forms

city?

- Interactive session
- How far do you live from School?
- How do you travel to school?
- What are the challenges you face when you travel in the















Activity 1.1.2 – Focus Group Discussions

Analysis

Students	Parents	Teachers					
Perception	Attitude	Behaviour	Lifestyle	Safety	Infrastructure	Education	Enforcement
Fear of other road users	2-Wheelers encroach walking space for driving & parking	Wrong side driving	Fast paced life	Look left-right-left before crossing	Railway Crossing	Awareness programs required	Overcrowding of autorickshaws
Contraction for	No regard for rules by	Rash driving by 2-wheelers	Limitation on how much to	Anti-social elements on	Need for foothpath & cycle	Need to orient children to	Poor enforcement by traffic

Key Messages Identified:

There is a fear of travelling on roads, especially among children.

It is a general belief that the Traffic Police is responsible for ensuring road safety.

Motor Vehicle drivers in general have poor driving skills and lack road etiquettes.

Infrastructure for walking and cycling is required

Under-age driving is prevalent

Never sate on roads because of others	No respect for other road users by MVs	Driver taking children to school	GPS installed in school buses	Need for foothpath & cycle track	Need to educate children in Road safety	enforcement around schools
Traffic police to fix problem	Hit & Run	Children drive on roads		Need for foothpath	Awareness programs required	CCTV / Surveillance required
Never safe on roads because of others	No respect for pedestrians & cyclists	Poor behaviour by other road users		Railway Crossing	Students need to be taught traffic rules	CCTV / Surveillance required
	Vehicles & vendors	Road rage and unruly		Inadequate & confusing		









Transport data collection & analysis



Assess mobility pattern & risk profile for school children

Strategy 1.2



Survey of all students of the 5 selected schools

City-wide crash data collection for overlay on identified high risk areas



Road safety inspection of high risk areas defined in focus group





discussions



Activity 1.2.1 – Transport Data Collection & Analysis

- Mobility Plan / Master Plan
- Vehicle registration data
- Land-use and Road Network

Challenges

 Primary data surveys in Mobility plans conducted in 2008 – no new surveys conducted till date

Activity <u>1.2.5</u> wide crash data collection parks, etc. for overlay on identified high risk

areas

- Crash + Fatality Data
 - From Police
 - From HVZ
- Injury Reporting from Schools
- a Challenges
 - Biggest challenge has been
 unavailability of child-specific data –
 Age not mentioned in FIRs
 - Injury Reporting made mandatory in selected 5

schools – formats shared but not maintair

Activity 1.2.2 – Survey of all students of the 5 selected scl **Route Mapping**











Activity 1.2.2 – Survey of all students of the 5 selected scl

Mobility Mapping

- Home /Tuition Zones
 - Grouping colonies on the basis of distance from school
- Mode of Travel to/from School
 - Based on responses received in FGDs, Techniques 1 & 2 and observation
- Destination after school
- Underage Driving

How many of you come to school on single/shared autorickshaw / E-rickshaw?

How many of you come to school on a scooter/bike by yourself?

How many of you are dropped to school on a scooter/motorcycle by your parents?

8	16	24	32	40	48	56	<mark>6</mark> 4	
7	15	23	31	39	47	55	<mark>63</mark>	
6	14	22	30	38	46	54	<mark>62</mark>	
5	13	21	29	37	45	53	61	
4	12	20	28	36	44	52	60	
3	11	19	27	35	43	51	59	
2	10	18	26	34	42	50	58	
1	9	17	25	33	41	49	57	







Activity 1.2.2 – Survey of all students of the 5 selected scl















ANALYSIS

Concentration of Home Zones for students living within 2 kms of their respective so











45%

students said they drive / ride vehicles

75% students said they know how to drive / ride **76%**

Students travel within 2 kms of their school

21% Students use a different mode of travel after school







Improve road infrastructure & traffic management to mitigate crash risk

Strategy 1.3

Selection of priority locations **Preparation of** preliminary designs Installation of soft infrastructure

Detailed survey of identified locations



Trial of preliminary designs



Permanent

execution



Analysis of Impact







Activity 1.3.1 – Selection of Priority Locations



WRI INDIA — ROSS CENTER





Activity 1.3.2 – Detailed Survey of Identified Locations

Total station survey, traffic and pedestrian volume counts, speed survey,













Activity 1.3.2 – Detailed Survey of Identified Locations















Activity 1.3.3 – Preparation of Preliminary Designs

















Activity 1.3.3 – Preparation of Preliminary Designs



1st Priority Location Identified – 150m from MDN School









Activity 1.3.6 – Preparation of final designs & traffic management solutions

Design Interventions



Low-height vertical separators between motorized and non-motorized users. (Railings, hedges, etc.)



Painting signages, and other information on road surface for easy viewing by children

Lower kerb heights









Activity 1.3.6 – Preparation of final designs & traffic management solutions Traffic Management & Zonal Interventions



500m before/after school boundary

• 20 km/hr speed limit



Assisted pedestrian crossing



Different pick and drop timings for older and younger students









CHALLENGES

- Government
 - Officials getting transferred
 - Priorities
 - Lack of resources
 - barricades
- Schools
 - Overburdened students & teachers
 - Staff / Resource crunches
 - Understanding of younger students

- Data
 - Child-specific data
 - Fatalities
 - Injuries
 - Incidents involving children
 - Commute pattern
 - Challenges faced







QUESTIONS