



Canal &
River Trust

Keeping people, nature & history connected

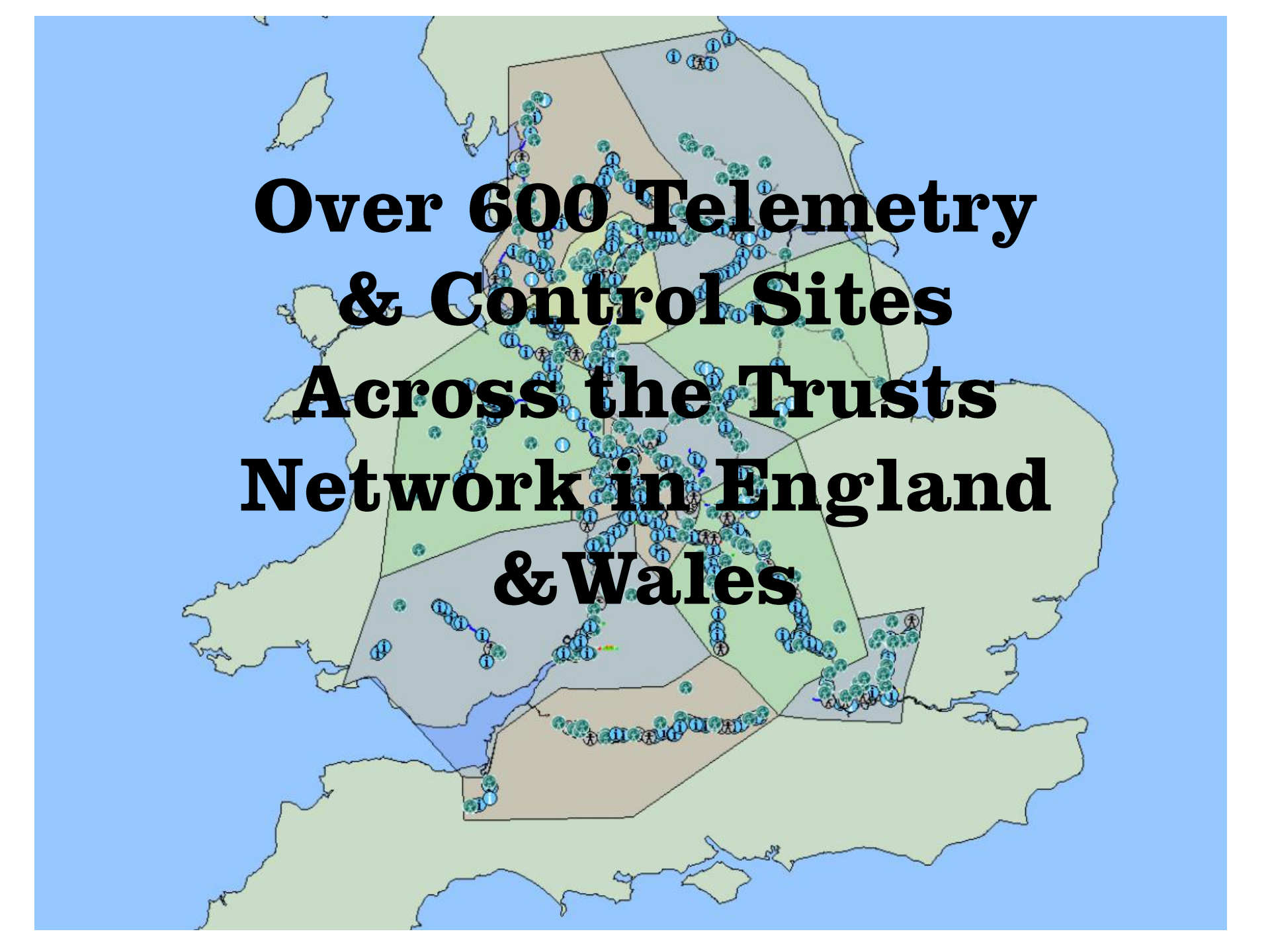
SCADA ICA Team

North East Waterway

Nigel Taylor
SCADA Maintenance Engineer
24th July 2014

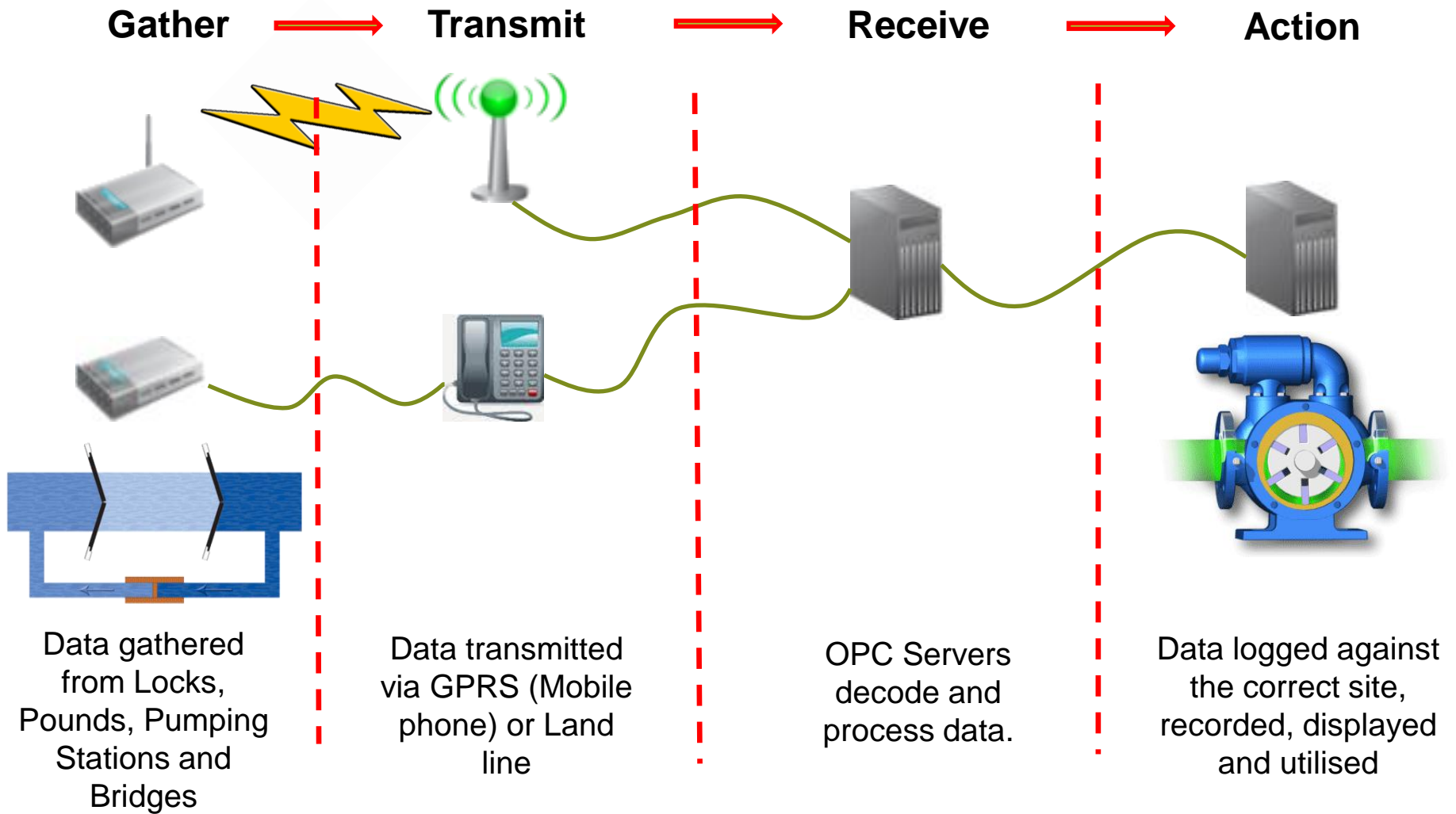
Introduction



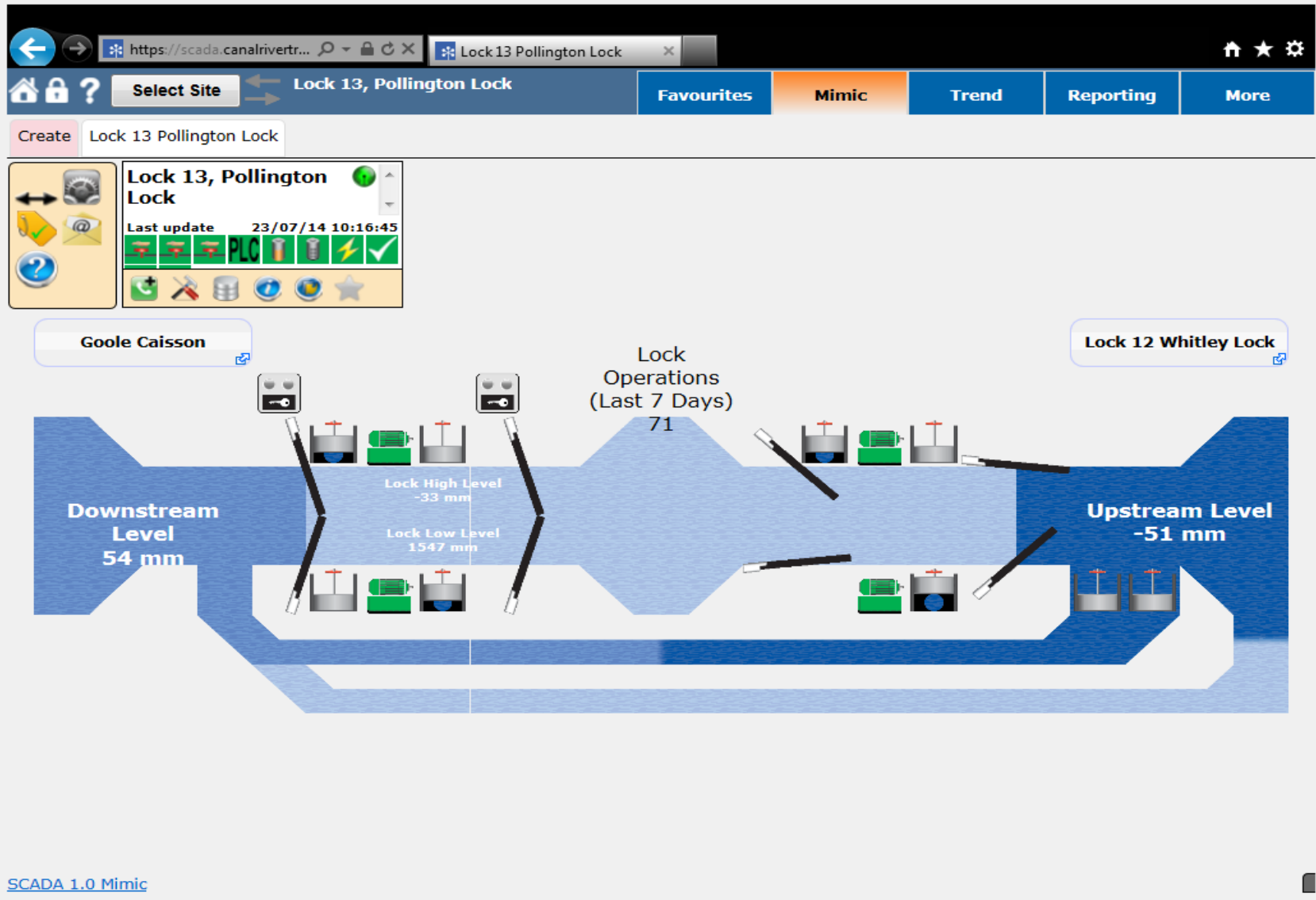
A map of England and Wales with a network of small circular icons representing telemetry and control sites. The map is divided into several colored regions: light green, light brown, and light grey. The icons are densely packed in the central and southern regions, with some scattered in the north and west. The text is overlaid on the map in a large, bold, black font.

**Over 600 Telemetry
& Control Sites
Across the Trusts
Network in England
& Wales**

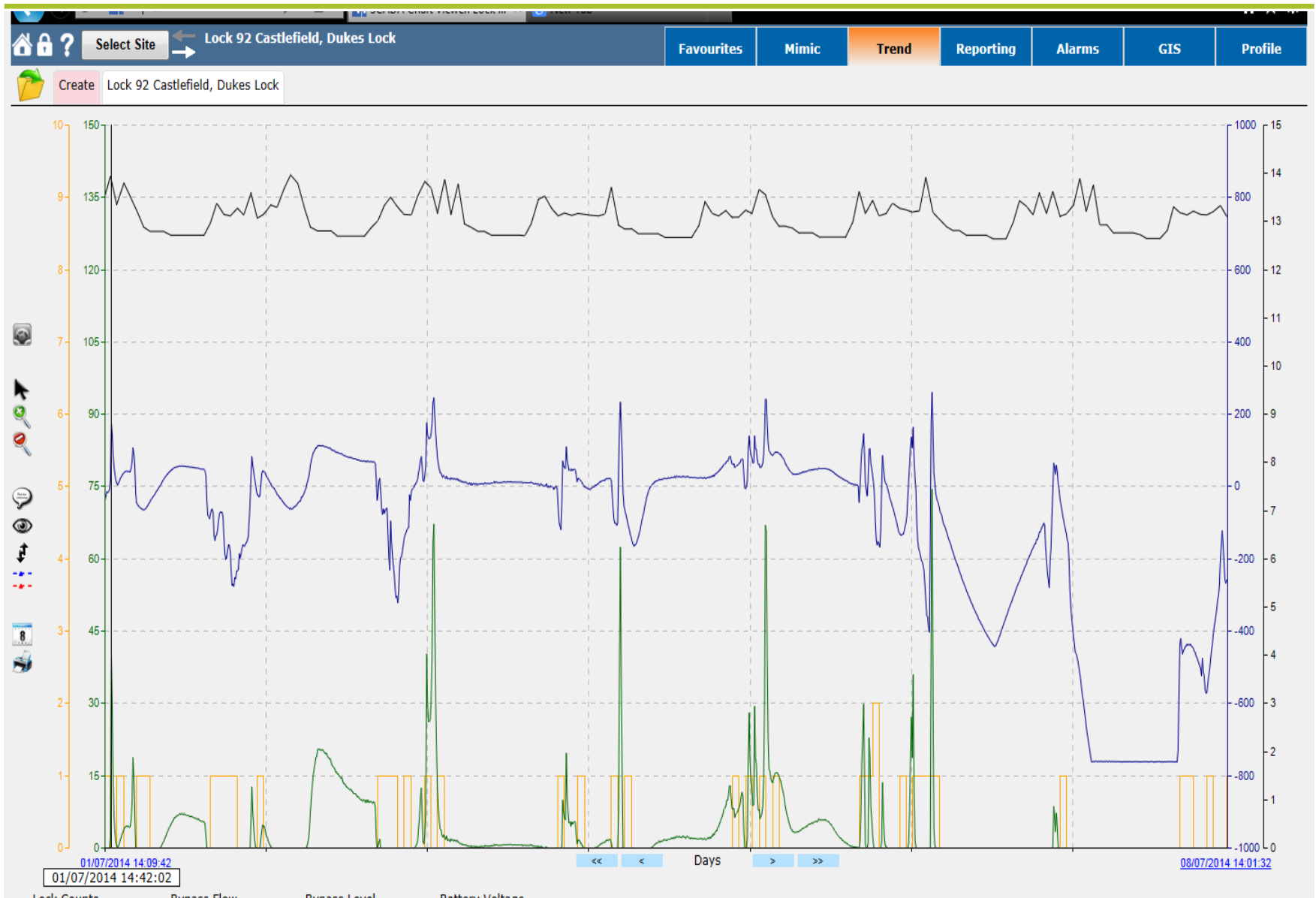
SCADA – Supervisory Control & Data Acquisition



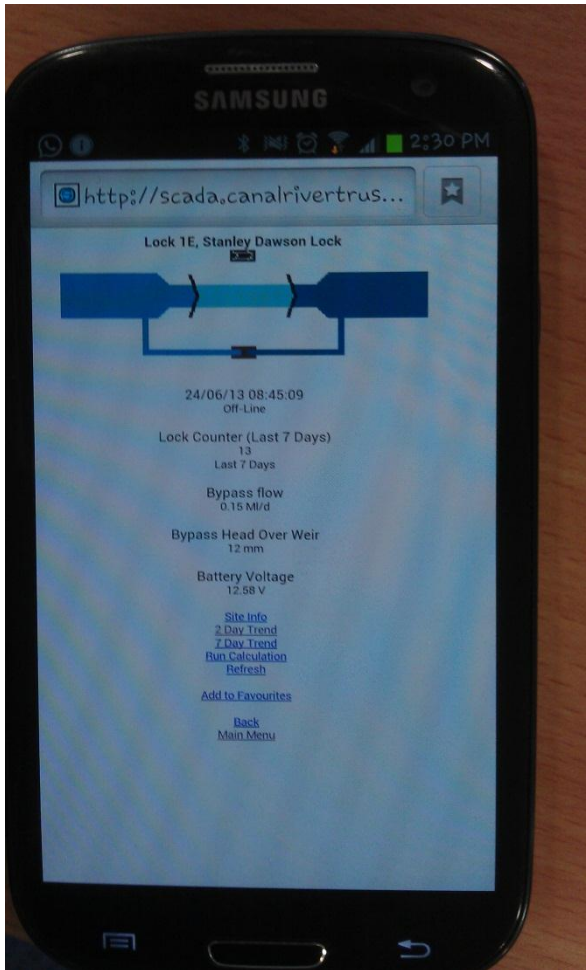
Mimic – Automated Lock



Scada Trend



Scada WAP Access



- View & Poll sites for latest information
- Trend data for 2 or 7 days
- Can be used with Nokia, Samsung, Blackberry & I-Phones

Our SCADA Sites



Monitoring Flow



Measuring Flow & Lockage

Our Pumps

From 2 kilo watts...



**..to over 300 kilo watts
in size**

Our Automated Bridges & Locks

**Three Mills Lock –
Olympic Park**



**Gloucester &
Sharpness Canal**

Recent Works in the North East

- PLC control system upgrade to the Sheffield and South Yorkshire automated locks

Long Sandall Lk
Doncaster Lk
Sprotborough Lk
Mexborough Low Lk
Mexborough Top Lk
Swinton Lk
Kilnhurst Lk
Aldwarke Lk
Eastwood Lk



Recent Works in the North East

- Sowerby Bridge Pumping Station control system upgrade and panel replacement



Current SCADA/ICA Works in the North East

- Oxclose & Rhodesfield Lock Upgrade



Current SCADA/ICA Works in the North East

- Keadby Lock PLC Upgrade
- Salterhebble Bypass Sluice and Flow Monitoring
- Lock 1 Broadreach PLC Upgrade



Future SCADA/ICA Works in the North East

- Tees Barrage control system and remote sites upgrade

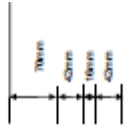



Future SCADA/ICA Works in the North East

- Aire & Calder Leeds Branch PLC Upgrades
Lemonroyd Lock
Woodlesford Lock
- Selby Lock
- Goole Cassion

Future SCADA/ICA Works in the North East

● Integrated Strong Stream Warning System










Welcome To Isis Lock

Navigation Safety Information

The river condition can change without warning. The stretch of river is affected by increased flow and variable heights in water level. Please follow the instructions situated below under "Water Level Indicator".

Guidance For Boats Turning Onto The River Thames At Isis Lock

The helmsman must ensure that the stream conditions are within their capabilities and that space is available to manoeuvre before setting the lock.

Water Level Indicator

Check water level on indicators before proceeding - LED lights are triggered by both water levels and speed of flow. Travel safety.

<input type="radio"/>		<input type="radio"/>	Do Not Proceed Hazardous conditions exist
<input type="radio"/>		<input type="radio"/>	Proceed With Caution Rising water levels - Navigation Conditions liable to change
<input type="radio"/>		<input type="radio"/>	Proceed With Caution Falling water levels - Navigation Conditions liable to change
<input type="radio"/>		<input type="radio"/>	Navigation conditions normal

Emergency Contact Details

In the event of an emergency please call our 24hr emergency contact number:
0800 479 9547

For other non-critical events call customer services on:
0303 040 4640 (Monday to Friday 8am-6pm)

Or email:
customer.services@canalrivertrust.org.uk

Find out more at:
www.canalrivertrust.org.uk

Future SCADA/ICA Works in the North East



[Web Page Link](#)

The End

Thank you for listening

Any Questions?