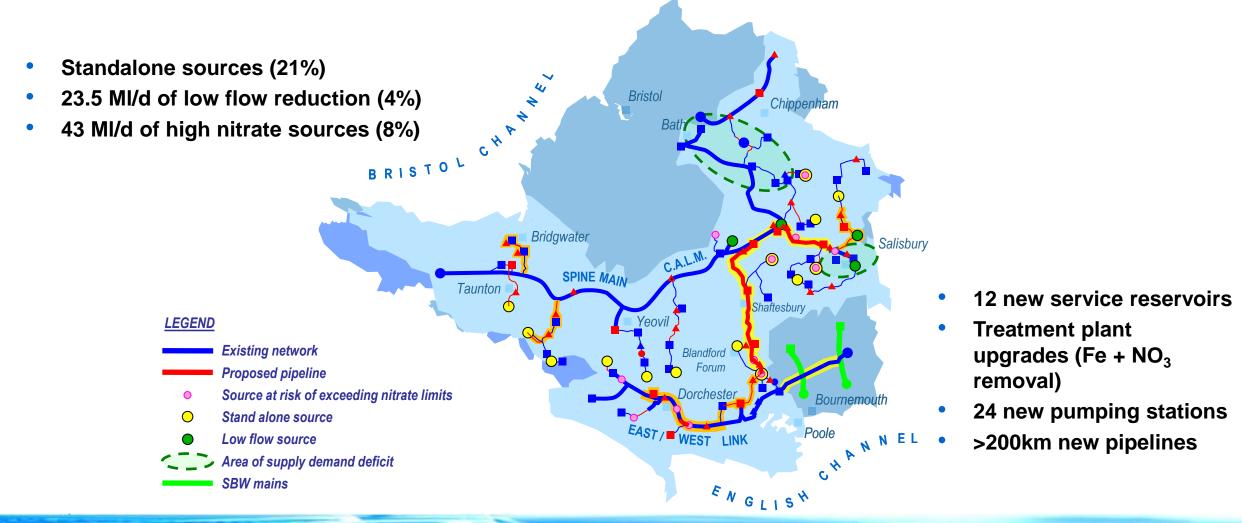


Wessex Water's New Supply Grid and Optimiser

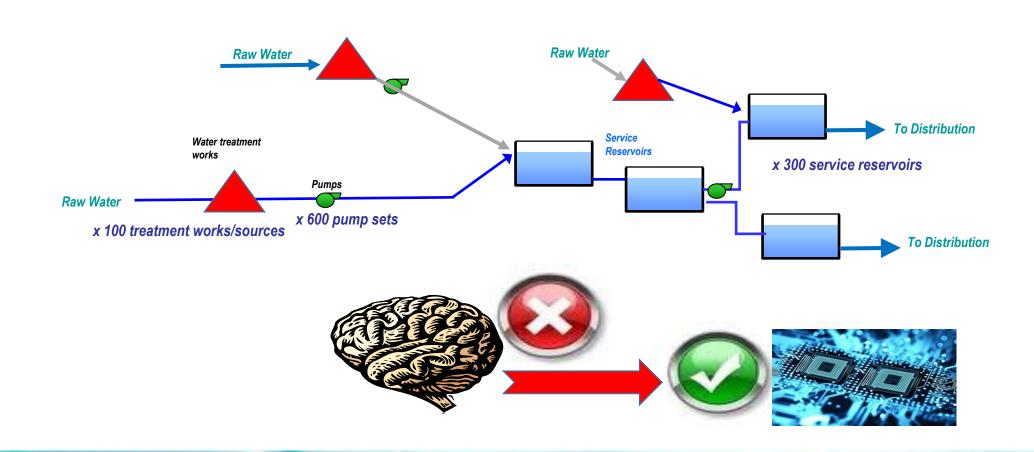
Martin Wood, Grid Design Manager – Wessex Water

Marcus Fowler, Technical Director – Servelec Technologies

Wessex Water's New Supply Grid



New Flow Optimiser Needed



What is the Optimiser?

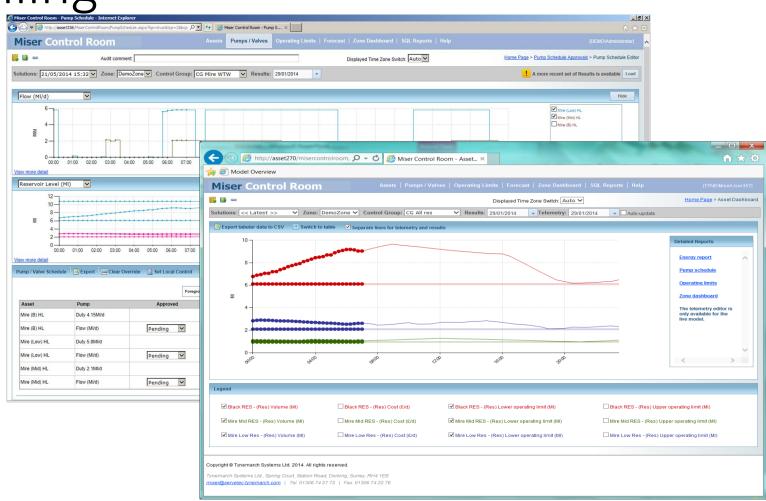
- Pump scheduling software
- Monitors demands, flows and reservoir levels
- Forecasts demand up to 72hrs ahead, every 30 minutes
- Produces pump schedules for next 48hours
- Holistic looks at all the sites under its control

Benefits of the Optimiser

- Improved security of supply
- Efficient transfer of flows in a complex system
- Savings made avoiding Triads and Duos periods
- Optimal outage planning
- Optimal blending ratios for nitrate sources
- Reduced call outs out-of-hours

Predictive Modelling

- Continually updates
- Export control signals
- Maintain reservoir levels
- User overrides
- Respond to events
- Forward looking
- Security of supply
- Water quality
- Load balancing
- Maximise performance



Key Learning Points

- Collaborative Teamwork required
- Detailed End to End testing pays dividends
- Use expertise of each of your teams
- Engagement with Servelec Technologies
- Ensure adequate server power
- Communication and training is critical
- Manual input required daily
- Business Transformation required different way of working!