

Flood Network



Ben Ward

<http://flood.network>

 [@flood_network](https://twitter.com/flood_network)



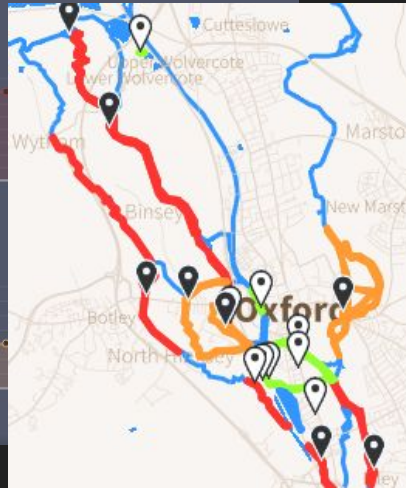
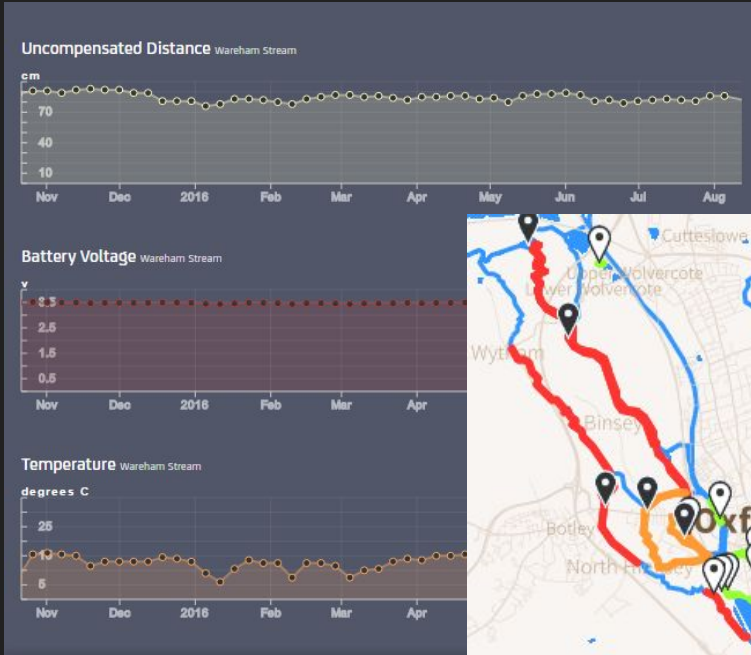
Monitor flooding
from small water
courses, ditches
and culverts





Mobilise
residents and
staff before a
crisis develops

Data & Subscription

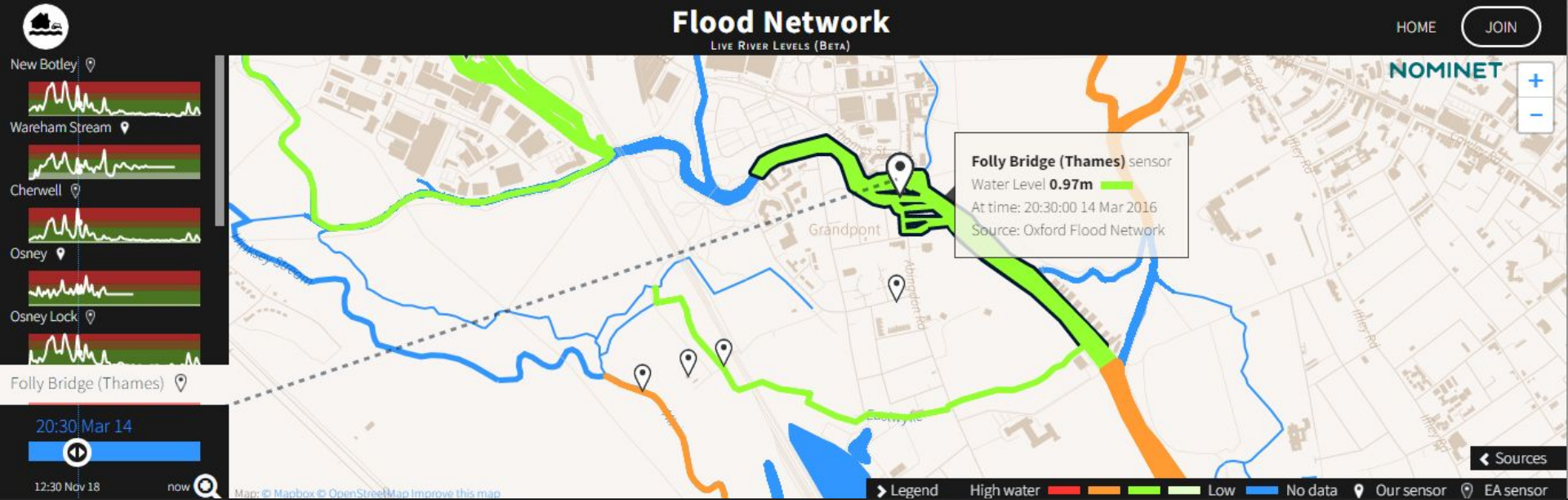


- Your subscription allows you to analyse and manage water levels in one place.
- Sensor data updates at 15 minute intervals to you and (if you wish) to the public.
- Staff can be mobilised to manage flooding related issues before they become critical
- Historical data is yours to analyse
- Data is used for calibrating and improving flood models
- Add sensors, pay as you grow

Sensors



- Small, low cost device, suitable for installation on bridges, culverts, floorboards.
- Uses ultrasound to detect water surface, reducing maintenance costs
- Available with or without maintenance and installation
- Use cutting edge low-power wide area technology developed for the Internet of Things
- Sensors can use existing networks where available (Things Network, Stream, Actility) or gateways installed where needed.



See levels at a glance

- Public Map <http://flood.network>
- Zoom from regional & local overview down to individual sensor
- Time slider replay of events
- Colour changes on thresholds

See what's working, what needs attention

- Threshold crossings
- Device health, battery
- Links to analytics
- Recalibrate & set thresholds

The screenshot displays a dashboard for 'FLOODNET' with a 'Live Gateway' section. On the left, there is a sidebar with navigation options: 'ADD THING', 'DASHBOARD', 'SEARCH', and a bar chart icon. The main content area is titled '16 Results' and shows a grid of gateway cards. Each card has a title, 'Uptime', and 'Device' status with a refresh icon. The 'Device' status for 'Hogacre Gateway' is highlighted in red as '7 minutes ago'.

Live Gateway VIEW: Map Detail

KEYWORD SEARCH

Keywords

DEVICE TYPES

- Live gateway 16
- EA sensor 0
- Live sensor 0
- Dormant sensor 0
- device 0

Gateway Name	Uptime	Device
Hogacre Gateway	2 minutes ago	7 minutes ago
Winterborne Kingston Gateway-0022	1 minute ago	2 minutes ago
Whitehouse Road GW	2 minutes ago	40 seconds ago
Kirtlington Gateway	3 minutes ago	39 seconds ago
Chilswell Road Gateway		
swan-cottage-gw	2 minutes ago	10 seconds ago

Watch for level alerts and sensor health

See what's working, what needs attention

- Threshold crossings
- Device health, battery
- Links to analytics
- Recalibrate & set thresholds

Group or filter view by sensor type or site name. Easily find devices, save the search for future use.

South Oxford

FLOODNET

ADD THING

DASHBOARD

SEARCH

KEYWORD SEARCH

Keywords

DEVICE TYPES

STREAMS

Temperature 11

Uncompensated Distance 10

Battery Voltage 10

GRANDPONT

NEW HINKSEY

15 Results

VIEW: [Map](#) [Detail](#)

Sunningwell Road Groundwater

Libelium Sensor

Oxpens-St Ebbes Footbridge

Chilswell Road Gateway

Hogacre Hinksey Stream Pipe

Hogacre Gateway

Thames at Folly Bridge

Hodacre Basement

Manage and group locations, data and devices

Easily find devices, explore analytics

- Links to analytics
- Place sensors accurately on map
- Calibrate & set thresholds

- Bound & group devices and locations with polygons
- Find similar datastreams (eg. all temperatures here)

The image shows a user interface for configuring sensors. On the left is a sidebar with 'DEVICE TYPES' including Live gateway, EA sensor, Live sensor, Dormant sensor, device, Test gateway, Broken sensor, MIA, and Live sensor. The main area has a 'Configuration' section with a table:

status	live	
gateway	7sw4-mvbw-2hbj-tmtq-t	
maintainer	L	

Below the table is an 'Add Metadata' button. The 'Streams' section lists transforms: Uncompensated Distance, Temperature, Firmware, Water Level, Height, Battery Level, and Images, each with a 'Psh' button. At the bottom are 'Add Stream' and 'Add Transform' buttons. The 'Geographic features' section shows a map of Oxford with a red pin on Grandpont. To the right of the map is a 'Point' location selector with a 'Location' dropdown and a 'Default' checkbox.

Configure sensors, calibrate and transform data

- Allows fine detail changes to metadata
- Transforms allow new datastreams to be calculated (eg. peak events)
- Place sensors accurately on map
- Calibrate & set thresholds
- Set user permissions per sensor
- Enable notifications (2017)

Flood Network Services

Consultancy

- Understanding your flooding or drainage issues and targeting specific locations
- Co-developing a solution to provide ROI

Network Planning and Design

- Planning for coverage and sensor deployment
- Network design
- Network Management



Ben Ward, Director

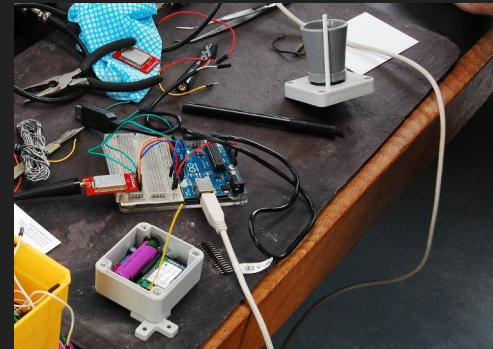
Flood Network Services

Workshops

1 day workshops to explore the Internet of Things and how it can help your water and drainage management.

Example topics for the day:

- Cost-effective prevention through data
- Engage the community
- Build valuable datasets for flood risk
- Evaluate schemes before and after
- Calibrate flood models





Communities responding better to flooding

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