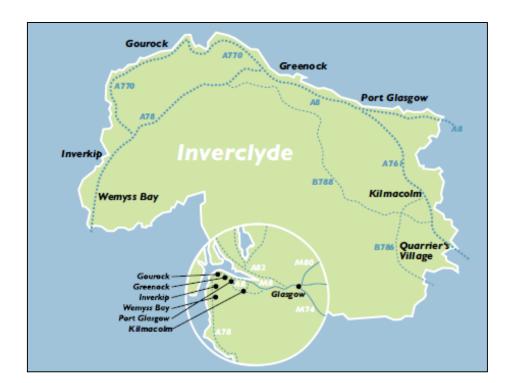
Inverclyde Roads

APSE most improved performer 2015 and 2016.

About Inverclyde Council

Inverclyde Council is the unitary local authority for the area of Inverclyde in the west of Scotland, approximately 25 miles west of Glasgow on the south bank of the River Clyde.

Inverciyde includes the towns of Greenock, Port Glasgow, Gourock and the villages of Kilmacolm, Inverkip, Wemyss Bay, and Quarrier's Village. It is bordered by Renfrewshire Council and North Ayrshire Council and by the River Clyde. It covers an area of 61 square miles and has a population of 85,000.



Some Roads Statistics

- Carriageway length 369 km
- Footway length 448 km
- Approx 10,500 gullies
- 11,750 lighting columns
- 12,300 lanterns
- 79 road bridges, 8 foot bridges, 71 culverts and 4 underpass
- 48% of the carriageway network receives precautionary treatment in winter
- 371 grit bins
- 8 traffic controlled junctions
- 20 pedestrian crossings
- Approx 700 trees

Press Comments on Inverciyde Roads

July 2010

Council face £25k pothole pay-out

August 2010

Roads 'second worst in Scotland'

January 2011

Drivers going potty over roads

December 2011

£11 million to fix roads in Inverclyde

March 2011

Roads are 3rd worst in country

January 2012

Compensation for motorists on the rise

February 2012

Driver's plea to fix hole-hit roads

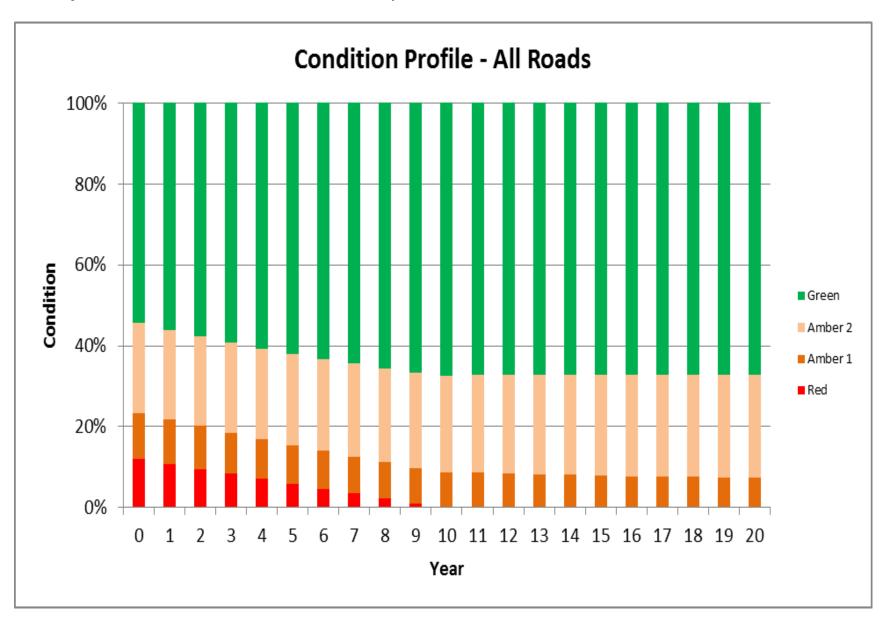
September 2012

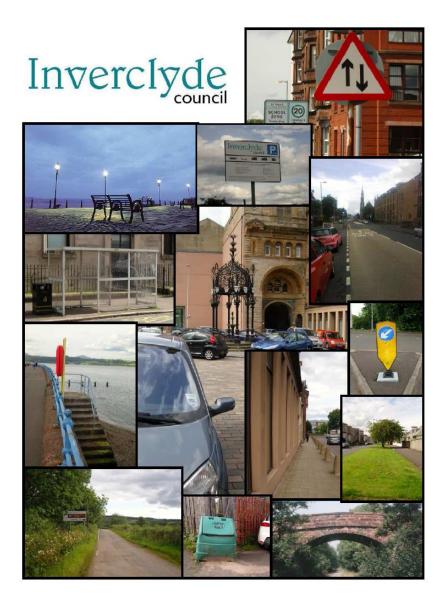
Roads major concern for residents

<u>Timeline of Roads Investment Strategy</u>

- Approved at the October 2011 committee that the Environmental Services Head of Service would submit for approval a long term investment plan.
- EXP consultants given a brief towards end 2011.
- EXP commenced February 2012.
- As well as building a RAMP EXP were asked to put together an Investment Strategy to be submitted by September.
- Roads Asset Investment Strategy submitted to committee end August 2012 with 3 investment options over 5, 10 or 20 years. 10 year option was approved for carriageway, footways, lighting and structures.
- Allocated £29 million over 5 years with initial investment of £17 million over first 3 years approved.
- 61% of investment allocated to carriageway
- 11.5% allocated to footways.
- 15% allocated to lighting
- RAMP investment commenced April 2013.
- Additional staff seconded and additional temporary posts created to deliver the investment.
- First year spent developing systems and strategies to ensure the investment was delivered on time, efficiently and performance measured.
- From April 2014 a more structured approach in place to deliver a long term 3 year rolling programme.

Projected Condition Profile Over 10 year Investment





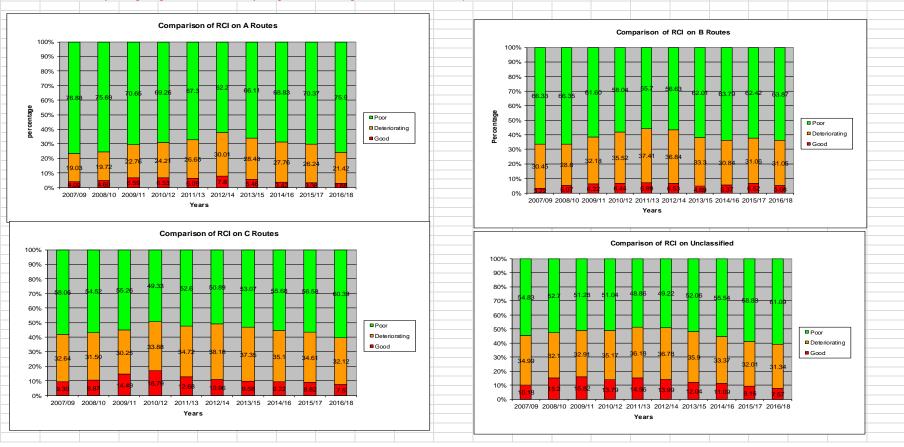
Road Asset Investment Strategy – Options Report	
Contents	
Executive Summary	
Financial Need Projections	
<u>Carriageways</u>	
<u>Footways</u>	
Street Lighting	
<u>Structures</u>	
Contingencies	
Other Assets	
Assets Not Included	
Basis of Financial Need Projections	
1	Carriageway
<u>1.1 T</u>	reatment Options and costs
1.2	Treatment Lifecycles
1.3	Carriageway Area
1.4	Condition
1.5	Treatment Efficiency
1.6 Routine Reac	tive and Cyclic Maintenance
<u>1.7</u> Re	newal Investment Scenarios
1.7.1 Maintain C	Current Levels of Investment
	Maintain Steady State Local
1.7.3 Remove b	packlog over a 5 year period
1.7.4 Remove ba	acklog over a 10 year period
1.8	Backlog Removal
2	Footways
2.1 Treatment	Options, Lifecycles & Costs
2.2	Footway Areas
2.3	Condition
2.4	Deterioration Prediction
2.5 Bud	dget Vs Condition Scenarios
2.6	Current Spending Levels
2.7	Backlog Calculation
2.8 Short Ten	m Investment Requirements
7	Recommendations

ROAD ASSET INVESTMENT STRATEGY

Road Condition Analysis

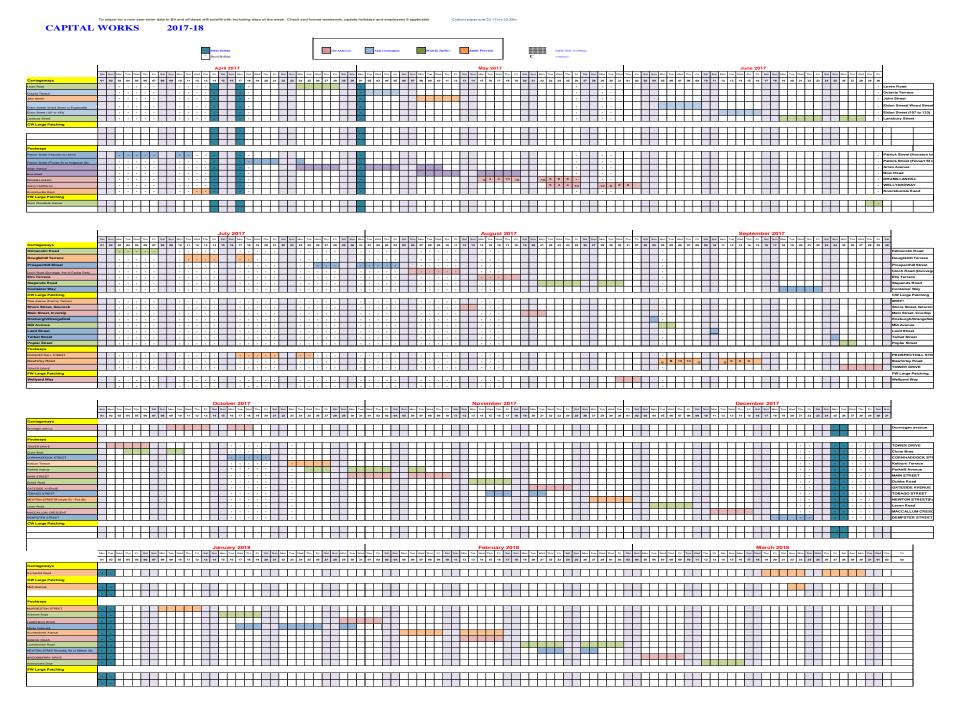
		Network			A Roads			B Roads			C Roads				U Roads						
	Authority	Red	Amber	Green	RCI	Red	Amber	Green	RCI	Red	Amber	Green	RCI	Red	Amber	Green	RCI	Red	Amber	Green	RCI
2004/5		18.25	39.04	42.71	57.29	6.27	25.64	68.09	31.91	6.89	30.46	62.65	37.35	13.48	37.86	48.66	51.34	21.27	41.22	37.52	62.49
2005/6		15.68	31.39	52.93	18.25	5.59	27.67	66.74	33.26	15.19	48.33	36.47	63.52	5.72	28.18	66.1	33.9	18.68	30.99	50.33	49.67
2006/7		25.52	31.26	43.22	56.7	5.63	32	62.37	37.63	8.52	47.06	44.41	55.58	18.22	36.77	45.01	54.99	30.25	28.74	41.01	58.99
2006/8		10.41	35.02	54.57	45.43	3.07	21.18	75.74	24.25	3.13	32.7	64.17	35.83	8.53	34.32	57.16	42.85	12.07	36.62	51.31	48.69
2007/09		9.04	33.40	57.10	42.90	4.09	19.03	76.88	23.40	3.22	30.45	66.33	33.40	9.30	32.64	58.06	43.70	10.18	34.99	54.83	45.3
2008/10	29	13.13	30.96	55.91	44.09	4.60	19.72	75.69	24.31	5.07	28.6	66.35	33.65	9.87	31.50	54.52	41.37	15.2	32.1	52.7	47.30
2009/11		14.43	31.80	53.77	46.23	6.59	22.76	70.65	29.35	6.22	32.18	61.60	38.40	14.49	30.25	55.26	44.74	15.82	32.91	51.28	48.72
2010/12		13.31	34.29	52.40	47.60	6.53	24.21	69.26	30.74	6.44	35.52	58.04	41.96	16.79	33.88	49.33	50.67	13.79	35.17	51.04	48.96
2011/13	29	13.55	35.42	51.0	49.0	6.09	26.65	67.3	32.7	6.89	37.41	55.7	44.3	12.68	34.72	52.6	47.4	14.96	36.18	48.86	51.1
2012/14		12.69	36.55	50.8	49.2	7.8	30.01	62.2	37.81	6.53	36.84	56.63	43.37	10.96	38.16	50.89	49.12	13.99	36.78	49.22	50.77
2013/15		10.80	35.47	53.7	46.3	5.46	28.48	66.11	33.94	4.69	33.3	62.01	37.99	9.58	37.35	53.07	46.93	12.04	35.9	52.06	47.94
2014/16		10.11	33.18	56.7	43.1	3.42	27.76	68.83	31.18	5.37	30.84	63.79	36.21	9.22	35.1	55.68	44.32	11.09	33.37	55.54	44.46
2015/17		8.57	31.96	59.5	40.5	3.38	26.24	70.37	29.62	6.52	31.06	62.42	37.58	8.82	34.61	56.58	43.43	9.16	32.01	58.83	41.17
2016/18		7.09	30.80	62.1	37.9	2.68	21.42	75.9	24.1	5.08	31.05	63.87	36.13	7.5	32.12	60.39	39.62	7.57	31.34	61.09	38.91
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Please note survey scotring changed as of 2007 therefor only the figures from 2007 will give a true indication of the comparison condition of the network



How did we manage to deliver the investment

- By developing a 3 year rolling programme to target priority areas.
- Developing programmes to include surface preservation as well as resurfacing.
- By developing in-house systems to deliver and monitor the investment.
- By allocating in-house operation resources more efficiently.
- Improving coordination
- Improve procurement of materials , plant and Services by putting in place
 - Mini comps on excel
 - Plant hire frameworks
 - Minor civil works frameworks
 - Open Tenders
 - Quick quotes

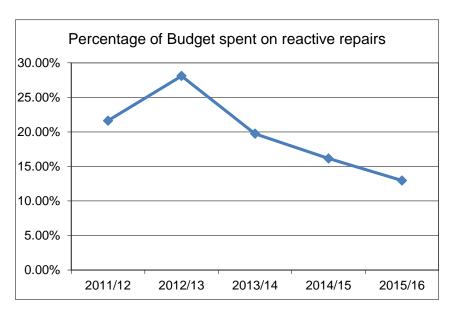


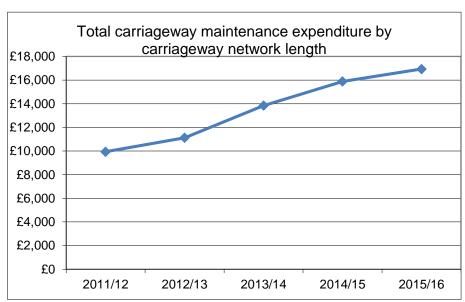
Ward Info CARRIAGEWAY - CAPITAL PROGRAMME 2017:18 Main Menu Works Order Form Carriageway - Capital Works Programme 1-Eat 5-Eat 2 - East Central 6 - East Central Spend to Date List is Filtered **-** 6 1 1 4 Refresh Data AC MI 62 Programmed £1,769,612.84 0 Reserve-Now Programmed 0 0 0 £0.00 Main Menu Refresh Data Works Order Form 9 Reserve 1 1 1 1 £1,002,000.00 JP Monitoring Project Brief £1,769,612.84 **£0.00** £1,769,612.84 36371.00 £755,189.67 £0.00 £0.00 101 Future 64.060.743.75 93107.00 0.0 Legal 🕌 v ▼ Out ▼ MJ Moderate Irlay (>60mm to 100mm) East 24042017 28042017 Complete 2110.00 82812 6001 1083293 Ops 31/03/2017 13/04/2017 18/04/2017 Y Mat test - Wear renton Rd to B88 kilmacolm Rd 2000.00 £60,000.00 £52,989.90 3 15 Octavia Tenace 82813 6001 1083294 Eldon St to Octavia Terrace CW17-102 Programmed Ops AC Moderate Inlay (>60mm to 100mm) Central U 920.00 £27,000.00 02/05/2017 05/05/2017 Complete 1302.00 £38,343.87 31/03/2017 13/04/2017 18/04/2017 Y Mat test - Wear . Binder content came back as low in maerial test. CW17-103 Programmed **82810 6001** 1083284 1450.00 Ops JP Moderate Irlay (>60mm to 100mm) East John Street Full Length and Cul De Sacs \$44,000,00 Added as additional scheme 08/05/2017 12/05/2017 Complete 1500:00 £45,371.1 31/03/2017 13/04/2017 26/04/2017 y Mat test - Wear CW17-105 Programmed 82808 6001 1089295 Ops AC Moderate Inlay 5-60mm to 100mm | Central A 770 3 2 Eldon Street (Wood St to Esplanade) 3230.00 05/06/2017 09/06/2017 Complete 3740.00 £83.821.0 02/05/2017 25/05/2017 23/05/2017 Y Mat test - base and wear Wood Street to Esplanade £90,000,00 CW17-106 Programmed **82809 6001** 1083236 AC Moderate Irlay (>60mm to 100mm) Central A 770 3 13 Eldon Street (107 to 133) 3000.00 12/06/2017 16/06/2017 02/05/2017 25/05/2017 23/05/2017 Y Mat test - base and wear Ops 107 to 133 £85,000.00 Complete 3573.00 £78,730.63 82811 6001 1083234 12/15/2017 25/15/2017 07/06/2017 Y Mat test - base and wear. TIRO issued a SPT on 12/5 due to impact of Oos MJ Moderate Irlay (>60mm to 100mm) East 9 Lansbury Street Smille St to Witchell St 3225.00 £97,000.00 19/06/2017 30/06/2017 Complete 3230.00 £82,992,22 Kilmacolm Road (Port Glasgow Campus to past W17-108 Programmed 82819 6001 1083238 Ops MJ Moderate Inlay (>60mm to 100mm) East Port Glasgow Campus to past Arran Ave 4380.00 £132,000.00 13/07/2017 14/07/2017 12/05/2017 23/06/2017 13/06/2017 Y Mat test - base and wear Complete CW17-107 Programmed 82818 6001 1083237 Ops 19/06/2017 06/07/2017 30/06/2017 Y Max test - Wear JP Moderate Irlay (>60mm to 100mm) East 2146.00 £64,500,00 1/07/2017 18/07/2017 82814 6001 (108324) AC Moderate Irlay (>60mm to 100mm) Central 30/06/2017 06/07/2017 12/07/2017 Y Mat test - Wear CW17-110 Programmed Ops 8 Prospectfil Street Durn Street in Ann Street 3700.00 £100,000.00 26/07/2017 04/08/2017 Works On CW17-109 Programmed JA Moderate Irlay (>60mm to 100mm) West 5 3 CLOCH ROAD (Duniegen Ave to Faulds Park Rd) Duniegen Avenue to Faulds Park Road (phase 2) 30/06/2017 24/07/2017 12/07/2017 Y Mail test - base and wear 82804 6001 1089239 Ops A 770 3400.00 F90.000.00 07/08/2017 16/08/2017 Complete 2650.00 £67,297.68 CW17-253 Programmed **82821 6001** 1090156 Ops JA Patching A 770 14 Share Street Near ict Batch St to Health Centre car park 1111.00 £30,000,00 12/08/2017 13/08/2017 Complete 04/07/2017 | 24/07/2017 | 12/07/2017 Require 2days of peak CW17-112 Programmed 0407/2017 2407/2017 12/07/2017 Y Mat test - Wear **82806 6001** 1083242 Ops JA Structural Inlay (> 100mm) 14 Elm Terace £25,000.00 14/08/2017 15/08/2017 Complete Gound HRA 30/14 F Suf 40/60 CW17-255 Programmed 82821 6001 1090394 Ops JA Patching 1 Main Street A78 to Langhouse Road 662.00 £20,000.00 19/08/2017 21/08/2017 Works On 10/07/2017 07/08/2017 08/08/2017 Mat test - Wear 117-113 Programmed 82817 6001 1083243 Ops MJ Moderate Irlay (>60mm to 100mm) East 5 Stepends Road Last section towards boundary 5050.00 £151,000.00 07/08/2017 08/08/2017 Mat test - base and wear 1/08/2017 | 01/09/2017 | Works On **82821 6001** 1090617 Ops AC Patching 3 9 Roxburgh St / Orangefield 350.00 10/08/2017 21/08/2017 2 DAYS-(WEEKEND DUE TO LOCATION) selected Length £11,000.00 82821 6001 1090580 Ops MJ Patching Between Southfield Avenue and Burnside Avenue 750.00 £20,000.00 15/08/2017 1/08/2017 Mat test - Wear AC Patching CW17-232 Programmed 82821 6001 1090667 Ops Central U 3 10 Laird Street Dalnymple St to West Blackhall St - selected lengths 500.00 614 000 00 10/09/2017 10/09/2017 1 DAYISUNDAY DUE TO LOCATION 82821 6001 1090590 MJ Patching 1300.00 W17-261 Programmed Ops 5 Lepperstone Avenue/ Leperstone Road £16,000.00 Requires 2 days with road closure CW17-114 Programmed 82807 6001 1083244 Ops AC Modeste Iriay (>60mm to 100mm) Central U 3 7 Container Way A78 to Laird Street 3500.00 £94,500,00 8/09/2017 22/09/2017 Y Mat test - base and wear CW17-243 Programmed AC Patching 82821 6001 Ops U 5 8 Tarbet Street at junction with Cardwell Rd 200.00 £6,500.00 24/09/2017 24/09/2017 1 DAY-During week W17-260 Programmed 82821 6001 MJ Patching Between Cotham Street and Diamally Street 400.00 £12,000.00 Y Mat test - Wear Ops 17 Poplar Street 5/09/2017 26/09/2017 11 Dunegan Avenue 82805 6001 1083241 Ops JA Moderate Irlay (>60mm to 100mm) 5 Cloch Road to Tantallon Ave 3800.00 £105,000.00 09/10/2017 18/10/2017 Y Mattest-Wear CW17-267 Programmed 82821 6001 110.00 £8,000.00 Mat test - Wear 82820 6001 FULL LENGTH 613.00 £3,901.50 675.00 £3,901.50 CW17-125 Programmed Contractor ThinMicro Surface 10 ALDERBANK ROAD 6001 Contractor ThinMicro Surface 11 ALDERBRAE FULLLENGTH 82820 800.00 £4,658.85 783.00 Complete £4,658.85 Contractor ThinMicro Surface 82820 6001 Complete 1780.00 2 12 ALDERWOOD ROAD FULL LENGTH ort Glasgow 2954.00 £10,591.00 £10,591.00 Contractor

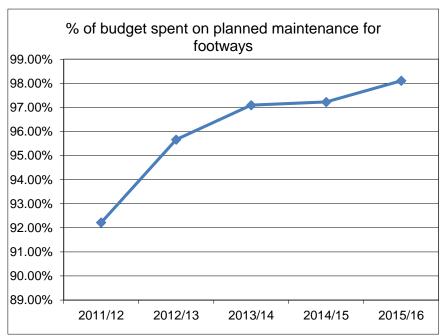
Other outcomes from improving through capital investment

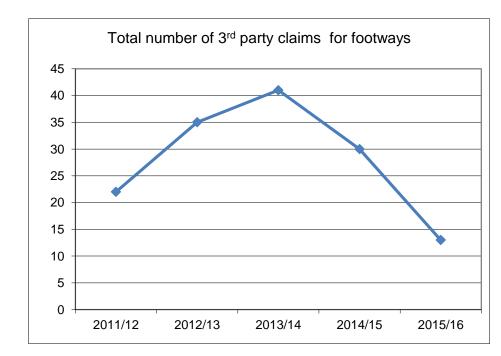
- Decrease in number of Cat1 and Cat2 potholes.
- Increase in percentage of potholes repaired within the timescales of the Inspection Guidance Manual
- Drop in number of claims
- Little or no bad press comments
- Improving drainage schemes, where required, prior to carrying out resurfacing works
- Better value through improved procurement schemes.

Some information extracted from APSE returns.

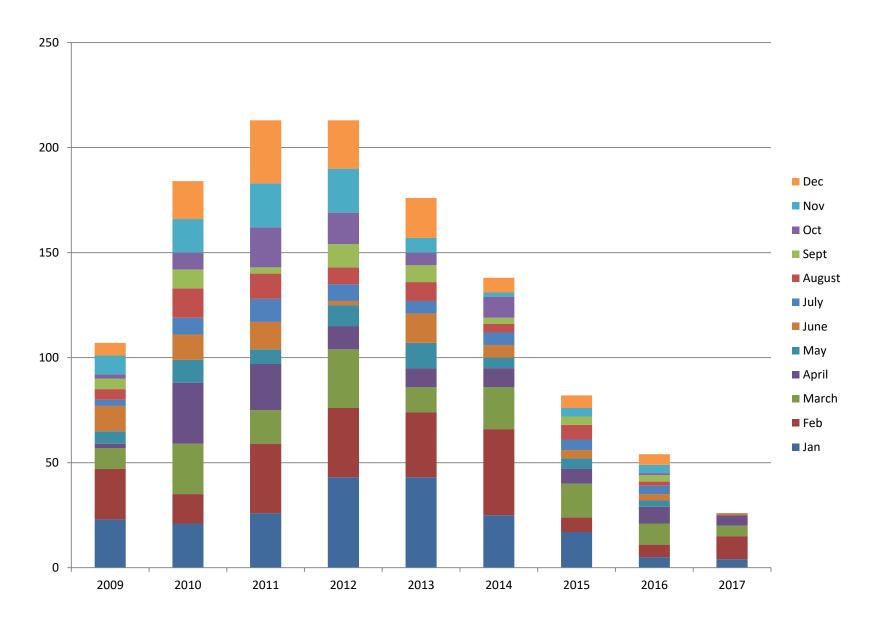








Number of claims



Inverclyde Carriageways DUNOON/ DUN OBHAINN GREENOCK INVERGLYDE Wernyss Duchal Moo Capital Works 2012 - 2017 Carriageway Overlay Large Patching Proprietary Surface Treatment Queenside Muir. Surface Dressing

Inverclyde Footways Capital Works 2012 - 2017 Footway Overlay GOUROCK GREENOCK A PORT GLASGOW Lunder Ardgowan Point burnhead in Damdaff Moor Crawhin Hill INVERGLYDE Carloney Top Garvook Hit Little Creuch Hill Creuch Hill. Knockminwood Hill Knock Mare 289 Lairds Seat Joper Skelmorlie Blackfield Lobb Knackdal Ring Skelmorlie

Some other statistics on capital investment in Structures and Lighting

Lighting investment in LED replacements and column replacements

Year	Description	Value		
2014/15	Luminaire ReplacementColumn Replacement	£ 100k £ 100K		
2015/16	Luminaire ReplacementColumn Replacement	£200K £100K		
2016/17	Luminaire replacementColumn replacement	£ 640k £ 200K		
2017/18	Luminaire replacementColumn Replacement	£750k £1,000K		

Structures investment in bridges, culverts and cattle grids

Year	Description	Value
2014/15	Replace footbridge	£13k
	 Parapet Strengthening 	£17k
	 Replace Nittingshill Bridge 	£521k
	 Cattle grid replacement 	£20k
	 A761 replacement 	£46k
2015/16	 Parapet Strengthening 	£42k
2016/17	 Parapet Strengthening 	£30k
	 Remove retaining wall 	£30k
	 Concrete slab over culvert 	£32k
2017/18	 Parapet Strengthening 	£120k

How is the investment monitored and checked for performance?

- Meetings are held with the Corporate Director on a 6 weekly basis to monitor the capital investment and to highlight any concerns to ensure the Service is meeting targets.
- Reports go to committee every 2 months
- Inverclyde's internal performance management system 'Inverclyde Performs' records information relating to defect management.
- There are regular financial monitoring meetings.
- CDIP's Corporate Development Improvement Plans are regularly reviewed to ensure Services are attaining outcomes.

Where do we go from here?

. This is the final year of the initial 5 year investment

.EXP provided with a brief last year to prepare phase 2 of the Investment Strategy and to prepare the RAMP Maintenance Manual inline with the RAMP 2 workshops.

. Presentation by EXP to committee with committee report offering the following options over a 5 year period from 2018-2023

Maintain steady state (£8.1m)

£7.5m Total Roads Capital Investment

£15m Total Roads Capital Investment

£22.5m Total Roads Capital Investment

Continue to remove the worst condition assets (£18.9m)

. Option 3 was recommended and approved by the committee.



Pride of Inverclyde Awards 2017

Chief Executive's Award: Roads, Highways and Winter Maintenance

The Chief Executive's award is a special award presented to the individual or team the Chief Executive has chosen because of a significant contribution to service delivery in the council. This year's award was presented to the Aubrey Fawcett presents Chief Executive's award - Steve Walker and the team at roads, highways and Winter maintenance - Neil Orr, Jane Corrie, Elaine Provan, Brenda McDonald and Kevin Burns.

