

EFFECTIVE EMERGENCY RESPOND SYSTEM

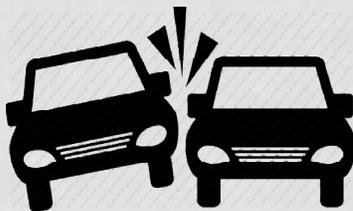
K-ZIN PHYO, MYINT MYINT SEIN,
MYAT THIRI KHINE and THIDA AUNG



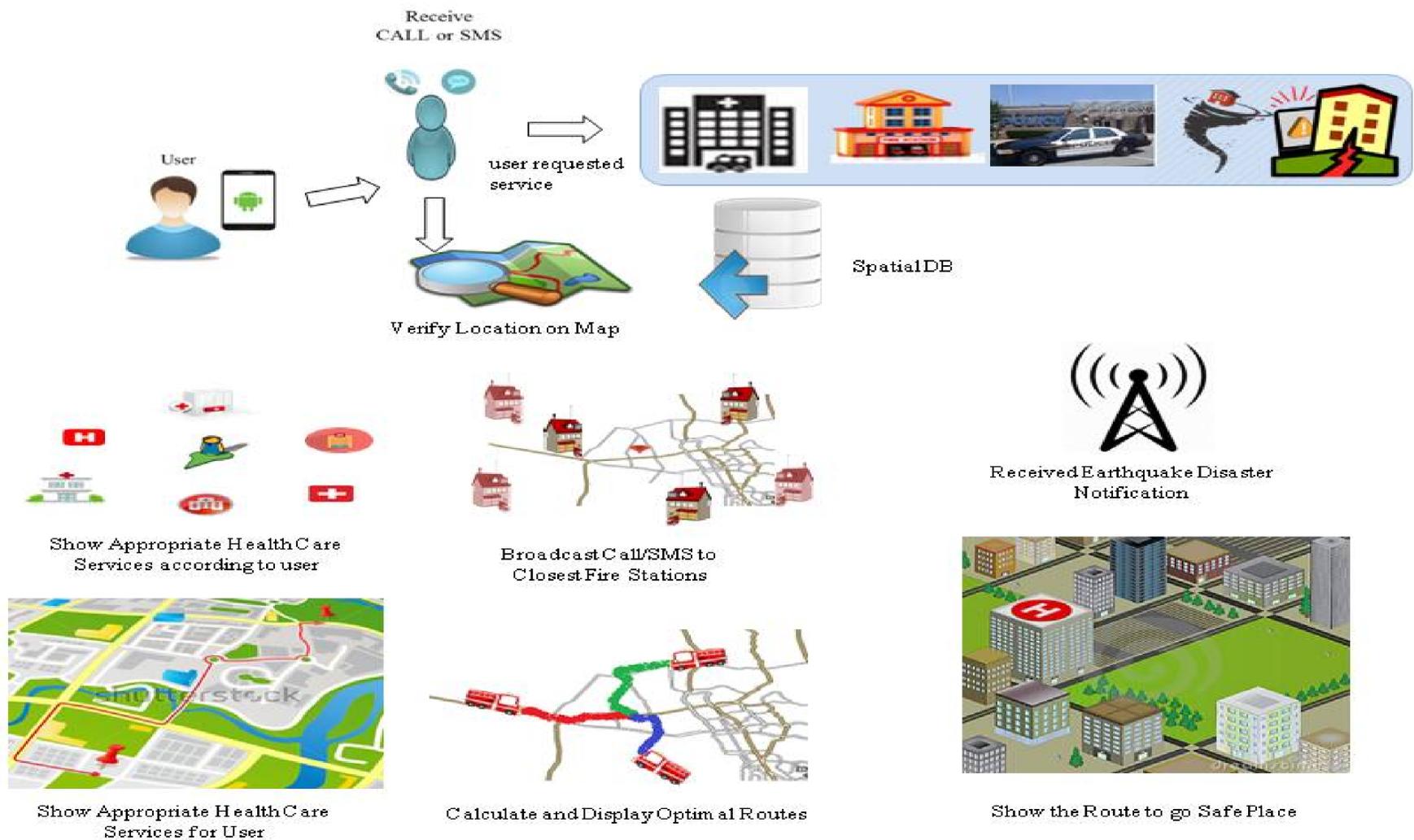
University of Computer Studies Yangon

IMPORTANT ROLE OF OPTIMAL ROUTE

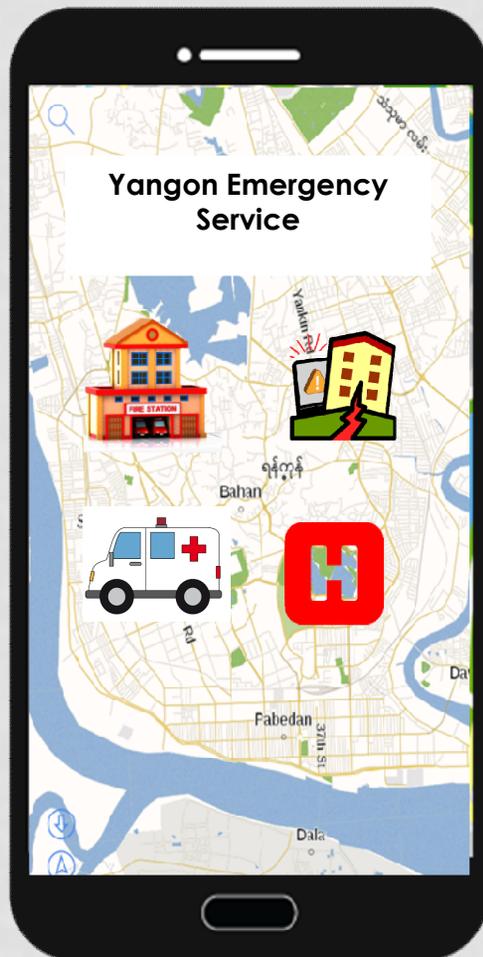
Which route is optimal to get/give the effective response?



GENERAL ARCHITECTURE



EMERGENCY RESPOND SYSTEM



Spatial DB



Location of Emergency services



Vector map of Yangon

SAMPLE TEST OF PROPOSED WORK



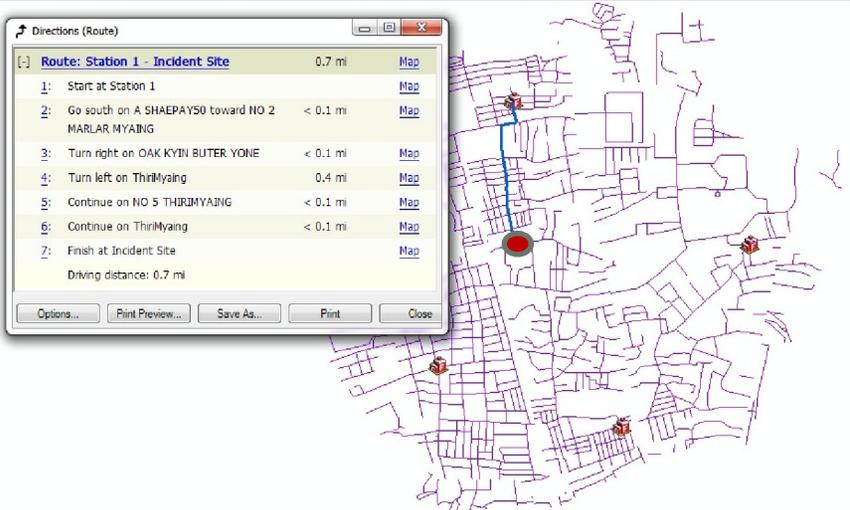
Directions (Route)

[-] **Route: Station 1 - Incident Site** 0.7 mi [Map](#)

- 1: Start at Station 1 [Map](#)
- 2: Go south on A SHAEPAYSO toward NO 2 MARLAR MYAING < 0.1 mi [Map](#)
- 3: Turn right on OAK KYIN BUTER YONE < 0.1 mi [Map](#)
- 4: Turn left on ThiriMyaing 0.4 mi [Map](#)
- 5: Continue on NO 5 THIRIMYAING < 0.1 mi [Map](#)
- 6: Continue on ThiriMyaing < 0.1 mi [Map](#)
- 7: Finish at Incident Site [Map](#)

Driving distance: 0.7 mi

Options... Print Preview... Save As... Print Close

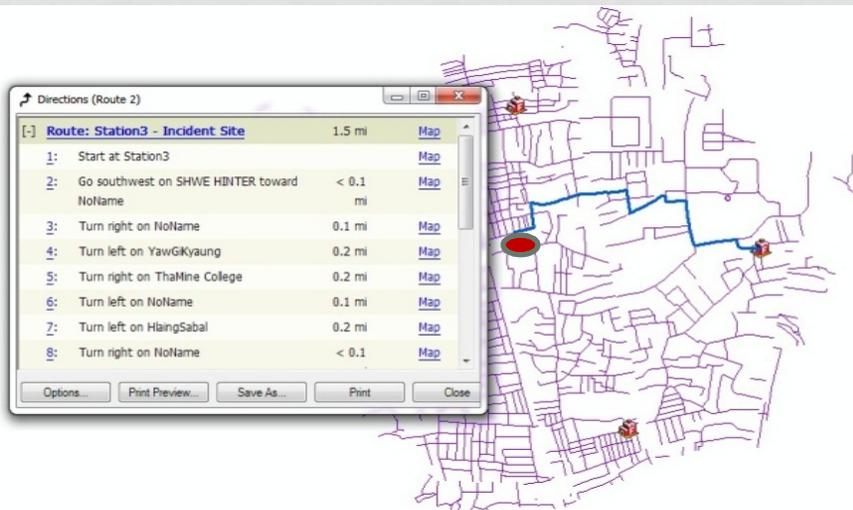


Directions (Route 2)

[-] **Route: Station3 - Incident Site** 1.5 mi [Map](#)

- 1: Start at Station3 [Map](#)
- 2: Go southwest on SHWE HINTER toward NoName < 0.1 mi [Map](#)
- 3: Turn right on NoName 0.1 mi [Map](#)
- 4: Turn left on YawGKyaung 0.2 mi [Map](#)
- 5: Turn right on ThaMine College 0.2 mi [Map](#)
- 6: Turn left on NoName 0.1 mi [Map](#)
- 7: Turn left on HlangSabal 0.2 mi [Map](#)
- 8: Turn right on NoName < 0.1 mi [Map](#)

Options... Print Preview... Save As... Print Close



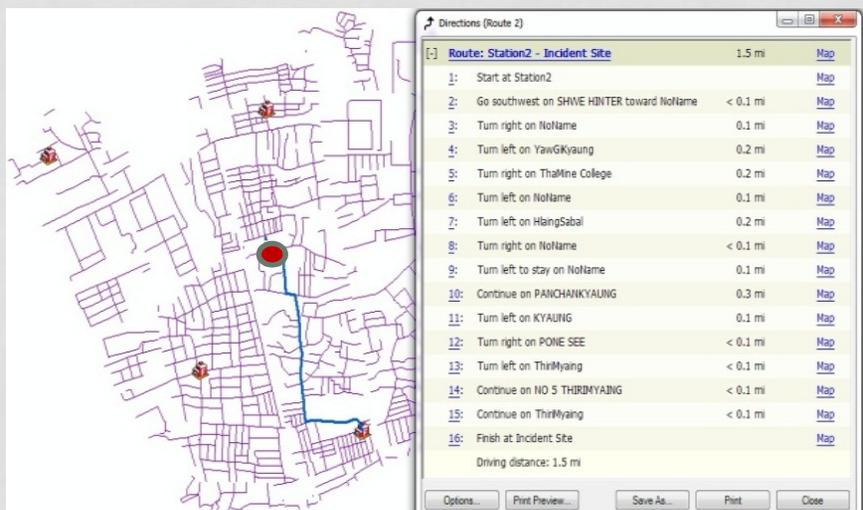
Directions (Route 2)

[-] **Route: Station2 - Incident Site** 1.5 mi [Map](#)

- 1: Start at Station2 [Map](#)
- 2: Go southwest on SHWE HINTER toward NoName < 0.1 mi [Map](#)
- 3: Turn right on NoName 0.1 mi [Map](#)
- 4: Turn left on YawGKyaung 0.2 mi [Map](#)
- 5: Turn right on ThaMine College 0.2 mi [Map](#)
- 6: Turn left on NoName 0.1 mi [Map](#)
- 7: Turn left on HlangSabal 0.2 mi [Map](#)
- 8: Turn right on NoName < 0.1 mi [Map](#)
- 9: Turn left to stay on NoName [Map](#)
- 10: Continue on PANCHANKYAUNG 0.3 mi [Map](#)
- 11: Turn left on KYAUNG 0.1 mi [Map](#)
- 12: Turn right on PONE SEE < 0.1 mi [Map](#)
- 13: Turn left on ThiriMyaing < 0.1 mi [Map](#)
- 14: Continue on NO 5 THIRIMYAING < 0.1 mi [Map](#)
- 15: Continue on ThiriMyaing < 0.1 mi [Map](#)
- 16: Finish at Incident Site [Map](#)

Driving distance: 1.5 mi

Options... Print Preview... Save As... Print Close



ACHIEVEMENTS

- [1] K-zin Phyo and Myint Myint Sein,” Optimal Route Finding for Emergency Case on Android ”, MobiSys 2016,Singapore
- [2] K-zin Phyo and Myint Myint Sein,” Optimal Route Finding to Support Fire Emergency Service”, ICCA 2016, Myanmar
- [3] K-zin Phyo and Myint Myint Sein,” Optimal Route Finding for Weak Infrastructure Road Network ”, ICGEC 2016, 7th~9th Nov. , Fujin, China.



**Thank
You!!!**