Supplementary information: Robust, real-time and autonomous monitoring of ecosystems with an open, low-cost, networked device

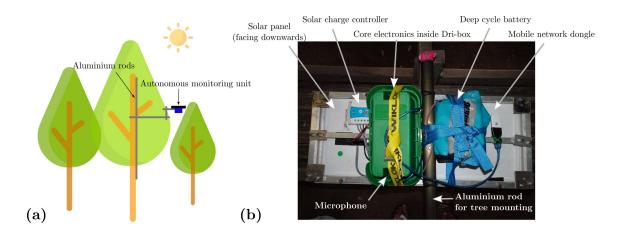


Figure S1: **Canopy mounting of the autonomous monitoring unit.** Here we display how the autonomous acoustic monitoring units were mounted in the canopy at SAFE Project. **(a)** A series of aluminium rods were affixed to the tree to allow the solar panel to reach direct sunlight out of the shade of the canopy. **(b)** A close-up view of the inverted monitoring unit with all components attached.

Table S1: **Autonomous monitoring unit cost breakdown.** Parts list and typical costs for one autonomous ecosystem monitoring unit assembled in the UK, as of August 2017. In this case the system is configured for acoustic monitoring.

Item	Cost (GBP)
One-off costs	
Raspberry Pi A+	£21.59
SanDisk 64GB SD card	£17.39
Huawei E3531 3G dongle	£21.00
Dri-box weatherproof box	£10.09
Anker powered USB hub	£20.00
12V to 5V DC step down converter	£6.29
12V 10Ah AGM deep-cycle battery	£23.98
Solar charge controller	£10.99
30W solar panel	£45.08
Audio sensor costs	
Ugreen USB audio card	£6.99
Rode SmartLav + electret microphone	£44.00
Operational costs	
60GB data sim card	£30.00 per month

Total

£227.40 + £30 per month