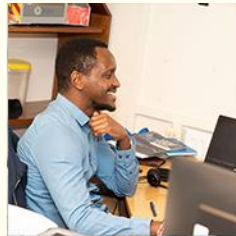


Tangible benefits of web mapping for hydrant management



 @cambsfrs



**CAMBRIDGESHIRE
FIRE & RESCUE SERVICE**

Working together to improve community safety



Hydrant Management in CFRS

Cambridgeshire Fire and Rescue has a statutory duty to take all reasonable measures so that there is an adequate supply of water for fighting fires

22,000 Hydrants in the county

Managed by the Water Team & Hydrant Engineers

Assess and allocate water supplies by implementing planning conditions or Section 106 agreements

Ensure Crew safety in regards to water supplies

Run routine hydrant inspections(every 3 years) and liaise with water companies across Cambridgeshire

Set-up of the Project

The project set out to:

- Remove a legacy Water Management application from the service
- Utilise the functionality of an existing Asset Management application to undertake the core business processes of both Water Management and Hydrant inspection
- Streamline processes where possible

Challenges

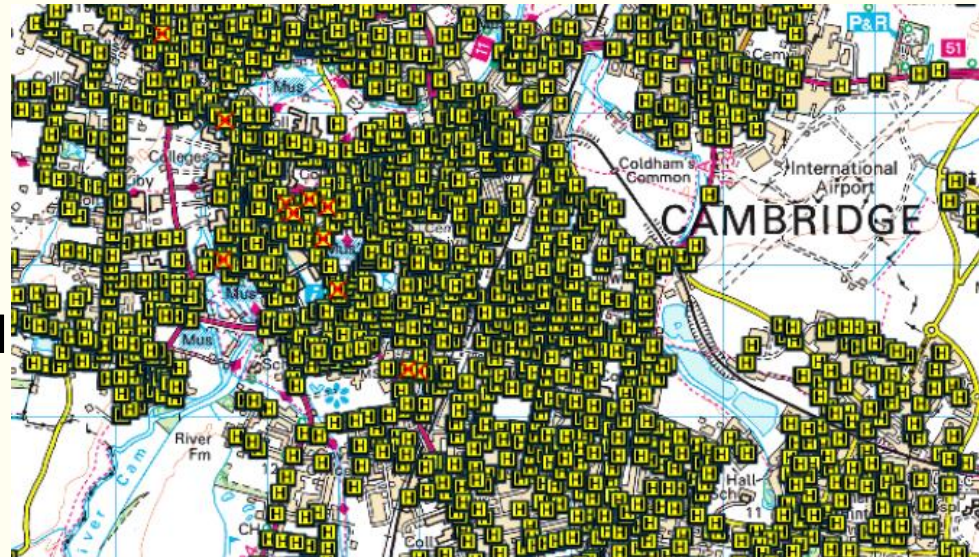
The Asset Management application had no mapping interface

Linkage with the premises identified by our Risk Based Audit Programme, to prioritise walks and re-visits

Our User Requirements

Mapping Functions

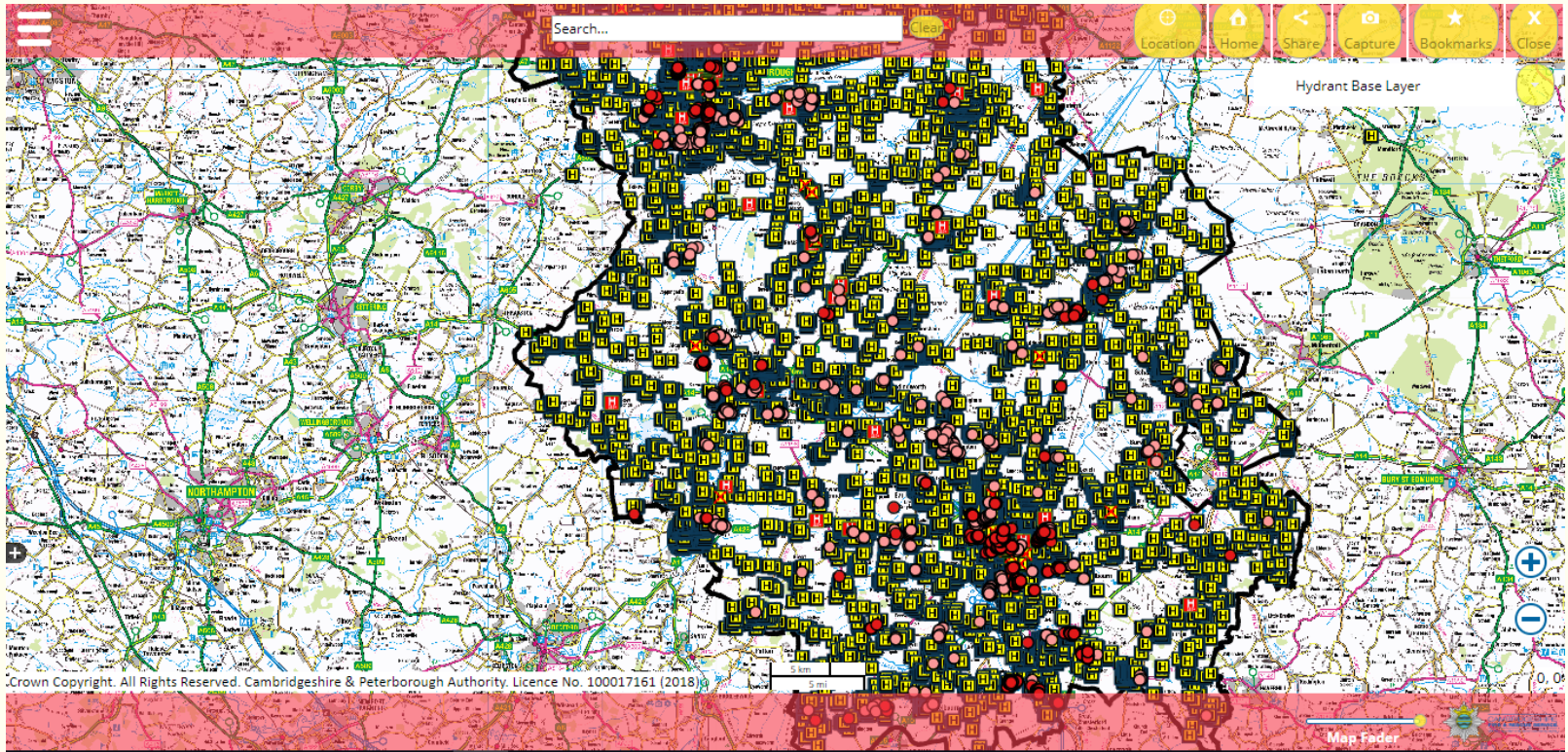
- Search the ABP gazetteer & return a short-list of matches
- Search by Hydrant Number
- Search by Postcode
- Search by Easting/Northing
- Ability to measure distance and area to determine proximity to existing resources.



Walks

- Prior to the project, walks were based on Station Ground and hydrants were split into batches of 100.
- As a result of the project, hydrants are prioritised based on proximity to risk premises.

Lets have a look...





Operational Crews

Up to date map with hydrant information

Manipulate data to only show live hydrants in an area

Measure tool to work out lengths of hose

Can see hydrants within an area without a lot of initial information

Allows a quick search of hydrants from a street name

Updates to a hydrant can be seen instantly

Dynamic Map

Assessment of water schemes and planning applications

Search for co-ordinates of an area to put new hydrants in

Can get access through tablets and phones

New Hydrants appear on the map straight away

Measuring tool allows us to work out where to place new hydrants

Gain details of hydrants with one click

Water Team

Hydrant Engineers



Risk Based Audit Programme

We decided during the process of managing hydrants to change our walk system

This was completed with the help of mapping

We created Priority 1 & 2 risk hydrants which allowed us to create new walks for our hydrant engineers

Priority 1 hydrants are within 180m of a Premises identified on our Risk Based Audit Programme

