

STEFS Fact Sheet

Mobile Field Data Collection for the Environmental Professional

Software Tools for Environmental Field Study (STEFS) is an MIT/Microsoft I-Campus initiative to develop an electronic field notebook for data collection on mobile computing platforms. Led by a student-run organization, **ENVIT Student Group**, the project includes integration with the environmental science curriculum, as well as field deployment and testing of the prototype. Advanced technologies for mobile computing and environmental sensing will also be integrated into the electronic journal. <http://web.mit.edu/envit/www>

Project Objectives:

- Develop ENVIT-Note, an environmental data collection software for mobile PocketPC.
- Integrate mobile mapping (GIS), ge positioning (GPS) and environmental sensors.
- Offer software and prototype development experience to MIT undergraduates through seminar.
- Field test prototype through an organized field expedition.



Water Quality Sampling at Murray-Darling River, Australia

Accurate and efficient geolocation and environmental data gathering through GIS/GPS/sensor technology



ENVIT-Note for PocketPC

Technology:

- Windows CE 3.0 VB/C++
- MS Access
- Compaq I-PAQ
- Teletype GPS
- ESRI ArcPad GIS
- HydroLab Water Probe

Education and Research:

- Undergraduate Seminar
- IAP Field Trip to AUS
- M.Eng Projects
- Water Quality and Flow
- Watershed Management
- Hydrology Models and GIS

Support and Sponsors:

Academic
MIT CEE Department
Parsons Lab
MIT PEEER Program

Corporate
Microsoft Corp.
ESRI, Inc.
HydroLab, Corp.

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