Buckinghamshire Highways

Our Journey with Data Management

Christopher Anousis – Network Strategy Manager, Buckinghamshire Council

October 2026

Buckinghamshire Highways Launched April 2023

Buckinghamshire Council

Balfour Beatty Living Places

AtkinsRéalis

Initial Software Structure

Asset Management

Causeway

Contract Management

thinkproject

Document Management

Microsoft

What happened next?

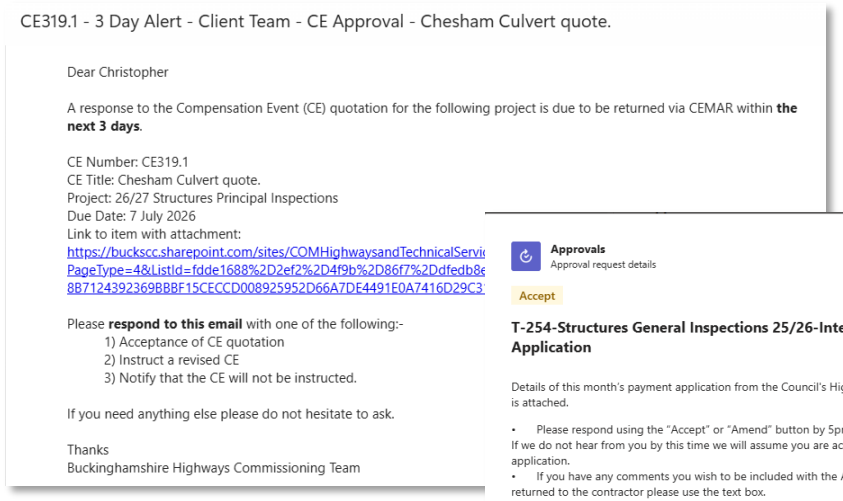
- Members of the Highways Commissioning Team had been using Power Automate (formerly *'Microsoft Flows'*) for years
- Quickly set up automation within the team to manage commissions and requests from the team and other parts of the organisation



BBLP Commissioning Tracker ☆

All Iter

Title	Cross Ref	TO number	Department	DepartmentSu...	Atkins Commer...	Requestor	Rec
2026/27 Replacement Traffic Signals C...	CAP	T-763	CAP	JEP	Core Work Arrangem	Jess	jes
26/27 School Flasher Units	REV	T-762	REV			Ryan and Kit	rya
HS2 SL Asset removals - Gt Missenden ...	REV	T-761	REV			Ryan and Kit	rya
High Wycombe Archway planter	CAP	T-760	CAP	JEP		Jess, Kit and Ha...	kit
CAP - 2026/27 Drainage Capital Maint...	CAP	T-759	CAP	JEP	Core Work Arrangem	Jess	jes
2026/27 Drainage Capital Maintenance...	CAP	T-758	CAP	JEP	Core Work Arrangem	Jess	kev
2026/27 Vehicle Restraint Systems Capi...	CAP	T-757	CAP	TR	Core Work Arrangem	Tara	tar
PRIV - Shopmobility signs	PRIV	T-756	PRIV		No	Danya and David	dar
2026/27 Road Safety Capital Maintena...	CAP	T-755	CAP	JEP	Core Work Arrangem	Jess	jes
ECI, Lighting and ITS Support – Kingsbr...	TID	T-754	TID		No	Josh	jos
PRIV: BH-PRIV-25-DES-ENQ035 - Little...	PRIV	T-753	PRIV		No	Danya and David	dar
PRIV: BH-PRIV-26-DES-001 – Aylesbury...	PRIV	T-752	PRIV		No	Danya and David	dar
Road Safety - Weedon Road/Gatehous...	NS	T-751	NS			Neil	Nei
PAR - Moving Traffic Enforcement MTE...	PAR	T-750	PAR		No	Rub and Jared	rub
2026/27 Drainage Capital Maintenance...	CAP	T-749	CAP	JEP	Core Work Arrangem	Jess	jes
2026/27 Capitalisation of Planned Loca...	CAP	T-748	CAP	JEP	Core Work Arrangem	Jess	jes
2026/27 Drainage Capital Maintenance...	CAP	T-747	CAP	JEP	Core Work Arrangem	Jess	jes



CE319.1 - 3 Day Alert - Client Team - CE Approval - Chesham Culvert quote.

Dear Christopher

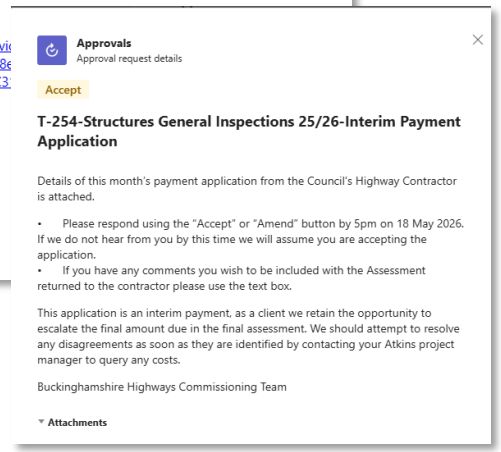
A response to the Compensation Event (CE) quotation for the following project is due to be returned via CEMAR within **the next 3 days**.

CE Number: CE319.1
CE Title: Chesham Culvert quote.
Project: 26/27 Structures Principal Inspections
Due Date: 7 July 2026
Link to item with attachment:
https://buckscc.sharepoint.com/sites/COMHighwaysandTechnicalServi
PageType=4&ListId=fdde1688%2D2ef2%2D4f9b%2D86f7%2Ddfedb8
8B7124392369BBBF15CECCD008925952D66A7DE4491E0A7416D29C3

Please **respond to this email** with one of the following:-
1) Acceptance of CE quotation
2) Instruct a revised CE
3) Notify that the CE will not be instructed.

If you need anything else please do not hesitate to ask.

Thanks
Buckinghamshire Highways Commissioning Team



Approvals
Approval request details

Accept

T-254-Structures General Inspections 25/26-Interim Payment Application

Details of this month's payment application from the Council's Highway Contractor is attached.

- Please respond using the "Accept" or "Amend" button by 5pm on 18 May 2026. If we do not hear from you by this time we will assume you are accepting the application.
- If you have any comments you wish to be included with the Assessment returned to the contractor please use the text box.

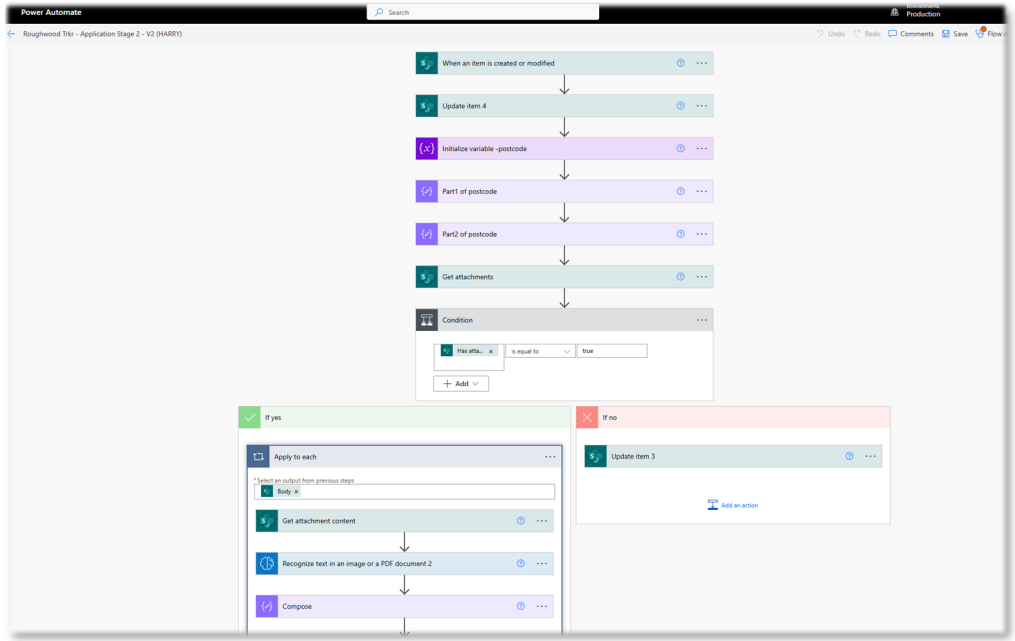
This application is an interim payment, as a client we retain the opportunity to escalate the final amount due in the final assessment. We should attempt to resolve any disagreements as soon as they are identified by contacting your Atkins project manager to query any costs.

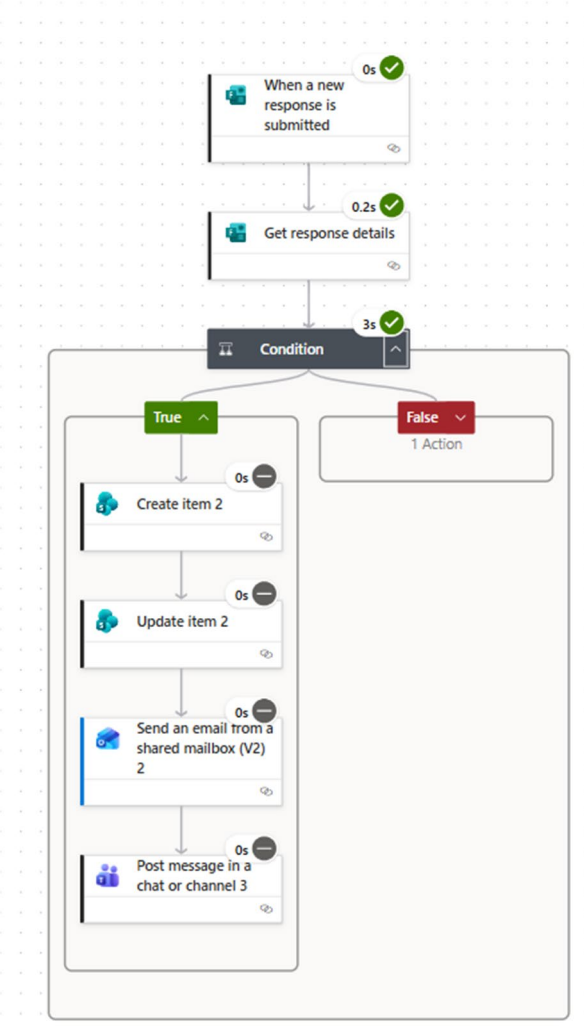
Buckinghamshire Highways Commissioning Team

Attachments

What are Power Automate ‘flows’?

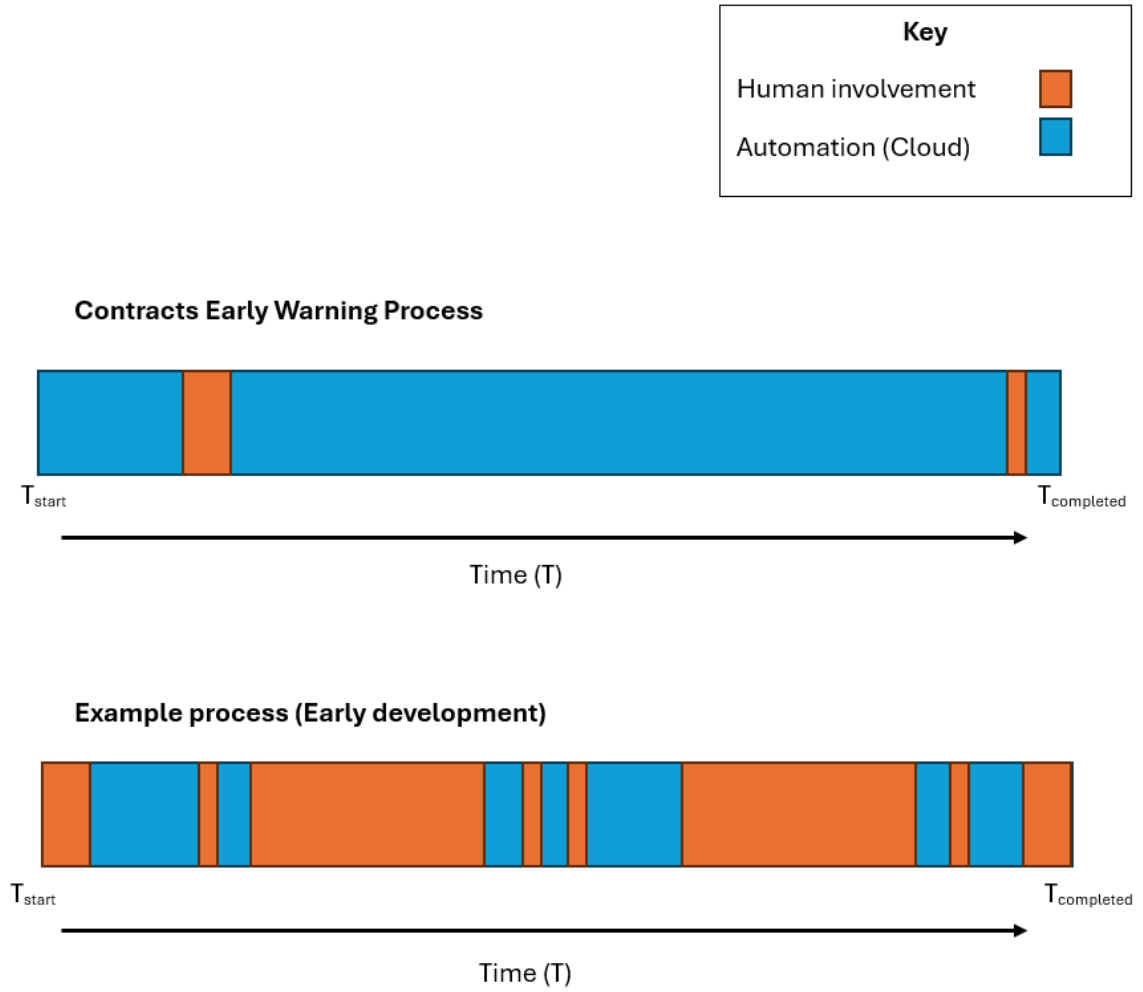
- An automated workflow that moves information and triggers actions between systems without manual intervention





Automation Improvements

- Over 300 agents / flows Removing Routine Workload
- 5 Agents using Microsoft AI Cloud
- Equivalent of having an additional 4.5FTE (when measured in Sep24)



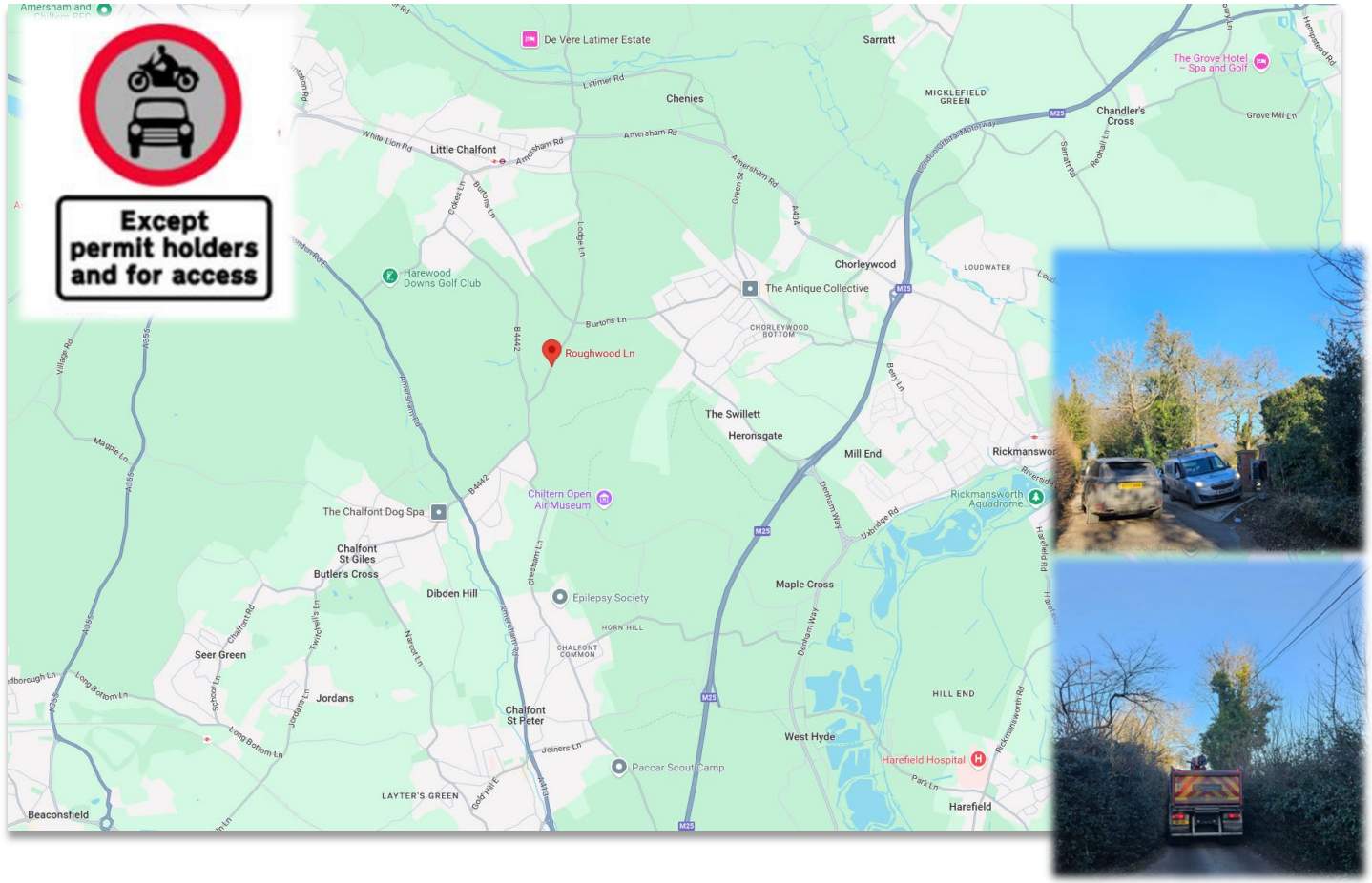
Buckinghamshire Highways

Case Study - Roughwood Lane Permit Zone

October 2026

Case Study - Roughwood Lane Permit Zone

1. Takes customer information from webform and puts it into a tracker
2. Checks the customer's address against the eligible addresses in the zone
3. Checks the customer's evidence using AI and issues the permit



Buckinghamshire Highways

Case Study - Alliance Master Programme

October 2026

Alliance Shared Data (ASD)

BH26FW002 Capital Schemes Tracker

Status
Stage 3 - Tender

Admin Flag

Next Action Date
Enter value here

Universal Fields

BH Reference Number	AlloyJobID	USRN Reference	Road Classification Number
BH26FW002	69e2003ee139b5bfe5ca67d0,69e200f7b34c58aab1e62276,69e2020f4971c5235f7d1d8e	1401366 1401368 1400947	U21

Road Name	Town	WardNew	Asset Category
St Annes Road St Catherines Court Chesterfield Place Side roads off Fowler Road (Footways)	Aylesbury	Aylesbury West	Footways

Design Only?

ASD-Package_Type
2026/27 - Footways

ASD-Scheme_Name
Side roads off Fowler Road, Aylesbury

ASD-Ward
Aylesbury West

ASD-Report_Status
Contractor Confirmed & Constructio...

ASD-Finish_Date_Design
25/06/2026

ASD-Start_Date_Construction
21/10/2026

ASD-Finish_Date_Construction
21/11/2026

ASD-Scheme_Comments
Design completed. Construction w/c 19th October for 24 days.

ASD-Project_Deliverable
Design & Construction

ASD-Updated
25/09/2026

Info_Code
AA

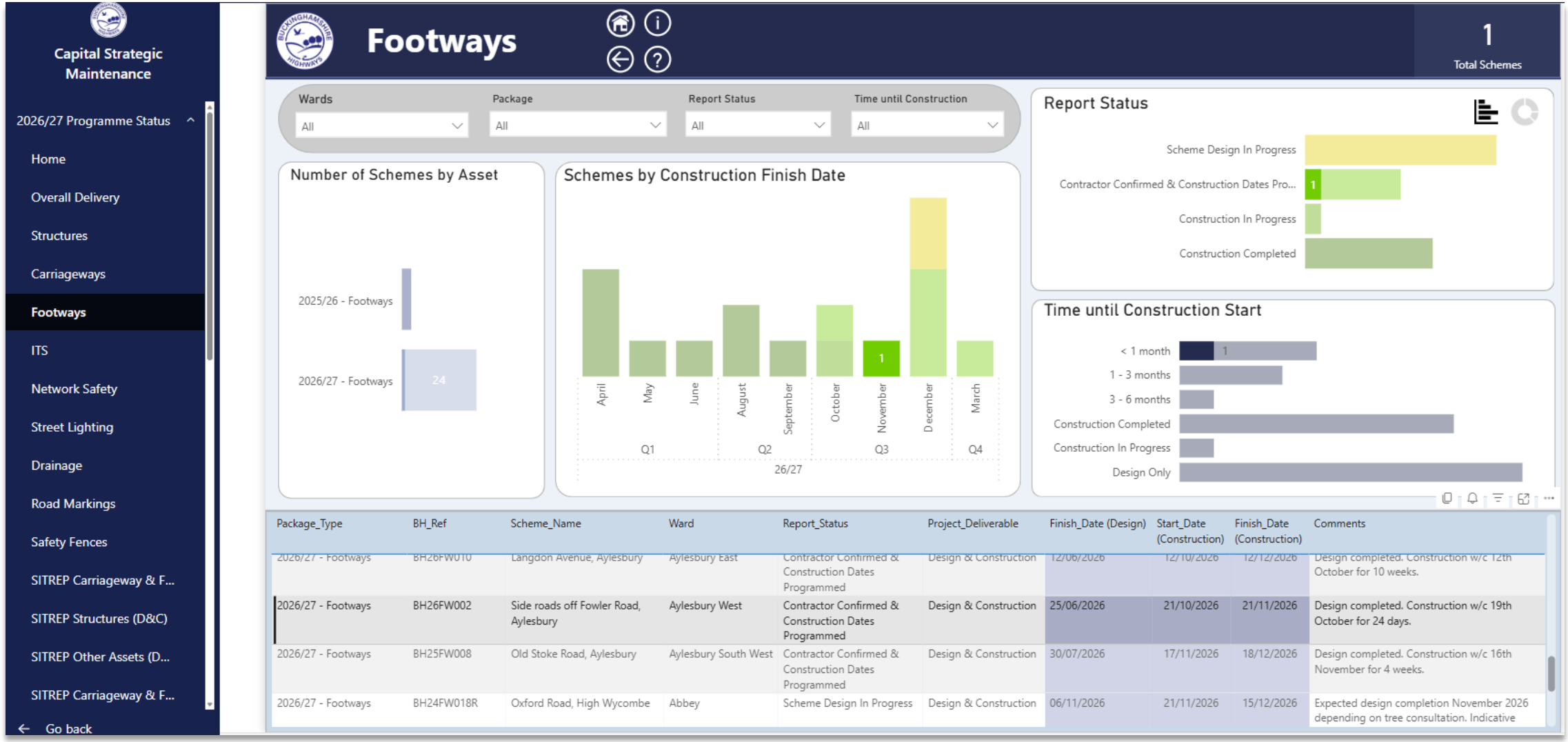
Capital Schemes

2027 Carriageways | a) All Items | b) Carriageways & Footways | c) BBLP Design & Build - Patching

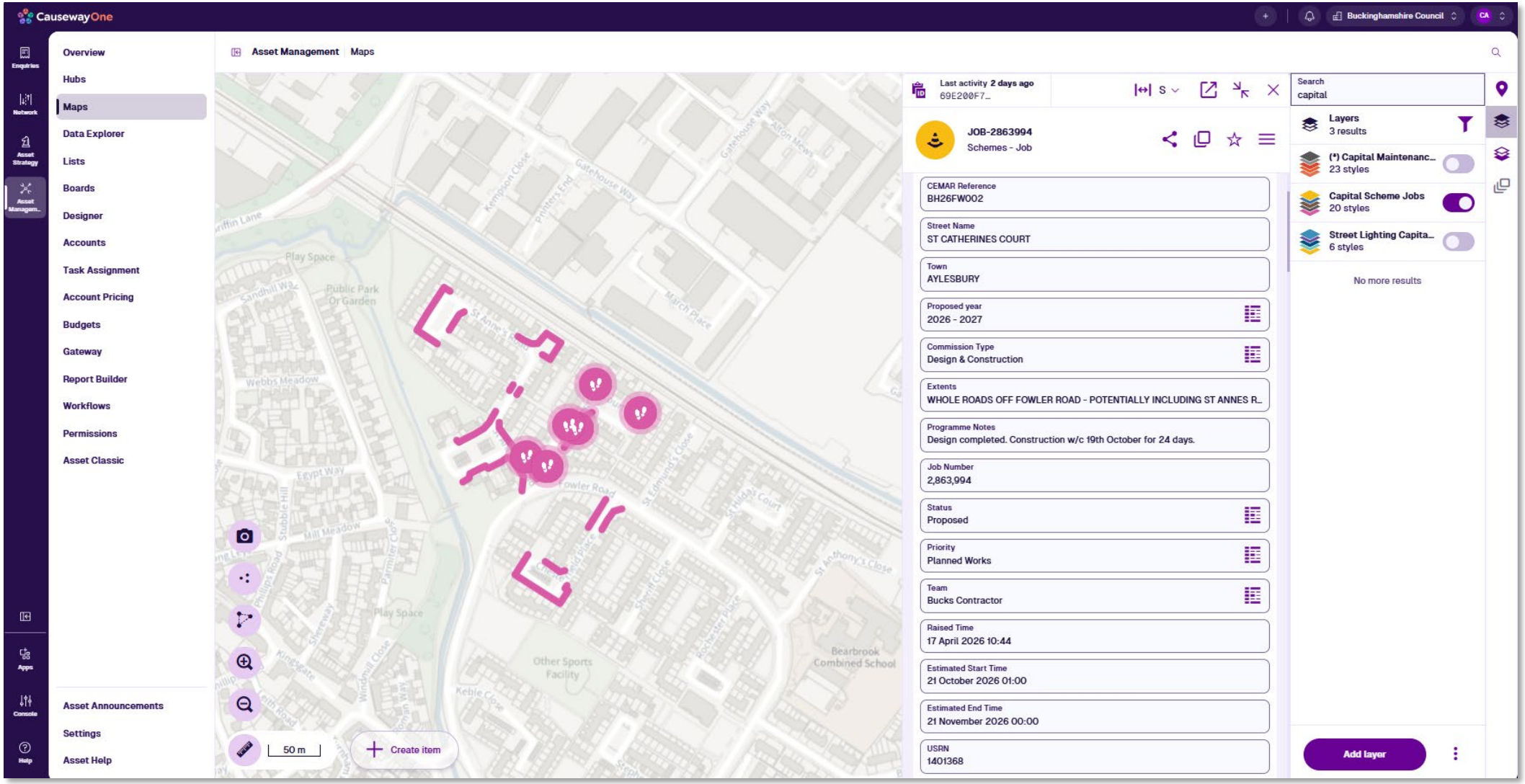
Proposed Year: 2026-2027 | Strategy: Footways Programme

BH Reference Number	Road Name	Town	Proposed Year	Alloy Link (Testi...	USRN Reference	Lane Rental?	TriggerTemplate
BH25FW016	Meadowcroft	Aylesbury	2026-2027		1401225	Yes	
BH24FW016R	Eskdale Avenue	Chesham	2026-2027		7300458	Yes	Template Atta...
BH25FW019	Thame Road	Haddenham	2026-2027		1400327	Yes	
BH24FW018R	Oxford Road	High Wycombe	2026-2027		45501521	Yes	
BH25FW023R	Market Square ...	Buckingham	2026-2027		1402227 14015...	Yes	
BH26FW020	Buckingham Str...	Aylesbury	2026-2027		1400181	Yes	
BH26FW010	Langdon Ave (f...	Aylesbury	2026-2027		1401184	No	Template Atta...
BH26FW001	Ballard Close (f...	Aylesbury	2026-2027		1400852	No	Template Atta...
BH26FW013	Cryers Hill Road	Cryers Hill	2026-2027		45500282	Yes	Template Atta...
BH26FW002	St Annes Road ...	Aylesbury	2026-2027		1401366 14013...	No	Template Atta...
BH26FW005	High Street	Prestwood	2026-2027		7300944	Yes	Template Atta...
BH25FW008	Old Stoke Road	Aylesbury	2026-2027		1401268	Yes	Template Atta...
BH26FW003	Woodside Road	Amersham	2026-2027		7300134	Yes	Template Atta...

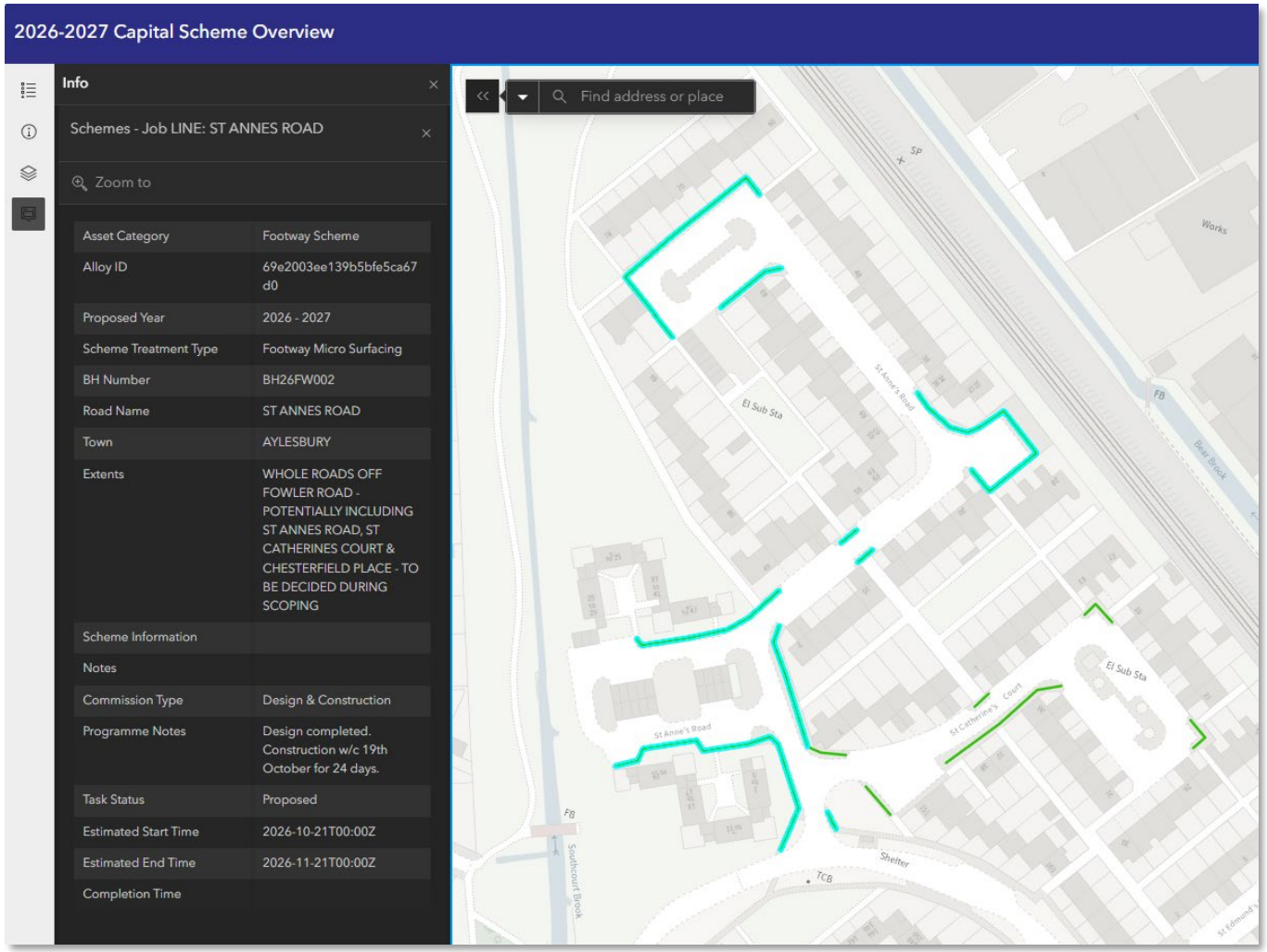
Master Programme – Power BI Dashboard

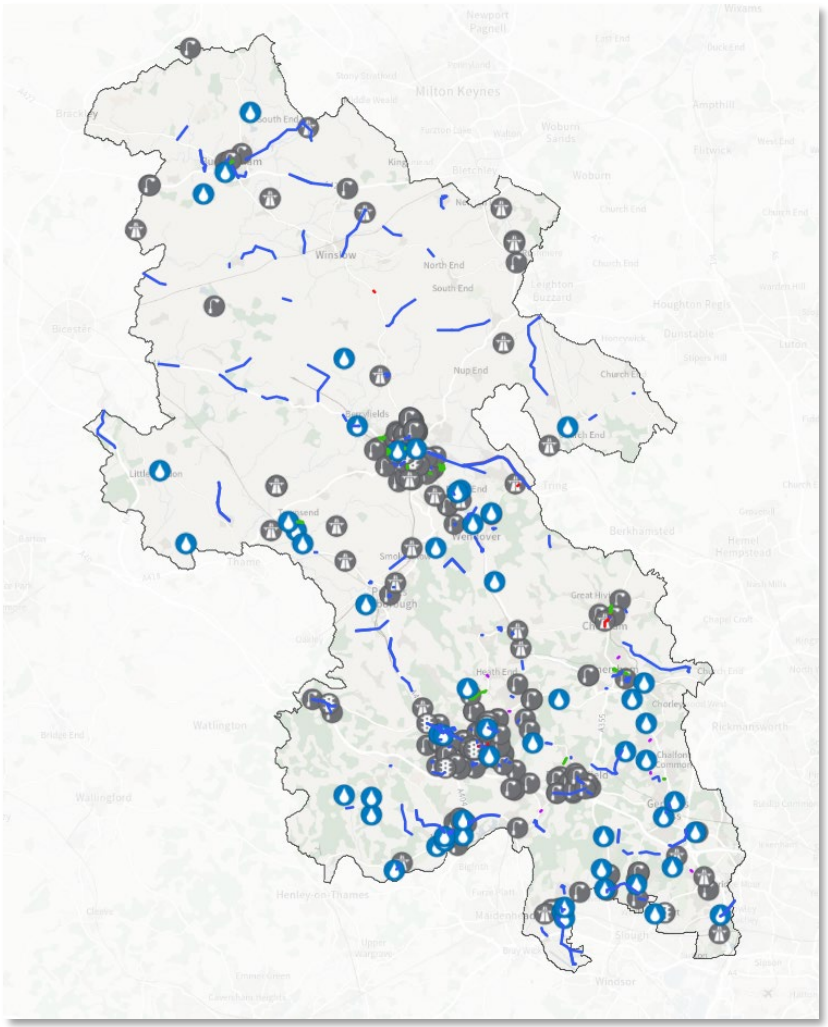


Master Programme – Causeway



Master Programme - esri UK & Ireland





Buckinghamshire Highways

Open APIs

Application Programming Interface

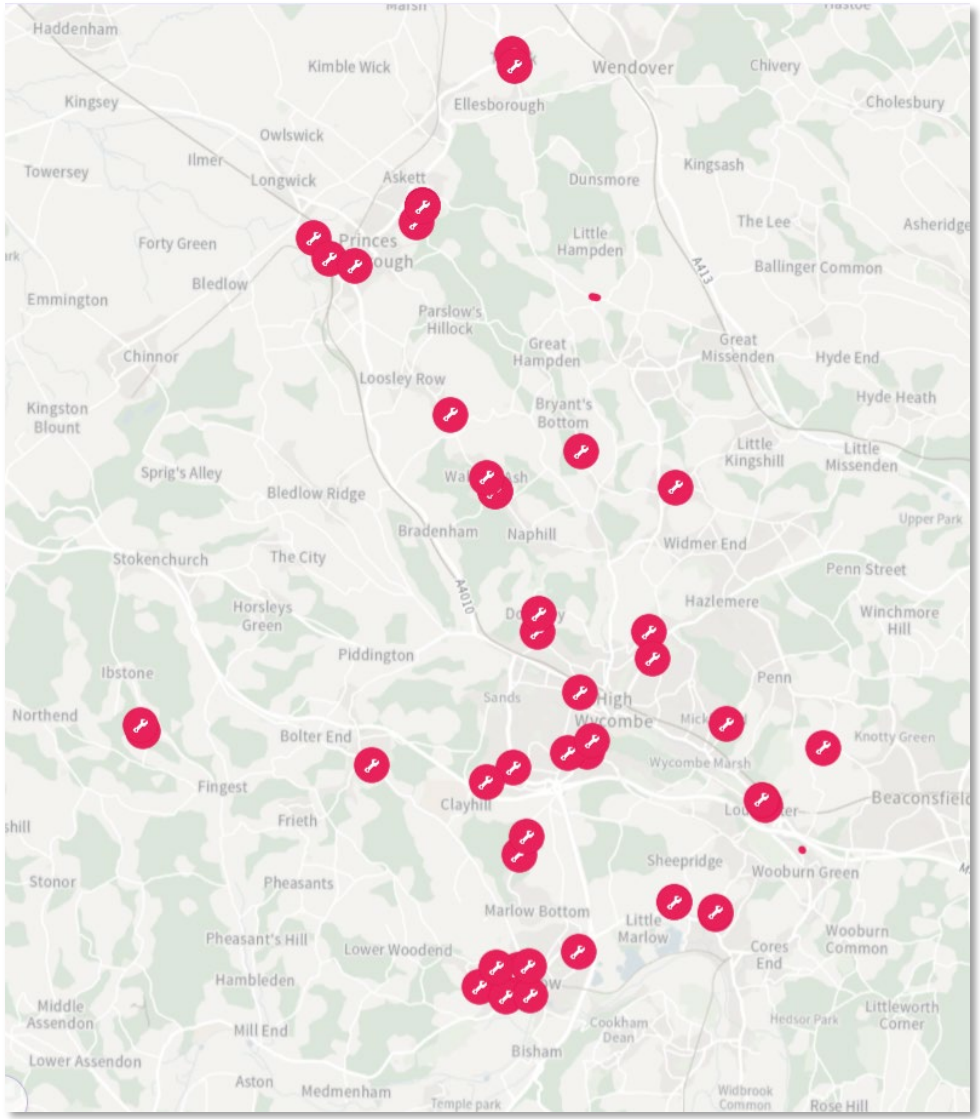
October 2026

Open APIs - Causeway

Last activity **2 days ago**
6A7B0FF6_

JOB-2942732
1109380, CAT2, 21/09/2026 13:10

Total Estimated Cost	1,538.87
Report Details	6a7b127bf904259066518e49
Confirm ID	1109380
Confirm Status	300 - Job | Scheduled
Received by Balfour Beatty	14 August 2026 11:53:21
Created By	helencombes
Created Time	11 August 2026 13:05:10
Last Edit By	alloybot
Last Edit Time	24 September 2026 13:19:33
USRN	45501603
LAT	CB7
KPI Exempt	✓
KPI Exemption Notes	PDEX-01 | Restricted Access issues with parking requires parking restriction due to cars.
Client Approval	✗
KPI Exemption Code	800 - Job | Contractor Suggest PDEX
Result Superseded	N/A



Open APIs

VAISALA

mySociety

FixMyStreet | Pro

esri UK & Ireland

ROUTE REPORTS

STREET MANAGER

Buckinghamshire Highways

Case Study - Network Coordination & Lane Rental

October 2026

Network Coordination & Lane Rental

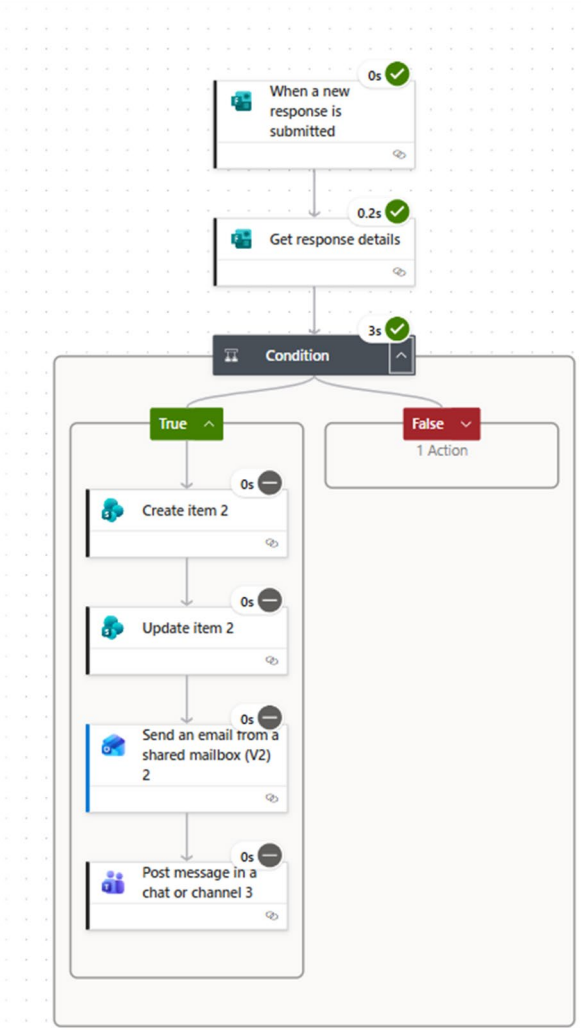
Lane Rental Pre Submission Questionnaire

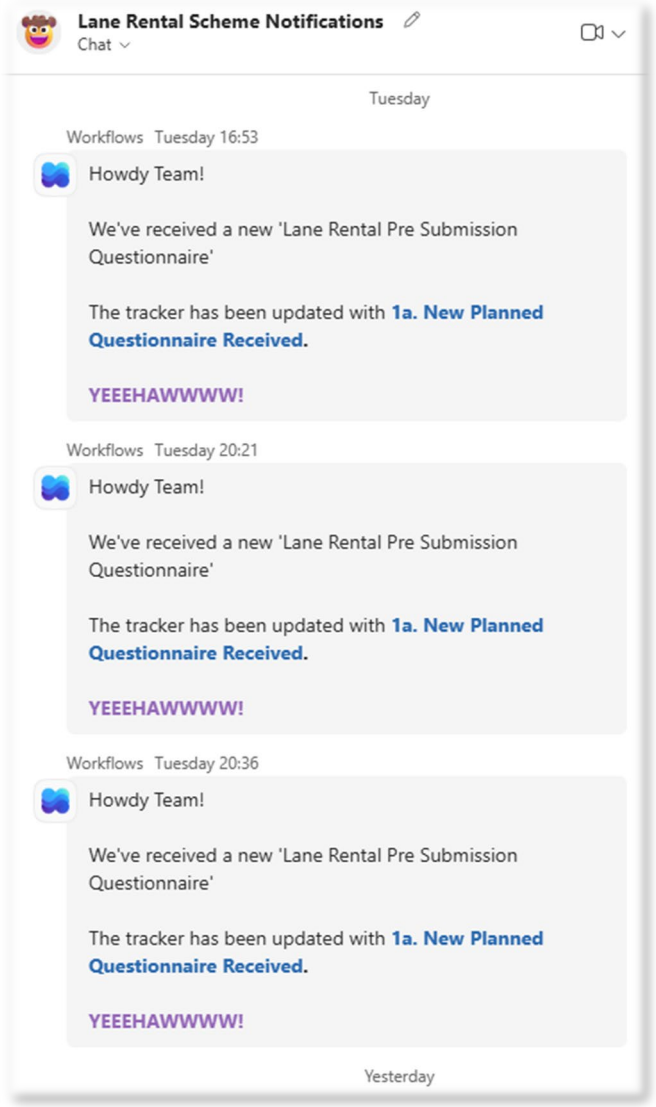
* Required

Type of Traffic Management

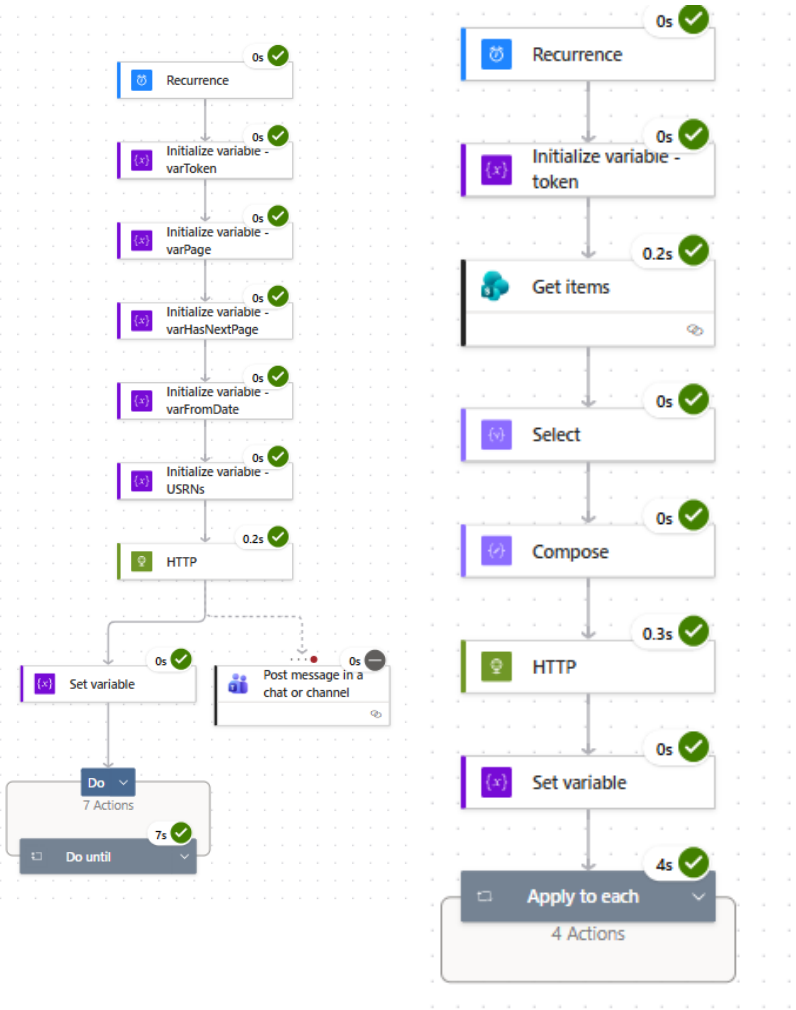
Please select the highest form of TM to be used *

- ○ Road Closure
- ○ Contraflow
- ○ Lane Closure
- ○ Convoy Working
- ○ Multiway Signals
- ◉ Two Way Signals
- ○ Stop/Go Boards
- ○ temporary Obstruction 15-minute delay
- ○ Priority Working
- ○ Give and Take
- ○ Some Carriageway Incursion
- ○ No Carriageway Incursion





Network Coordination & Lane Rental



Date Received	Permit Number	Reviewed	Status	PermitTypeAuto	HighestFormTMA...	Any Collaboratio...	Open to Collabor...	Permit or Lane Re...	PermitStatus	ProposedStartAPI
27/05/2026	AZ5021001515631-02		5. Variations	standard	multi_way_signals		False		submitted	23/08/2026
27/05/2026	BC320LCWGKDCJ6...SP63-01	Reviewed	5. Variations	minor	multi_way_signals		False	Permit Fee	granted	28/05/2026
27/05/2026	MX04410334854-01	Reviewed	Lane Rental Ass...	immediate_urgent	no_carriageway_inc...		False	Permit Fee	granted	27/05/2026
27/05/2026			1a. New Planne...			No	No			
27/05/2026	LP231S30012184-01	Reviewed	5. Variations	immediate_urgent	two_way_signals		False	Lane Rental Fee	granted	27/05/2026
27/05/2026	BC320WMWGRKFP...01		5. Variations	minor	some_carriageway_i...		False		submitted	02/06/2026
27/05/2026	D400133778201-01	Reviewed	Lane Rental Ass...	major	road_closure		False	Permit Fee	granted	29/05/2026
27/05/2026	BC320LCWGSJGC4G-S11-01	Reviewed	Lane Rental Ass...	minor	some_carriageway_i...		False	Permit Fee	granted	01/06/2026
27/05/2026	BC325SOUTHV8023-01		1c. New Submis...	minor	two_way_signals		False		cancelled	02/06/2026

Passenger Transport Automation

Since June, over 400 automated notifications have been sent to our Passenger Transport team following receipt of an Emergency or Urgent permit within an hour of notification.

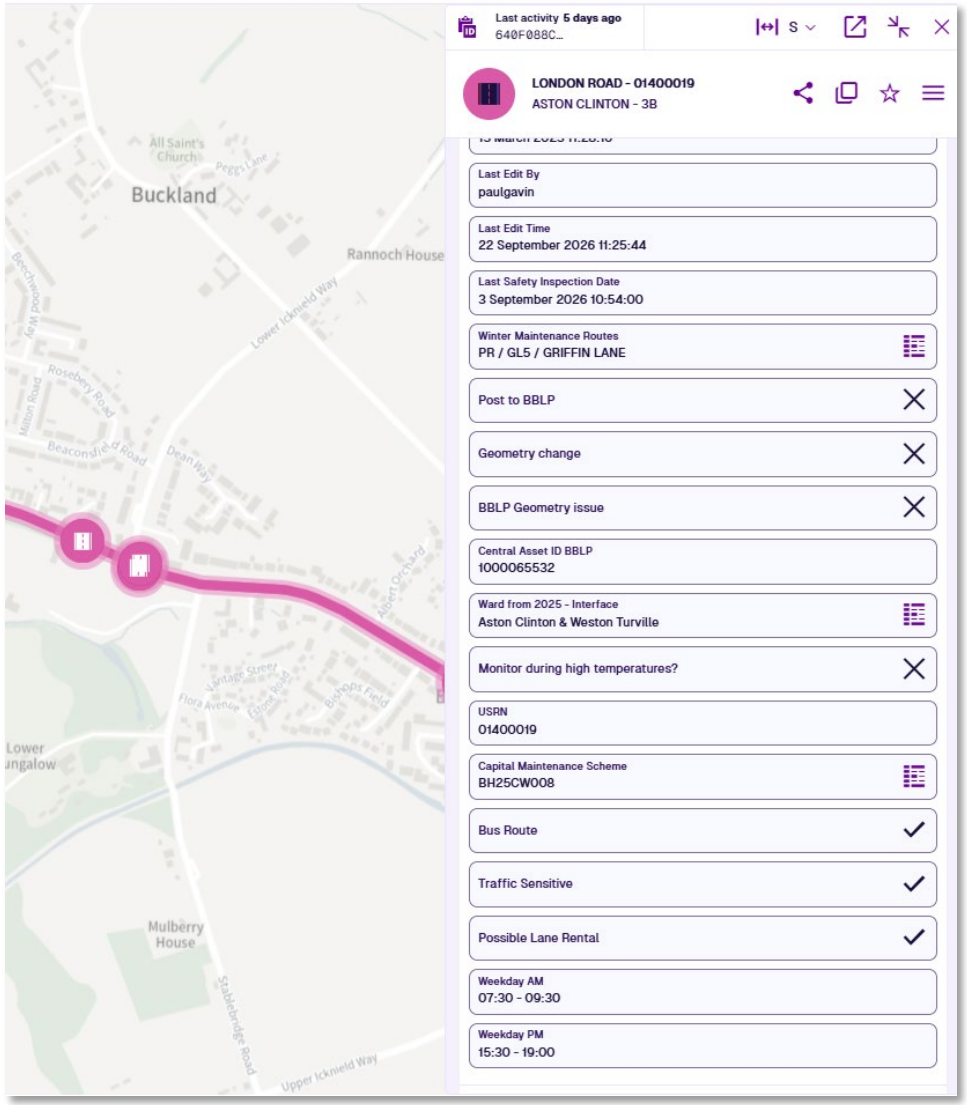
From: Forward plans Mailbox
Sent: 16 July 2026 10:16
To: Bus Stops, Busstops <busstops@buckinghamshire.gov.uk>;
Subject: URGENT: Bus route 1A impact - BELLINGDON ROAD, CHESHAM
Importance: High

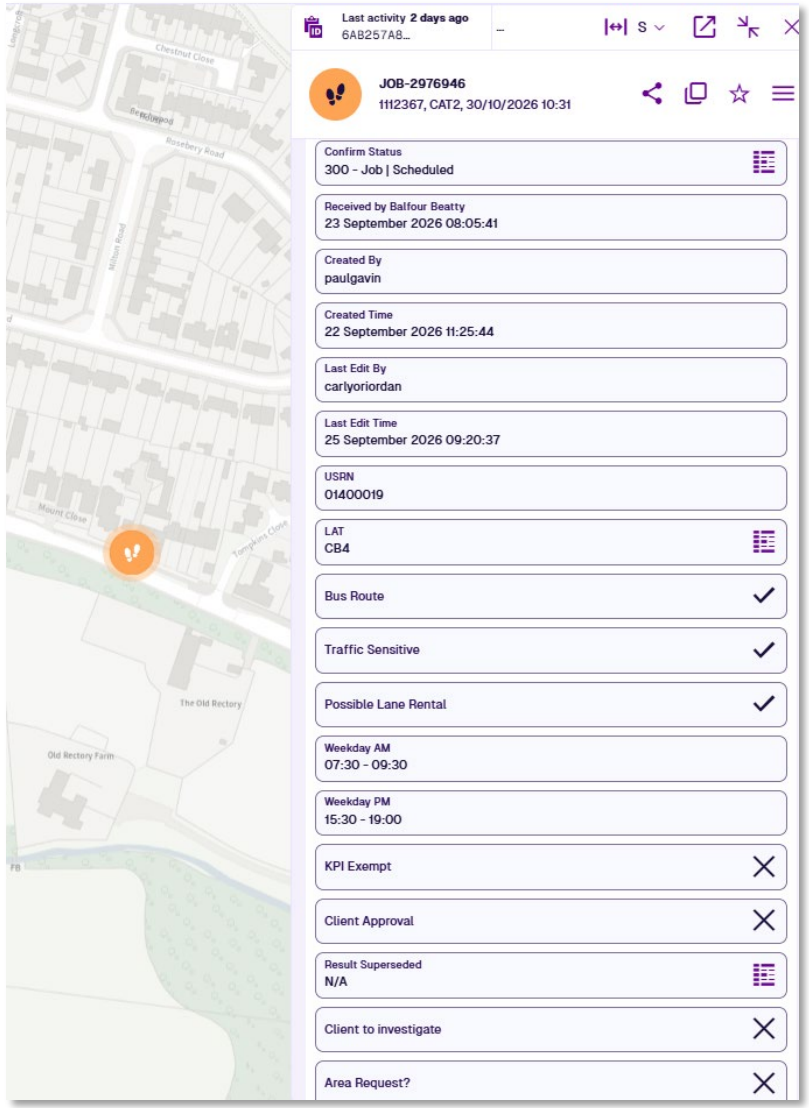
Emergency street works may affect your route 1A

Bus Route Number	Road	Map (USRN)	Works Category	Traffic Management	Dates	Utility Company	Works Description
1A	BELLINGDON ROAD, CHESHAM	7300407	immediate_urgent	road_closure	16Jul26 - 17Jul26	AFFINITY WATER - C	Repair of burst water main with excavation, pipe replacement, testing, and reinstatement

This alert has been automatically generated because the works are emergency/urgent and include road closure or multi-way signals on a USRN mapped to your route.

Operational efficiencies - Causeway





Summary

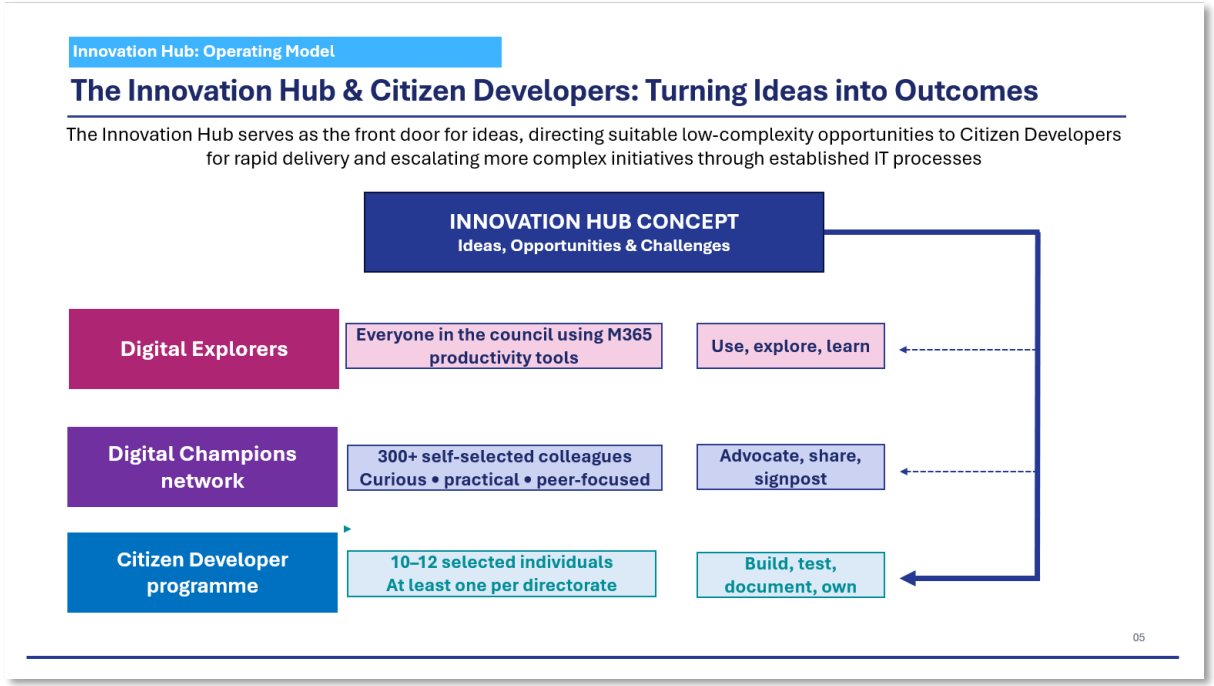
Buckinghamshire Highways

- Think about the opportunities available to you within your existing platforms
- Use open platforms for greater ability to access and share data in support of the DfT's requirement for transparency
- Create a common data infrastructure to support the collection of higher quality and timely data
- **Provide space for officers to think rather than do**

Buckinghamshire Council – Strategic Direction







Buckinghamshire Highways

Thank you

October 2026