

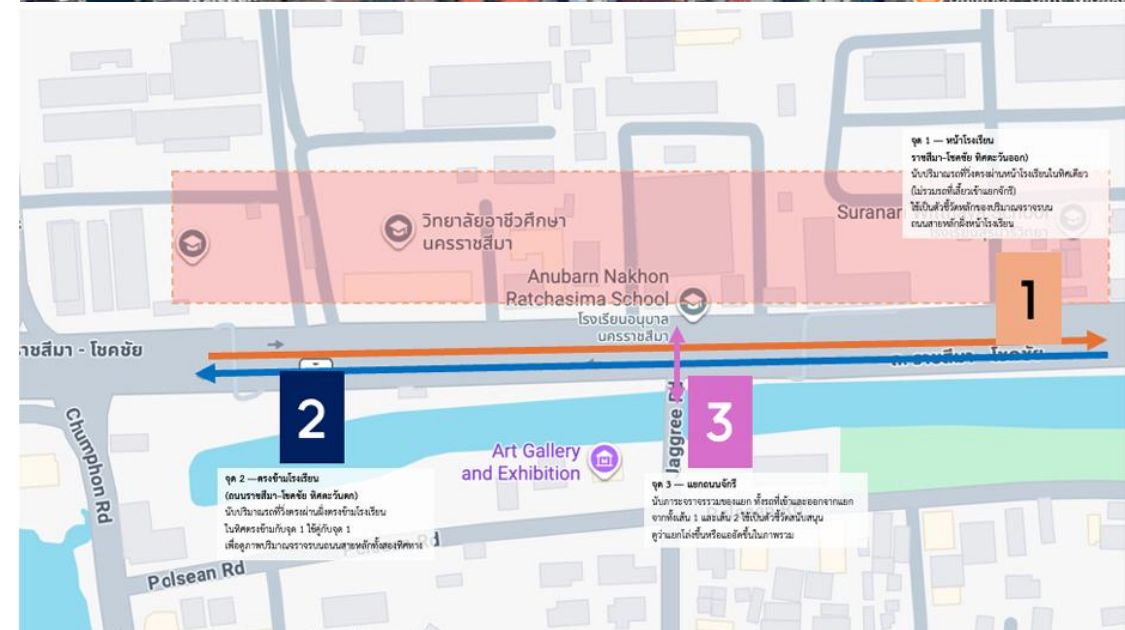
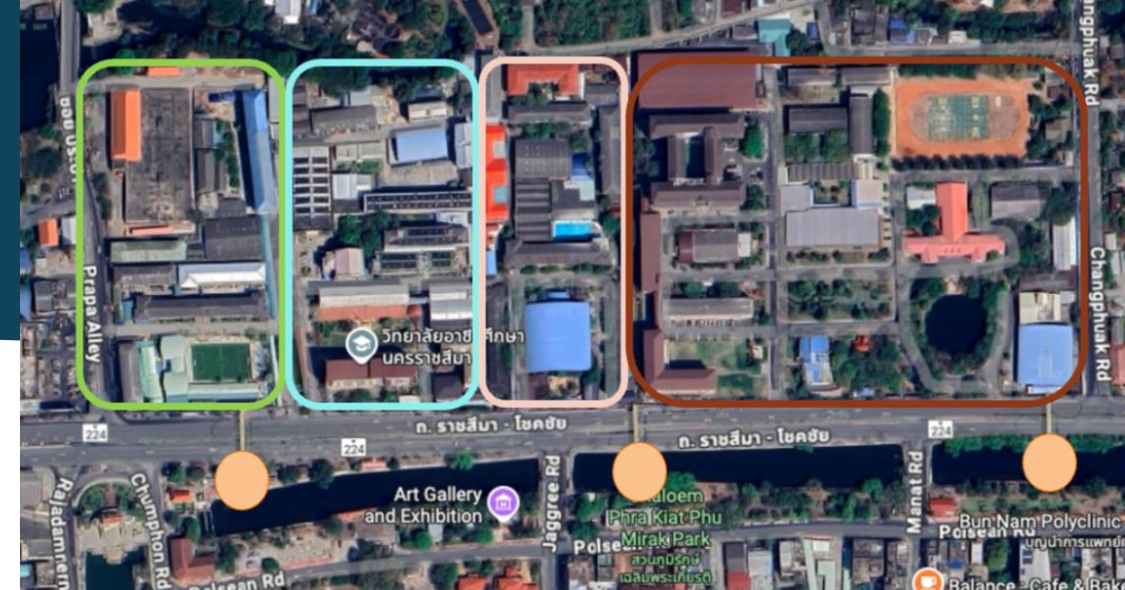
What were the challenge we encountered?

Traffic Congestion around School area cannot be fixed

One of the key urban mobility challenges in Nakhon Ratchasima is traffic congestion along Nakhon Ratchasima–Chokchai Road, where four educational institutions are located close to one another. Nearly 13,000 students travel to schools in this area every day, resulting in significant traffic congestion during the morning drop-off and afternoon pick-up periods.

To address the congestion, the province has already invested in major infrastructure projects, including the construction of underpasses at key intersections around the area. These improvements have helped traffic flow more efficiently by allowing through-traffic that does not need to access the schools to bypass the congested intersections.

However, the infrastructure has not fully addressed the underlying issue of vehicles entering the school area to drop off and pick up students, nor has it significantly reduced the number of private vehicles used for school travel.



Rethinking the School Journey

The Story of Our City's Clean School Shuttle

Collaboration is a Key



Parking Infrastructure

Safe and convenient parking spots for park & ride service



EV Charging Infrastructure

Essential support for electric vehicle adoption



EV Student Shuttle Service



Digital Integration

Real-time GPS tracking of the Shuttle Service on ViaBus Application



Time Management and Alternative Route Planning

TGC EMC (GIZ), Government authorities, schools, shopping centres, and transport agency turned the concept into an operating service.

Our Partners



Office of Transport and Traffic Policy and Planning



Nakhon Ratchasima Provincial Office



Thai-German Cooperation on Energy, Mobility, and Climate

CENTRAL KORAT

Central Korat Department Store



The Mall Korat Department Store

TERMINAL21 KORAT

Terminal 21 Korat Department Store



Electric Vehicle Thailand Company

Clean School Shuttle Service Park & Ride



Concept Solution

"Reduce traffic through Park & Ride service for Students"



Presented to Nakhon Ratchasima Vice Governor on 11 June 2025



Meeting on Concept Solution Revision at Municipality 18 July 2025



Meeting on Concept Solution Confirmation at Municipality 11 Nov 2025



Meeting on Operation Collab Request at Provincial Office 22 December 2025



Meeting on SOP Training at Municipality 30 Jan 2026



Meeting on Operation Confirmation at Municipality 20 Feb 2026

What has been the greatest impact of your project?

Turning a clean school shuttle concept into a real, operating service

 **5,015**

Total Passenger

 **206 ppl**

Highest Passenger
Number on
25 June 22026

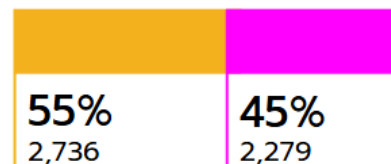
 **128 ppl/day**

Avg. Passenger per Day

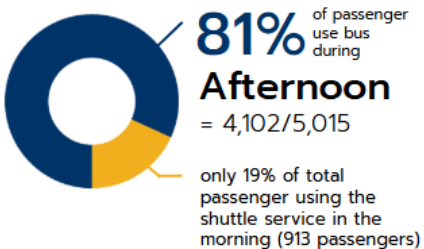
 **39 days**

No. of Service Day

Passenger Behavior



Most passenger choose to travel via Route 1 Central Korat rather than Route 2 Terminal 21 for both morning and afternoon schedule.



4.5/5 Avg. Score across all Categories.



Route Satisfaction

93%
Satisfy

- Accessibility of the route
- Suitability of pick-up and drop-off point



Opinion on Electric Bus

Key Point

Most of the user opinion guide to positive towards the electric shuttle bus service.



85%
Convenience



80%
Reduce Air Pollution



73%
Safety

REDUCE
avg. travel time
around school area
-1.23 minute

9.5%

REDUCE
traffic at Jakkri
Intersection

10%

INCREASE
avg. speed in
front of school area
+2.2 km/hr

11%

REDUCE
GHG Emission

10.5 tCO2e



71% (61% passenger car, 10% MC)
Reduce No. of Private Vehicle Usage

