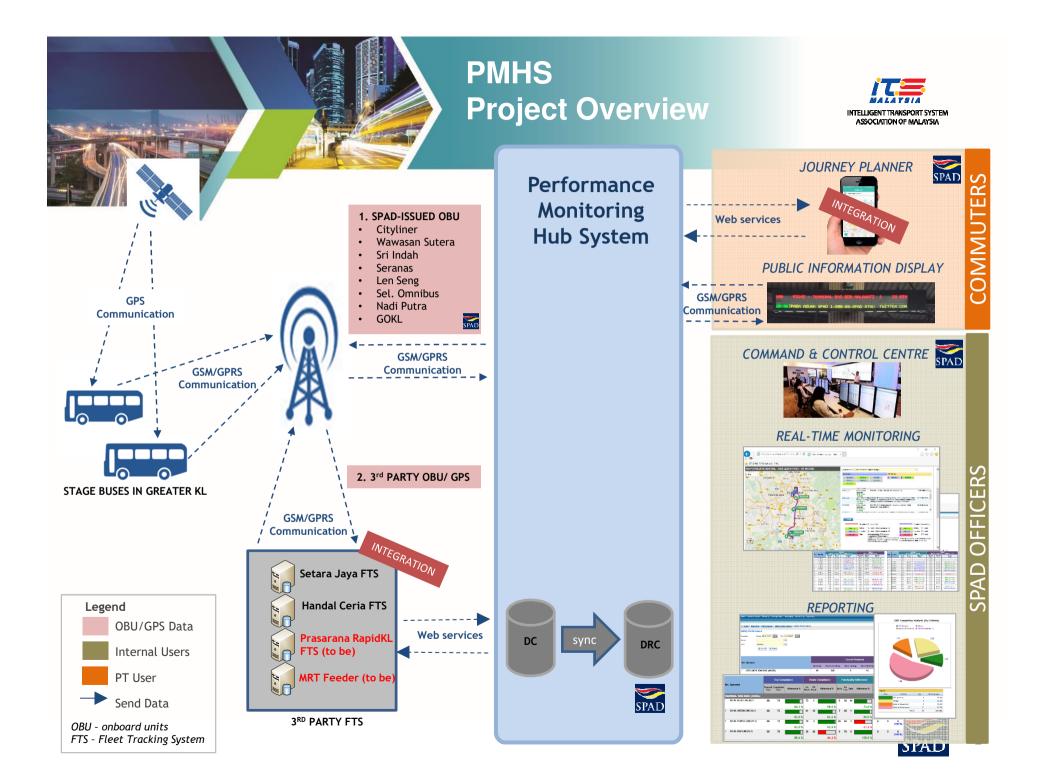


Performance Monitoring Hub System (PMHS) An Introduction



PMHS: Key performance monitoring areas

Area	Monitoring	ı Display			Requirement	Target
Trip Compliance		Time Status 06:02:37 ON TIME (0h 2m 37s) 06:03:04 ON TIME (0h 1m 36s) 06:05:06 EARLY (0h 5m 8s) 06:05:15 EARLY (0h 5m 8s) 06:15:1 EARLY (0h 5m 8s) 06:19:46 EARLY (0h 5m 14s) 06:48:28 ON TIME (0h 1m 25s) 06:39:40 EARLY (0h 5m 12s) 06:39:42 ON TIME (0h 10m 20s) 06:59:42 ON TIME (0h 1m 18s)	Arriva (KL53 - Hospital Kuala Planned Actual 07.00 06:35:00 06:55 07:28:00 07:05 07:28:00 07:05 07:39:00 07:10 07:47:00 07:25 07:28:00 07:35 07:28:00 07:35 07:28:00 07:35 07:28:00 07:40 07:28:00 07:45 07:39:00 08:05 07:47:00	All Lumpur (Selatan)) Arrival Status EARLY (Dn 25m 0s) LATE (-Oh 6m 0s) LATE (-Oh 3m 0s) EARLY (0h 4m 0s) EARLY (0h 4m 0s) EARLY (0h 4m 0s) EARLY (0h 6m 0s) EARLY (0h 6m 0s) EARLY (0h 18m 0s)	 Buses must be installed with active OBUs The buses should pass through the 1st bus stop or terminal and reach the last bus stop or terminal The schedule provided for PMHS should be updated and as per operation on the ground 	• Min. 70% compliance
Route Compliance	18 WB494F 07.15	07:15:54 ON TIME (Dh Dm 54s)	08.15 07.53.00	EARLY (0h 22m 0s)	 Buses must be installed with active OBUs The buses should pass through the route lines as per given by S.P.A.D. 	• Min. 70% compliance
Punctuality Adherence	No. Operator 1 CITYLINER SON BHD (GOKL) 2 CITYLINER SON BHD (KBB) 3 LEN SENG SON BHD 4 METROBUS NATIONWIDE 5 SELANGOR OMNIBUS CO BERHAD 6 SERANAS SON BHD 7 SETARA JAYA SON BHD 8 SRI INDAH JAYA SON BHD 9 WAWASAN SUTERA SON BHD	OBU-Bus Availability Early One Active Lost Inactive Early One Last 14 3 3 15 51 5 19 2 123 0 8 3 7 2 3 1 8 1 96 2 67 18 43 6 10 1 28 2 1 0 41 7 33 4 17 0 35 3 43 2 17 2 8 1 9 1 6 0	Current Performance Department af ta Dax slop Construct af ta Dax slop Totos Status Bono % General Status Bono % Bono %	Offset Trip Status (Now) [8,1] 11:45 [563] [154] 11:25 [563] [154] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:25 [571] [162] 11:40 [571] [163] [171] 11:40 [571] [163] [171] 11:40 [571]	 Buses must be installed with active OBUs The buses should depart from the 1st bus stop as per departure time in bus operation schedule The schedule provided for PMHS should be updated and as per operation on the ground 	• Min. 70% compliance



PMHS Command & Control Centre

- PMHS Command & Control Centre (CCC) is situated in SPAD HQ in Platinum Sentral
- PMHS Primary Datacentre and Disaster Recovery Centre are located in MAMPU, Putrajaya and Menara Usahawan, Putrajaya respectively.
- The CCC is manned by 4 SPAD officers to ensure system and infrastructure uptime. The team work closely with the SPAD Bus Operations Team to ensure operation compliance by the operators.



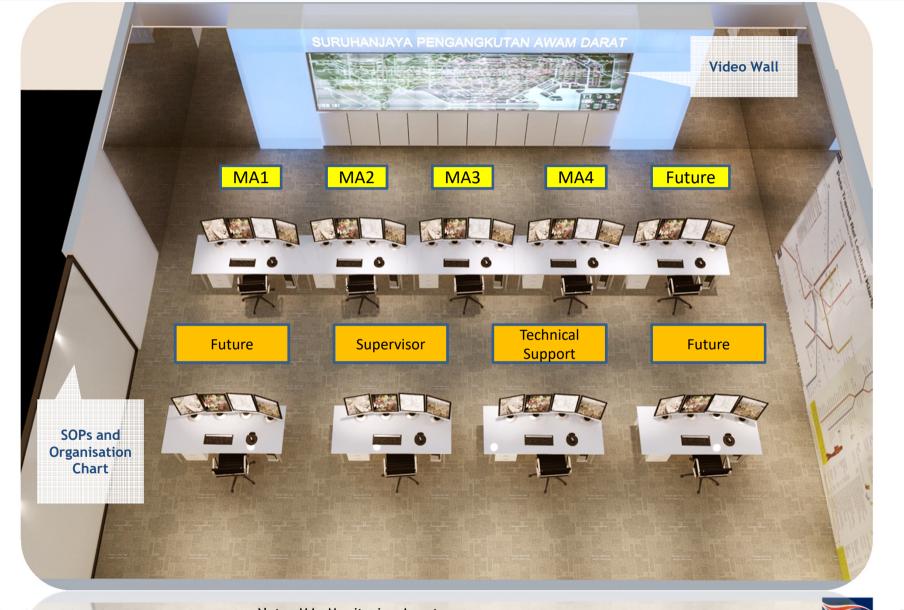




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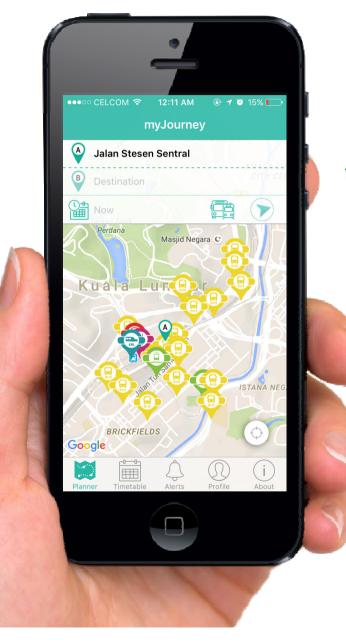


Command & Control Centre Layout





Features of the Journey Planner mobile app



Journey planning related services

- 🖉 Planner
 - Trip options
 - Navigation
 assistance
 - Ratings & feedback

- Timetable
 - Schedule for different routes & stops

Alerts

 List of service alerts affecting PT modes

Non-journey planning related services

User profile

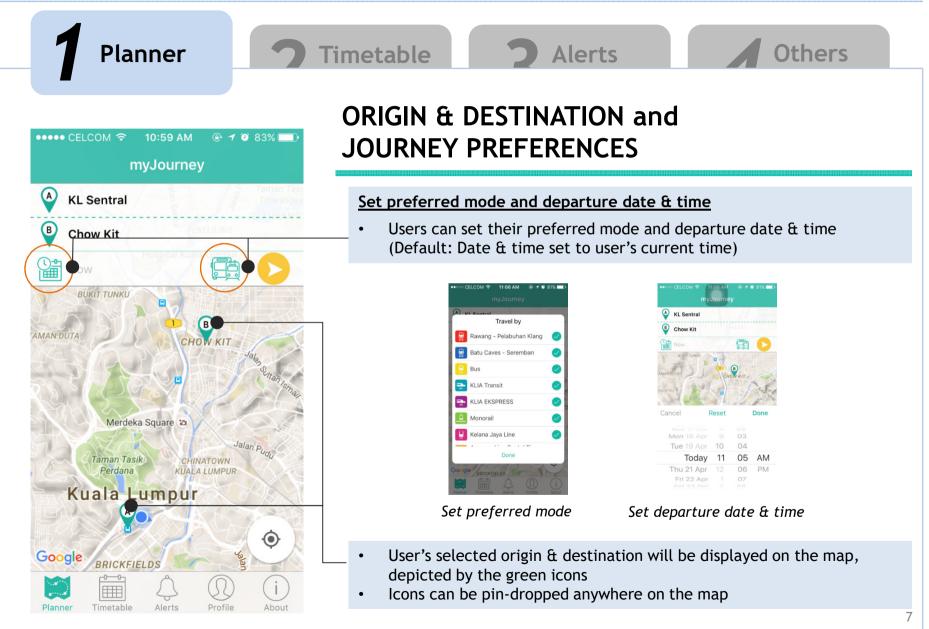
- History & Favourites
- User preferences
- Social media connectivity

About page

- Tutorial
- Info on SPAD & Operators
- Contact info



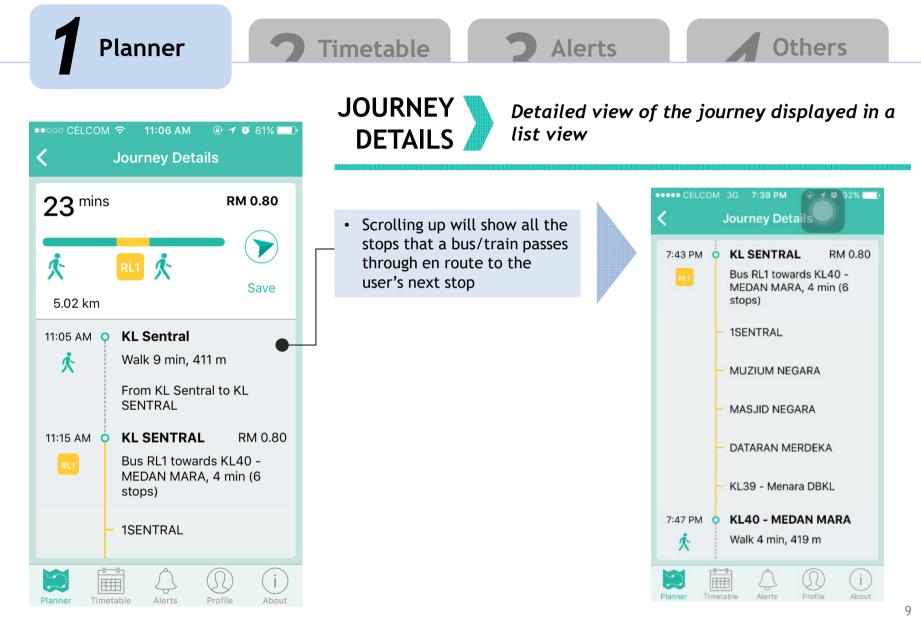
1 Planner **1.1 Origin & Destination and Journey Preferences**



1 Planner **1.2 Journey options**

1 Planner	7	imetable 7 Alerts Others
•••••• CELCOM 3G 7:38 PM		JOURNEY Displays the best journey options (minimum of 3 results) for the user's journey
	<u> </u>	• Option to change direction
13 ^{mins}	RM 0.80	• Results can be sorted by time engagement, cost or walking distance
50 ^{mins}	RM 1.50	 Result options will display: Total time for the whole journey Total fare for the whole journey Type of modes involved for the journey
22 ^{mins}	RM 0.50	• The bar indicates the time needed to travel on each corresponding mode
<u>大</u> RL1 <u>大</u>		From this page, user can either: a) View journey details b) Start journey navigation
Planner Timetable Alerts	Profile About	

1 Planner **1.3 Journey details**



1 Planner **1.4 Journey navigation**

Planner	7 Timetable 2 Alerts 6 Others
	JOURNEY Provides navigation assistance & tracks NAVIGATION user's location while on a journey
MyJourney KL Sentral B Chow Kit	 Share location / journey Option for user to share their current location / share their journey via social media or text message
	End • Option to end the journey
Werdek WB1765F 2 minutes Kual a	 Real-time vehicle position & ETAs (applicable for stage buses & KTM Komuter only) Real-time vehicle movements with vehicle license plate number/ID and ETA Will display the next 3 oncoming vehicle servicing that route to the user's stop Vehicle position and ETA will automatically refresh
Google BRICKFIELDS	 Navigation bars Navigation boxes will display info of: Walk 9 mi Walk 9 mi Walk 9 mi Walk 9 mi Bus number / train ID and direction Bus number of stops that the bus / train will pass through Bus/train ETA to user's stop Bus license plate number / train ID
	ETA will automatically refresh

THANK YOU

