



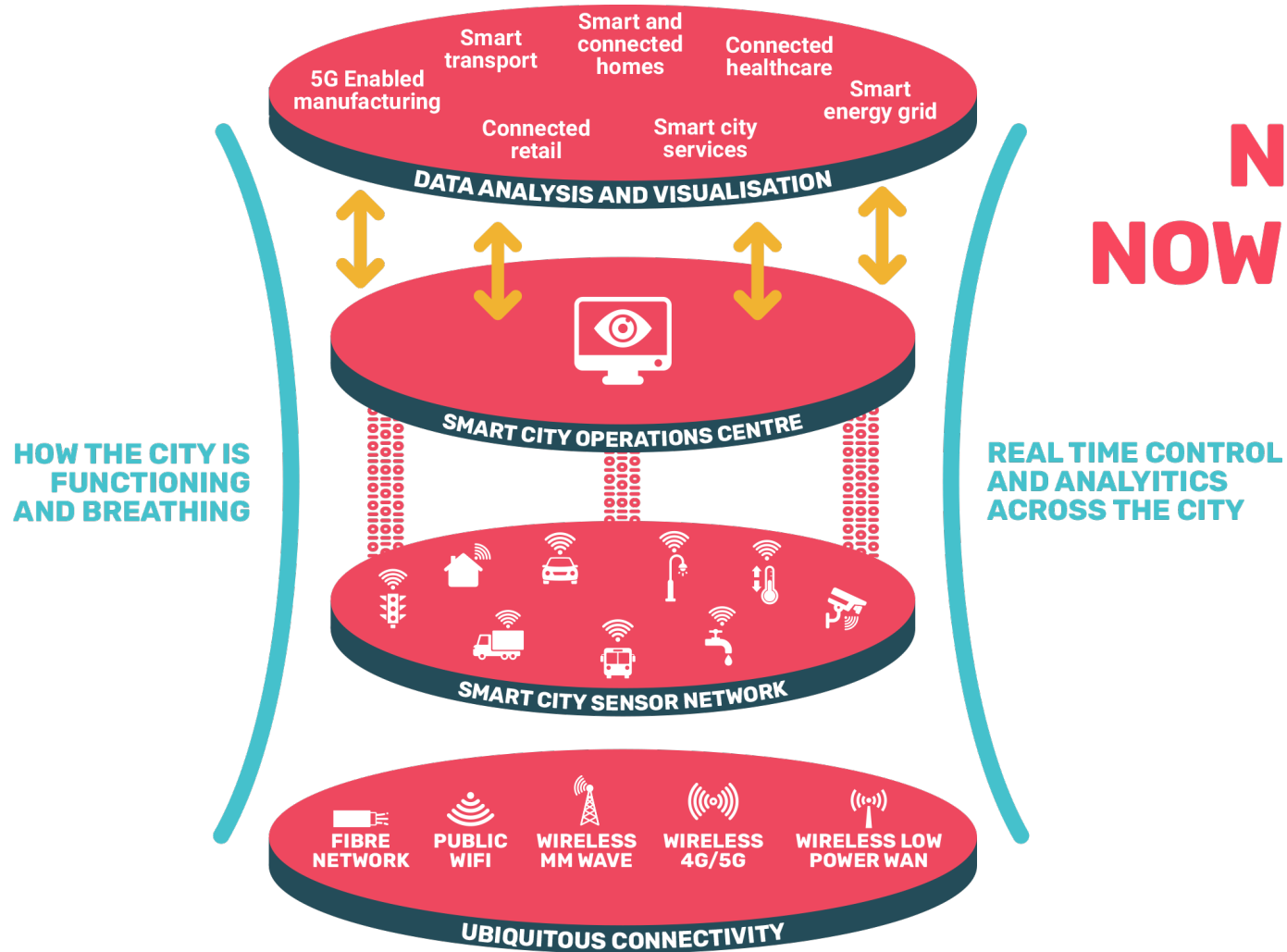
City of Sunderland **Smart**

No One
and Nowhere
Left Behind

Sunderland
City Council



Sunderland: Our Smart City Model

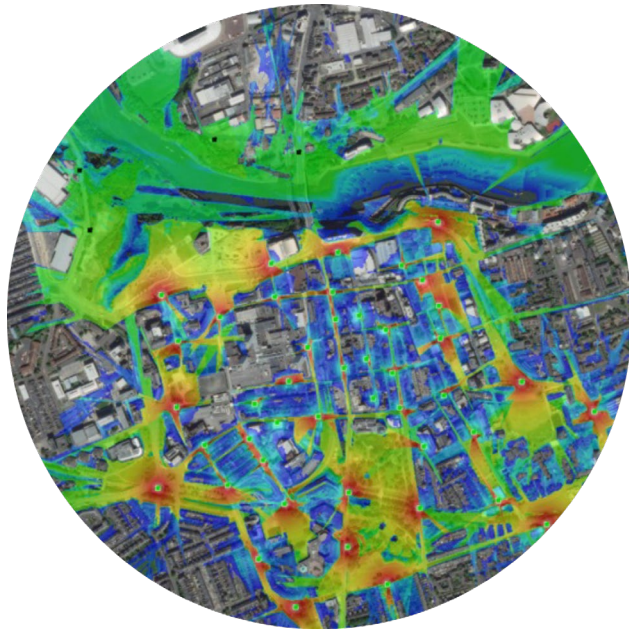


NO ONE AND NOWHERE LEFT BEHIND

Smart City – From a model to reality

Fibre -

4 major operators deploying across the city: CityFibre, Netomnia, Virgin Media, Grain Connect



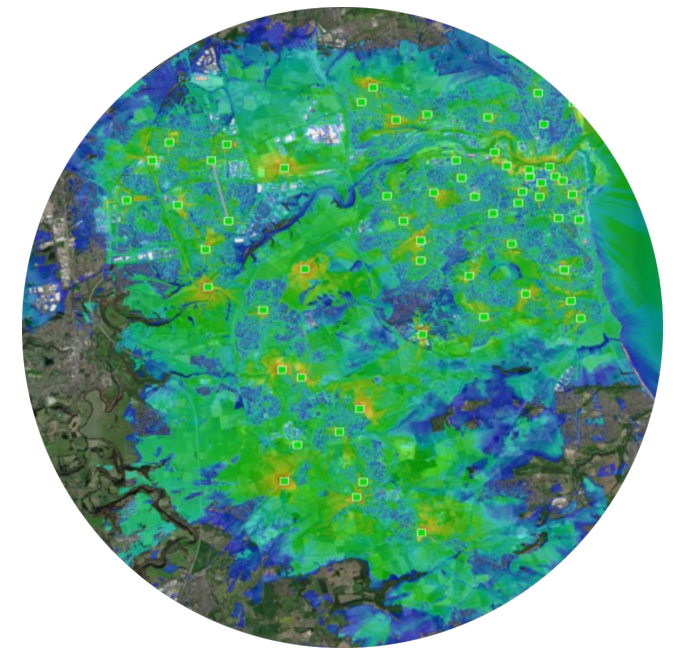
City Centre 5G

Ultrafast, free Wi-Fi



Roker Ultrafast

free Wi-Fi



City-wide LoRaWAN

(long range, low powered network)

Smart City – From a model to reality

University of Sunderland



Stadium of Light



City Hall



Riverside Car Park



Sunderland Train Station



Thompson Road / Seaburn Parks



Culture House



Eye Hospital



HICSA



Riverside Footbridge



UK SPF – 24 Community & Digital Hubs



Innovate UK



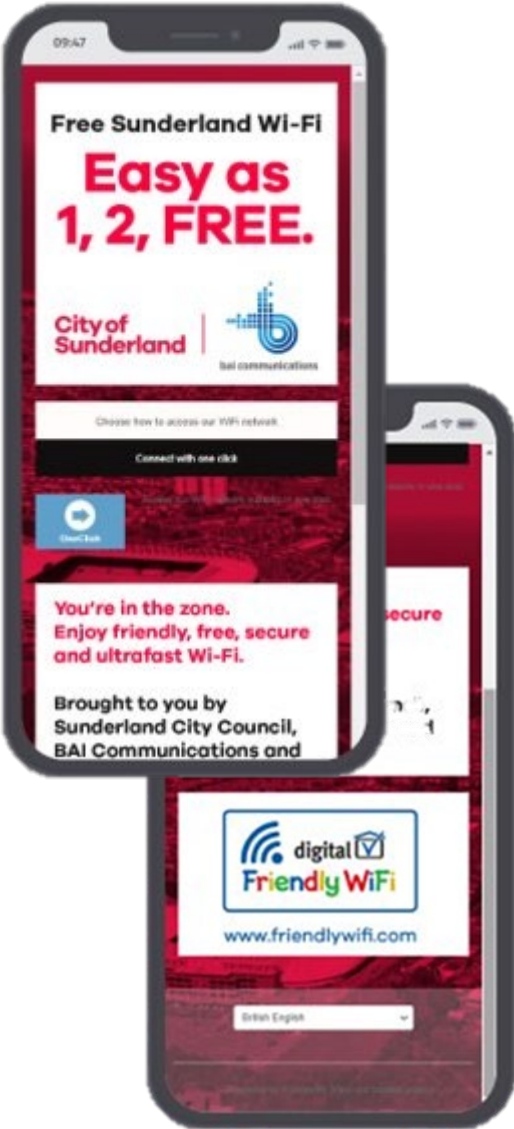
DSIT / SONET



DSIT / 5GIR

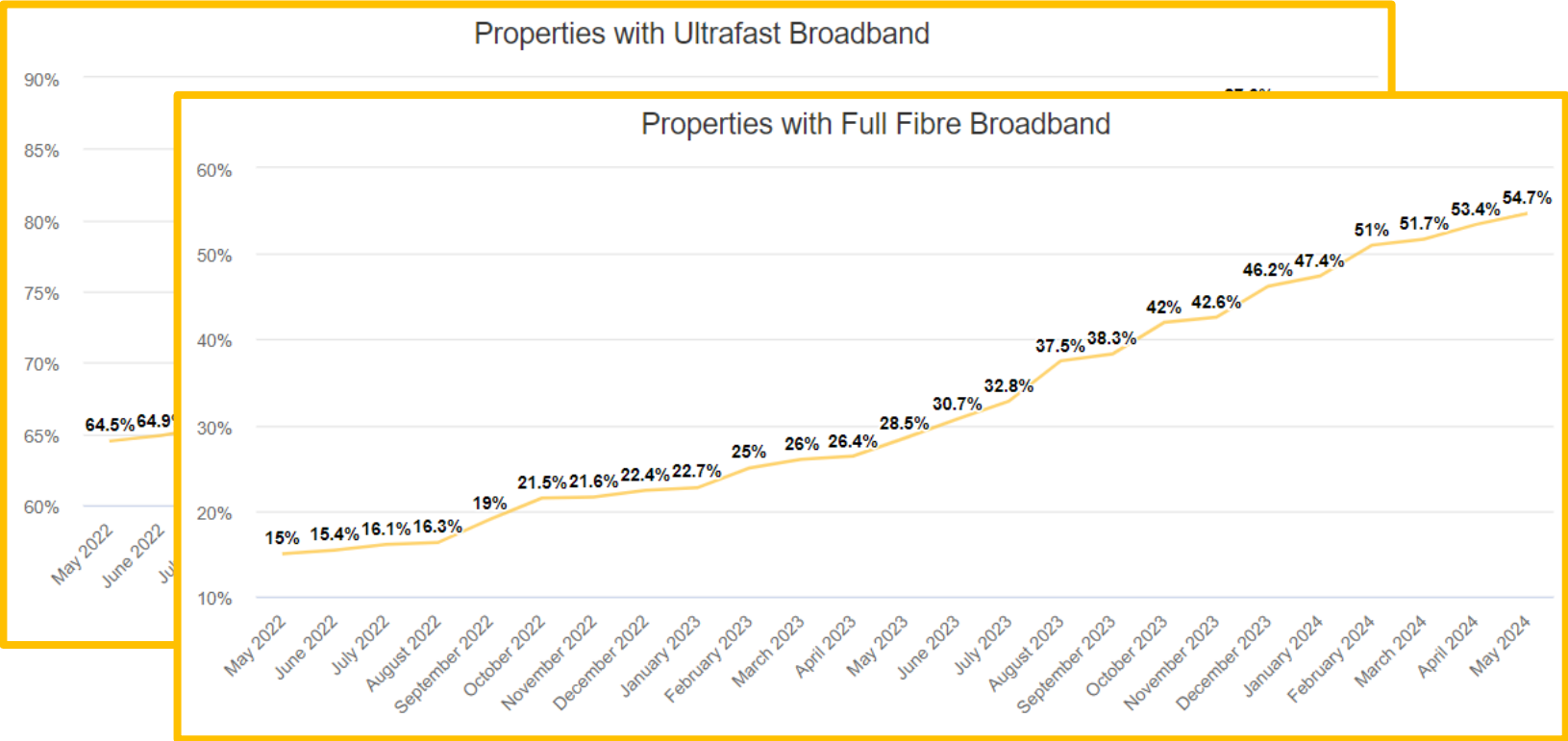


Smart City – Being Connected in a Connected City



Results:

- March 2024 – 50,816 connections (25,295 Eduroam)
- April 2024 – 50,213 connections (23,476 Eduroam)
- May 2024 – 51,530 connections (23,096 Eduroam)

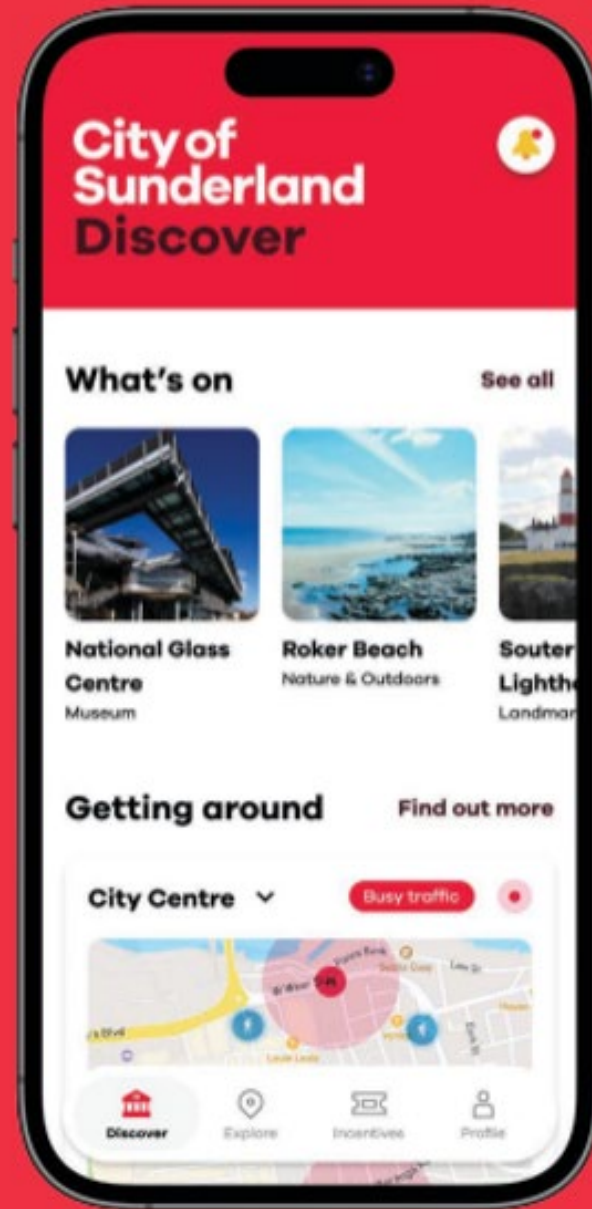


One-stop
info hub

Local offers and
discounts

City updates and
alerts

FREE to download

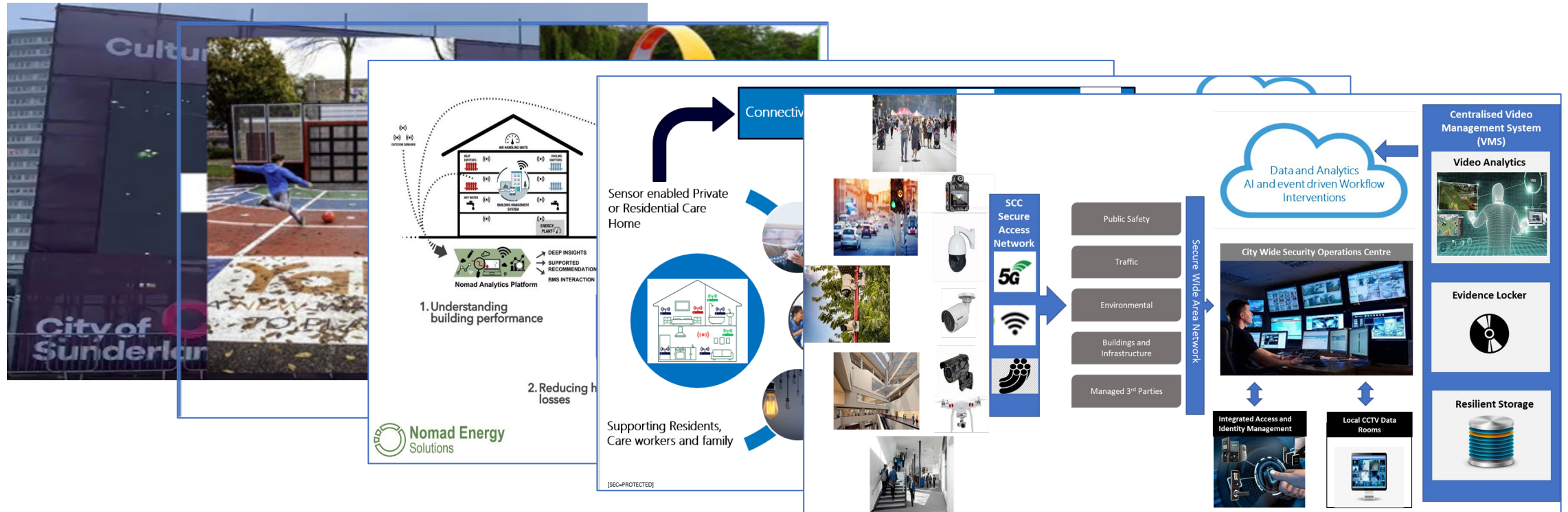
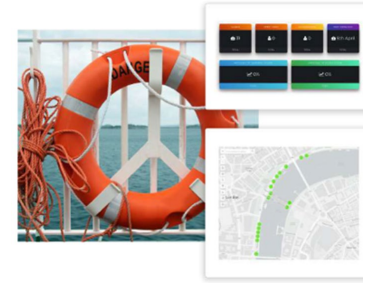
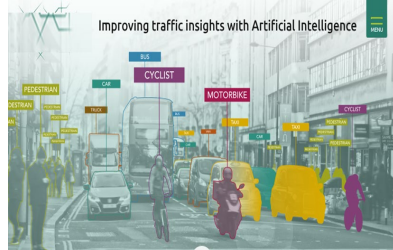


For anyone who lives,
works and plays in the
city....

sunderlandoursmartcity.com

Smart City – Digital Solutions

IoT



Smart City – Autonomous Vehicles

5G CAL / V-CAL



City Centre Shuttles



Sunderland
University

Sunderland
University

Smart City – Tourism and City Regeneration

City Centre Pavilion

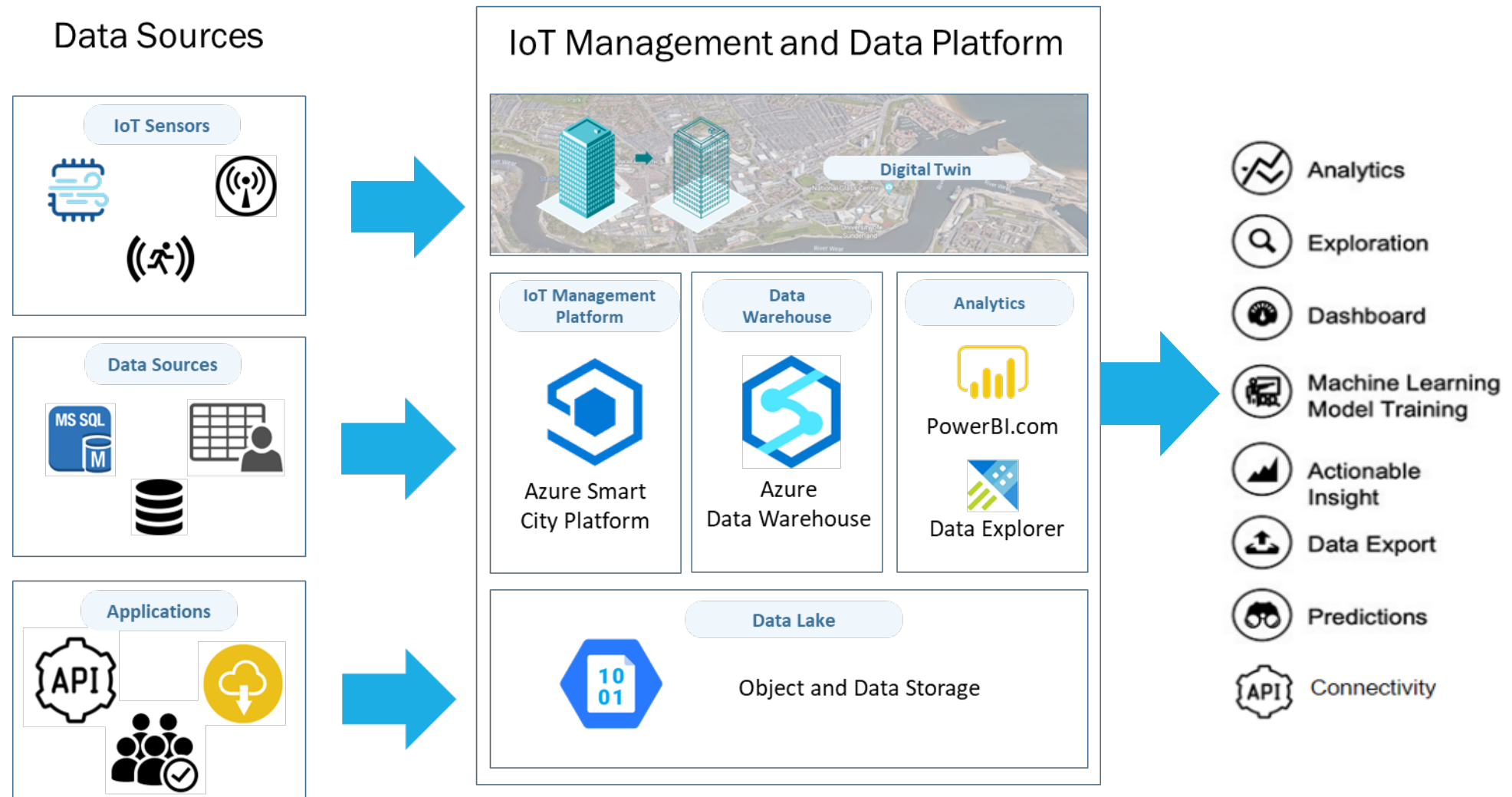


Stadium of Light / Esports – next-gen connectivity



Will radically transform the visitor and fan experience.....

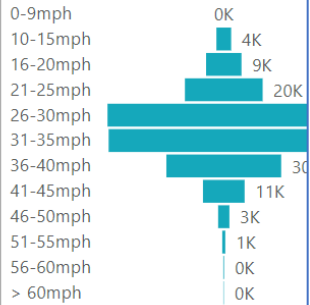
Smart City - Data Platform



Smart City - Data Platform



Vehicle Speed Distribution



Fastest vehicle time Max Speed

01/01/2000 00:00:00	0
07/12/2022 12:07:00	41
07/12/2022 13:50:00	39
07/12/2022 14:50:00	51
07/12/2022 15:22:00	45
07/12/2022 16:16:00	56
07/12/2022 17:00:00	44
07/12/2022 18:50:00	48
07/12/2022 19:43:00	54
07/12/2022 20:18:00	53
07/12/2022 21:19:00	63
Total	90



Source

All

Ward Area

All

Address

All

Postcode

All

Cost of Living Analysis

10.65K

Total UPRN Addresses

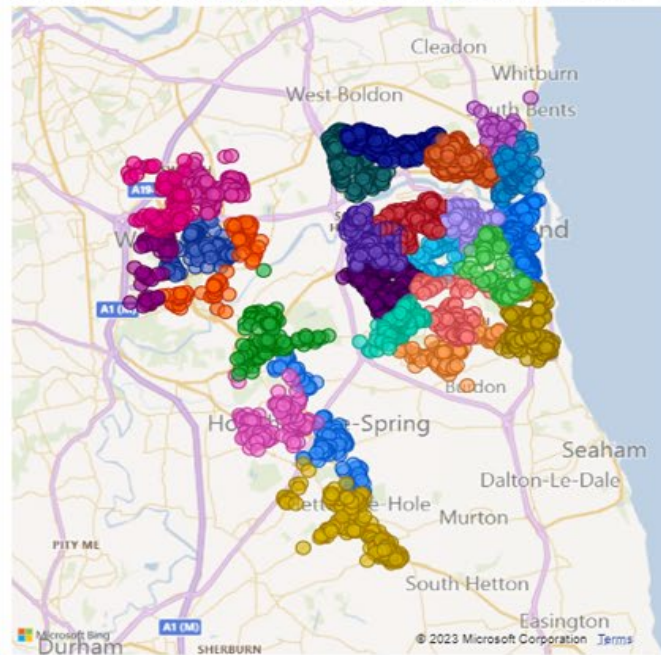
8

Data Sources

25

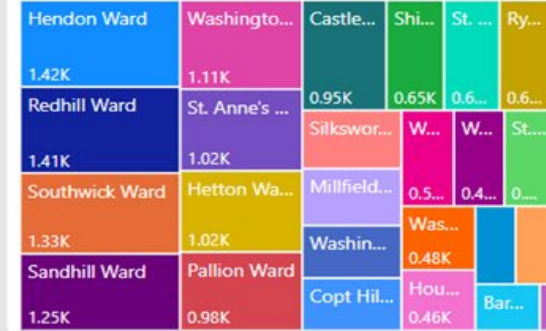
Ward Areas

Ward Area Barnes ... Castle ... Copt Hil... Doxford... Fulwell ...

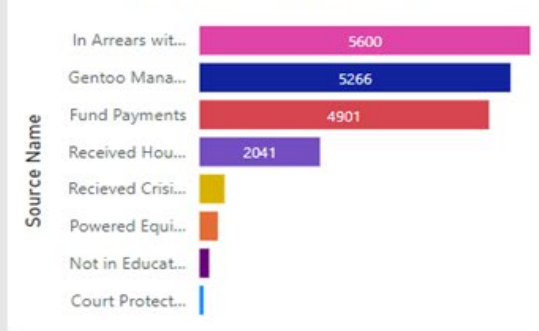


Ward Area	CCS Applications	CCS Crisis	CT Arrears	DHP	FST - 5K	Gentoo	HSF	NEET	Powered Equi
Hendon Ward	18	52	586	128	4	258	354	12	
Redhill Ward	7	32	374	138	1	480	355	8	
Southwick Ward	9	20	374	94	5	366	437	10	
Sandhill Ward	6	18	335	134	4	459	275	10	
Washington North Ward	3	12	318	140		389	226	16	
St. Anne's Ward	3	10	257	118		361	260	5	
Hetton Ward	5	32	262	84		279	343	2	
Pallion Ward	4	20	297	114	1	252	272	12	
Castle Ward	10	12	245	108	5	315	231	15	
Shiney Row Ward	1	6	202	57	5	214	154	2	
St. Chad's Ward	6	10	179	83	1	213	127	1	
Ryhope Ward	4	7	182	60	2	189	148	3	
Silkeoorth Ward	5	11	188	59		132	189	7	
Total	101	312	5441	1969	45	5266	4544	147	

Total Vulnerabilities

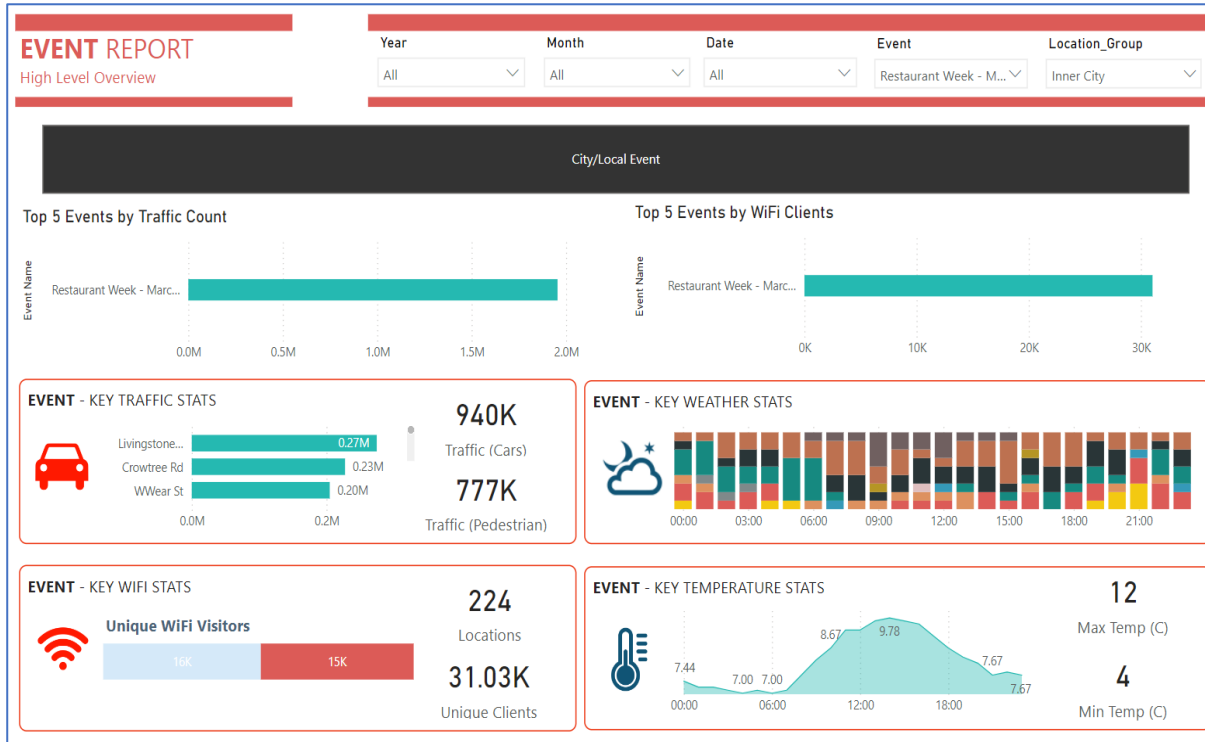


No. of Vulnerabilities by Source

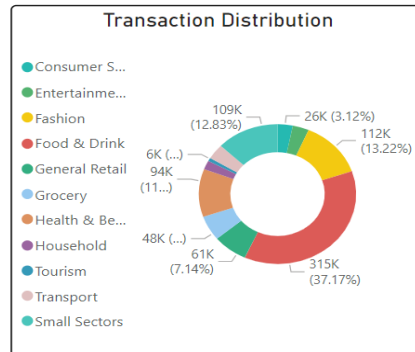


Smart City - Data Platform

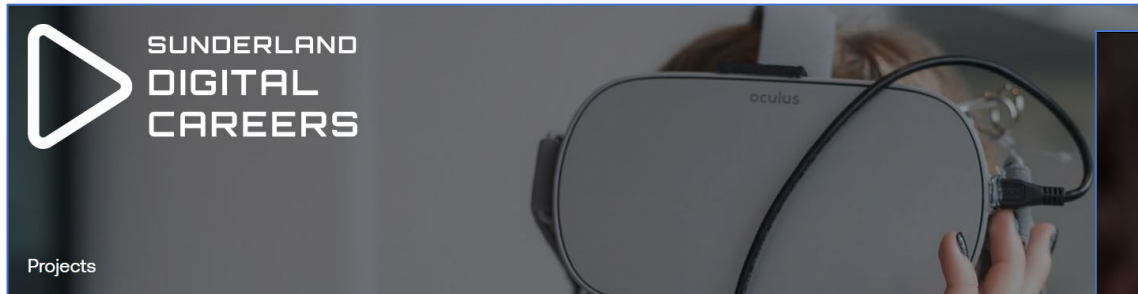
- **Use Case** to see the key statistics for the 2024 restaurant week for the inner city.



- 8234 along the high street in 2024 up from 6,182 in 2023
- Filter shows increase footfall for 12:00 from 117k in 2023 to 122k in 2024.
- Comparison shows increase of cyclists in the inner city from 11,279 to 17,101
- Livingstone road was the busiest part of the inner city with cars with 270k counts.
- There were 31k unique Wifi clients across 224 locations. 16k of these were on the Free WiFi and 15k of these were students.
- The max temperature was between 4-12 degree and mostly patchy rain
- The spend transaction on Food and Drink for the 2023 event was up 7% for the month from the average.



Smart City – Supporting Education, Enterprise and Digital Inclusion



Star
nes
to expe
tech



Low-cost broadband deals

If you are in receipt of certain benefits, you could get a discount on your broadband service.

For more information scan the QR code below or visit:
www.sunderland.gov.uk/article/26891/Internet-in-my-Home



Smart City – Digital Hubs

22 Digital Hubs across the city -

➤ Wi-Fi / Devices / Tech Mates / Online Centres / Databanks / 6 x Esport Hubs





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