

Ocean's 4

Agenda

- Who
 - Ocean's 4 Members
- Project Description
 - Sehir Cobani
- Technical Details
 - Technologies & Libraries
- What is done?
 - Completion of the project
- Future Work
 - What is next?

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Ocean's 4 Members

- Burak TIKNAZ
- Fatih PEHLİVAN
- Okan ÖZMEN
- Yakup TURGUT

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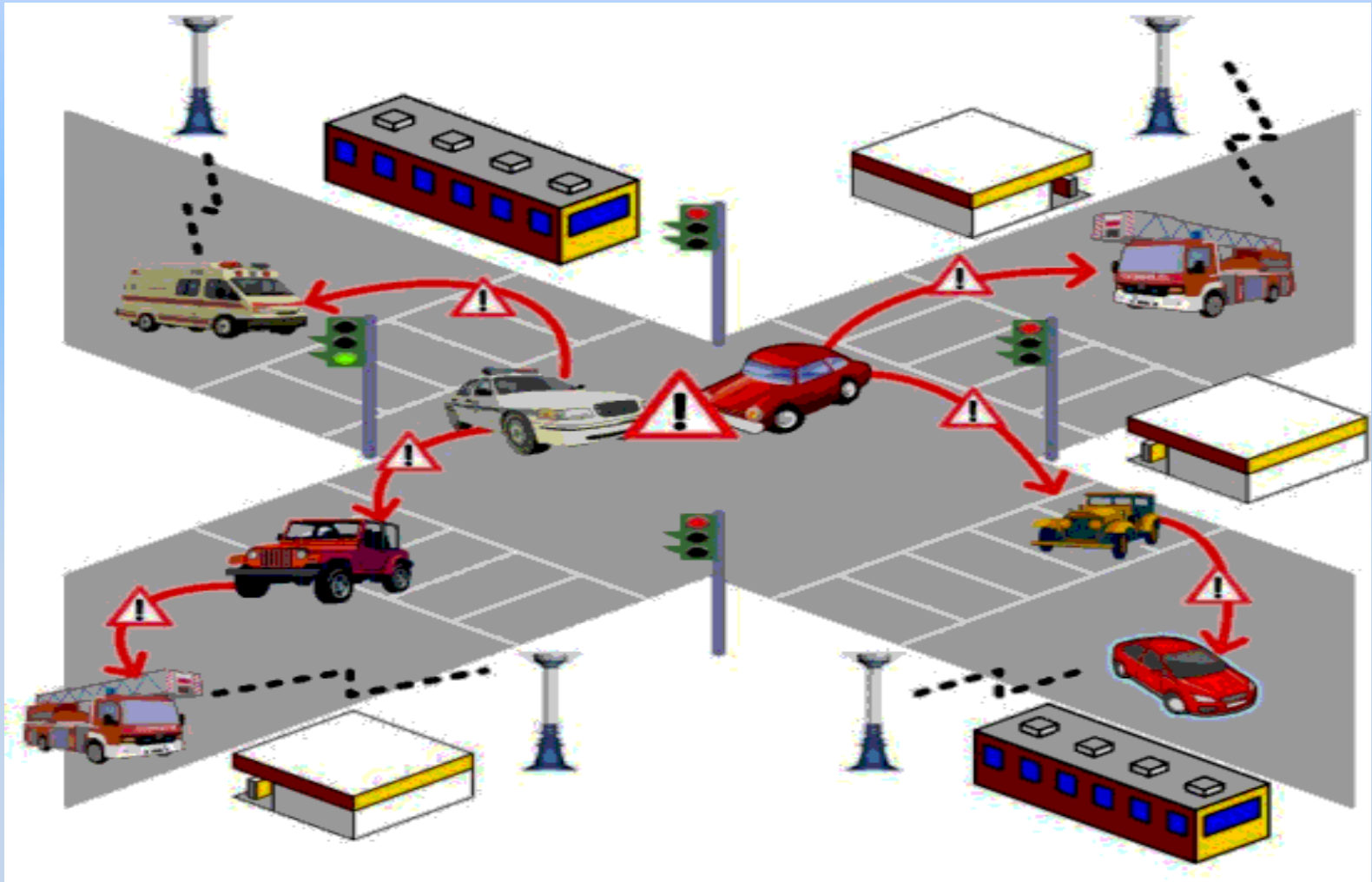
Sehir Cobani

Safer Roads, Safer World

Project Description

- A Powerful GPS System
- Copilot
- Ad hoc Network Communication
- In Touch with Emergency Services
- Targets All Drivers

Sehir Cobani



Why Sehir Cobani?

- More than a GPS device
- Able to see other cars' positions
- Overtake assistance
- Following distance warnings
- Crossroad assistance
- Delivery of accident info using ad-hoc network

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Technologies

- OpenMap
 - Showing and manipulating map data
- ZigBee
 - Wireless communication device
 - Uses IEEE 802.15 protocol
- Xbee
 - API for using ZigBee card

Technologies – Contd.

- Java
 - Development language
 - Platform-independent
- MySQL
 - Robust and fast DBMS
- XCTU
 - Configuration tool for ZigBee cards

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What is done?

- Map Package – 100%
 - Display map and cars on the screen
- Messaging Package – 70%
 - Simulation of messaging
 - ZigBee implementation of messaging

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Future Work

- Messaging Package
 - To be completed
- Database
 - Storage of violations and accidents info
- Extra features
 - Traffic density
- Bug fixes, integration and documentation

References

- <http://www.openstreetmap.org/>
- <http://www.mysql.com/>
- <http://gpsinformation.net/>
- <http://www.zigbee.org/>
- <http://senior.ceng.metu.edu.tr/2010/oceans4/>
- <http://code.google.com/p/xbee-api/>



Thank You

Questions?

