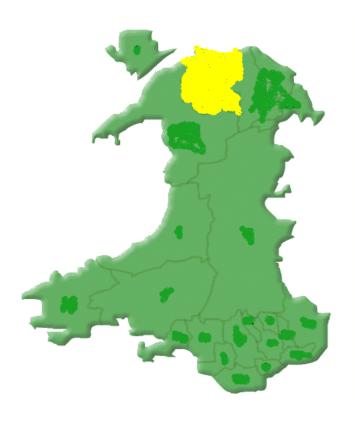
Highways Asset Management

Transparency in Operations, Evidence Based Decision Making

Sophie Birchall
Senior Management Information Systems Officer



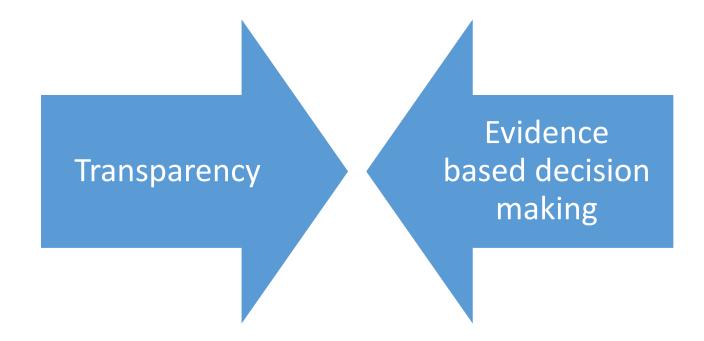
Conwy County



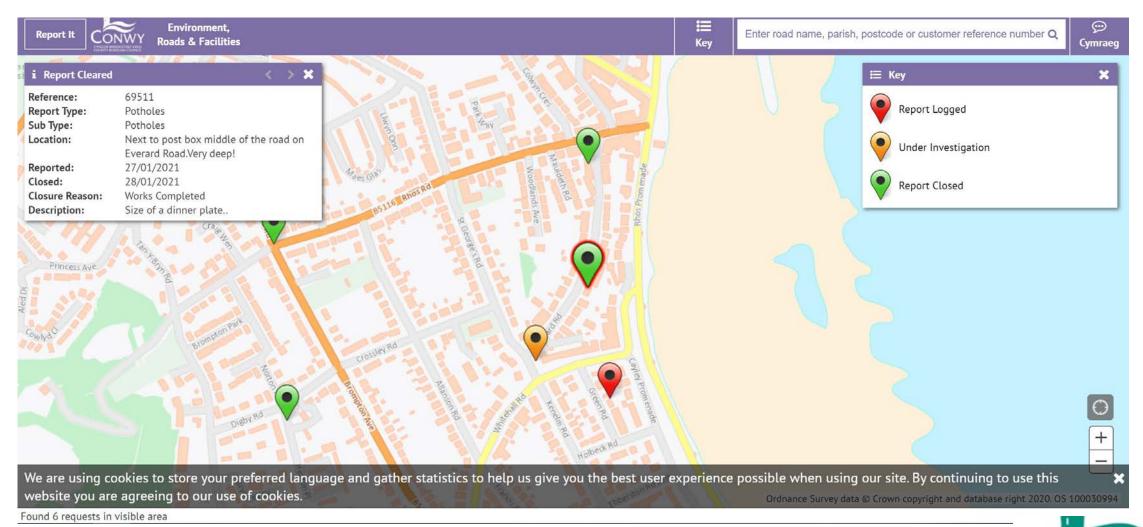
- Population 116,000
- Towns Llandudno, Colwyn Bay, Conwy
- 1,688km highway network
- 16,356 street lights
- 570 bridges
- 795 hectares of parks and green spaces
- 20% of artificially protected coastline in Wales



Conwy's Vision...



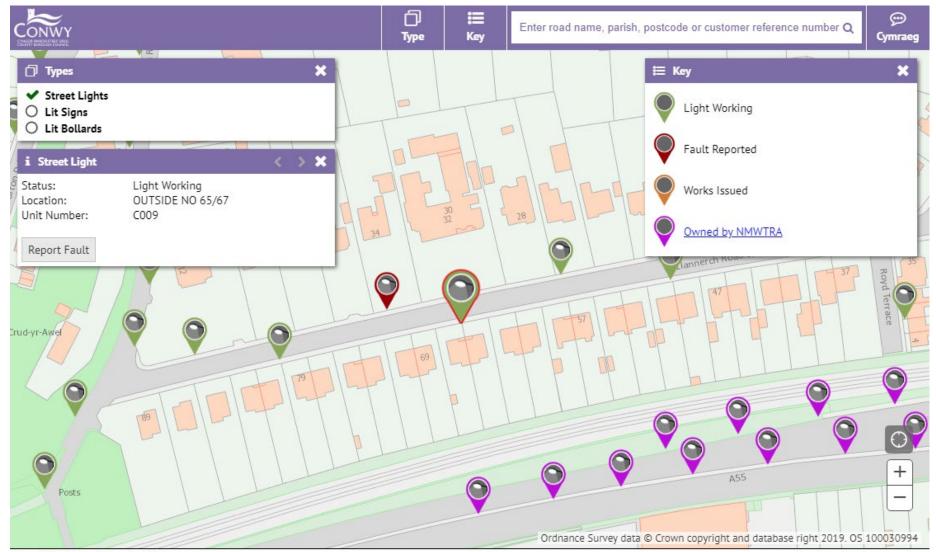




CONWY

CYNGOR BWRDEISTREF SIROL
COUNTY BOROUGH COUNCIL

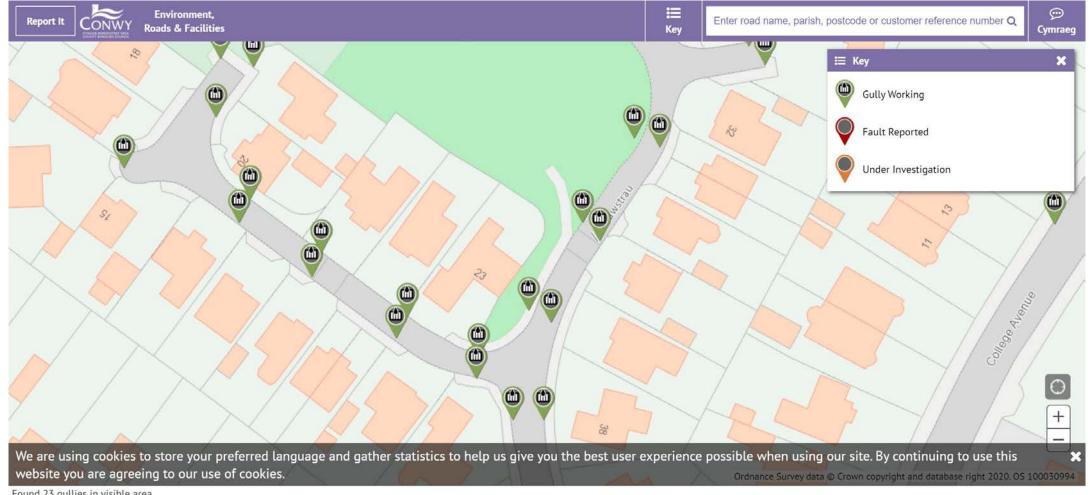
Street Lighting Asset based portal, shows all street lighting units themed by their operational status





Found 28 Street Lights in visible area

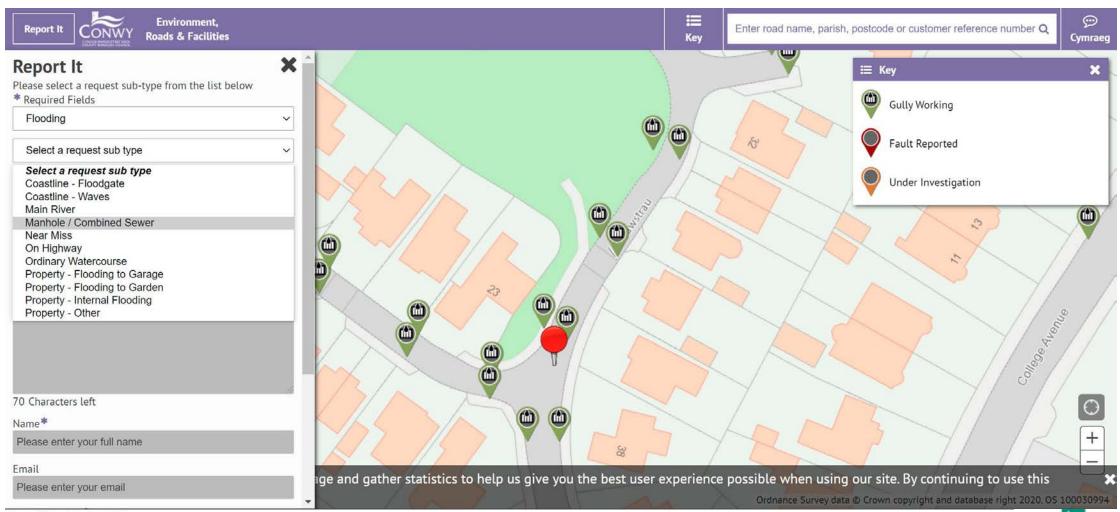
Flood Risk



Found 23 gullies in visible area



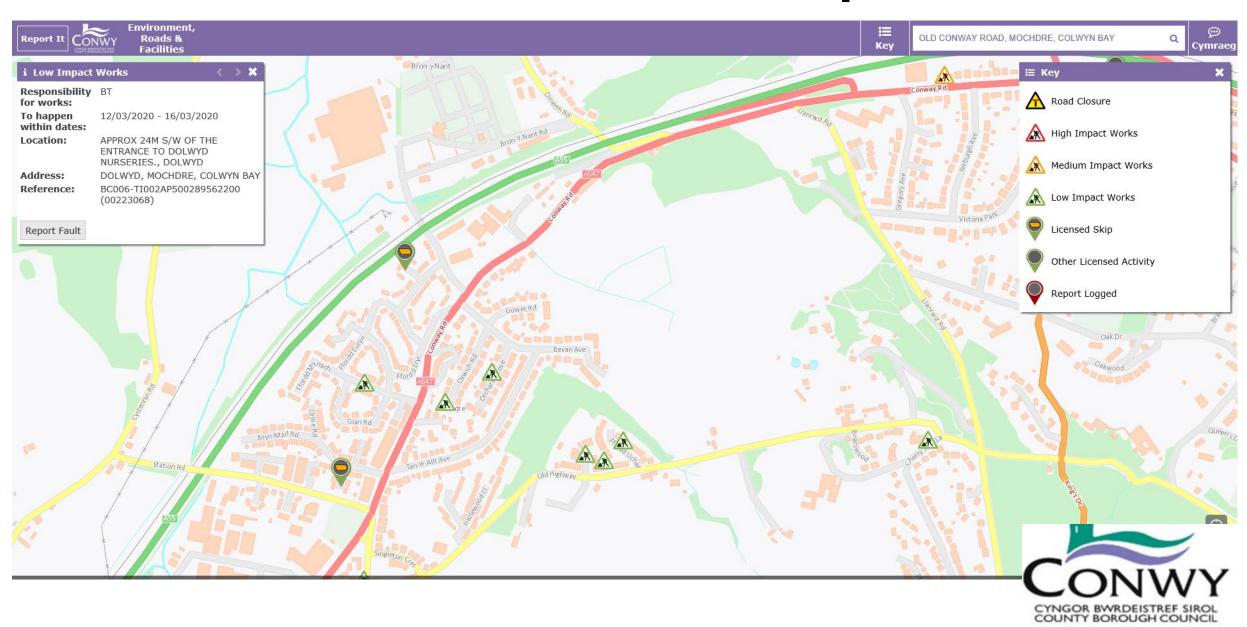
Flood Risk



Found 23 gullies in visible area

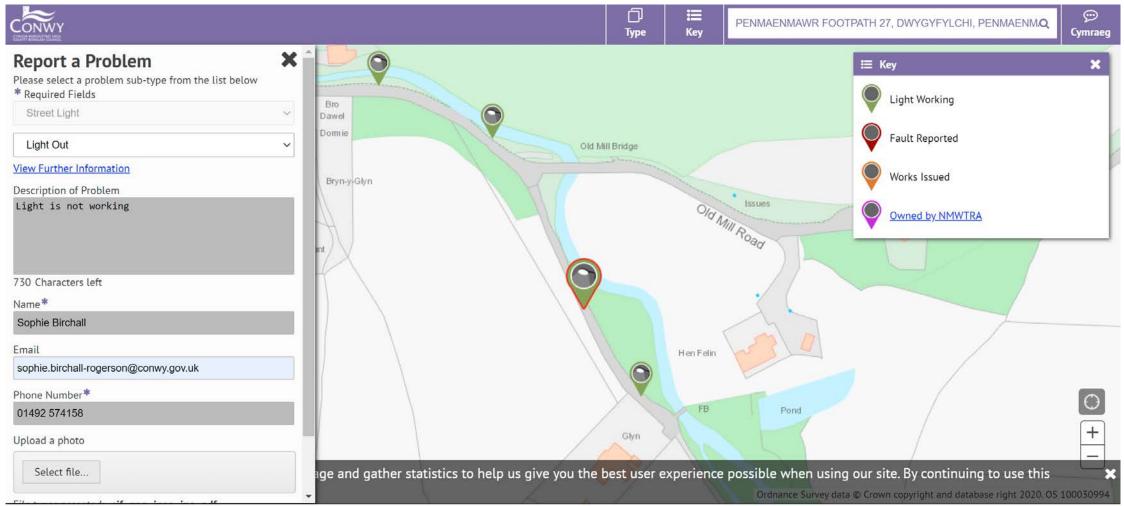


Streetworks



Example

Submitting a report via Street Lighting Portal



Found 6 Street Lights in visible area





Customer Email

From: No-reply.erf@conwy.gov.uk < No-reply.erf@conwy.gov.uk >

Sent: 27 February 2020 21:36

To:

Subject: Cadarnhau adroddiad: Goleuadau Stryd, PENMAENMAWR FOOTPATH 27 / Confirmation of report: Street Lights, PENMAENMAWR FOOTPATH 27



Adran yr Amgylchedd, Ffyrdd a Chyfleusterau "Darparu amgylchedd gwell"

Diolch i chi am roi gwybod i ni am y broblem hon, sydd wedi'i chydnabod a'i hanfon at sylw'r tîm priodol.

Efallai y bydd angen i ni gysylltu â chi am ragor o wybodaeth fel y gallwn ymchwilio i'r mater ymhellach.

Manylion eich adroddiad: Cyfeirnod: 00058388 Dyddiad adrodd: 27/02/2020 Math o ddiffyg: Golau ddim yn gweithio Disgrifiad o'r diffyg: Light is out not working

Os hoffech olrhain cynnydd eich adroddiad, dilynwch y ddolen hon: https://erf.reporting.conwy.gov.uk/cy?id=00053130.

Diolch yn fawr,

Tîm Cyngor i Gwsmeriaid Adran yr Amgylchedd, Ffyrdd a Chyfleusterau Cyngor Bwrdeistref Sirol Conwy



Environment, Roads & Facilities "Delivering a better Environment"

Thank you for reporting this issue which has been acknowledged and sent to the appropriate team for action.

We may need to contact you for additional information to enable us to investigate further.

Your report details: Reference: 00058388 Date reported: 27/02/2020 Fault type: Light Out

Description of fault: Light is out not working

If you wish to track progress of your report, please use the following link: https://erf.reporting.conwy.gov.uk/en?id=00053130.

Kind Regards,

Customer Advice Team Environment, Roads & Facilities Department Conwy County Borough Council

Street Lighting Team Email

From: Symology [mailto:symology@conwy.gov.uk]

Sent: 27 February 2020 21:37

To: Street Lighting <street.lighting@conwy.gov.uk>

Subject: Customer Service Action STLIGHTS Recorded on Request 58388

CRNo	00058388
Action code	STLIGHTS
Action Due Date/Time	05/03/2020 21:36
Action Description	
Action Initiated by	REPORTIT
Address	PENMAENMAWR FOOTPATH 27
Address 2	DWYGYFYLCHI
Location	
Request Description	Light is out not working
Request Recorded Date/Time	27/02/2020 21:36
Request Type	STLO - Lamp out-Streetlight
Customer Name	s
Customer Telephone Number	• .
Customer E-mail	@hotmail.com

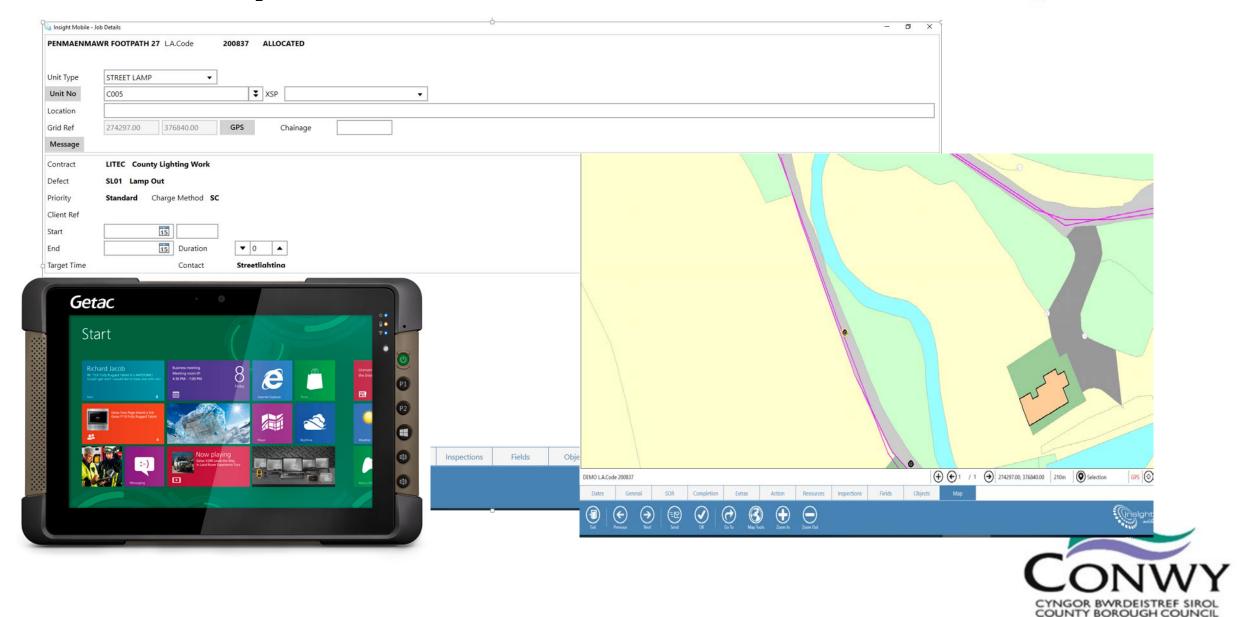
Use the notification list on the desktop to access this request directly.

3 seamless transactions take place when request is submitted

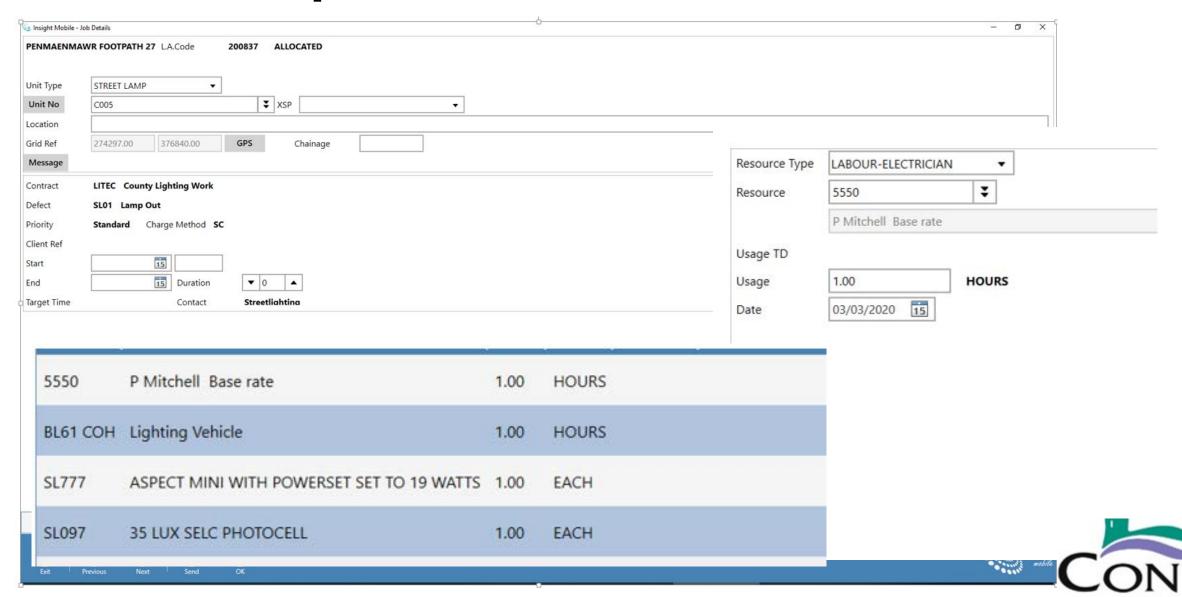
Works/Inspection

Portal update



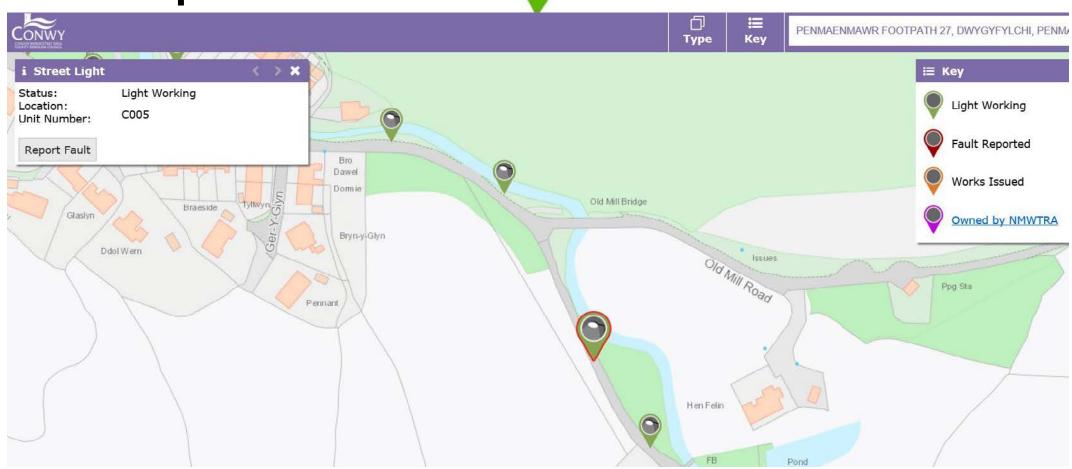


Works completion



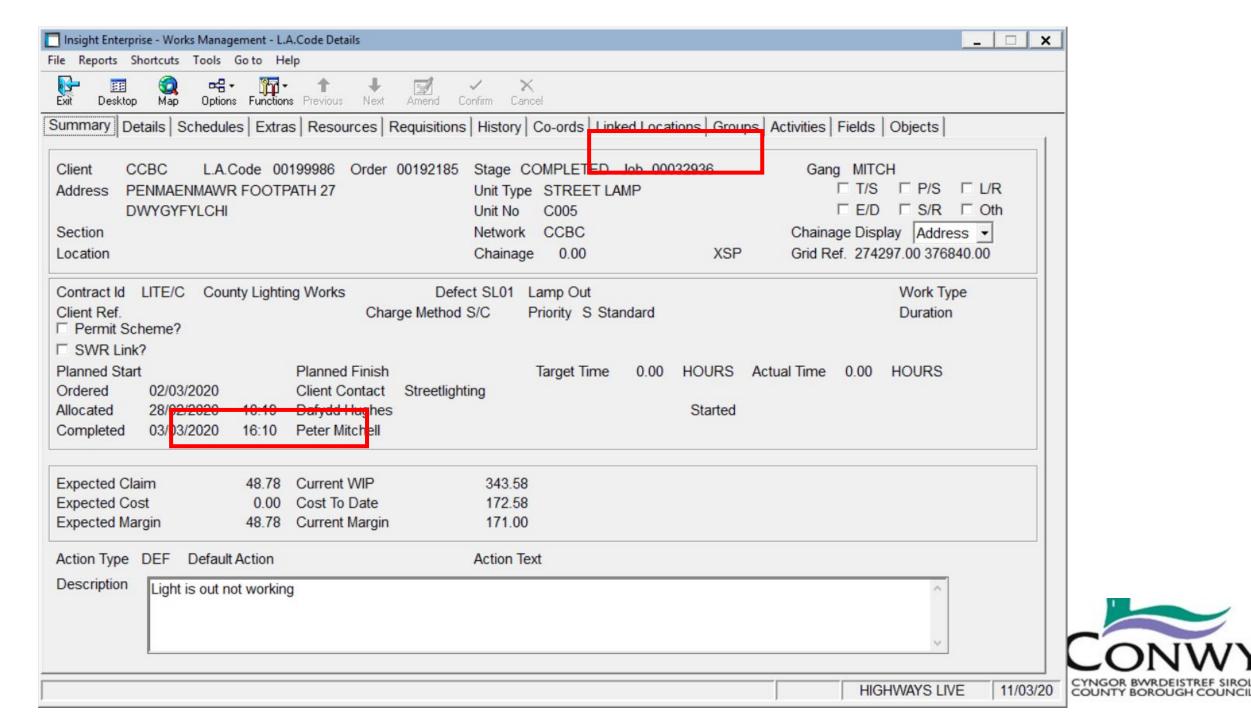
CYNGOR BWRDEISTREF SIROL COUNTY BOROUGH COUNCIL

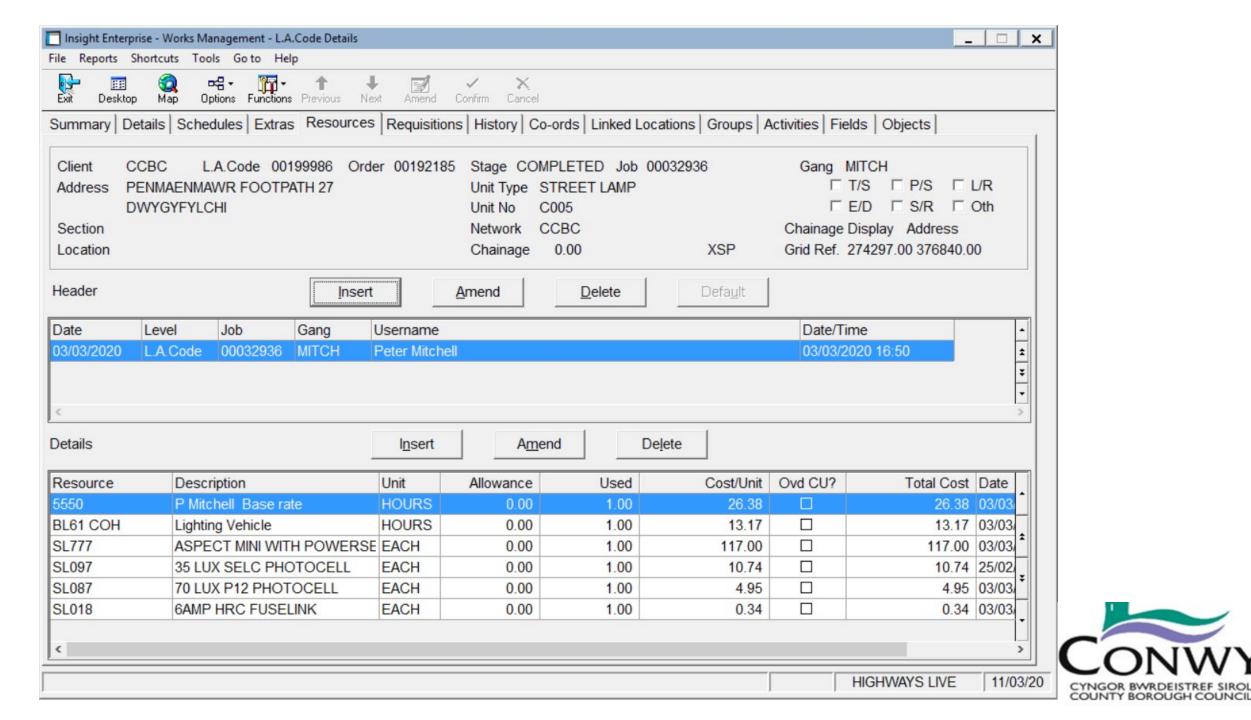
Portal updated



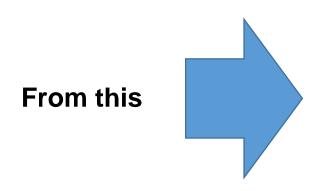






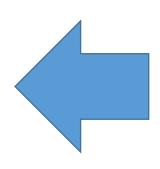


Asset Inventory



Attribute Title	Mnemonic	Attribute Value
Lantern Manufacturer	LI21	Thorn
Lantern Matrix	SLMX	Jet 2
SHIELD	SHI	
Lamp type	LI26	PL-T - Low Press. Mercury(Compact) -Sgl
Lamp wattage	LI27	42 Watts
Total Circuit Wattage	LI29	47 Watts
Cable Regime	SLCB	
Earthing Type	LI78	
Protective Device	LI79	
Protective Device Rating	SL82	
Polarity OK	LI81	
Double Pole Isolation	LI90	
<		•

Attribute Title Mnemonic			Attribute Value		
Lantern Manufacturer		LI21	Thorn		
Lantern Matrix		SLMX	Jet 2		
SHIELD		SHI			
Lamp type		LI26	PL-T - Low Press. Mercury(Compact) -Sgl		
Lamp wattage		LI27	42 Watts		
Total Circuit Wattage		LIZO	77 Watts		
Cable Regime		SLCB	DNO		
Earthing Type		LI78	TN-S		
Protective Device		LI79	6		
Protective Device Rating		SL82			
Polarity OK		LI81			
Double Pole Isolation		LI90			
<			.t.		



To this



Benefits across Highways & Street Lighting

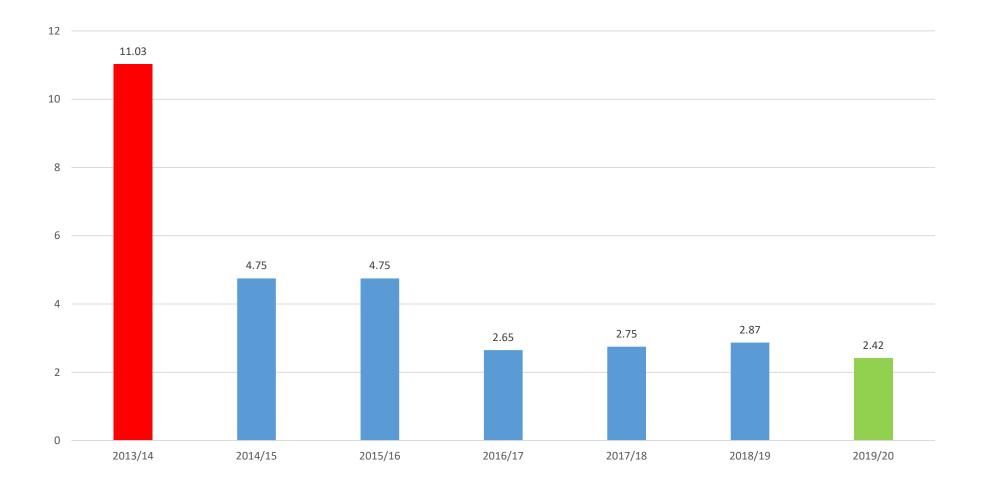
- Accurate location details
- Quicker locating faults
- Reduced administration/officer time
- Financial savings
- Transparency
- Consistency





Street Lighting KPI

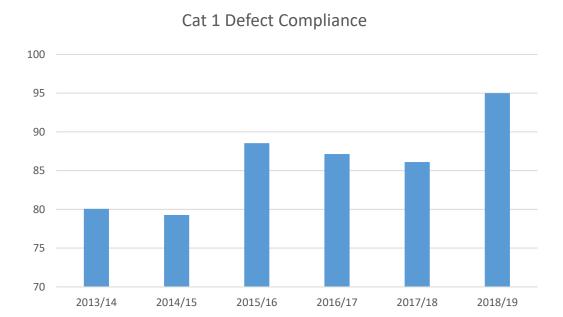
Average time (in days) taken to restore lanterns to full working order



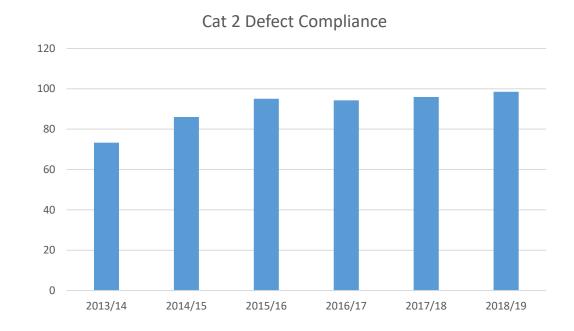
2013/14- 11 days 2019/20 - 2.4 days



Highway Maintenance- Footway Defect Compliance



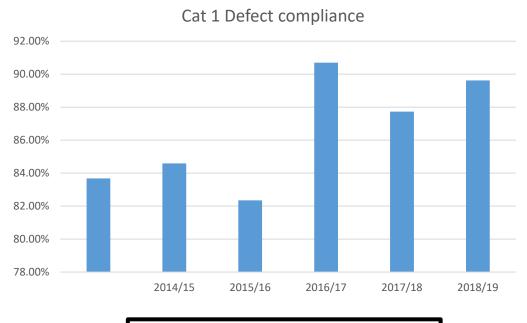




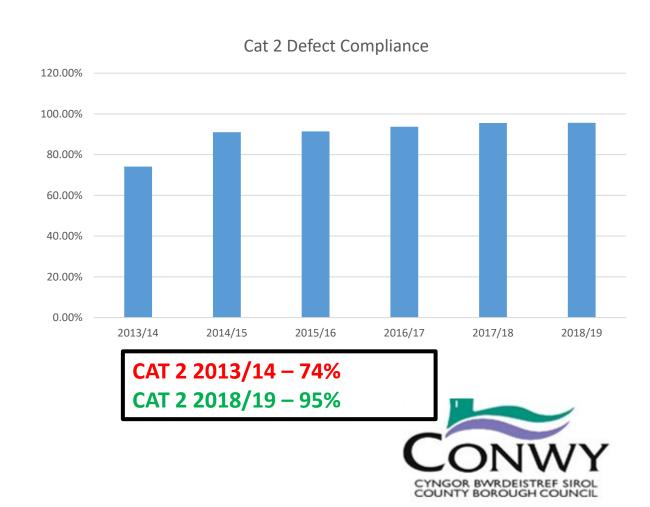
CAT 2 2013/14 - 73% CAT 2 2018/19 - 98%



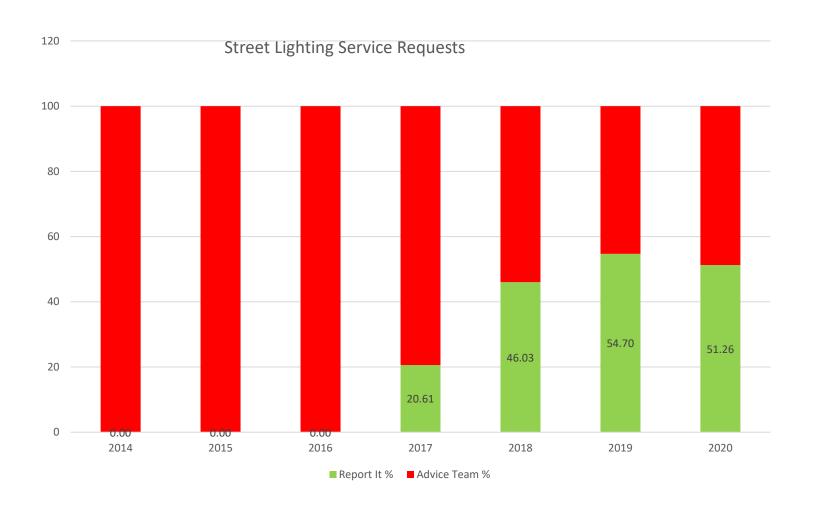
Highway Maintenance- Carriageway Defect Compliance



CAT 1 2013/14 - 83% CAT 1 2018/19 - 89%



Channel Shift – Street Lighting



Socitm 2012, suggest

- £2.83 per phone call
- £0.15 per online visit.

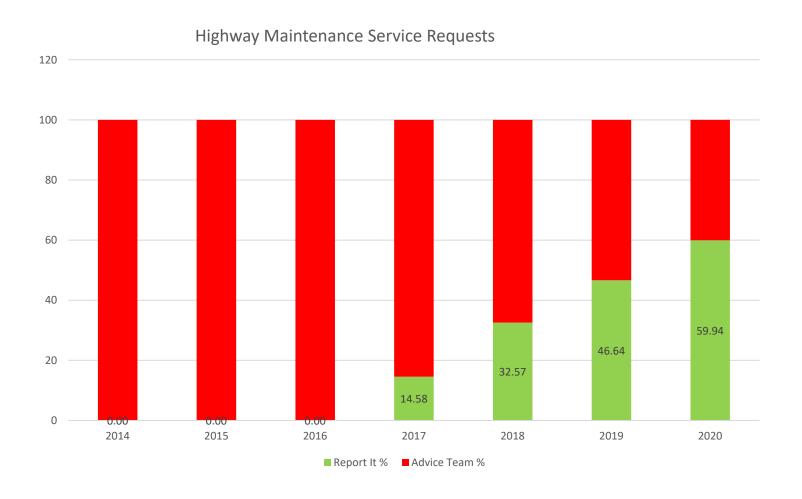
2019 Streetlighting alone

54% of requests recorded on portal = **£129.30**

46% of requests recorded by Advice Team = £2020.62



Channel Shift – Highway Maintenance



Socitm 2012, suggest

- £2.83 per phone call
- £0.15 per online visit.

2019 Highway Maintenance

46% of requests recorded on portal = **£220.95**

54% of requests recorded by Advice Team = £4768.55

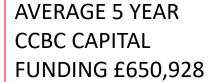


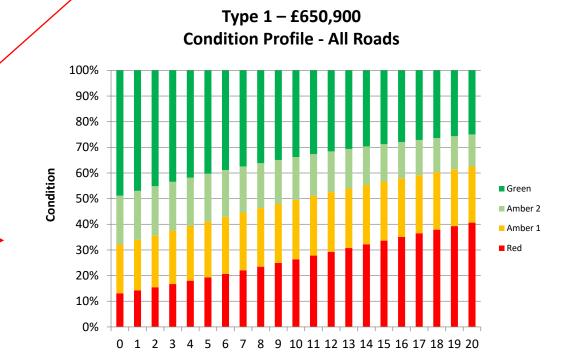
Evidence Based Decision Making



Year 1 Budget: Type 1 -£650,900 Option 1 Strengthening Resurfacing U-R **Surface Treatment** Category Treatment Treatment £130,400 Urban Principal (A) Roads (cat 2) Rural £80,000 Urban £130,000 Classified (B) Roads (cat 3a) Rural £45,000 £55,000 £21,000 Urban Classified (C) Roads (cat 3b) £45,000 £45,000 Rural £60,000 £32,000 Unclassified Roads (cat 4a & Urban 4b) Rural £7,500 **Treatment Totals** £0 £219,500 £431,400

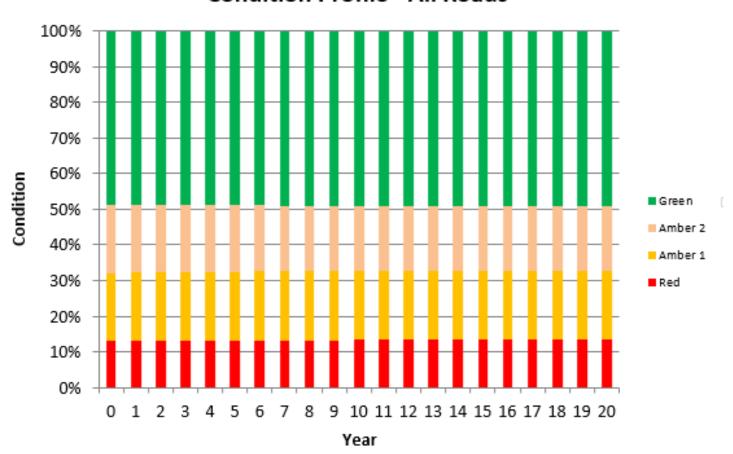
Highway Maintenance Capital





Ideal world....

Option 4 Steady State £2,829,342 Condition Profile - All Roads

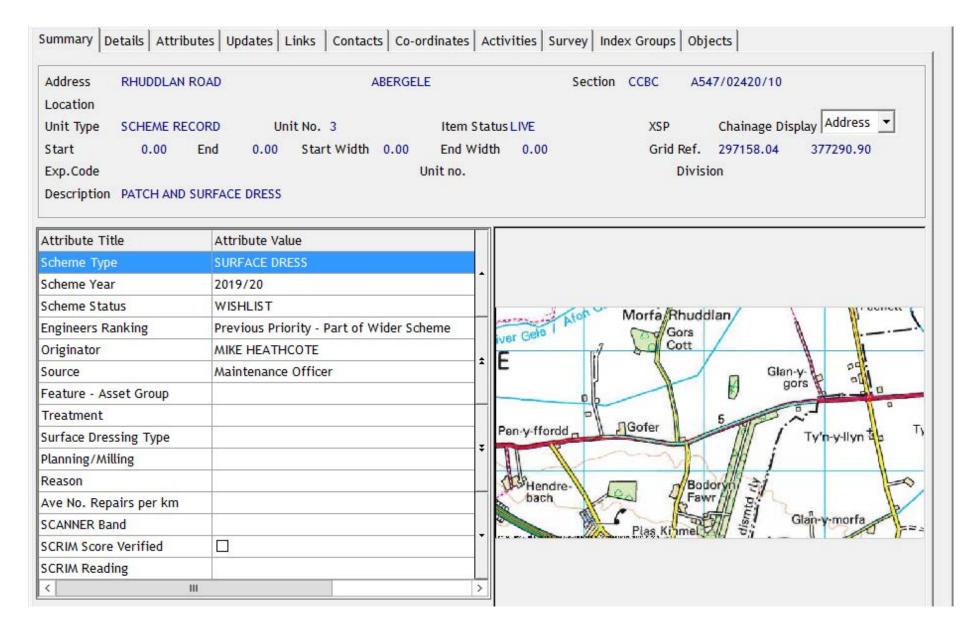


	Option 4	Steady State Preventa	tive
Year 1 Budget: Type 1 - Option 4		£2,829,342	
Category	Strengthening Treatment	Resurfacing Treatment	Surface Treatment
A Road (Urban)	£35,000	£136,030	£77,516
A Road (Rural)	£35,000	£129,700	£70,563
B Road (Urban)	£0	£46,096	£27,228
B Road (Rural)	£0	£184,037	£103,785
C Road (Urban)	£0	£105,399	£74,791
C Road (Rural)	£0	£453,623	£92,663
U Road (Urban)	£0	£497,831	£324,861
U Road (Rural)	£0	£366,391	£68,827
Treatment Totals	£70,000	£1,919,108	£840,234

WE JUST DON'T HAVE THIS!!!!



Introduction of Evidence Based Decision Making





No. Defects per km

13/10/2016	142909	fill Potholes	CARRIAGEWAY	Pothole
13/05/2016	136795	fill potholes	CARRIAGEWAY	Pothole
07/11/2016	143727	fill potholes	CARRIAGEWAY	Pothole
16/11/2016	144127	Fill Pothole	CARRIAGEWAY	Pothole
16/11/2016	144101	Fill Pothole	CARRIAGEWAY	Pothole
18/10/2017	158253	fill Potholes	FOOTWAY	Pothole
18/04/2016	135670	Fill Pothole approx 2 tubs	CARRIAGEWAY	Pothole
29/11/2017	160303	Fill Pothole	CARRIAGEWAY	Pothole
01/05/2018	167306	Fill Potholes	CARRIAGEWAY	Pothole
05/09/2018	172885	Fill pothole	CARRIAGEWAY	Pothole
08/02/2019	179400	There is a large hole in the westerly carriageway on the A547	CARRIAGEWAY	Pothole
19/03/2018	165184	Dinner plate size. Nearly Tennis ball depth	CARRIAGEWAY	Pothole
31/01/2018	163245	Fill Potholes	CARRIAGEWAY	Pothole
26/06/2018	169767	fill pothole	CARRIAGEWAY	Pothole
22/12/2017	161402	size of a football	CARRIAGEWAY	Pothole

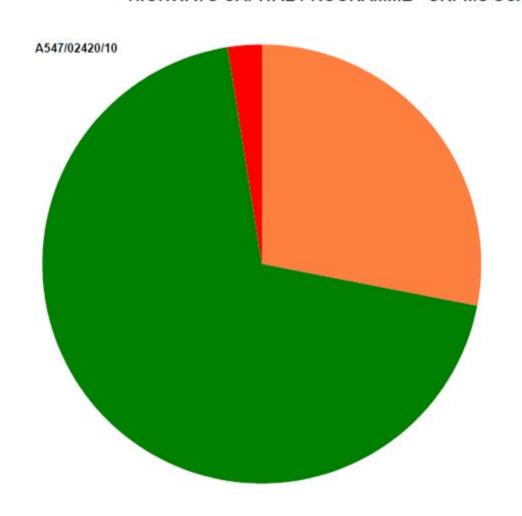
	Number	Avg. No. Defects Per KM	Repair Score Value
Footway:	2	4.02	2.00
Carriageway:	21	42.22	5.00



SCANNER Data

HIGHWAYS CAPITAL PROGRAMME - UKPMS SCANNER RESULTS





SCANNER BAND SUMMARY

AMBER: Plan investigation soon 28.0%
GREEN: Generally good condition 69.4%
RED: Plan maintenance soon 2.6%
Total: 100.0%

SCRIM

Print Date: 23/04/2019

SCRIM RESULTS

10.00	270.00	280.00	CR1	0.49	0.45	S2	-0.04	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	320.00	330.00	CR1	0.45	0.45	C	-0.10	Single CW - Non Event Sections
10.00	330.00	340.00	CR1	0.42	0.35	C	-0.07	Single CW - Non Event Sections
10.00	340.00	350.00	CR1	0.42	0.35	C	-0.05	Single CW - Non Event Sections
10.00	350.00	360.00	CR1	0.40	0.35	C	-0.05	Single CW - Non Event Sections
10.00	360.00	370.00	CR1	0.40	0.35	C	-0.04	Single CW - Non Event Sections
10.00	370.00	380.00	CR1	0.39	0.35	C	-0.02	Single CW - Non Event Sections Single CW - Non Event Sections
7.00	380.00	387.00	CR1	0.39	0.35	C	-0.02	Single CW - Non Event Sections Single CW - Non Event Sections
Amber	300.00		219.99	0.39	0.33	C	-0.04	Single CVV - Non Event Sections
	100.00			0.40	0.45	00	0.00	Bond/onesch -E0mph/Dadius-E00m 050m Cingle CM
10.00 10.00	160.00 170.00	170.00 180.00	CL1 CL1	0.43	0.45	S2 S2	0.02	Bend(speed>=50mph)Radius=500m-250m-Single CW
			2500000		1 700 00000	(A) (A) (A)		Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	180.00	190.00	CL1	0.43	0.45	S2	0.02	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	190.00	200.00	CL1	0.44	0.45	S2	0.01	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	290.00	300.00	CL1	0.45	0.45	S2	0.00	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	300.00	310.00	CL1	0.41	0.45	S2	0.04	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	310.00	320.00	CL1	0.43	0.45	S2	0.02	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	320.00	330.00	CL1	0.44	0.45	S2	0.01	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	330.00	340.00	CL1	0.43	0.45	Q	0.02	Approaches to/across minor/major junc app to rbout
10.00	340.00	350.00	CL1	0.43	0.45	Q	0.02	Approaches to/across minor/major junc app to rbout
10.00	466.99	476.99	CL1	0.44	0.45	R	0.01	Roundabout
9.99	476.99	486.98	CL1	0.38	0.45	R	0.07	Roundabout
10.00	20.00	30.00	CR1	0.42	0.45	Q	0.03	Approaches to/across minor/major junc app to rbout
10.00	50.00	60.00	CR1	0.44	0.45	S2	0.01	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	60.00	70.00	CR1	0.44	0.45	S2	0.01	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	90.00	100.00	CR1	0.45	0.45	S2	0.00	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	100.00	110.00	CR1	0.43	0.45	S2	0.02	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	110.00	120.00	CR1	0.44	0.45	S2	0.01	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	200.00	210.00	CR1	0.41	0.45	S2	0.04	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	220.00	230.00	CR1	0.43	0.45	S2	0.02	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	230.00	240.00	CR1	0.42	0.45	S2	0.03	Bend(speed>=50mph)Radius=500m-250m-Single CW
10.00	240.00	250.00	CR1	0.42	0.45	S2	0.03	Bend(speed>=50mph)Radius=500m-250m-Single CW
Red			19.99				100	
10.00	486.98	496.98	CL1	0.34	0.45	R	0.11	Roundabout
9.99	496.98	506.97	CL1	0.29	0.45	R	0.16	Roundabout
	100000000000000000000000000000000000000	STATE OF STA	10100	1000	100000	1000		0.47500.0000.0000.0000.0000

Green Green Green Green Green Green Green Green Amber 30.1% 67.1% Green Red 2.7% Total: 100.0%

HSI Data

Highways Capital Programme

CONWY

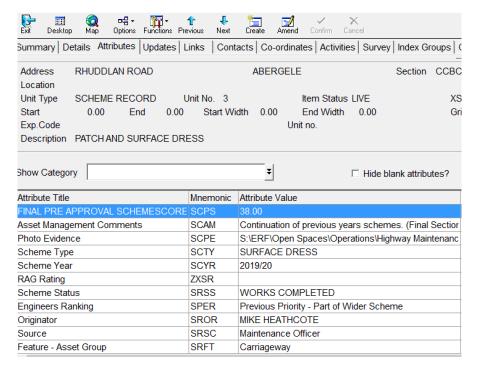
CYNGOR BWRDEISTREF SIROL
COUNTY BOROUGH COUNCIL

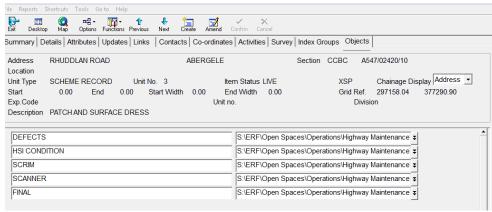
Highway Safety Inspection Average Condtion Score

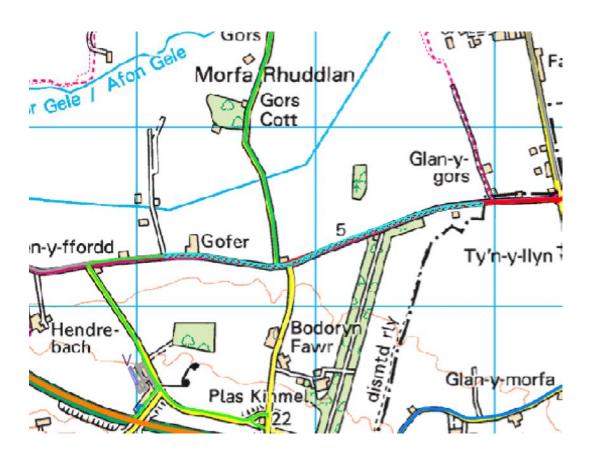
A547/02420/10 RHUDDLAN ROAD

Activity	Date Done	Carriageway Condition	Footway Condition	Carriageway Condition Score Value	Footway Condition Score Value
				1.00	1.00
HSI	15/04/2019	Aesth Impaire	Aesth Impaired	2. 1 -2	
HSI	18/03/2019	Aesth Impaire	Aesth Impaired		
HSI	18/03/2019	Aesth Impaire	Aesth Impaired		
HSI	19/02/2019	Aesth Impaire	Aesth Impaired		
HSI	19/02/2019	Aesth Impaire	Aesth Impaired		
HSI	30/01/2019	Aesth Impaire	Aesth Impaired		
HSI	30/01/2019	Aesth Impaire	Aesth Impaired		
HSI	12/12/2018	Aesth Impaire	Aesth Impaired		
HSI	12/12/2018	Aesth Impaire	Aesth Impaired		
HSI	28/11/2018	Aesth Impaire	Aesth Impaired		
HSI	28/11/2018	Aesth Impaire	Aesth Impaired		
HSI	08/10/2018	Aesth Impaire	Aesth Impaired		
HSI	08/10/2018	Aesth Impaire	Aesth Impaired		
HSI	06/09/2018	Aesth Impaire	Aesth Impaired		
HSI	06/09/2018	Aesth Impaire	Aesth Impaired		
HSI	07/08/2018	Aesth Impaire	Aesth Impaired		
HSI	07/08/2018	Aesth Impaire	Aesth Impaired		
HSI	02/07/2018	Aesth Impaire	Aesth Impaired		
HSI	02/07/2018	Aesth Impaire	Aesth Impaired		
HSI	18/06/2018	Aesth Impaire	Aesth Impaired		
HSI	18/06/2018	Aesth Impaire	Aesth Impaired		
HSI	21/05/2018	Aesth Impaire	Aesth Impaired		

Scheme record









Transparency

Criteria	Value	Score	Weighting	Weighted Score
Engineers Ranking	Previous Priority - Part of Wider Scheme	4	2	8
Ave No. Repairs per km	>20	5	2	10
SCANNER Band	20% to 50% Amber/Red	2	1	2
SCRIM Reading	Amber	1	2	2
Community Priority		0	1	0
Network Hierarchy	Secondary Distributor	3	2	6
Scheme Cost Band	£50-£100K	1	2	2
Preventative Maintenance	5 Year Old Surface - Score 4	4	2	8

SCHEME SCORE

38



Decisions

Scheme Score	Section Ref	Location		Area Symology	Est. Rate
38	A547/02420/10	RHUDDLAN ROAD, ABERGELE		15482.60	£4.00
36	B5383/07984	DOLWEN ROAD, OLD COLWYN	DOLWEN ROAD, OLD COLWYN TO DOLWEN ROAD, BETWS YN RHOS.	19621.94	£3.00
35	A543/06477/10	PENTREFOELAS TO PONT TYDDYN, PENTREFOELAS	FROM HAFODTY HAFOD DRE TO TYRPEG MYNYDD	6222.00	£3.00
33	C/05256	BODNANT ROAD, EGLWYSBACH	BODNANT GARDENS TO TY GWYN JUNCTION	13338.10	£3.00
33	B4501/99648/20	FFORDD BALA, LLANGWM	FROM GELLIOEDD CHAPPEL TO CTY BOUNDARY	9487.00	£3.50
32	B5384/05424	GWYTHERIN TO PONT RHYDLECHOG, GWYTHERIN	GWYTHERIN TO PONT RHYDLECHLOG	98184.60	£3.00
31	B5106/00776	GWYDYR ROAD, DOLGARROG	FROM GWYDYR ROAD TO DOLGARROG BRIDGE	10241.71	£3.50
31	U/05578	FFORDD SGRIVEN, TYN Y GROES	FROM B5106 TO ROWEN ROAD	4387.00	£2.00
31	U/05818	MAES TYDDYN, LLANFIHANGEL GLYN MYFYR	FROM B5105 TO END	2500.00	£2.00
30	A544/06417/10	CAE GORONWY TO RHOS, BYLCHAU	FROM CLWT TO RHOS	4276.00	£3.00
29	C/00683/10	ABER ROAD, LLANFAIRFECHAN	FROM HRA JOINT O/S FARM LODGE TO LANE LEADING TO CEMETERY	8649.25	£3.00
29	C/01084/10	SYCHNANT PASS ROAD, CONWY	FROM JNC ST AGNES ROAD TO JNC F/P NO 8 BEFORE WALLS	16416.05	£3.00
29	B5106/01099/10	LLANRWST ROAD, CONWY	FROM 30/40MPH SIGN AT 'THE STABLES' TOWARDS THE GROES PUB	16804.97	£3.00
29	C/06570/10	SYCHNANT PASS ROAD, DWYGYFYLCHI	FAIRY GLEN PUB TO END OF WALLS JNC F/P N0 8	7658.49	£3.00
29	B5113/99646/10	FFRIDD UCHAF TO FAWNOG FAWR, TROFARTH		47732.75	£3.00
28	C/05515/10	EGLWYSBACH ROAD, EGLWYSBACH	TY GWYN JUNCTION TO 30MPH	47586.60	£3.00
28	B5381/99874/20	FFORDD LLANELWY, BETWS YN	FROM TYDDYN Y FRON TO JUNCTION OF CAMBWLL	10300.32	£3.80



Summary

- Being Proactive
- Continual Improvement
- Making the best of limited resources
- Accountability for delivering services and decision making
- Transparency
- Consistency
- Evidence
- APSE Benchmarking



Thank you for listening!

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