

# BANGKOK, THAILAND

Promote Safe and Active Mobility

# Partnership for Healthy Cities

Before



Mahannop Intersection, Bamrung Muang neighborhood, before intervention.

After

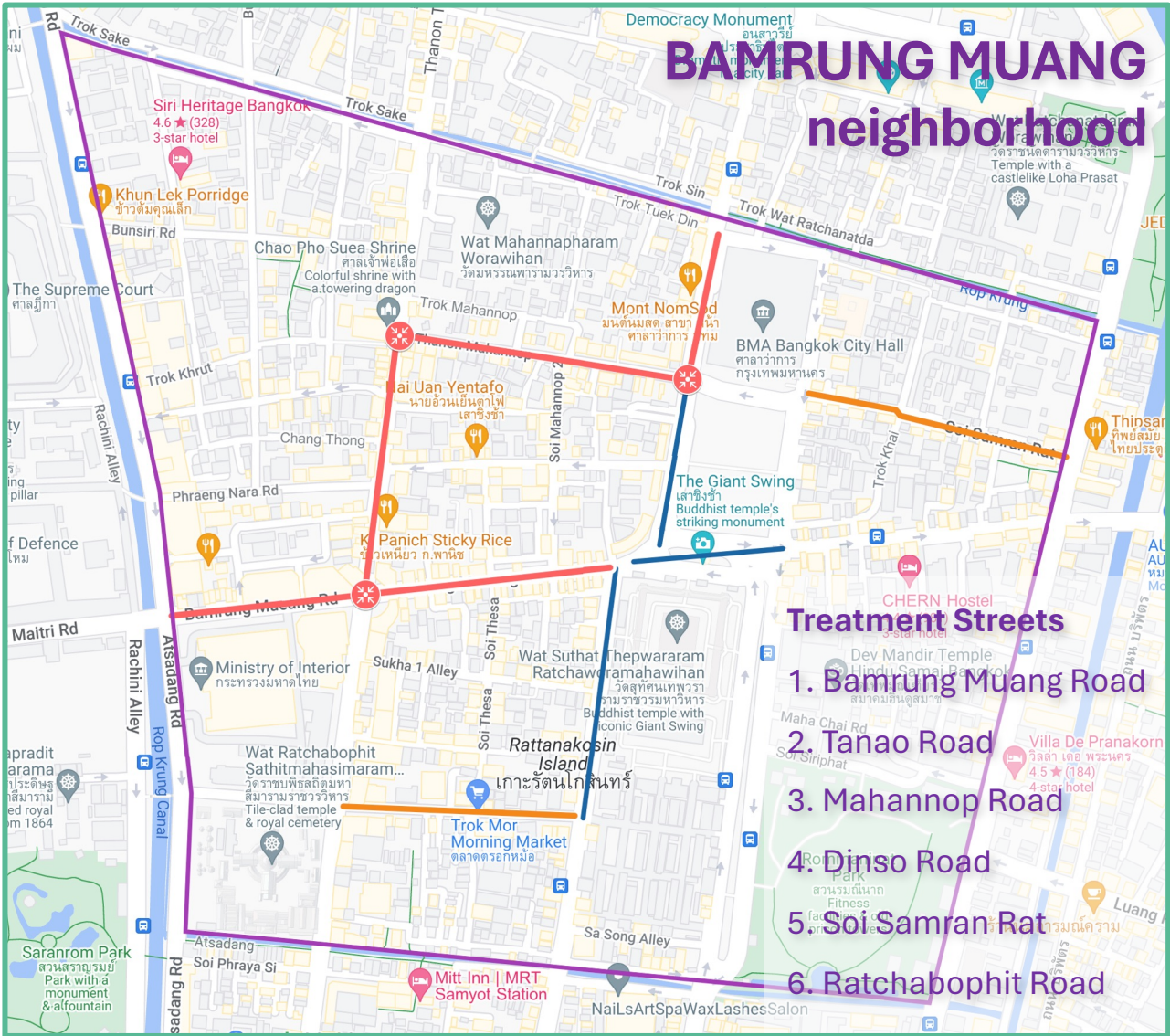


Mahannop Intersection, Bamrung Muang neighborhood, after intervention.



# Partnership for Healthy Cities

“To promote safe and active mobility, not only changes in **people behavior**, but the **physical environment** also needs to be changed to **advocate active behavior**.”



# COLLABORATION

## Partnership for Healthy Cities

Emphasized on the collaboration between 3 sectors:

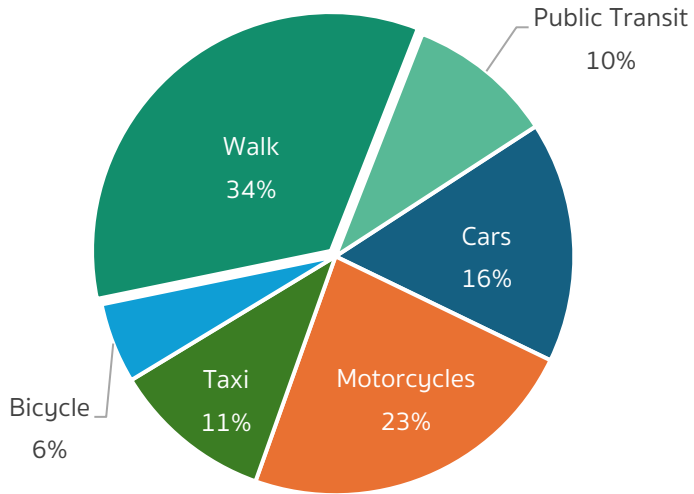
- City (BMA)
- Local Communities
- Academic (Urban Ally, Silpakorn University)



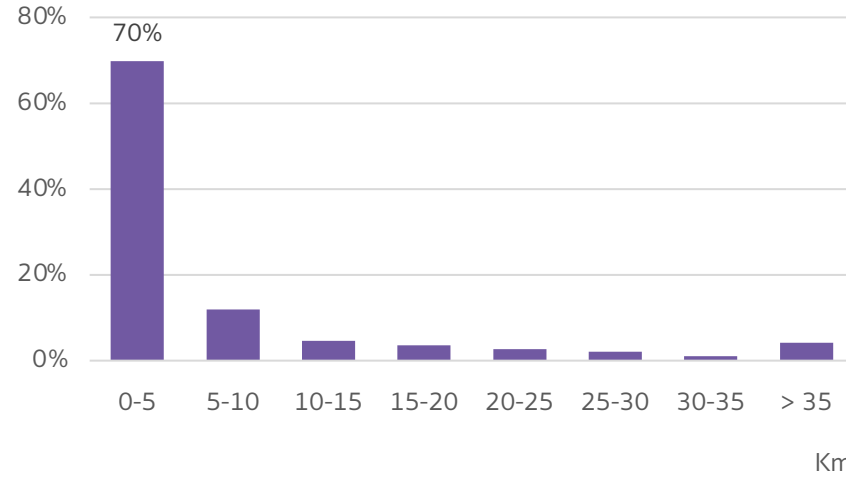
# BEHAVIOR SURVEY

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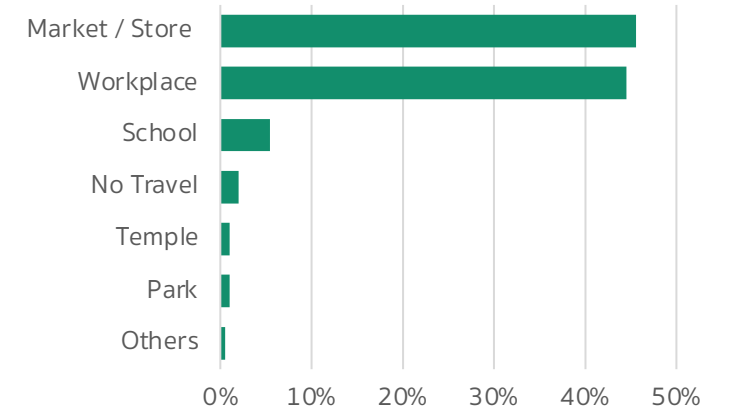
Mode of Transportation



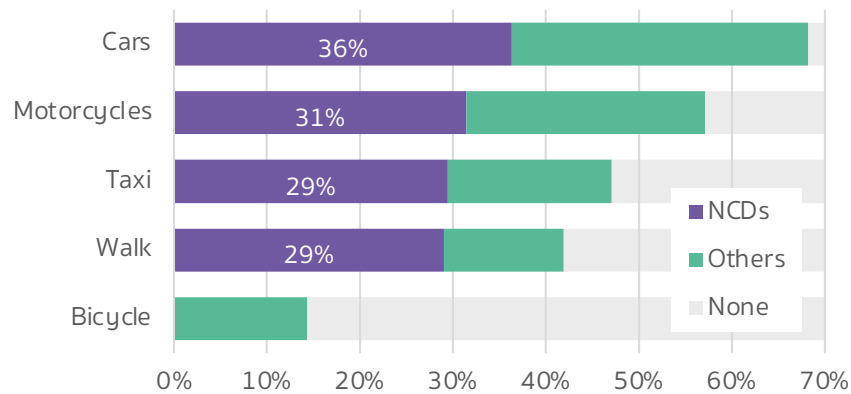
Daily Commute Distance (km)



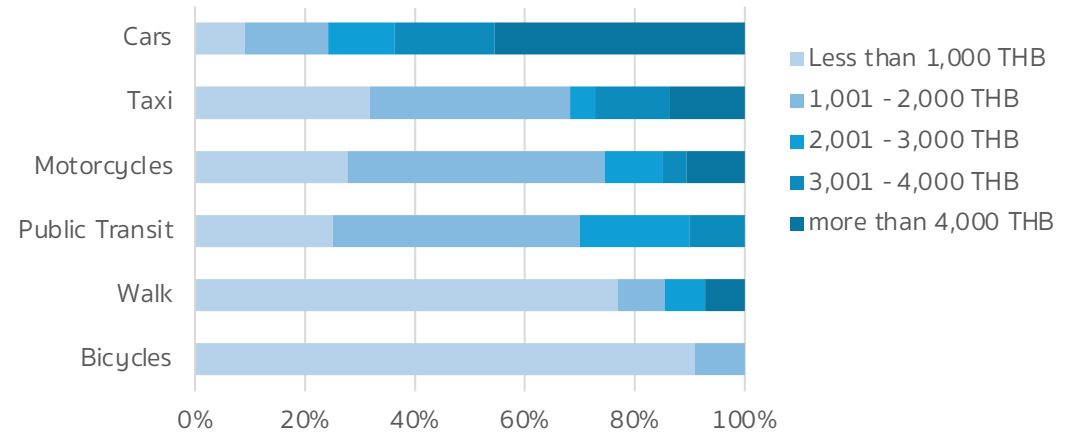
Point of Destination



Known diseases vs Mode of Transportation (Age between 20 – 45)



Monthly Travel Expenses



# PROBLEMS

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No  
space  
to  
walk  
Street  
is not  
safe



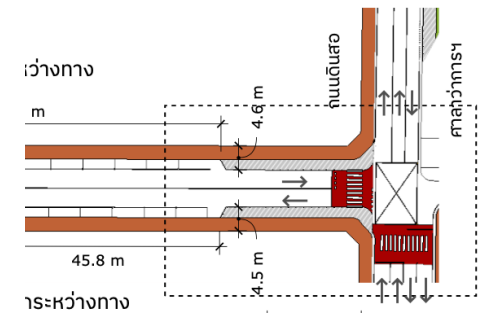
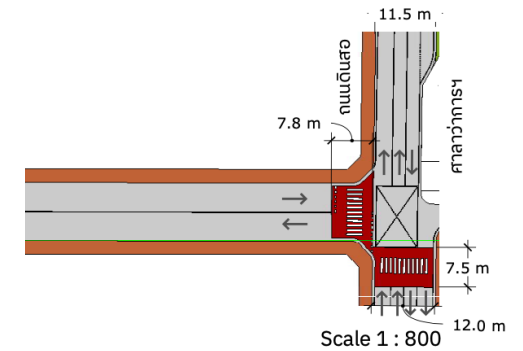
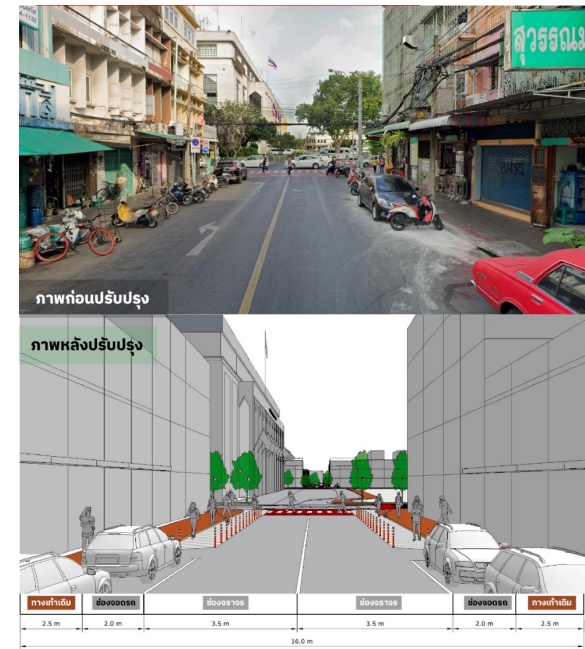
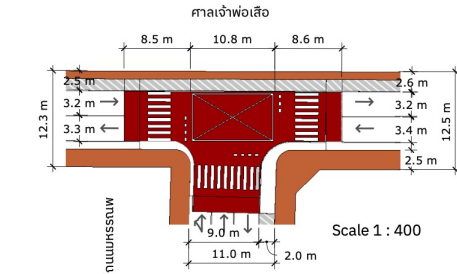
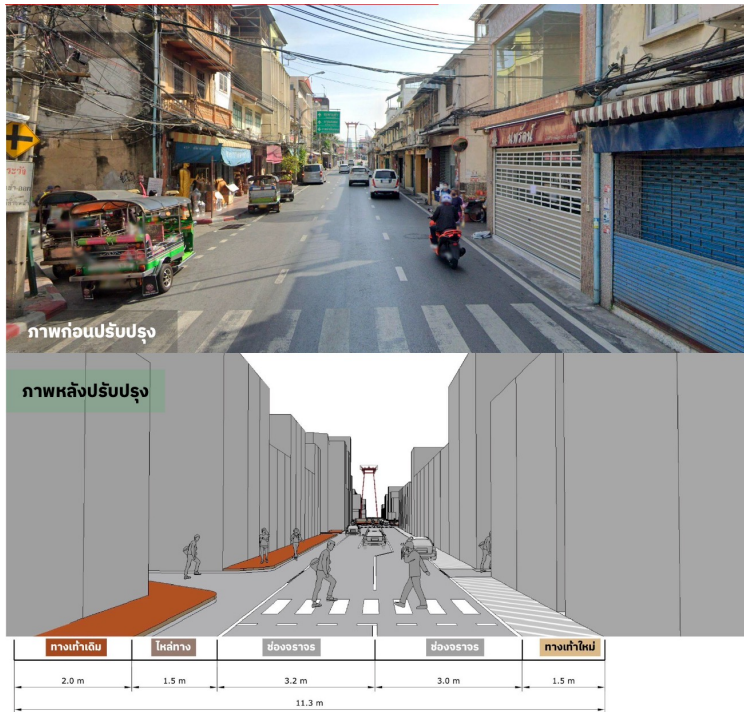
# TREATMENT DESIGN

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1. Find space for pedestrians to walk.
2. Make the streets safer.

3. Quick, easy, and cheap to implement.

Restriping, road marking, Planters and pots, Plastic Bollards.



# IMPLEMENTATION

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Before



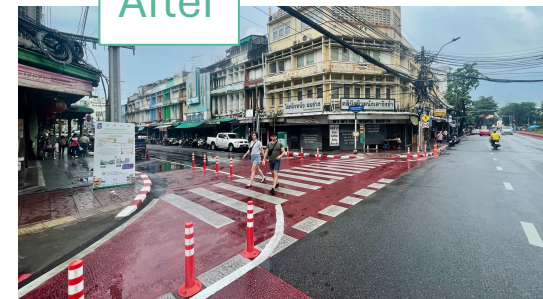
After



Before

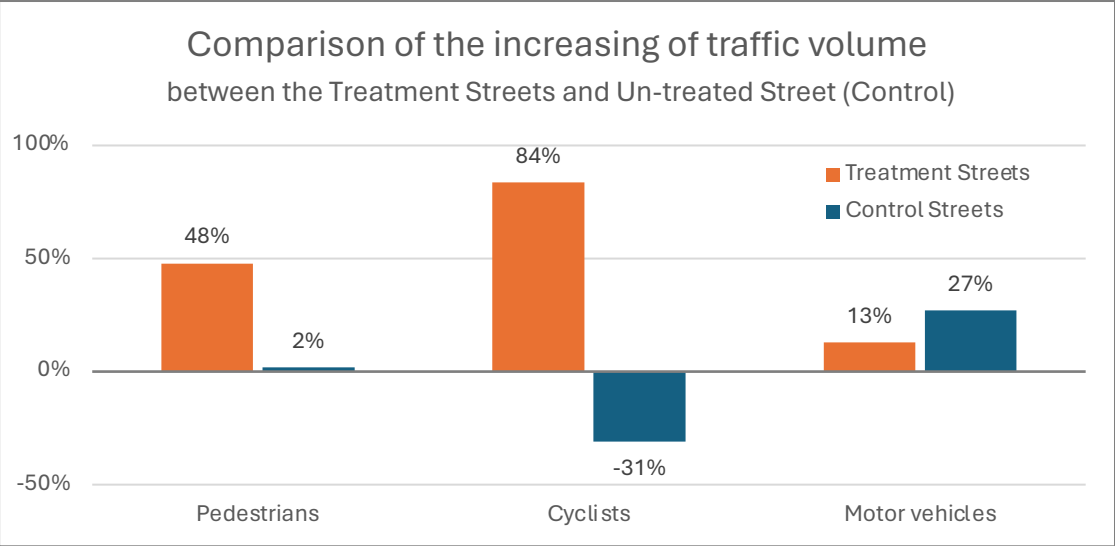


After

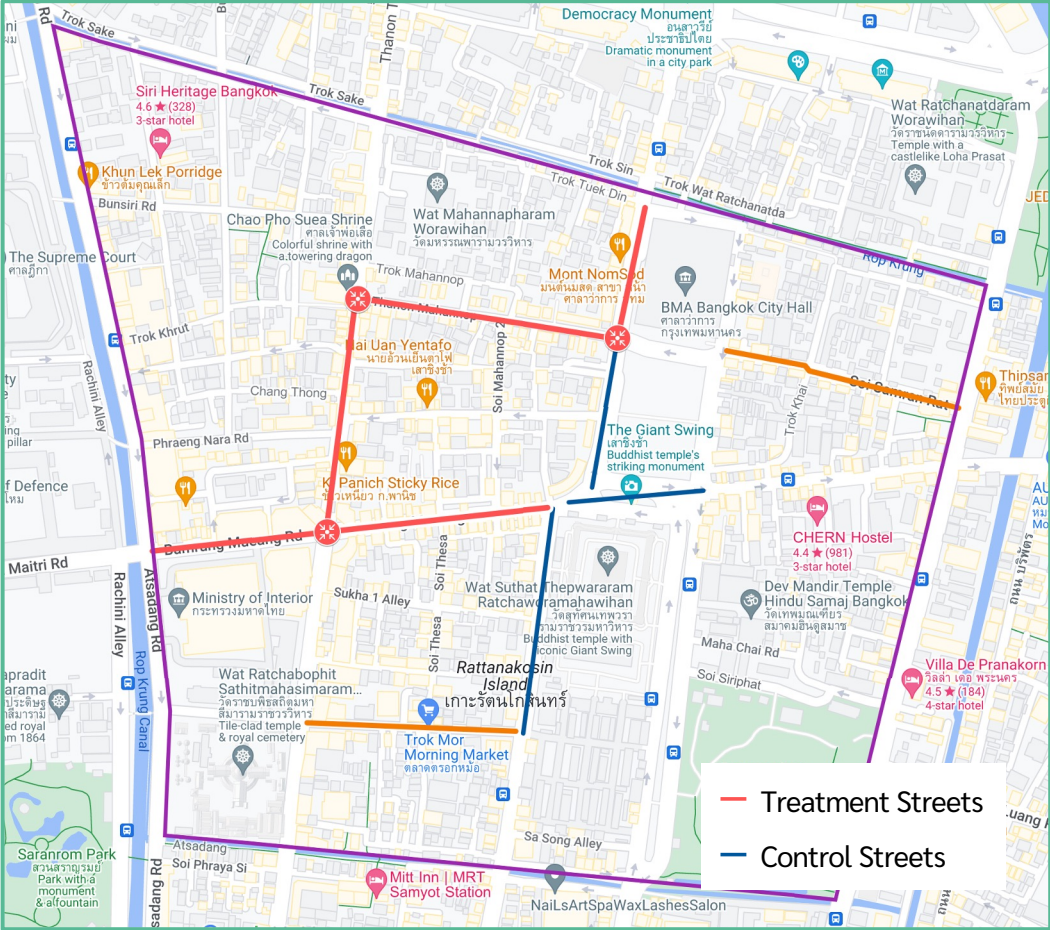


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# RESULTS



- The result indicates a significant increasing average of **1,005** pedestrians more on Treatment streets than the Control Streets ( $p = .011$ ).
- Increasing of **126** cyclists more on Treatment streets ( $p < .001$ ).
- And **2,938** motor vehicles fewer then on the Control Streets ( $p < .001$ ).

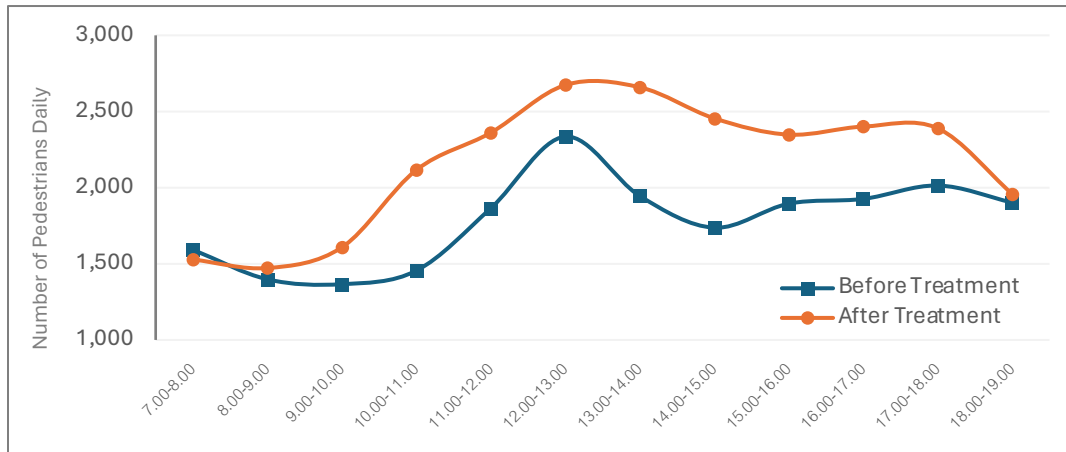




# IMPACT

# Partnership for Healthy Cities

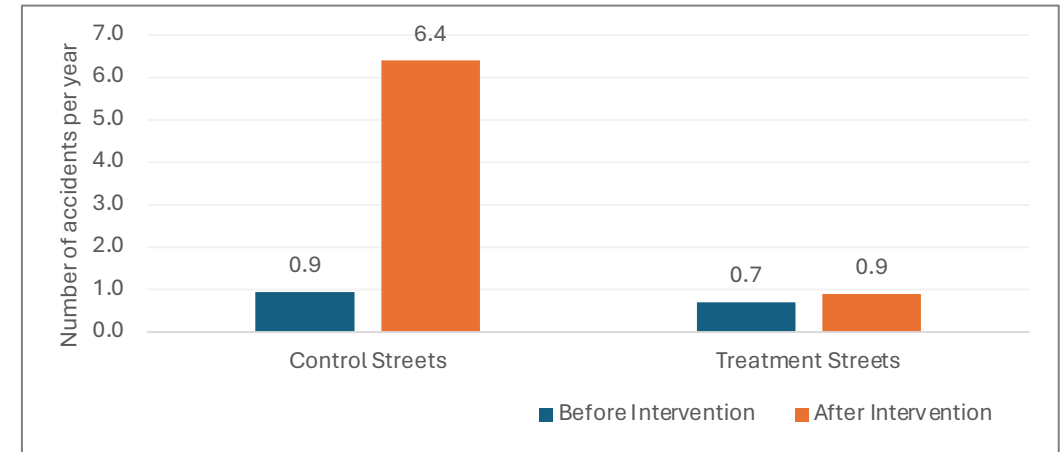
## IMPROVE LOCAL ECONOMY



After the intervention, not only the number of pedestrians had increased but also sustained throughout the day until evening hour.

More pedestrians mean more foot traffic, and more foot traffic mean more potential customers.

## INCREASE ROAD SAFETY



With increasing number of motor vehicles, the intervention could have reduced the accident rate by 86%.

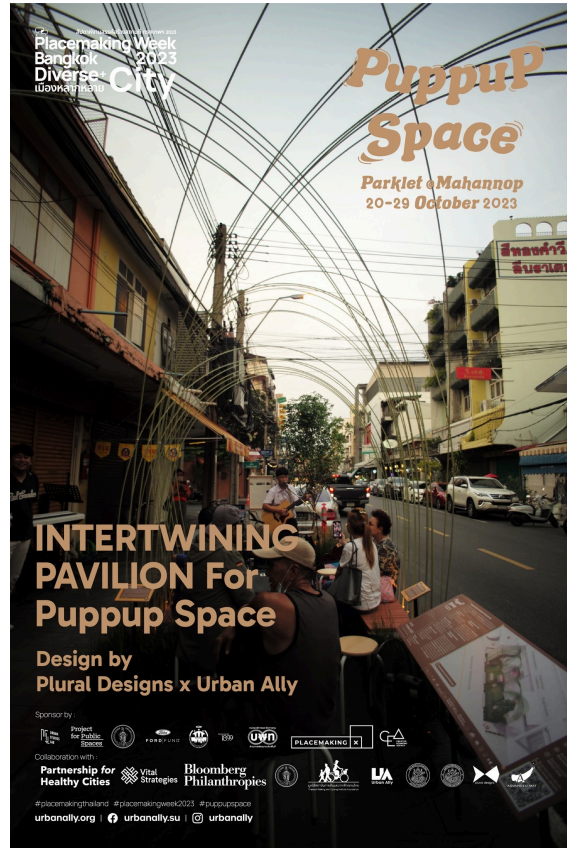
The Lower the number of road accidents means lower the number of road fatality.



# IMPACT

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## MAKE USE OF THE PUBLIC SPACE



“Puppup Space” the popup parklet showcase by Urban Ally, Silpakorn University.

The exhibition had shown that the public space could be used more efficiently for the on-going pedestrians could take a rest and mingle than just parking 2-3 cars.



## KEY TAKEAWAYS

1. Changes in the physicality of streets **DO** result in the changes in people travel behavior.
2. If you plan for the most vulnerable road users, everyone wins.
3. Cohesion of the network, especially at the junctions, is as important as its available and safe pathway.
4. Strong correlation between:
  - Number of pedestrians and the traffic speed.
  - Number of cyclists and number of vehicles per lane.