Re-engaging Citizen Scientists through their phones

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Why monitor waterways?

Valuable natural assets providing economic, social and environmental benefits;

• Important to business supporting livelihoods;
• Places of natural beauty used for recreation, supporting healthy lifestyles.

Monitoring and reporting supports effective management of these valuable community assets.
Educate people on the value of our waterways
Influence decisions, policy and actions to improve and maintain waterway health.
Conventional Monitoring
Crowdsourcing
Healthy Waterways Monitoring Program – linking monitoring and modelling

Healthy Waterways Monitoring Progam - Environmental Component

**Key pressures and management measures**
- Riparian, wetland & gully extent
- Land use (eg agricultural land management)

Models
- Source model (catchment)
- Stream health model (waterway condition)

Monitoring
- Aquatic invertebrates
- Fish
- Rates of primary productivity & respiration
- Water quality
- Load-based monitoring of sediments and nutrients

- Riparian, wetland & mangrove extent
- Chlorophyll a
- Toxicants
- Water quality
  - Field monitoring (Physical/chemical, nutrients, chlorophyll a)
  - Continuous sensors

- Seagrass & wetland extent & condition
  - Coral
  - Nuisance algae
  - Fauna
  - Mud content of sediment
    - Water quality
      - Field monitoring (Physical/chemical, nutrients, chlorophyll a)
      - Underway sampling from vessels
      - Continuous sensors
Previously only Environment
More than Environment

Environmental Condition

Benefits

Values & Actions
Where the app comes in!!
HydroColor – Water Quality

HydroColor: A Water Quality App
By Thomas Leeuw
Open iTunes to buy and download apps.

Description
HydroColor is a water quality app. Using this information, you can determine the amount of particulate matter (SPM) (g/100L) in the water.

What's New in Version
Updates for iOS 8

 iPhones Screenshot
Start Here
Gray Card
Sky
Water
Analye Images
Lat: 42.049°
Edit Lat Lon
 Lon: -70.182°
Get GPS Fix
Capture
My Soil – Improve Soil mapping
Invasive non-native plant species are a threat to native wildlife in the UK. Help us track them down.

The Environment Agency, the Nature Locator team at the University of Bristol and the Centre for Ecology and Hydrology have joined forces to help combat the spread of the UK’s most problematic invasive, non-native plant species.

Download the App now
Available free from the iTunes App Store and Android Market

Latest blog posts
- Spotlight Species – Crassula helmsii
Project Noah - Wildlife

My Noah

iPhone & Android apps

My Noah is your Project Noah mobile home page. Once signed in, you can manage all your spottings, see what missions you're participating in, keep track of your patches, and update your profile.
Questions?