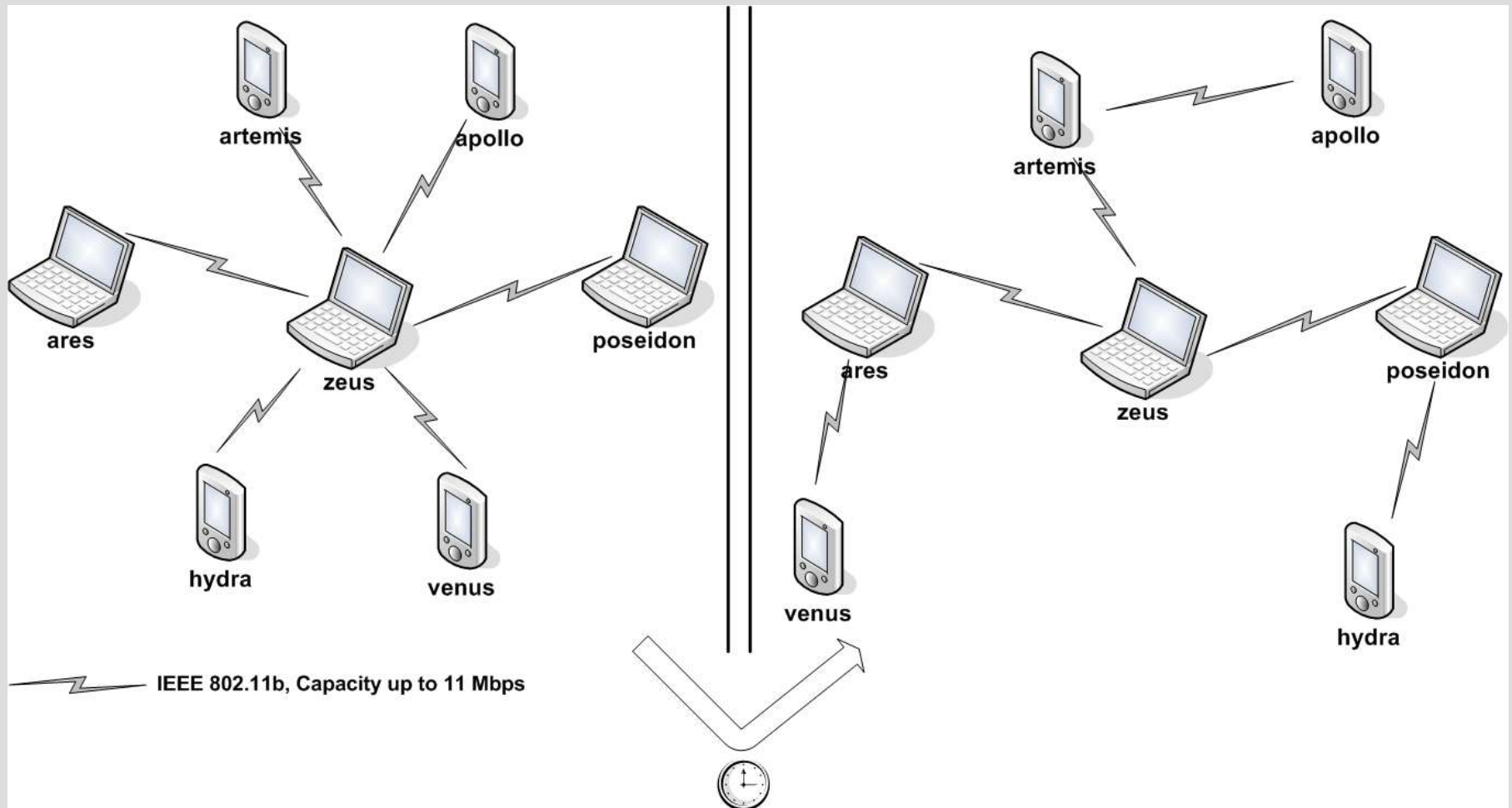


# Project Proposal "MANET"

## Location Aided DYMO

By,  
Adarshini Srikantappa  
Gayatri Tribhuvan

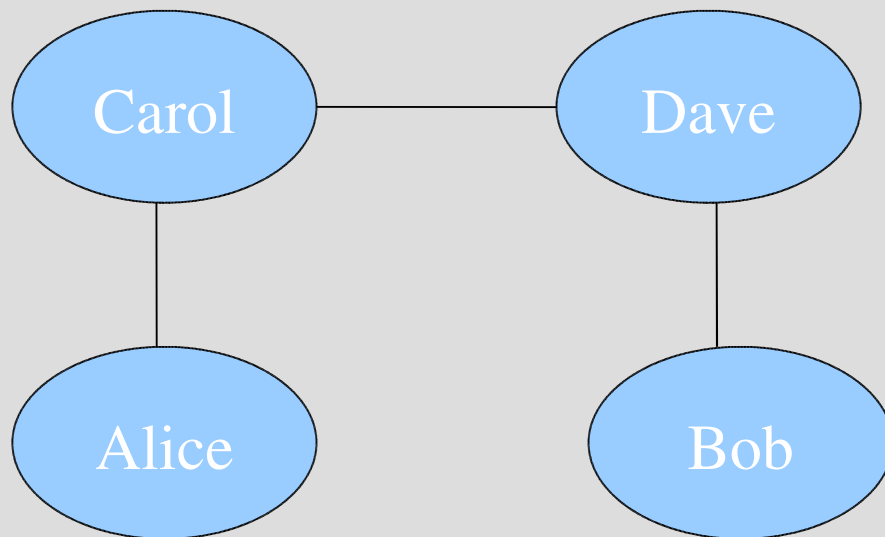
# What is MANET?

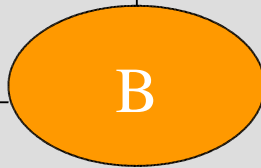
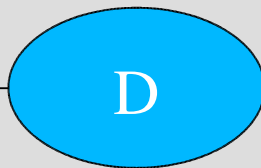
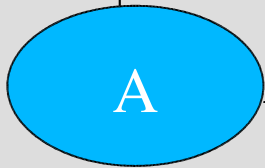
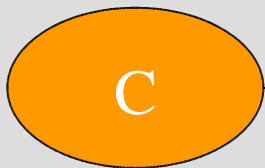
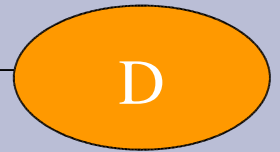
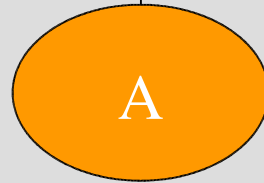
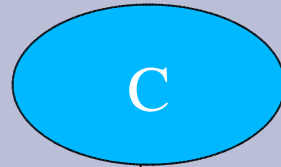
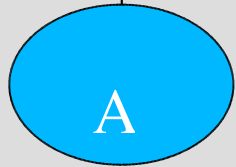
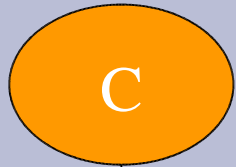


# DYMO

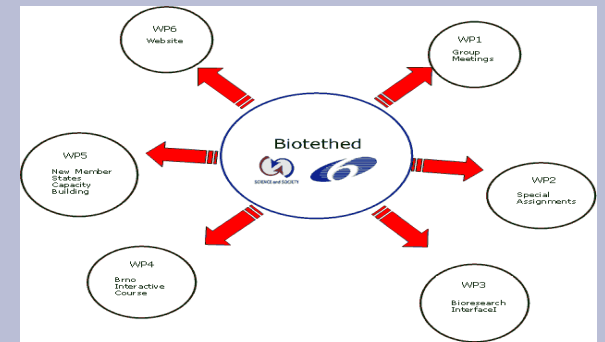
- Dynamic MANET On Demand Routing protocol.
- Successor of AODV
- Acts as Pro-active and Reactive Protocol
- Extends AODV with Source route path accumulation feature of DSR

# How DYMO works?



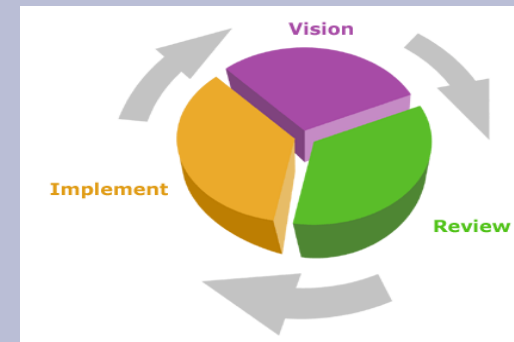


# Objective



- To make node learning in DYMO more efficient
- We plan to achieve this by incorporating Location Aiding feature in DYMO via GPSstix
- Hence our module has the name „Location Aided DYMO“

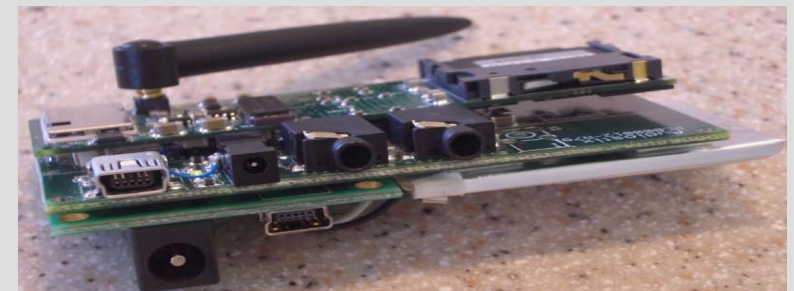
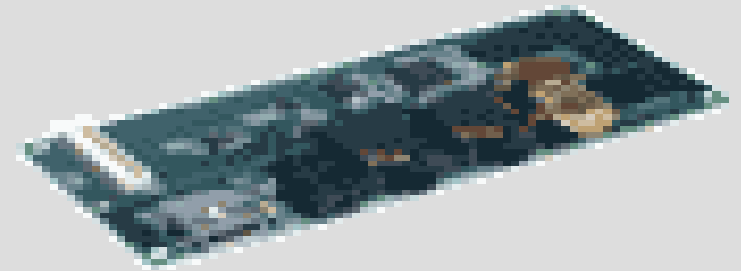
# Project Overview



- Enhancing the node learning process in DYMO routing protocol.
- Increasing efficiency of DYMO protocol by making it location dependent

# Gumstix & GPSstix

- Setting up usb net
- Cross compilation
- Communication between Gumstix
- Analysis of generated log files in mobile and static scenarios
- Setting up test bed in both scenarios
- Yet to learn about GPSstix





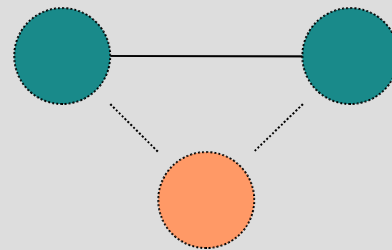
# Procedure



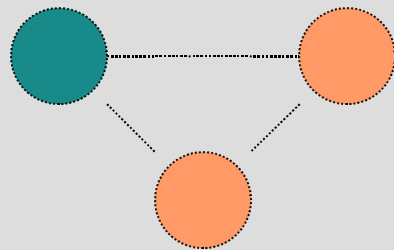
## Phases

- Implementation
- Evaluation
- Improvisation

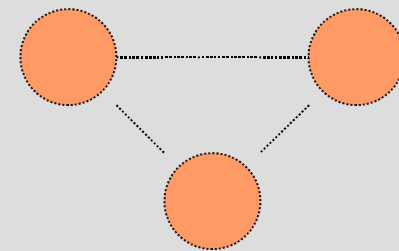
# Proposed Models



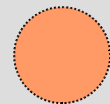
1 Mobile



2 Mobile



3 Mobile



Mobile Node



Static Node

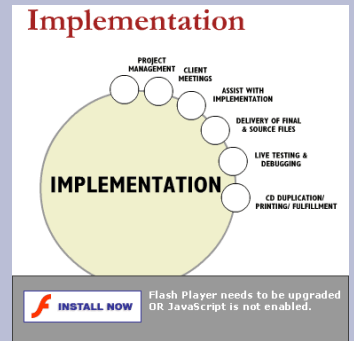


Static communication



Mobile communication

# Implementation Phase



- Porting DYMO protocol code to Gumstix
- Realizing DYMO on the proposed models
- Detect cases where node learning process is difficult
- In the above scenario, implement a new packet header design

X coordinate	Y coordinate	Node Name
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# Evaluation Phase



- Apply the newly developed module to all of the proposed models
- Following parameters can be evaluated:  
TTL, Delay, Overheads
- Expected output can be evaluated in each case
- Further comparison with existing protocols can be made
- Checking accuracy of GPSstix information

# Improvisation Phase

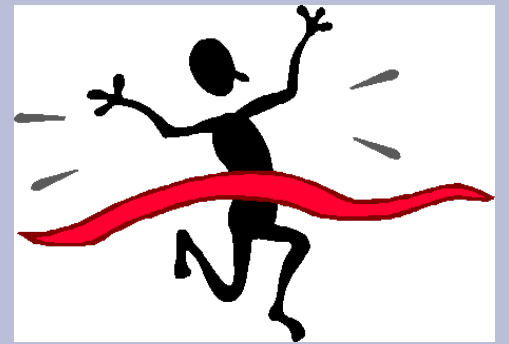


- Improving weaknesses we encounter in evaluation Phase.
- Extension of network topology by incorporating more nodes

# Schedule

Phase	Time	Date
Implementation Phase	4 Weeks	18/02/08
Evaluation Phase	2 Weeks	07/03/08
Improvisation Phase	1 Week	14/03/08
Team Project	5 weeks	30/04/08

# Conclusion



- By making route discovery location dependent, we are enhancing the efficiency of the node learning process.
- By this Routing Protocol is more efficient

THANK YOU for your attention