



Symology has been helping clients to streamline and optimise their asset and infrastructure management since 1983. In that time, we've come to really understand our customers' worlds. We've worked with them to ensure our solutions have evolved with their needs and the challenges they face. It's this insight that drives us, focusing our expertise on delivering coherent, adaptable software that gives them real knowledge, complete confidence and valuable reassurance.



Symology: A New Dawn

Presented by Mike Bartlett (Managing Director)

New Dawn Definition

Meanings

Definition Source ▾

Word Forms

Noun

noun

A [new beginning](#) ; a [fresh start](#) ; an [important](#) , [promising turning point](#) .

Wiktionary ...

- Decarbonisation and Net Zero





BETTER BUSINESS TOGETHER

- Born in 1983
- Employee Owned in 2014

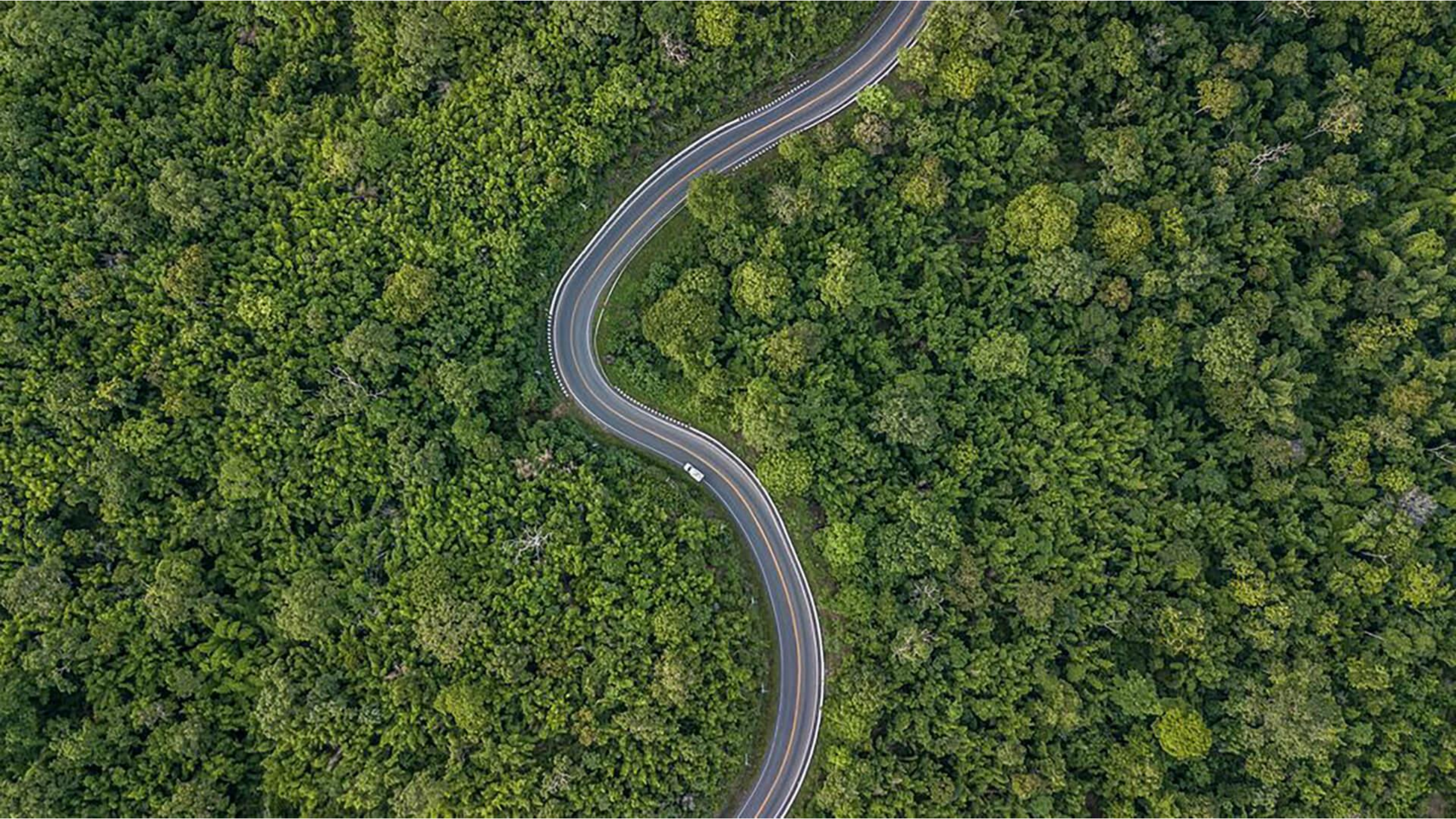
- Employee Choice – who do we want to be?
- Open and honest, ethical
- Customer and employee focus – collaborative
- Better to things well, than to do things first.

- Ethical Sourcing, Social Value, Diversity....Environmental impact.





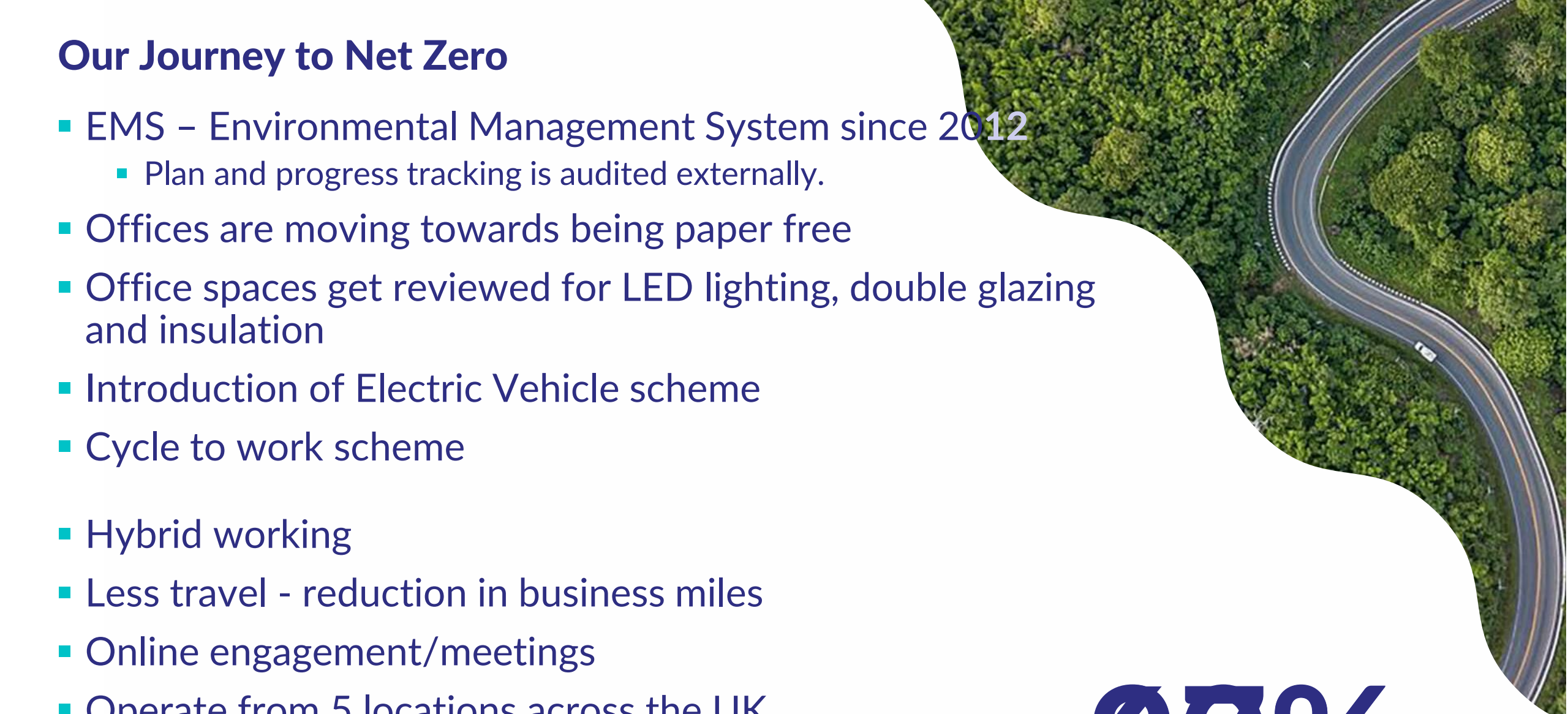
Advancing infrastructure management



Our Journey to Net Zero

- EMS – Environmental Management System since 2012
 - Plan and progress tracking is audited externally.
- Offices are moving towards being paper free
- Office spaces get reviewed for LED lighting, double glazing and insulation
- Introduction of Electric Vehicle scheme
- Cycle to work scheme

- Hybrid working
- Less travel - reduction in business miles
- Online engagement/meetings
- Operate from 5 locations across the UK
- Reduction in Company Cars



~~-80%~~



Symology

Community Events 2023

13th June – Birmingham

14th June – London

21st June – Leeds

28th June -
Manchester

Our Journey to Net Zero

5



OUR NET ZERO PLAN

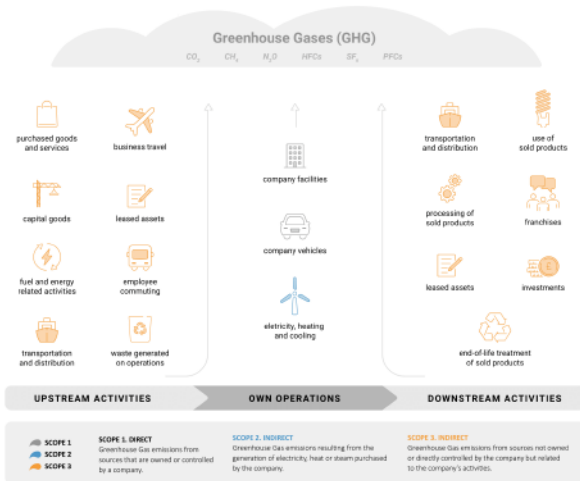
HOW WE BELIEVE YOU CAN ACHIEVE NET ZERO

We believe Net Zero can be broken down into four clear steps – Review, Reduce, Renew, Rebalance. These can then be used to decide your approach. It starts first with reviewing your footprint, so you know where you are. You then reduce your resource use to ensure there is no unnecessary waste, followed by transitioning to renewables and cleaner technology (such as electric vehicles) and then the remaining carbon emissions can be offset.

WHICH EMISSIONS SOURCE WE INCLUDE

Our Review stage of Net Zero includes a review of your carbon emissions and is mapped to the internationally recognized GHG Protocol. This carbon data forms the baseline of your Strategy. The GHG Protocol splits emissions into three scopes:

- **Scope 1** – direct emission from combustion of fuels by facilities and vehicles
- **Scope 2** – indirect emissions from purchased electricity, steam, heat, and cooling
- **Scope 3** – indirect emissions from your value chain split into upstream and downstream emissions and into 15 categories.



6



DEVELOPING YOUR NET ZERO PLAN

OUR APPROACH TO DEVELOPING YOUR NET ZERO PLAN

Below are the steps we would take to develop your Net Zero Strategy. This journey takes you from being in a potential position of completing mandatory reporting and climate-related compliance to having a strategic approach to tackling climate change and aligning to Net Zero.



Our Journey to Net Zero

Emissions	Carbon Calculator	Consequences
<p>Introduce key contacts within the business who have the relevant expertise and can support the project</p>	<p>Support the vision of a consistent and unified view of sector through the use of a sector wide carbon calculator</p>	<p>Work together to speed up transition towards Net Zero through sharing of innovation and ideas</p>
<p>Provide data on scope 1, 2 & 3 CO2e emissions generated by road/street works</p>	<p>Provide expertise and help carry out user acceptance testing once the calculator is produced</p>	<p>Provide intelligence and ideas on the social, environmental & economic consequences associated to Street and Road works</p>
<p>Share best practice to create a consistent approach to recording and reporting on CO2e emissions data</p>	<p>Share best practice accounting and reporting requirements to support the optimal use of the calculator</p>	<p>Share knowledge of current and innovative design options and business models</p>
<p>Commit to trying to achieve ambitious, CO2e reduction targets agreed through collaborate in the sector</p>	<p>Commit to building the carbon calculator into all business processes so it becomes a business as usual activity.</p>	<p>Commit to provide a unified voice for the sector to increase demand for innovations and reduce supply costs to</p>







Aurora

Informing Intelligent Decisions

Helping Your Journey to Net Zero

Microsoft Azure

- 100% Carbon Neutral since 2012
- Savings against on-premise alternative

99.27%

▼ Carbon emissions saved (mtCO₂e)



5.92

▼ Carbon emissions saved (mtCO₂e)



14.47K

▼ Carbon emissions saved in driven distance



ML

KM





Introducing

Helping Your Journey to Net Zero



Helping Your Journey to Net Zero



Helping Your Journey to Net Zero



- Sustainability
 - Collaboration
 - Coordination
 - Traffic Management
 - Compliance
 - Reducing Defects
 - Reducing FPNs
 - Mobile Working
- Self Inspecting

Aurora - Collaboration & Coordination



SYMLOGY SALES SYSTEMS TEST

Search

100 m
400 ft

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1:5000

Activities

- Road Closed
- High Impact
- Medium Impact
- Low Impact
- Restriction In Force
- Unattributable Works
- Defective Apparatus
- No Impact

Diversions

- ASD

Streets

Street Manager Activities

- Road Closed
- High Impact
- Medium Impact
- Low Impact
- No Impact
- Restriction In Force

Street Manager Permits

- Road Closed
- High Impact
- Medium Impact
- Low Impact
- No Impact

Aurora - Collaboration & Coordination



SYMOLOGY Search

Selected Items

Street Manager Open Data Permit

Summary

- Permit Reference: AZ5011001168288-02
- Promoter Organisation: CADENT GAS LIMITED
- Category: Works in progress, Major
- Start Date: 29/07/2022 11:13
- End Date: 16/09/2022
- Permit Application Status: granted
- Street: OAKWOOD AVENUE
- Address 2: DUNSTABLE
- Conditions: NCT01a, NCT11b, NCT01b, NCT11a
- Traffic Management: Give and take
- Surface Location: Footway, Carriageway
- Highway Authority: CENTRAL BEDFORDSHIRE COUNCIL (240)
- Activity Type: Utility asset works
- Works known more than 6 months in advance or TTRO Required?: No
- Response to COVID-19?: No

100 m / 400 ft

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Aurora - Collaboration & Coordination



Potential Conflicts for Activity on Evelyn Road, Dunstable, Central Bedfordshire, 18/04/2023 - 30/04/2023

30 m
100 ft

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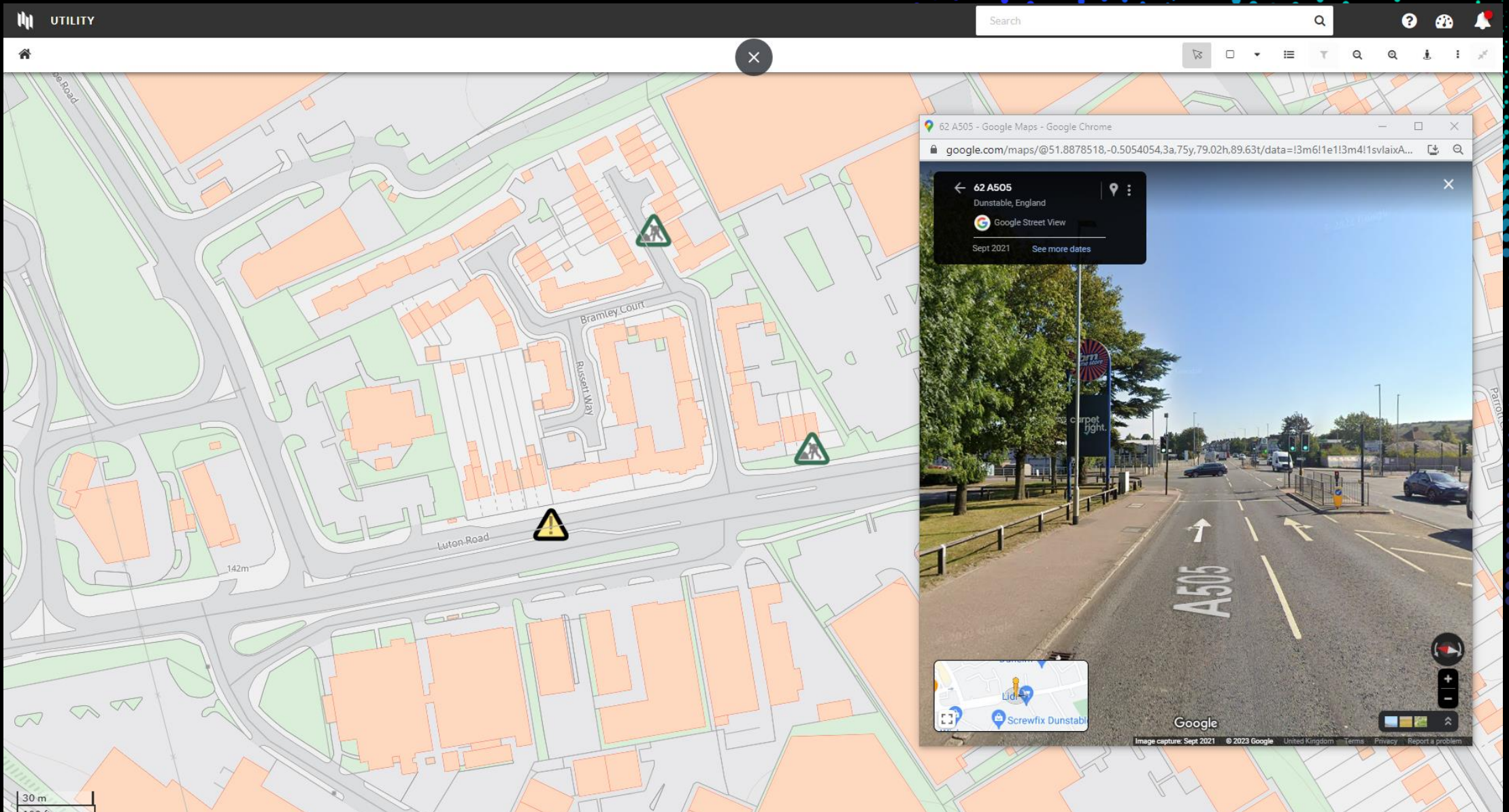
Potential Conflicts

SM Permits (3)

- 74m, 21/04/2023 - 25/04/2023M...
Some carriageway incursion, EVELYN RO...
- 84m, 19/04/2023 - 21/04/2023M...
Some carriageway incursion, POYNTERS ...
- 89m, 03/05/2023 - 05/05/2023M...
No carriageway incursion, POYNTERS RO...

Do you want to continue?

Aurora - Collaboration & Coordination



Aurora - Compliance/Defect Management/Minimising FPNs



- Live Dynamic Enquiry Reports
 - Simple column selection
 - Point and click filtering
 - Highlighting rules

SYMOLOGY SALES SYSTEMS TEST

Start Due

Category

<input type="checkbox"/>	Due Date ↑	Activity Reference	Local Ref	Street	Address 2	Highest Traffic Management	Start Date	End Date	Auth	Category	Street Traffic Sensit...	Target Workstream
Category: Major												
<input checked="" type="checkbox"/>	22/08/2022	KA100ST2022051010	14	Chiltern Road	Dunstable, Central Bedfordshire	Road Closure	22/08/2022	06/09/2022	Workstream 1	Major	Yes	KA100 - Lite Access for
<input type="checkbox"/>	22/08/2022	KA100ST2022051117	22	Beech Road	Dunstable, Central Bedfordshire	Multi-way Signals	16/08/2022	01/09/2022	Workstream 1	Major	Yes	KA100 - Lite Access for
<input checked="" type="checkbox"/>	22/08/2022	KA100ST2022051703	39	Langdale Road	Dunstable, Central Bedfordshire	Road Closure	16/08/2022	01/09/2022	Workstream 1	Major	Yes	KA100 - Lite Access for
<input type="checkbox"/>	26/08/2022	KA100ST2022051125	32	Church Street	Dunstable, Central Bedfordshire	Some Carriageway Incursion	22/08/2022	07/09/2022	Workstream 1	Major	Yes	KA100 - Lite Access for
<input checked="" type="checkbox"/>	24/02/2023	KA100ST2022051122	28	Westfield Road	Dunstable, Central Bedfordshire	Road Closure	20/02/2023	06/03/2023	Workstream 1	Major	Yes	KA100 - Lite Access for
<input type="checkbox"/>	17/03/2023	KA100ST202210111	173	Church Street	Dunstable, Central Bedfordshire	Two-way Signals	13/03/2023	27/03/2023	Workstream 1	Major	Yes	KA100 - Lite Access for
<input checked="" type="checkbox"/>	08/05/2023	KA100ST202302085	376	Frenchs Avenue	Dunstable, Central Bedfordshire	Lane Closure	08/05/2023	24/05/2023	Workstream 1	Major	Yes	KA100 - Lite Access for
<input checked="" type="checkbox"/>	15/05/2023	KA100ST202302152	388	College Road	Ripon, North Yorkshire	Lane Closure	15/05/2023	31/05/2023	Permit Authority	Major	Yes	KA100 - Lite Access for
Category: Minor												
<input type="checkbox"/>	07/10/2022	KA100ST20221031	155	Langdale Road	Dunstable, Central Bedfordshire	Give and Take	06/10/2022	06/10/2022	Workstream 1	Minor	Yes	KA100 - Lite Access for
<input type="checkbox"/>	25/10/2022	KA100ST202210171	193	Bullpond Lane	Dunstable, Central Bedfordshire	Some Carriageway Incursion	24/10/2022	26/10/2022	Workstream 1	Minor	Yes	KA100 - Lite Access for
Category: Standard												
<input type="checkbox"/>	26/08/2022	KA100ST202205109	12	Bullpond Lane	Dunstable, Central Bedfordshire	Give and Take	22/08/2022	25/08/2022	Workstream 1	Standard	Yes	KA100 - Lite Access for
<input type="checkbox"/>	07/11/2022	KA100ST202210172	194	Bullpond Lane	Dunstable, Central Bedfordshire	Some Carriageway Incursion	01/11/2022	07/11/2022	Workstream 1	Standard	Yes	KA100 - Lite Access for
<input checked="" type="checkbox"/>	31/03/2023	KA100ST202303103	442	Topcliffe Road	Sowerby, North Yorkshire	Lane Closure	27/03/2023	05/04/2023	Permit Authority	Standard	Yes	KA100 - Lite Access for
<input type="checkbox"/>	28/04/2023	KA100ST202304031	457	Rotary Way	Ripon, North Yorkshire	Multi-way Signals	24/04/2023	27/04/2023	Permit Authority	Standard	Yes	KA100 - Lite Access for

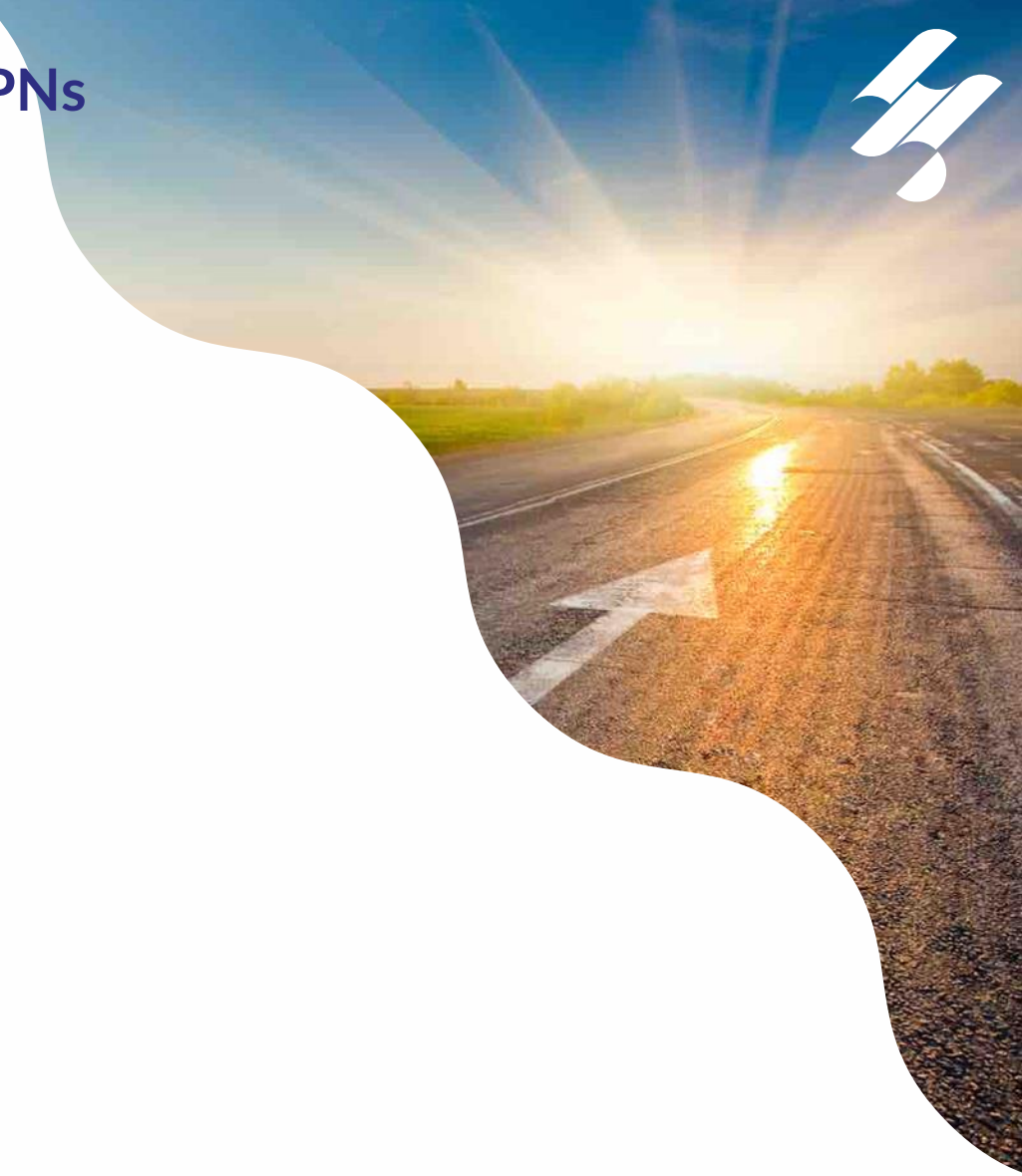
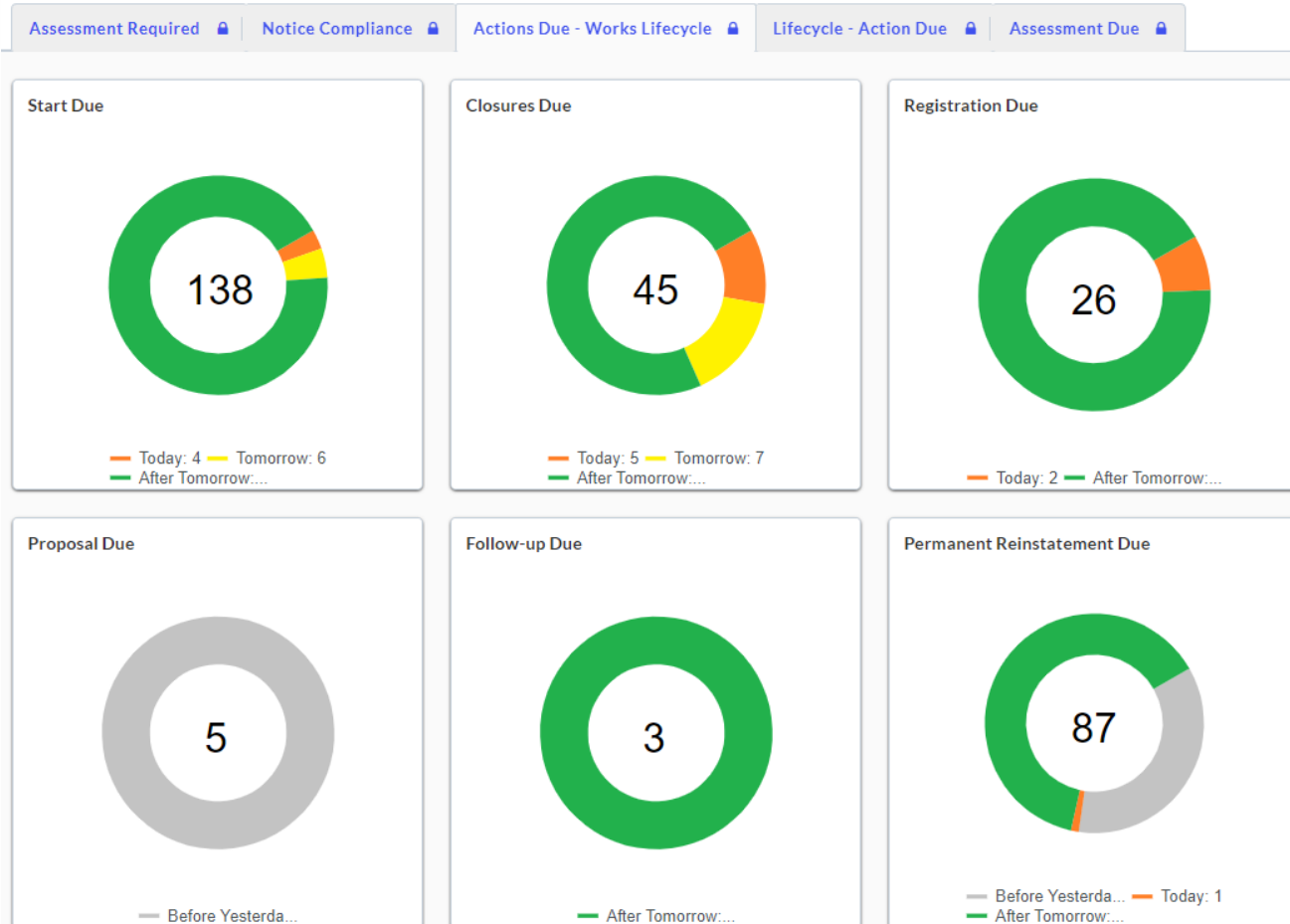
Page 1 25 Items per page 0 Item(s) ticked

Aurora - Compliance/Defect Management/Reducing FPNs



■ Dashboards

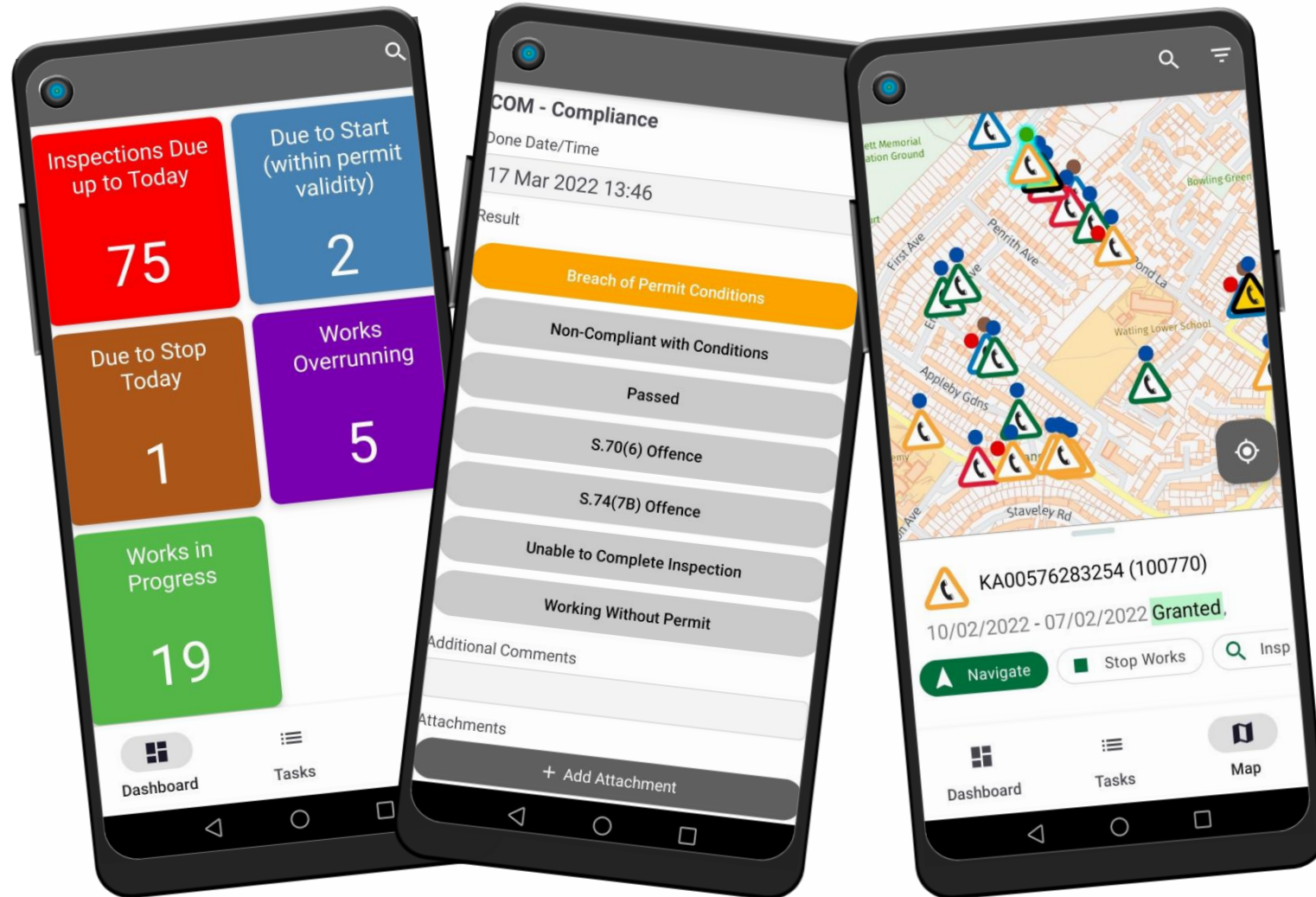
- Configurable Widgets
- Performance based metrics



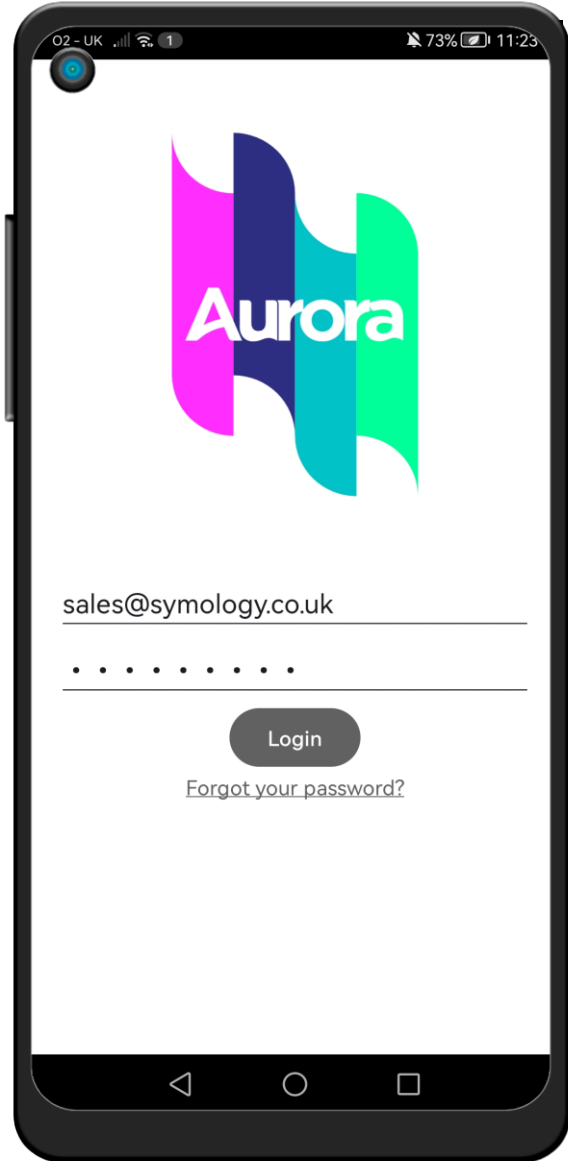
Aurora - Compliance/Defect Management/Reducing FPNs



- Mobile Working
 - UpToDate information to hand



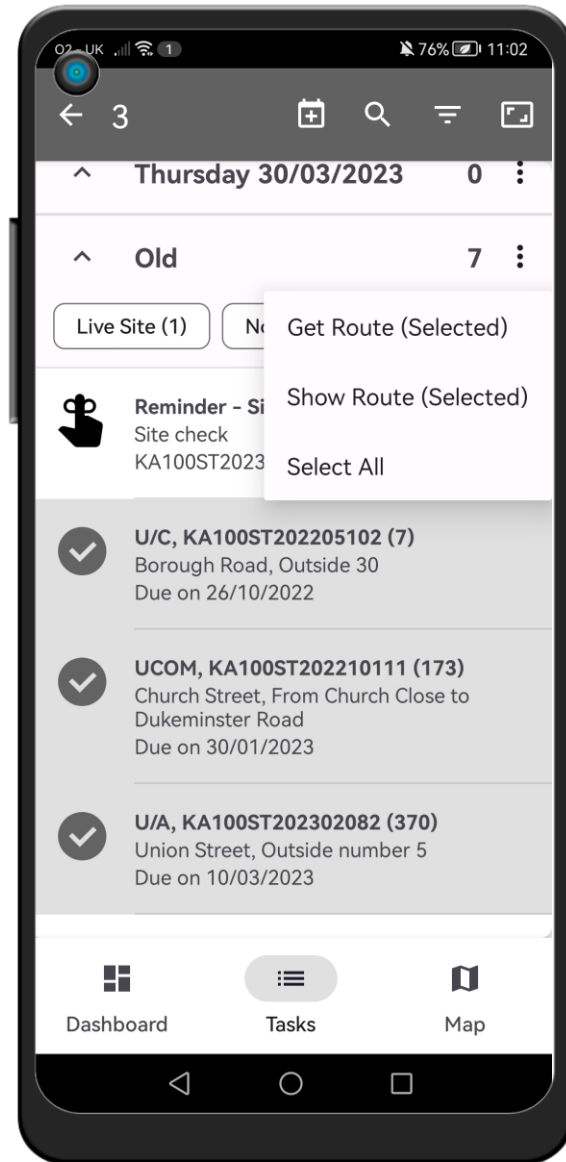
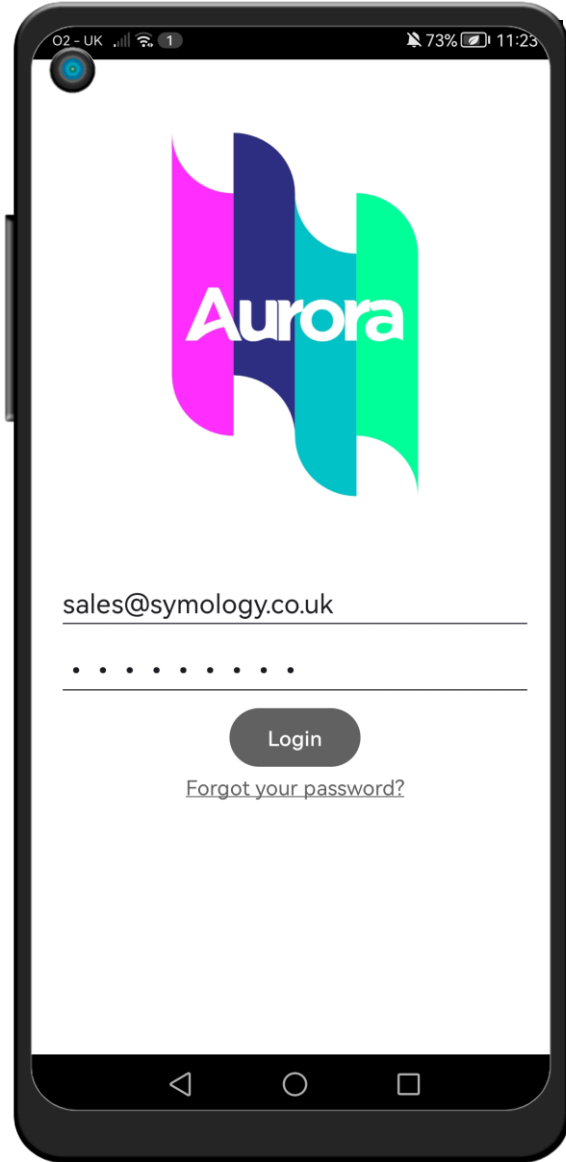
Aurora Mobile App – Streamline Field Operations



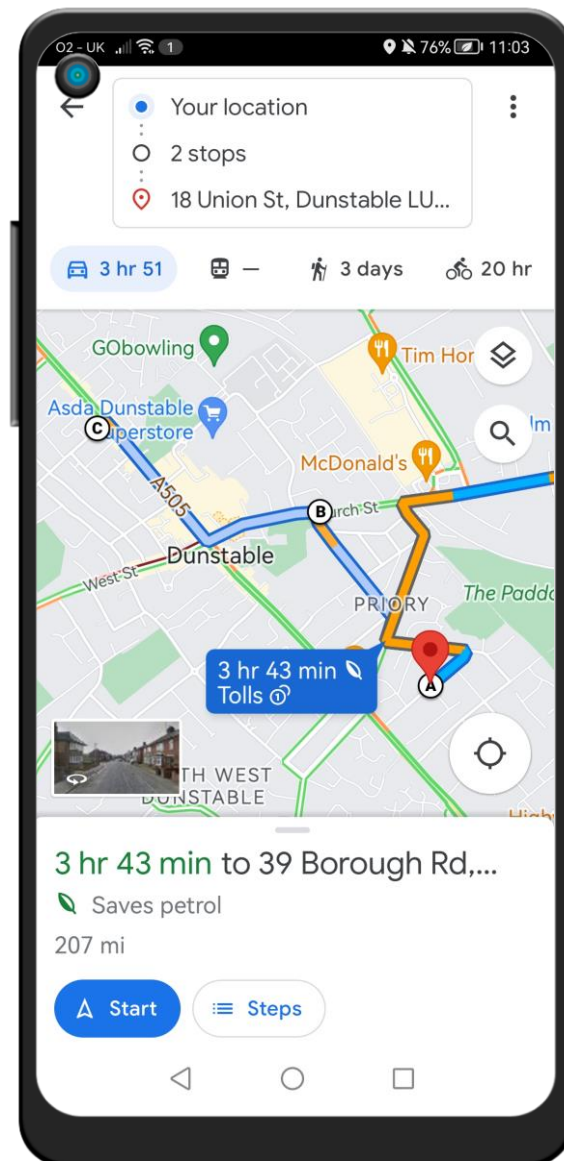
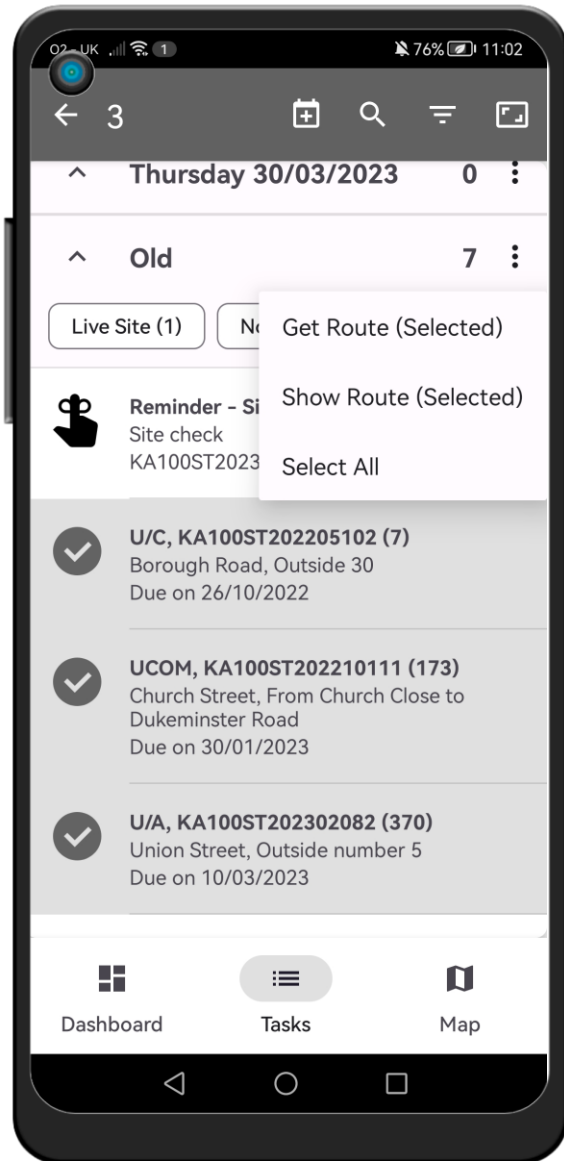
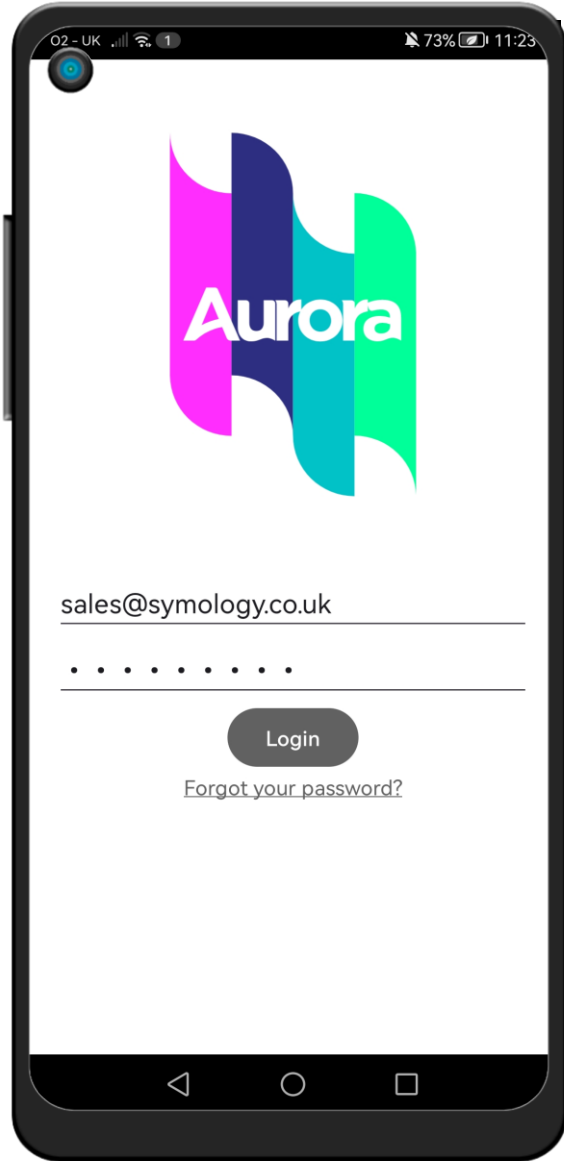
- Google Play Store
- Free for every named user
- Paper reduction
- Fuel/Travel time reduction
 - Navigate to next works/inspection
 - Full Route Optimisation



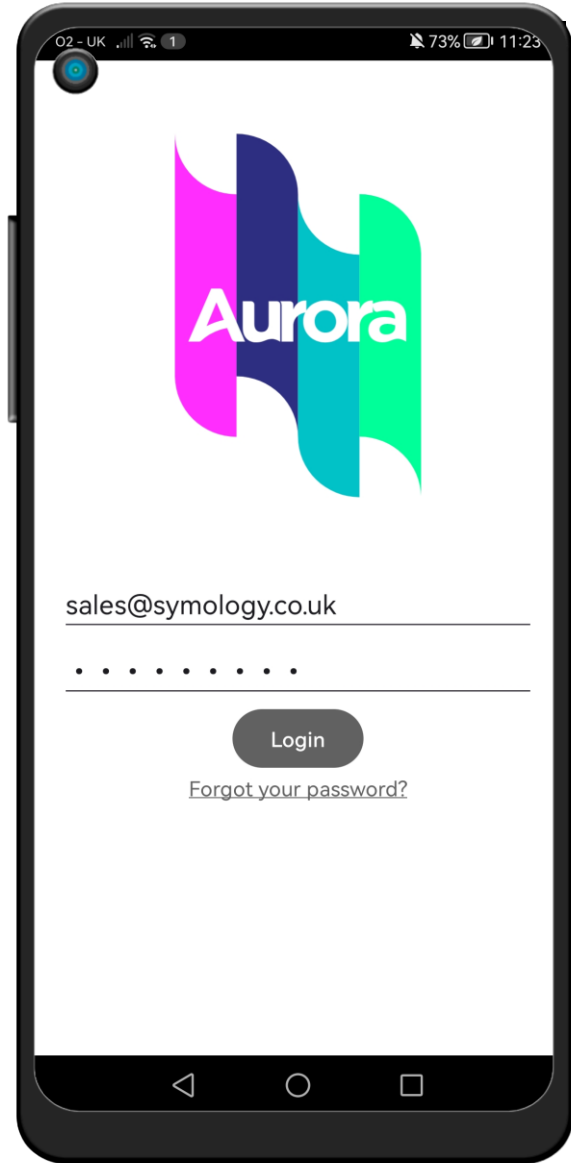
Aurora Mobile App – Streamline Field Operations



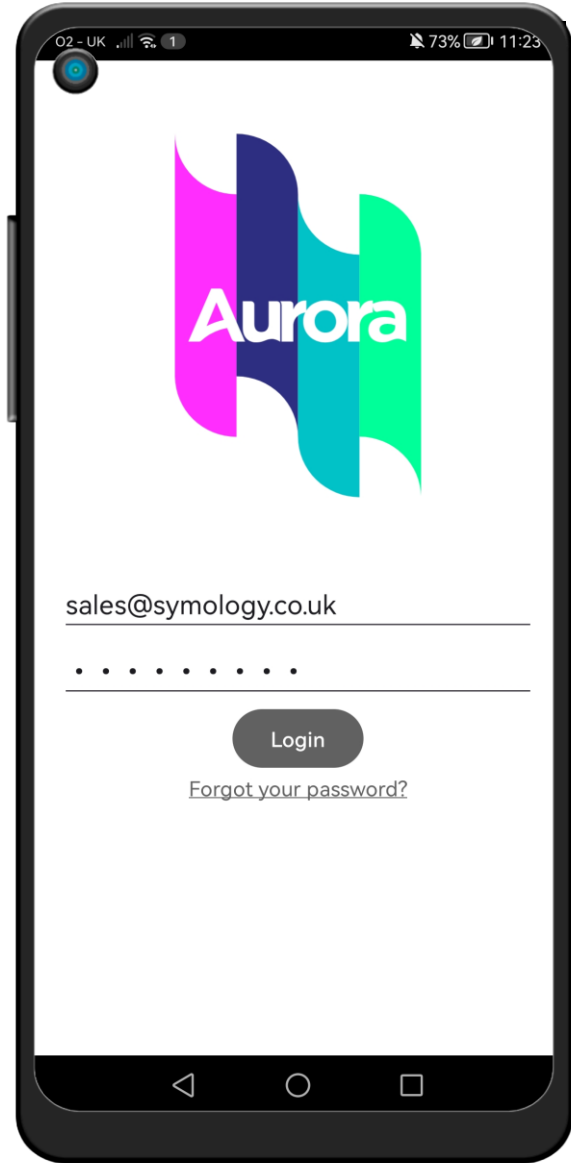
Aurora Mobile App – Streamline Field Operations



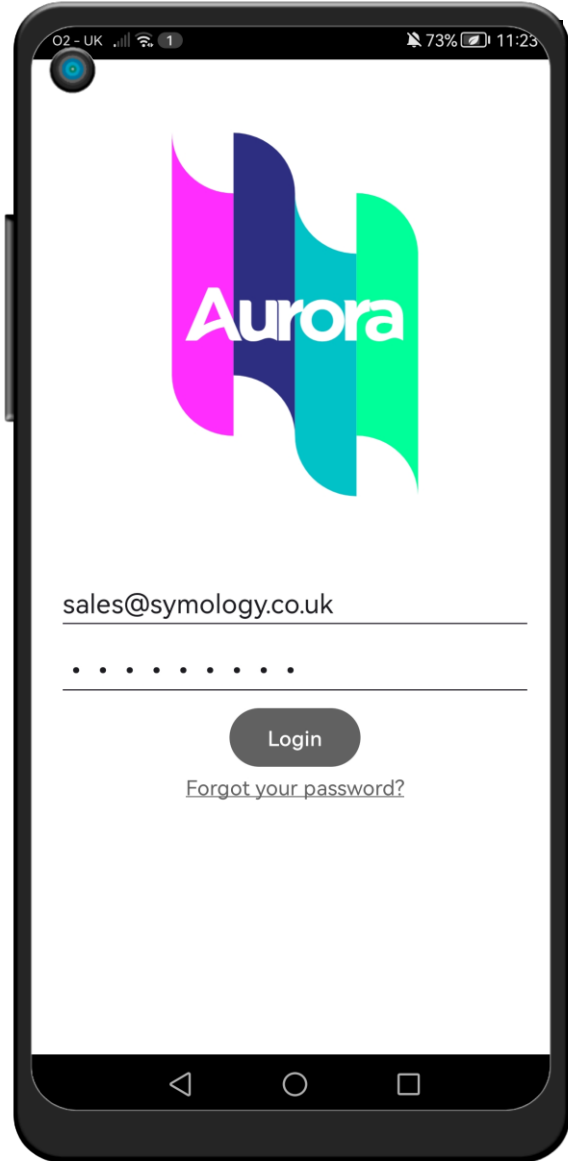
Aurora Mobile App – Streamline Field Operations



Aurora Mobile App – Streamline Field Operations



Aurora Mobile App – Streamline Field Operations

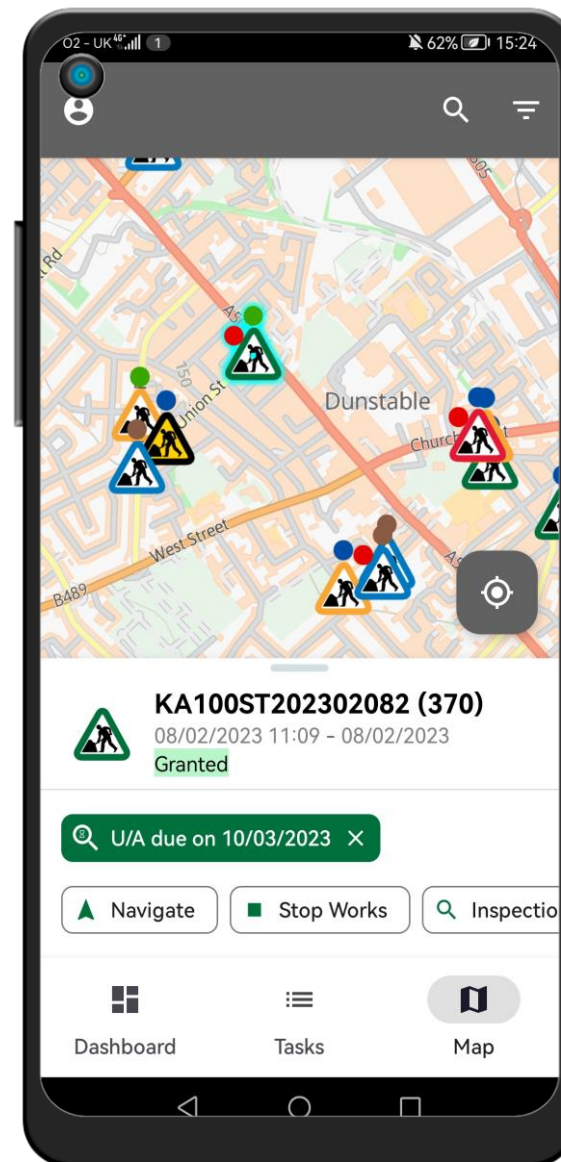
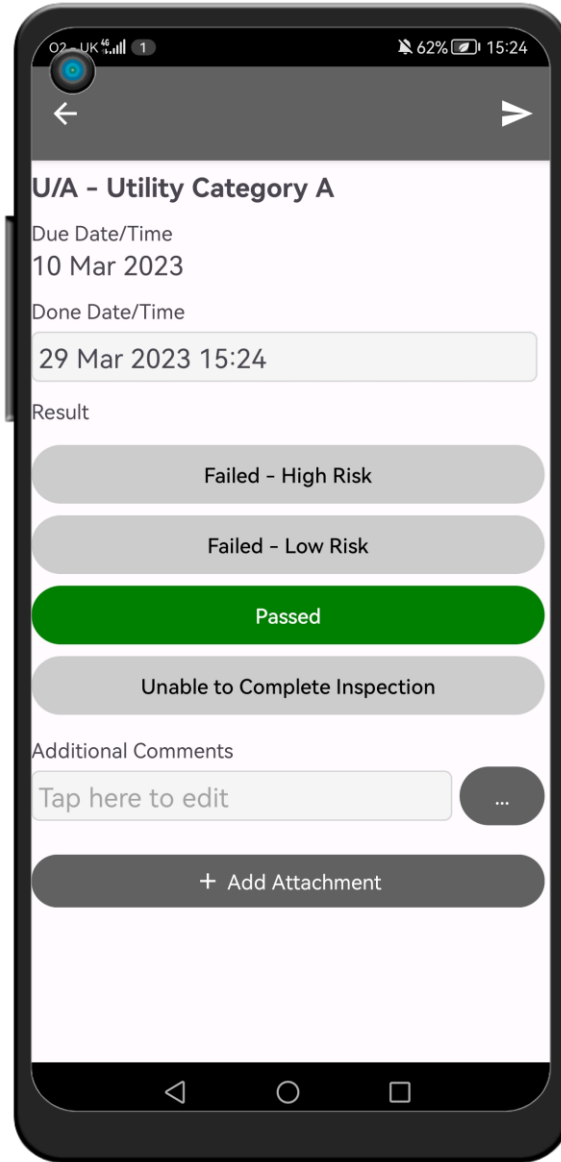
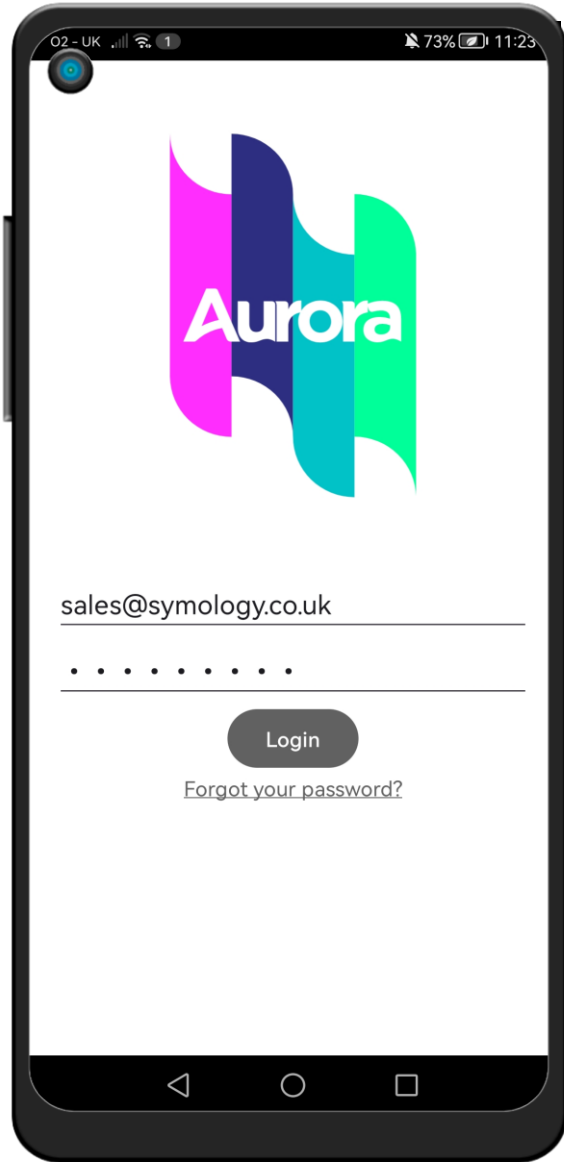


- HA Inspections
- Statutory Samples
- Routines/Investigatory/Third-Party
- Permit Compliance
- Overrun Compliance
- User-defined custom inspections

- Utility Self-reporting inspections



Aurora Mobile App – Streamline Field Operations



Aurora - Helping Your Journey to Net Zero

- Aurora Academy
- Paper reduction
- No Travel



SRWR Introduction to Aurora

INTRODUCING AURORA 0/25

A gentle introduction to the new Aurora system

- 1.1 Using this training platform 02 min
- 1.2 Accessing the system and logging in 02 min
- 1.3 Aurora View Settings 02 min
- 1.4 Introduction to the Aurora User Interface 09 min
- 1.5 The Aurora Menu 03 min
- 1.6 Breadcrumb Trail 03 min
- 1.7 Quick Search 06 min
- 1.8 Dashboards 05 min
- 1.9 Managing Dashboards

Using this training platform

For the best viewing experience, maximise the video to full screen and ensure that the quality setting (accessed via the settings cog icon) is set to 1080.



IMPORTANT! - Once you have watched the training video, please press the COMPLETE button below - this will mark the lesson as completed and move you to the next lesson or quiz automatically.

COMPLETE

NEXT

Accessing the system and logging in

Aurora – Helping Your Journey to Net Zero



SYMOLOGY SALES SYSTEMS TEST

Search

KA100ST202304031, ...

KA100ST202304031, Proposed

- Activity
- Latest Communications
- Key Dates
- History
- Special Designations
- Conditions
- Sites
- Jeopardy Charges
- Agreements
- Contacts
- Ancillary Information
- Collaboration
- Project Reference
- Linked Activities
- Conflicts
- Related
- Additional Fields
- Attachments

Permit Reference
KA100ST202304031-01

Description
Installation of cabling to facilitate EV charging points

Application Status
Submitted: Due 12/04/2023

Activity Status, Category
Proposed, Standard

Dates
24/04/2023 - 27/04/2023

Street
Rotary Way, RIPON, NORTH YORKSHIRE

Promoter
KA100 - Lite Access for Gigaclear (GIGACLEAR LIMITED)

Maintaining Authority
JB100 - NORTH YORKSHIRE COUNTY COUNCIL

Environmental Factors

Is this works part of the Net Zero project?
Yes

Have you actively sought collaboration?
Yes

Is collaboration possible for this works?
No

Please detail the total carbon emissions recorded for this works
Will be updated post completion

Attachments

6 m
30 ft

1:250 431740.29, 471538.34 Powered by Esri

Aurora – Helping Your Journey to Net Zero



TEST - ASSET MANAGEMENT DEMO SYSTEM

Search

Assets > Vehicle Charging Point...

Vehicle Charging Point : 2

Previous Next Refresh Full Screen

Summary	Parent: -	Location Text: Near shops	Owned By: North Yorkshire CC	Maintained By: North Yorkshire CC
Apparatus Details	Manufacturer: BP Chargemaster	Status: Live		
Energy Details	Spent-to-date (£): 0.00	Latest Visual Score: ★★★★★	Design Life: Not Set	
Hierarchy	Age of Asset: No Installation Date Defined			
Risks And Restrictions				
Asset Management Details				
Action Frequencies				
Location History				
Attachments				
Audit				
Asset Groups				
Routes				
Related				

Summary

Asset Reference	Status
2	Live
Last Updated By User	Last Updated Date/Time
Sarah Twigg	31/03/2023 14:12
Internal Asset Id	
6066506	

Apparatus Details

Connection Type	KW Types	Manufacturer
Type 1	50kwh	BP Chargemaster

Energy Details

Charge Code	Energy Supplier	Exclude from UMSE?	Meter Point Administrator Number
-	-	-	-
Grid Supply Point	Independent Distribution Network Operator		
-	-		

30 m
100 ft

431083.39 , 469552.71

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Stand 20

<https://aurora.symology.com/case-studies/>