

The beacon

Car battery(32 Ah) → 24Ah usable → 5 S10 fully charged + 133h of arduino uptime

5v regulator→ in every portable battery→ easily scrapable→ 1.5 to 3 A

Arduino→ Everywhere in science university (lcd shield as a bonus)

USB A port→ easily scrapable on computers(since they're useless anyway)

USB key→ everyone has a USB key

Bluetooth module→ now that's the tricky part (but not impossible in Science University)

Provide a drop point for the app and a charging point

The App

Uses bluetooth and periodically GPS(assuming they'll still be up)

Store the location of virtual and physical beacon

Able to share it with close people

Enable configuration and maintenance of beacons

The synergy

Configure beacons (Coordinates, name, description and local news)

Local news allows constant update on the beacon surroundings state (new danger, out of supply, etc)

Sharing beacon's position is easy by sharing through bluetooth

