



UTILITEC

Building Knowledge and Networks

**The Pressure Management & Control Forum
2009-2024 - 15th Anniversary**

At the Leakage Conference Silver Jubilee- 3rd December 2024



Contents

- The Concept of the Forum
- Who attends - *15 Years Ago, February 2009! And most recently, September 2024*
- Where we've been & Non-water company presenters
- Overview and Feedback from the Beginning - *Andrew Chatterley*
- A More Recent Perspective & Key Themes for a PM&C Strategy - *Ronnie Mills*



1st Pressure Management & Control Forum

The 1st Forum in 2009,
hosted by Wessex Water,
started with 8 people...

From *just* 5 water
companies!

The premier Leakage
Managers of their time!!



Pressure Management & Control Forum
Thursday 26th February 2009
Wessex Water, Claverton Down, Bath

- | | |
|----------------------|--------------------|
| 1. Willie Abu Judeh | Anglian Water |
| 2. Ken Maddison | Northumbrian Water |
| 3. Keith Allan | Scottish Water |
| 4. Gordon Hall | Welsh Water |
| 5. Andrew Chatterley | Wessex Water |
| 6. Derek Buckland | Utilitec Services |
| 7. Steve Drury | Utilitec Services |
| 8. Luke Thornton | Utilitec Services |



Pressure Management & Control Forum

The last one in
September 2024 had
35 people...

From **16** water
companies!!



Pressure Management & Control Forum
Thursday 12th September 2024
Severn Trent Water, Edgbaston

- | | | | | | |
|-----|--------------------------|---------------------------|-----|-----------------------|---------------------------|
| 1. | Tracy Sweeney | Northumbrian Water | 19. | Joshua Chalmers | South Staffordshire Water |
| 2. | Stacy Lambourne | Northumbrian Water | 20. | Chris Reichl | Affinity Water |
| 3. | John <u>Lapatrie</u> | United Utilities | 21. | Wayne Novelli | Southern Water |
| 4. | Ronnie Mills | Yorkshire Water | 22. | Joshua Davies | Thames Water |
| 5. | Adam Bose | Yorkshire Water | 23. | Akshat Sharma | Thames Water |
| 6. | Thomas Dixon | Welsh Water | 24. | Matt Burrows | Portsmouth Water |
| 7. | Jamie <u>Angelinetta</u> | Bristol Water | 25. | Rob King | SES Water |
| 8. | Lyndon Allen | Bristol Water | 26. | Julia Ford | <u>South East Water</u> |
| 9. | Karl Little | <u>South West Water</u> | 27. | Luke Jones | Cape SPC |
| 10. | Jamie Axten | Wessex Water | 28. | Hannah Wardle | Fido Tech |
| 11. | Peter Craig | Manx Utilities | 29. | Paul Parr | Fido Tech |
| 12. | Chris Bayles | Severn Trent Water | 30. | Max Thornton Webley - | Fido Tech |
| 13. | Sean Currie | Severn Trent Water | 31. | Andrew Chatterley | Technolog |
| 14. | Stephen Lines | Severn Trent Water | 32. | Vernon Probert | Utilitec Services |
| 15. | Mike Perry | Severn Trent Water | 33. | Ben Armory | Utilitec Services |
| 16. | Nigel Rose | Severn Trent Water | 34. | Derek Buckland | Utilitec Services |
| 17. | Philip Roberts | South Staffordshire Water | 35. | Luke Thornton | Utilitec Services |
| 18. | Eleanor Steed | South Staffordshire Water | | | |



Forums hosted to date:- 55

Anglian Water - 5
Northumbrian Water - 4
Scottish Water - 4
Severn Trent Water - 4
United Utilities - 4
Welsh Water - 4
Yorkshire Water - 4
Affinity Water - 3
Bristol Water - 3
South West Water - 3
Thames Water - 3
Wessex Water - 3
SES Water - 2
South East Water - 2
South Staffordshire Water - 2
Southern Water - 2
Dee Valley Water - 1
Manx Utilities - 1
Utilitec - 1





Forums hosted to date:- 55

- 1st meeting in Wessex
- 55 face to face meetings all around the UK
(*Bath / Birmingham / Bradford / Brighton / Cardiff / Chester / Darlington / Durham / Edenbridge / Edinburgh / Exeter / Glasgow / Hatfield / Isle of Man / Leeds / Lichfield / Lincoln / Liverpool / Manchester / Matlock / Newcastle / Norwich / Poole / Reading / Redhill / Rugby / Stamford / Stratford / Swindon / Tunbridge Wells / Warrington / Warwick*)
- Plus a couple of virtual meetings-COVID
(carefully organised virtual industry discussion)





Non-water companies who have presented at the Forum over the years ...





Andrew Chatterley





The journey begins

- A full asset data set
- Better reporting
- Increasing skills & knowledge
- Ownership
- Maintenance regime in-place
- Benefits from insourcing expertise when needed
- Leakage savings
- Safeguarding a fragile network
- Significant contribution towards the target
- Sound strategy and plans for the future
- New products trialled
- Moving forwards again.....



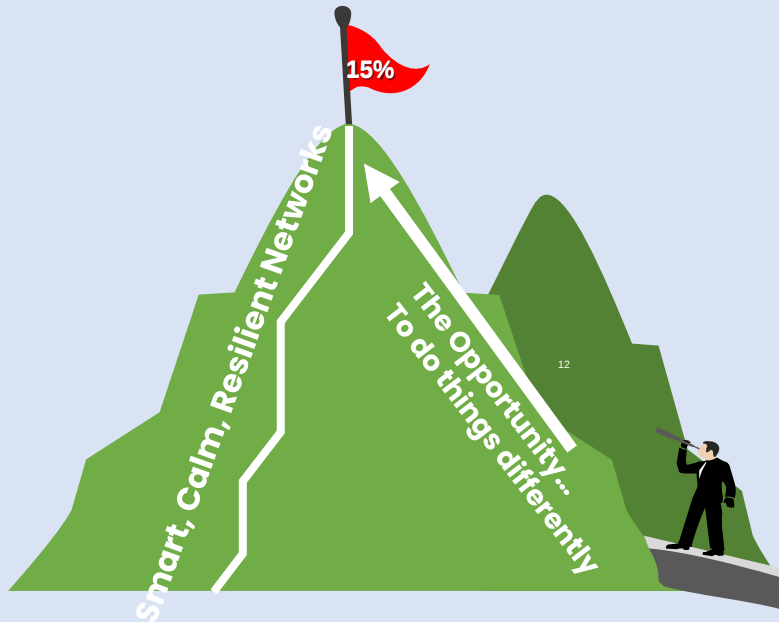
Ronnie Mills – Yorkshire Water



YorkshireWater

AMP7 & CMA...

- Target 15% Reduction in Leakage
- Do something different, not just ALC
- AMP7 Transformation Programme
- Smart, Calm, Resilient Networks



*Smart Asset BIM
Upstream &
Pressure Mgt.*

The Plan....

- ✓ PM – Do more of it
- ✓ Increase Smart Network Maturity
- ✓ Reduce Regional AZNP
- ✓ Maintain a Calm Network

Recruit Team & work closely with Utilitec



We own it



We're better
together



We have
heart

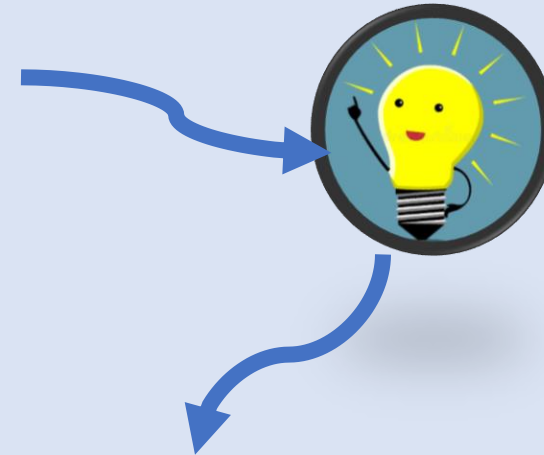


YorkshireWater

Pressure Management & Control Forum



- *Knowledge*
- *Experience*
- *What worked..*
- *What didn't!*



People
Process
Policies,
Comms to consider....

4 Takeaways....

1. Dedicated PM Team
2. Create a PM Strategy
3. Get Snr Leaders to sign up to it
4. Comms Plan for the Business



We own it



We're better
together

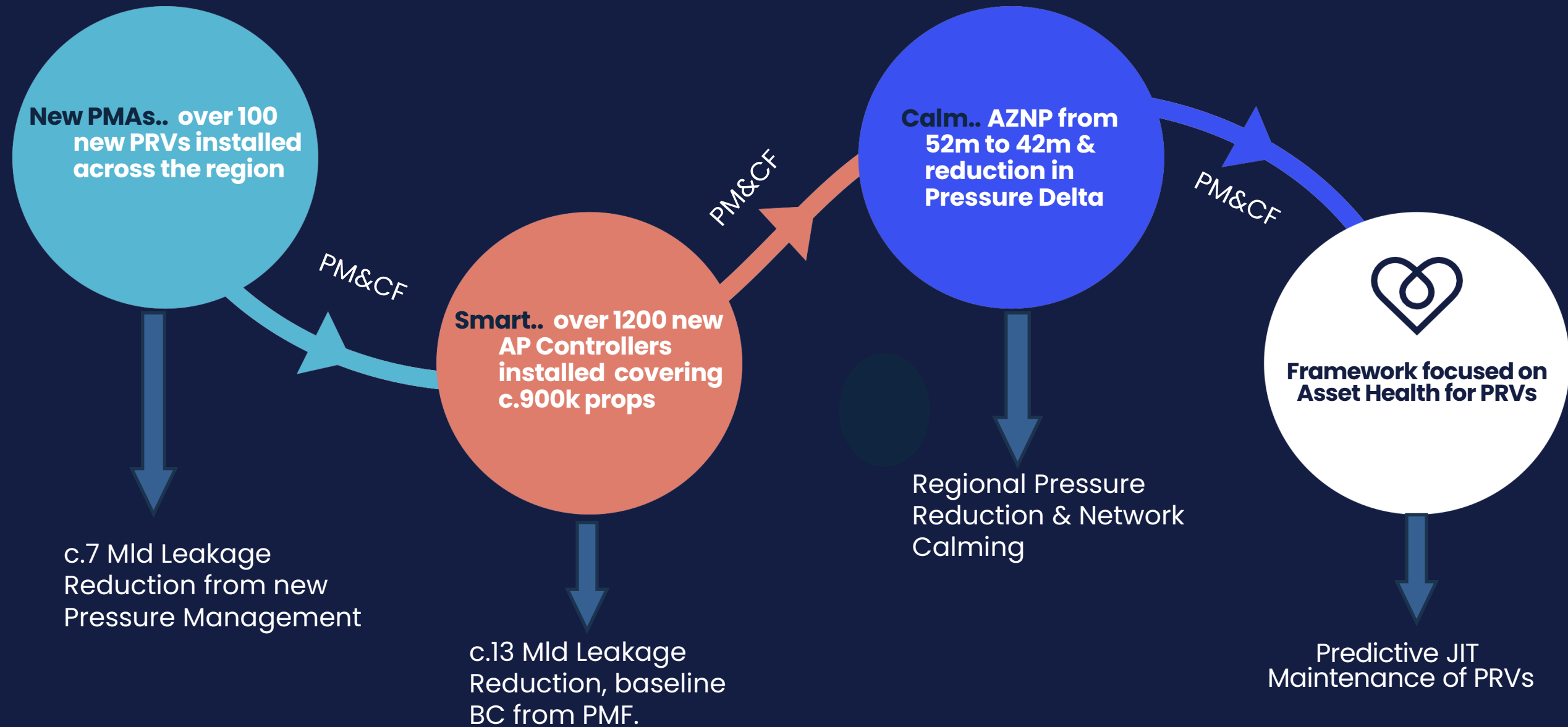


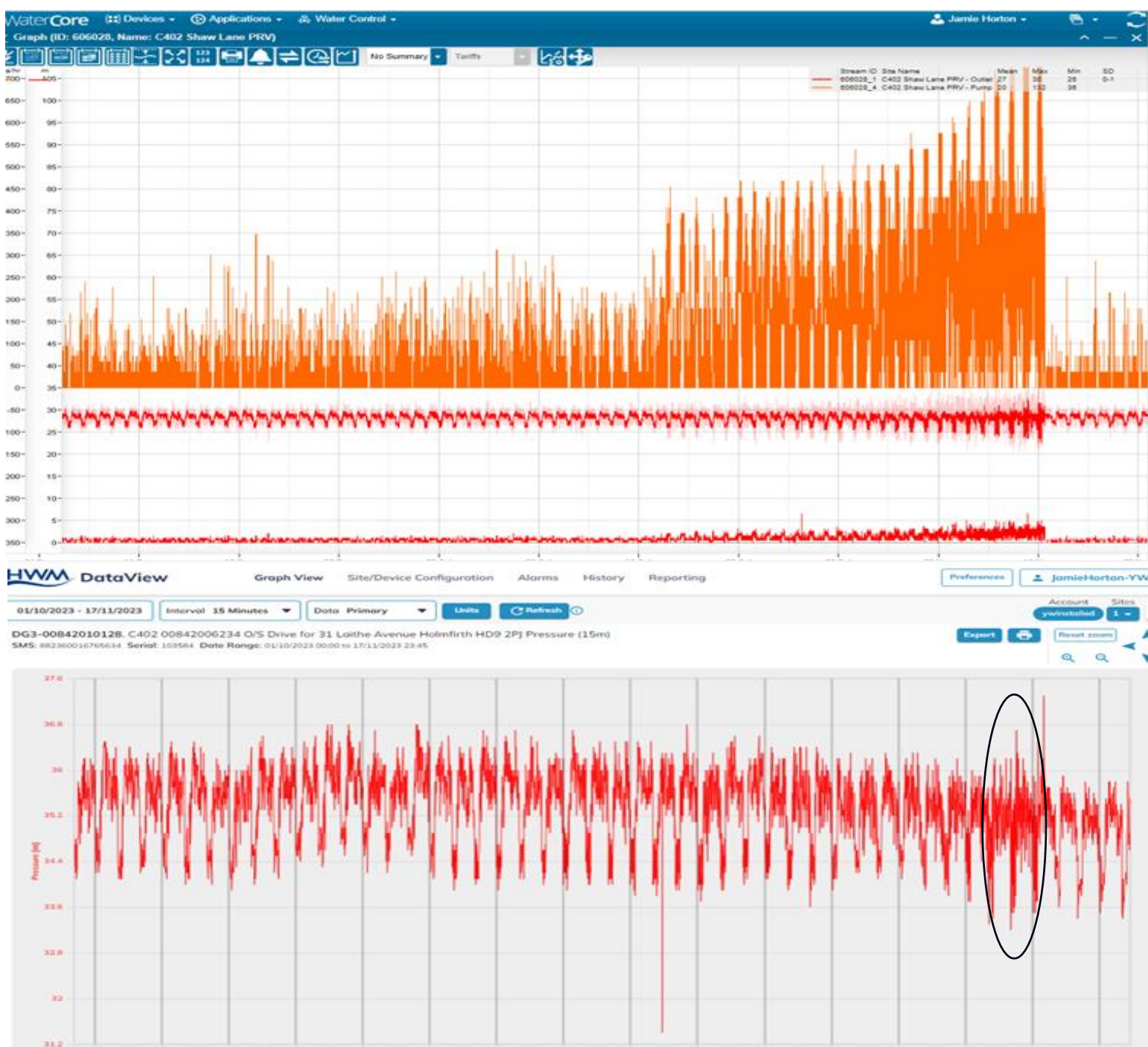
We have
heart



YorkshireWater

3 Years later...





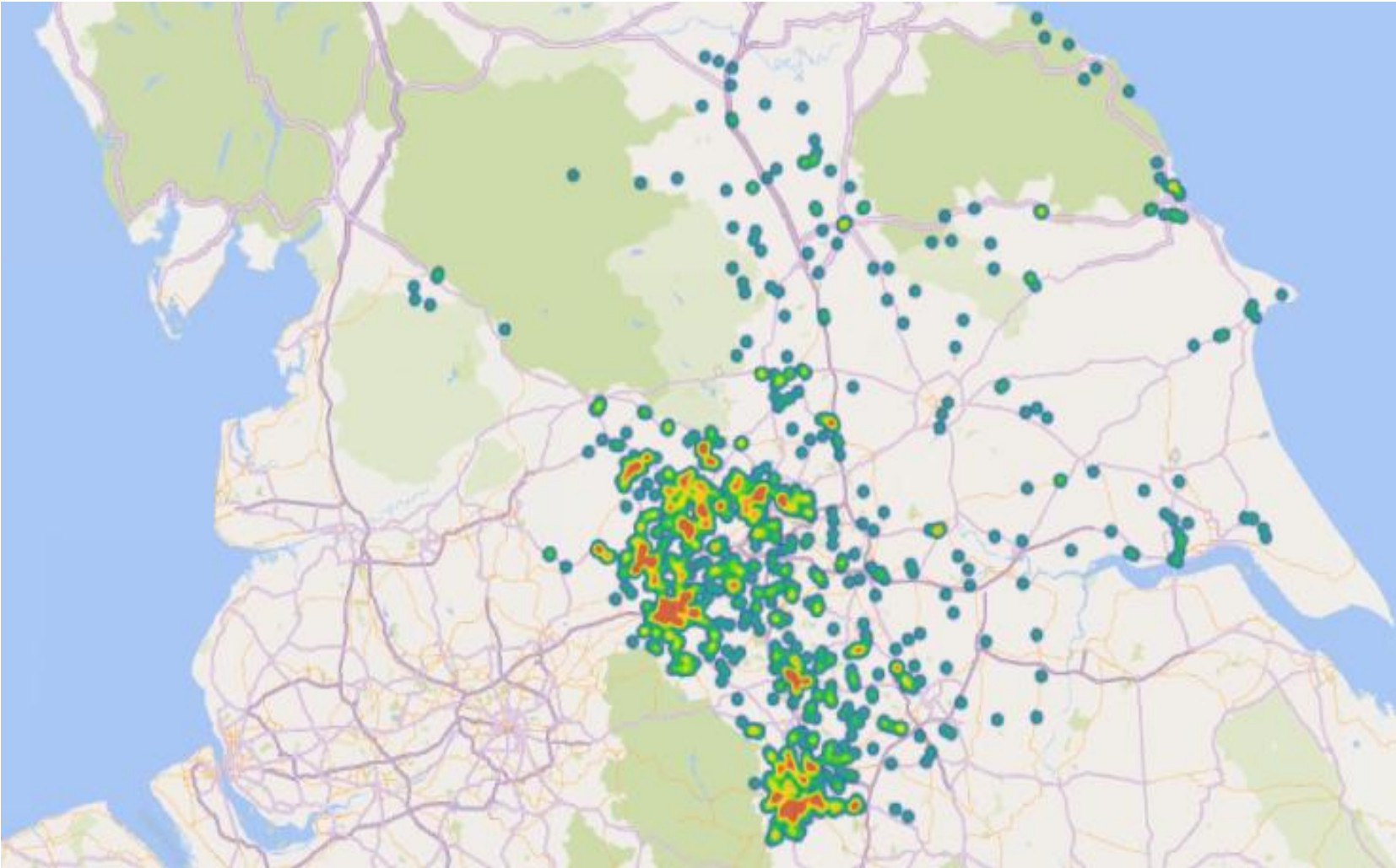
- Controller working harder to operate PRV – orange line
- PRV outlet starts to fluctuate – middle red
- SD of Pressure – bottom red
- Water Core alarms signalling issue
- PRV maintained before failure
- Predictive, JIT Maintenance

Our logger at CP over same period in HWM, only small change shown by thicker red – No alarm in Viznet, no alert in Netbase for Analyst to intervene.

Result – PRV would have failed causing bursts/no waters



Regional Controller Locations



Yorkshire has a catchment of 72,000 acres

Previous Proactive Maintenance would target maintenance on 800 PRVs

Since April 238 completed 0 failures through asset deterioration
Operability between 95–97%

Over 50% saving on maintenance to date
c.£300k saving to date





Key Themes for a Pressure Management & Control Strategy

1. **Buy In** - and support from the Business and from the Senior Team
2. **Put a Clear Strategy in Place** - you need a plan to work to and develop with
3. **Dedicated Team** - Whether in house or externally supplied - this is a must!
4. **SMARTER Networks are essential for future Pressure Management & Control Strategies** - *for Visibility of the Network, Security of Supply, Resilience, Network Calming & Reduced Leakage*