

apse

online seminar

APSE Central Region Event

Building Resilience and Strengthening Communities



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Life doesn't get easier...we get stronger!

APSE Central Region Event

Kully Boden and Scott McDonald

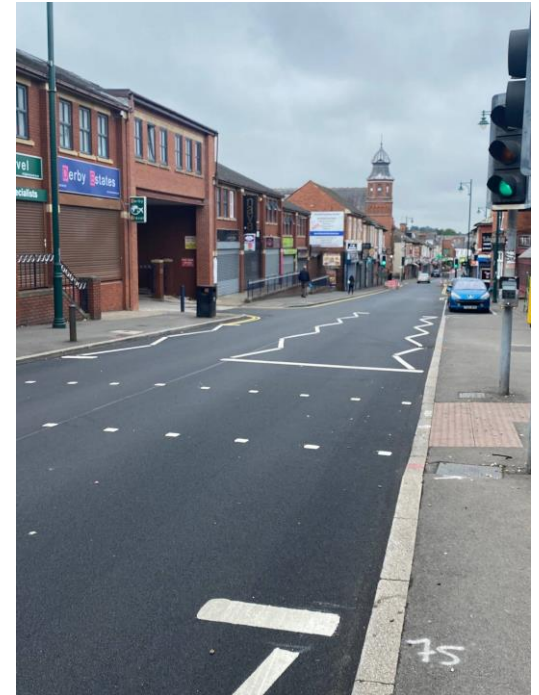
Tuesday 15th December 2020



Derby City Council

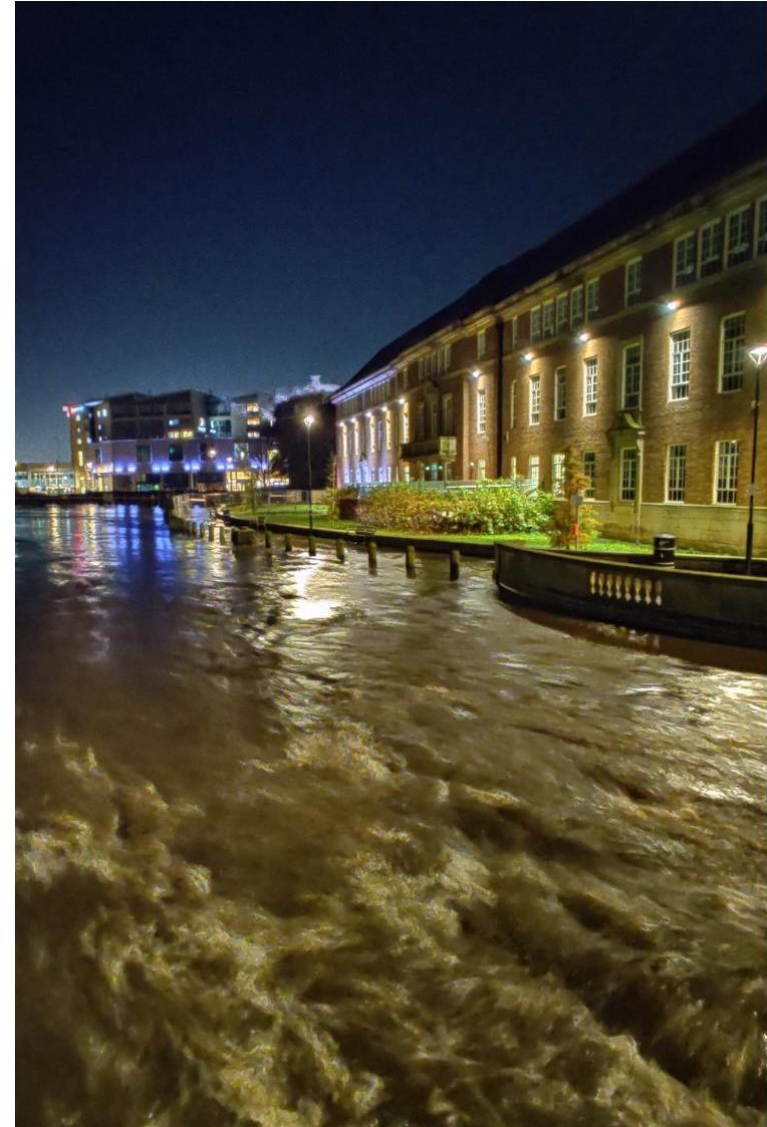
What we'll cover..

- Introducing a risk-based approach to **highway drainage**
- Evolving our **winter service**
- Building on our strengths – a **planned maintenance** approach to highway repairs



Drivers

- Medium Term Financial Plan
 - COVID Recovery Plan
 - Balanced Budget
 - Invest to Save Initiatives
 - Accountability
- Corporate Priorities
 - Sustainability (November 2019 Floods)
 - Asset Management
 - Risk Based Approach
- Kully's Degree
 - Project with Impact
- New Management
- Focussing on the things that matter
 - Workforce morale



Highway Drainage

Defect	17,000 surveyed	Projected for whole network - (estimated, 44,000)
Defective grates – either cracked or broken	20%	8,800 which could require maintenance work – needs further prioritisation
Solid detritus – nowhere for surface water to drain	22%	Nearly 10,000 across the network need attention to reduce flooding
Silt levels below 300mm	80%	Only 8,800 across the whole network need more routine maintenance or monitoring
Inaccessible – or inspecting, cleaning or jetting	1%	The number is less than 500, so a targeted programme of inspection and maintenance is feasible



Highway Drainage..

Outputs

- Full inventory of gully asset location, attributes and condition (42k+)
- A project plan for the remainder phases
- **An understanding through secondary research that Derby are not as behind as we thought**
- **A generated saving over ten years, between just under £1m and £1.6m**
- **£100k saving put forward for one of two gully wagons and two operatives as part of MTFP**
- Introduction of IT to maintain inventory and cleansing activities

Outcomes

- **The project supports national research in that 80% of the network is in good working order, therefore 80% reduction in cleansing**
- **improved morale of workforce – focussing on the things that matter**
- Buy in from stakeholders – developing associated programmes of repair



Winter Service

- Winter Service Policy adopted by Cabinet in Nov 20
- A service review over summer resulted in a **reduction from six main routes to four**
- **Three routes on marginal nights** on cold spots – half the costs
- **Thermal mapping** - accurate road temperature profiles to identify which sections of road are likely to freeze first - predict with confidence
- Five new vehicles purchased, calibrated, routes preloaded on sat navs and **automated salting**. A Multihog has a rear mounted salt spreader, de-icing sprayer or snow plough
- A full salt barn holding 4000 tonnes of **pre-treated salt** (purchased in summer when its cheaper)
- 20,000 litres of **liquid de-icer** for footway treatment
- 192 salt bins across the city
- Eight **trained and qualified drivers** on rotational standby shifts and five **competent Decision Makers**



Planned Maintenance

- Tripling our productivity
- Reduction of cost per square meter of repairs
- Investment in equipment to take us forward making the service more resilient.
- Empowerment of staff to achieve better and think outside the box





Thank you

Kully Boden

Streetpride Service Manager (Highways)

Derby City Council



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