

2015-03-05 Meeting notes

Date

05 Mar 2015

Attendees

- Prof. Joshua Peschel

Meeting notes and issues

- Instrumentations for tracking movement of children in school
 - Arduino
 - Some students of Prof. Peschel can support to make the kits.
 - But Arduino is not recommended to use in the project because it is likely to be broken easily by students.
 - Also, it is as expensive as smart GPS watches, a bit heavy and has big size.
 - Lilypad or FLORA
 - Lilypad or FLORA can be stitched on to a wrist band, cloth or fabric.
 - It is cheap, small, light and easy to carry.
 - An accelerometer sensor and GPS receiver are separated.
 - It needs an additional battery.
 - Someone may need to collect data every day in school.
 - RFID system
 - Once RFID transmitters are installed around green infrastructure, the movement of students who have RFID tags can be tracked.
 - RFID tags are really cheap, small and easy to carry.
 - The accuracy of locations is dependent on how many RFID transmitters are installed.
 - The price of RFID transmitters will probably be expensive.
 - Additional accelerometer sensors will be needed.