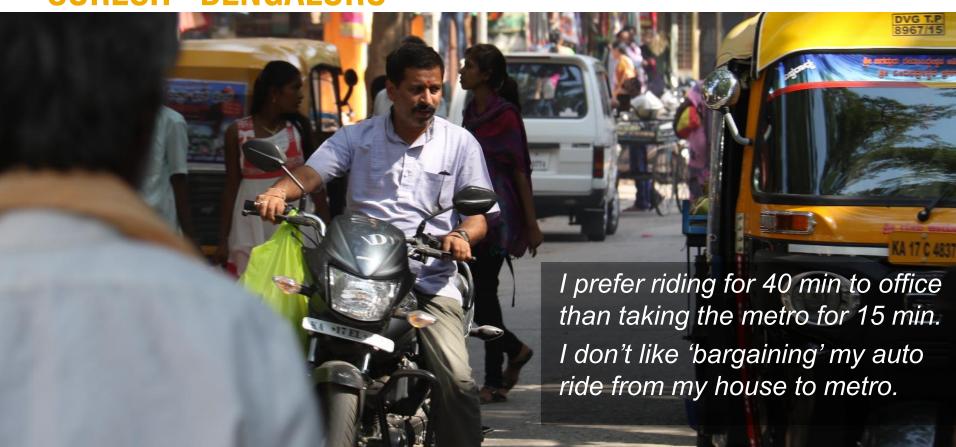


SURESH - BENGALURU





LEELA BEN - AHMEDABAD





BABU LAAL - DELHI



WHAT ARE WE MISSING?



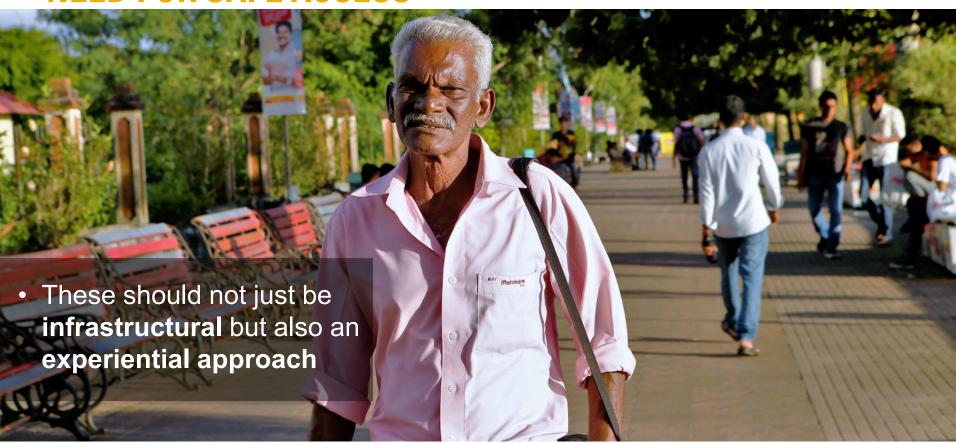
NEED FOR SAFE ACCESS

- Cities are investing millions of dollars in creating mass transit
- Often unable to achieve their full potential due the poor first and last mile connectivity leading to unsafe access to transit systems.
- This has led to the inefficient use of transit systems and unsafe conditions in station areas

 Hence a safer and seamless access needs to be provided in cities to discourage private transport and encourage public transport.



NEED FOR SAFE ACCESS





SAFE ACCESS TO MASS TRANSIT



FLOW OF PRESENTATION

1. PART 1 - TOD recap

- What is Transit Oriented Development
- A livable station area
- Main streaming TOD
- SAM as public engagement tool

2. PART 2 - Safe Access to Mass Transit

- What is safe access
- Principles of Safe Access
- Need for tool

3. PART 3 – A reality check

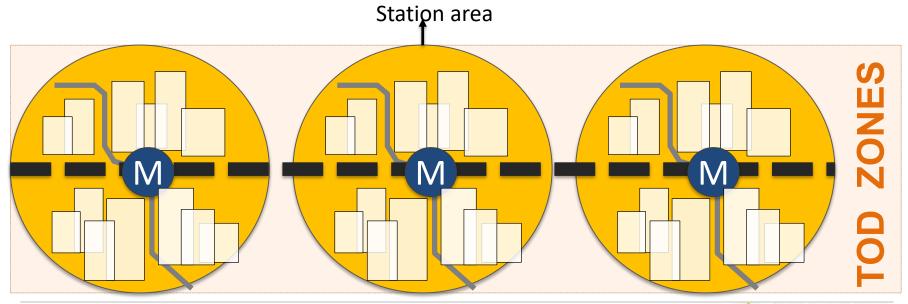
- Applications
- Implications

4. Conclusion



TRANSIT ORIENTED DEVELOPMENT

Transit Oriented Development, involves creating concentrated nodes of moderate-to-high density developments supporting a balanced mix of land uses around transit stations.





OUR APPROACH TO TOD





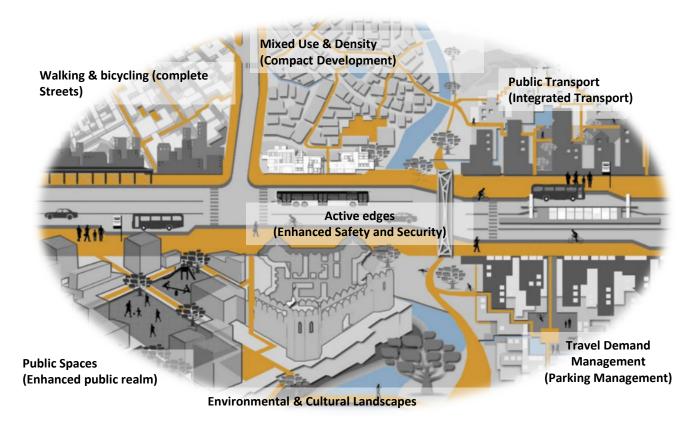
REGULATORY FRAMEWORKS







DESIGN INTERVENTIONS



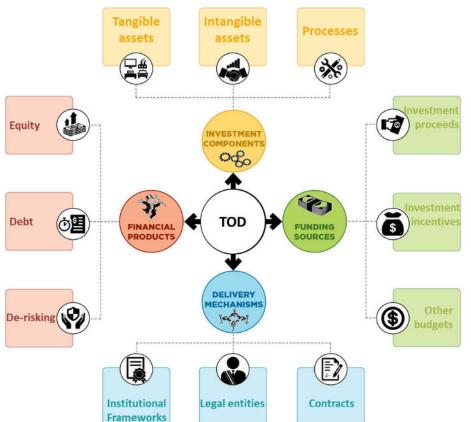


DEMONSTRATION PROJECTS





FINANCING











CAPACITY BUILDING











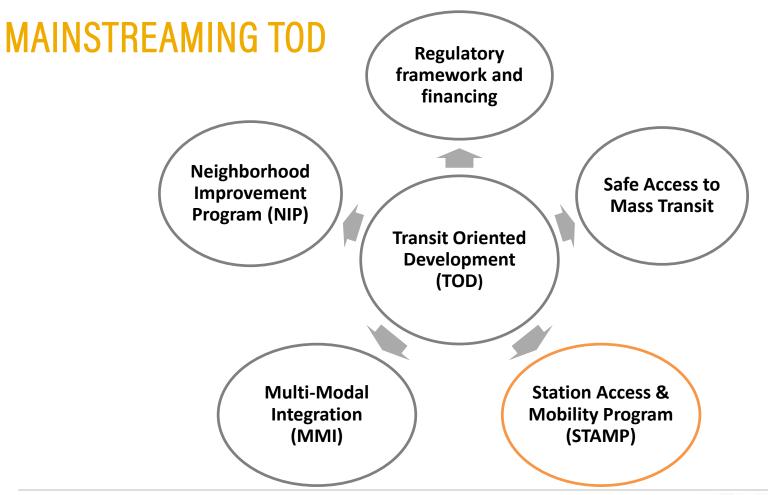


DESIGN

REGULATORY FRAMWORK

FINANCE







SAM AS A PUBLIC ENGAGEMENT TOOL

- There is a need to make TOD as an inclusive process
- Need for a 'people centric approach'
- Hence a participative public consultation process becomes very critical





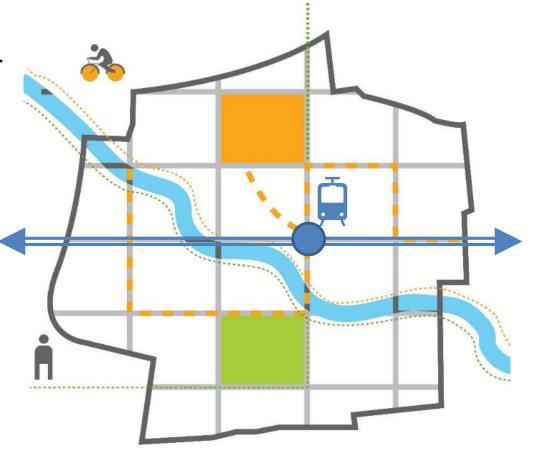
SAFE ACCESS TO MASS TRANSIT



WHAT IS SAFE ACCESS

 Creating safe conditions for pedestrians and cyclists

 Prioritize walkability in station areas





A STATION AREA





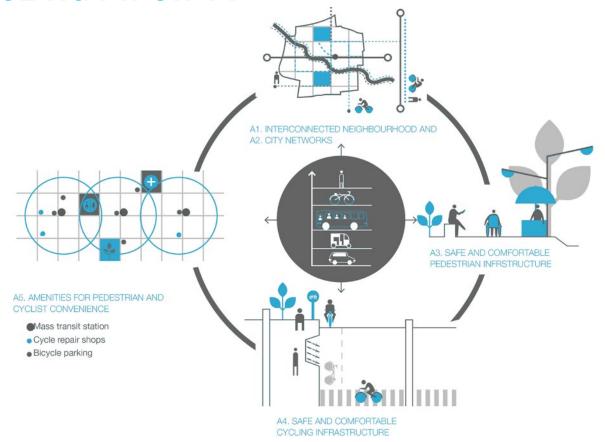
PRINCIPLES OF SAFE ACCESS **Enhanced Public Realm** Seamless Integration with Feeder Network Routes & Infrastructure A PEOPLE CENTRIC **APPROACH** Pedestrian and Cycling Priority Parking Management **Enhanced Safety and**



Security

PEDESTRIAN & CYCLING PRIORITY

- Interconnected neighbourhoods & city networks
- Safe and comfortable pedestrian & cycling infrastructure and services





ENHANCED PUBLIC REALM

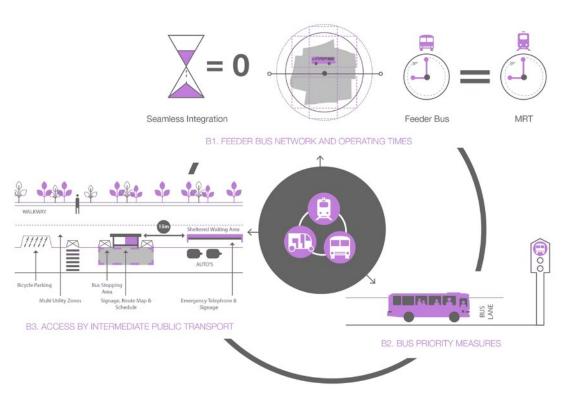
- Imageable public area
- Streets as public spaces
- Signages





FEEDER INTEGRATION

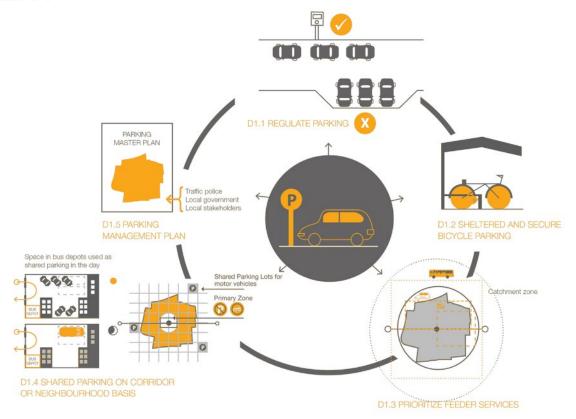
- Access to IPT
- Seamless integration of various modes including information systems
- Bus priority measures





PARKING MANAGEMENT

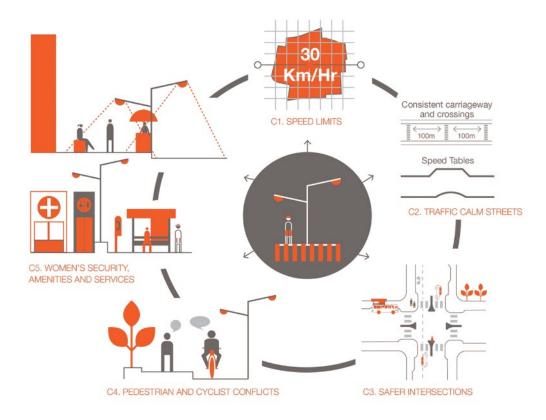
- Regulate parking
- PBS
- Prioritize feeder bus services
- Shared Parking
- Parking Management
 Plan





ENHANCED SAFETY AND SECURITY

- Road Geometrics
- Traffic calming, pedestrian &
 NMT movements
- Safe streets and amenities





WHAT IS SAFE ACCESS WORKSHOP

 A platform to ideate and co-create last-mile connectivity solutions around mass transit stations.

 Aim - To educate the participants regarding the need for safe access to the mass transit systems like BRT and Metro and to Derive actionable strategies



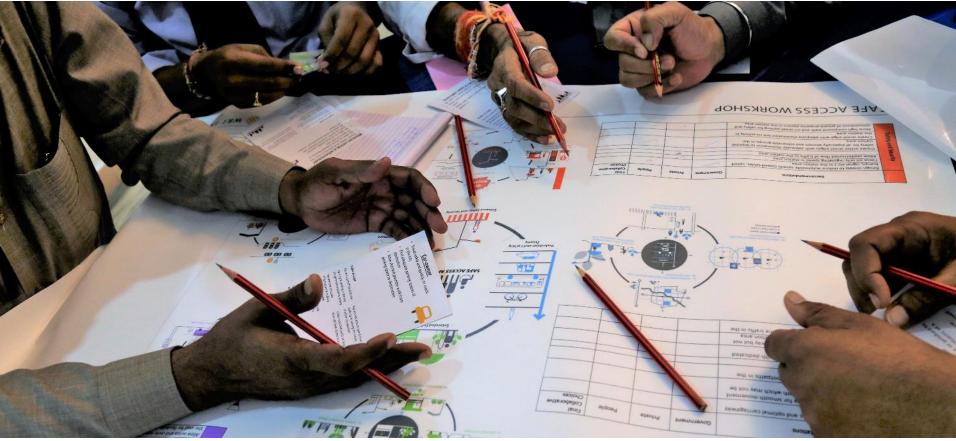
OBJECTIVES

- Inculcate awareness about the importance of safe and equitable access;
- **Derive implementable solutions**, while negotiating the complexities involved in their adoption;
- Prioritizing through community inputs to help voice people's opinions;



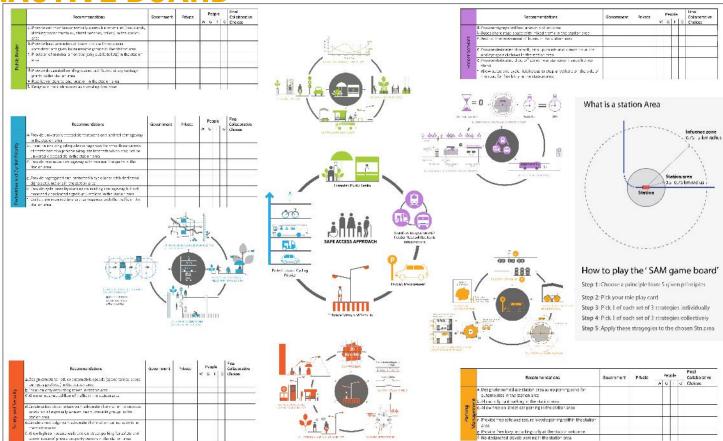


THE INTERACTIVE EXERCISE





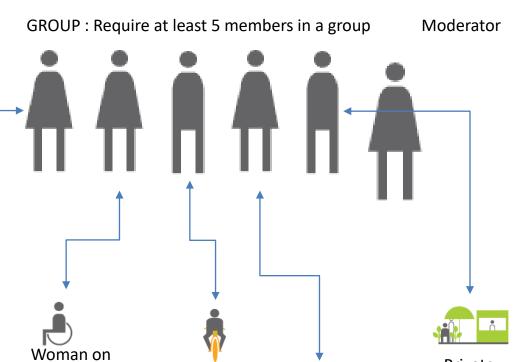
INTERACTIVE BOARD







ROLE PLAY





Car owner



Teenager

on cycle

wheelchair 2

Grandfathe

Govt.

Authority



ROLE PLAY CARDS

Government Authority

- You are a government authority like the urban development body, Municipal Corporation or traffic police.
- Your charge is to provide services and infrastructure in the city which are usable and accessible to all citizens
- You engage with the public at large to understand the needs and requirements of the people
- You engage with private businesses to negotiate benefits for the city and its citizens
- You must balance the demands of smaller yet powerful groups with the needs of the majority of users



Woman using a wheelchair

- · Travel safely and quickly in the city
- Be able to move independently in all parts of the city



- Be able to access public spaces such as parks, transit stations etc.
- Be able to avail economical modes of travel

Public at Large

You are a part of the citizenry

By living & working in the city you generate economic activity

You demand adequate infrastructure & mobility options for your needs

You demand clean air & a safe environment to live a healthy and prosperous life

Day to day activities take up your time & you can only focus on your needs

You are not able to spend time studying or solving the needs of other city dwellers

Unless specified public at large does not have access to a car





THE INTERACTIVE BOARD

	Recommendations	Government	Private	People				Final Collaborative
				W	G	Т	С	Choices
	 a. Provide and maintain universally accessible amenities (bus stands, drinking water fountains, street benches, toilets) in the station area 							
Realm	b. Provide basic amenities at lower costs with no special considerations given to vulnerable groups in the station area							
Public Re	c. Provision of minimal amenities (only public toilets) in the station							
Pu	d. Provide designated vending spaces distributed at key vantage points in the station area							
	e.Restrict vendors to one location in the station area							
	f. Designate the station area as a vending free zone							

- A strategy is designated for the table
- There are two sub-items per strategy



THE INTERACTIVE BOARD

	Recommendations	Government	Private	People				Final Collaborative
				W	G	Т	С	Choices
	 a. Provide and maintain universally accessible amenities (bus stands, drinking water fountains, street benches, toilets) in the station area 	•		•				
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Public	d. Provide designated vending spaces distributed at key vantage points in the station area	•	•		•			
	e.Restrict vendors to one location in the station area			•				
	f. Designate the station area as a vending free zone					•	0	

Step 1

Choose 2 of 6 strategies 'individually' based on your role

- 1st from Option a,b,c and
- 2nd from option d,e,f



THE INTERACTIVE BOARD

	Recommendations	Government	Private	People				Final Collaborative
				W	G	Т	С	Choices
ılic Realm	 a. Provide and maintain universally accessible amenities (bus stands, drinking water fountains, street benches, toilets) in the station area 	•		•				•
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	e.Restrict vendors to one location in the station area			•				
	f. Designate the station area as a vending free zone					0	0	

Step 2

Choose 2 of 6 strategies 'collectively' based on common consensus

- 1st from Option a,b,c and
- 2nd from option d,e,f



SAM APPLICATIONS AND IMPLICATIONS





SAM ACROSS VARIOUS PLATFORMS



10+
WORKSHOPS IN INDIA

2 INTERNATIONAL WORKSHOPS - AFRICA & TAIWAN



ENGAGEMENT WITH PEOPLE ON GROUND - KOCHI

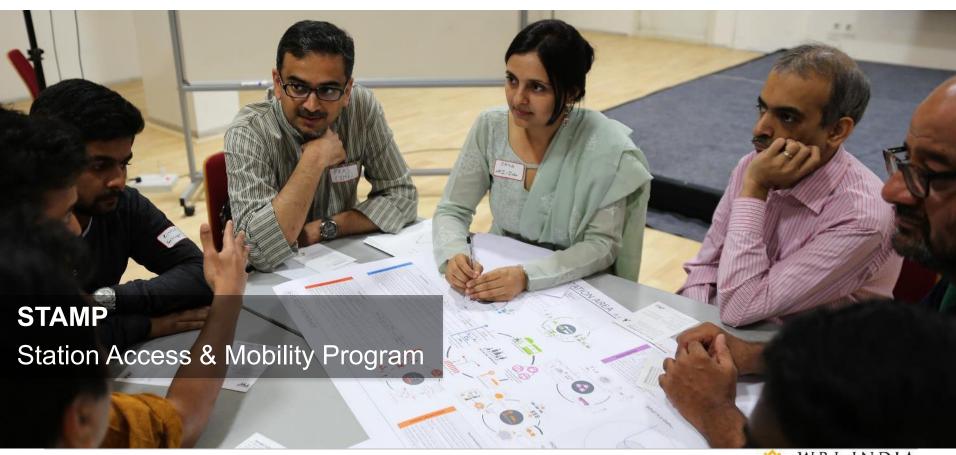


INFORMING POLICIES





ENTREPREUNEUR ENGAGEMENT



ENTREPREUNEUR & CITIZEN ENGAGEMENT





SMART CITY ENGAGEMENTS - DAVANAGERE





BUILDING CAPACITIES





MASTER CLASS







TRAINING THE EXPERTS





SUMMARY

PART 1 - TOD recap

- What is TOD
- Main streaming TOD

PART 2 - Safe Access to Mass Transit

- What is safe access
- Principles of Safe Access
- Need for tool

PART 3 – A reality check

- Applications
- Implications



IN CONCLUSION

Can we start relooking into the idea of Mass transit not as individual infrastructure components but as livable spines of the city?

Can we look at safe access around mass transit as a 'people oriented and a collaborative approach?



SAFE ACCESS TOOLKIT





THANK YOU

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