

MOREPORK - PEDESTRIAN, SHARED USE AND CYCLE PATH USAGE

SmartSense's Morepork twin lidar (laser) multi-modal sensor provides accurate real-time classified counts on shared paths and complex environments.

The sensor is discretely mounted next to the path – no cameras, tubes, mats or loops.



Multi-Modal Counts and More

Counts – High (98%) detection rate with Lidar measuring the distance, speed and direction to separate overlapping people.

Categories – Separates counts for cycles, pedestrians and micro-mobility devices (95% accuracy). Upgradable firmware enables multiple bike designs and new micro-mobility devices to be added.

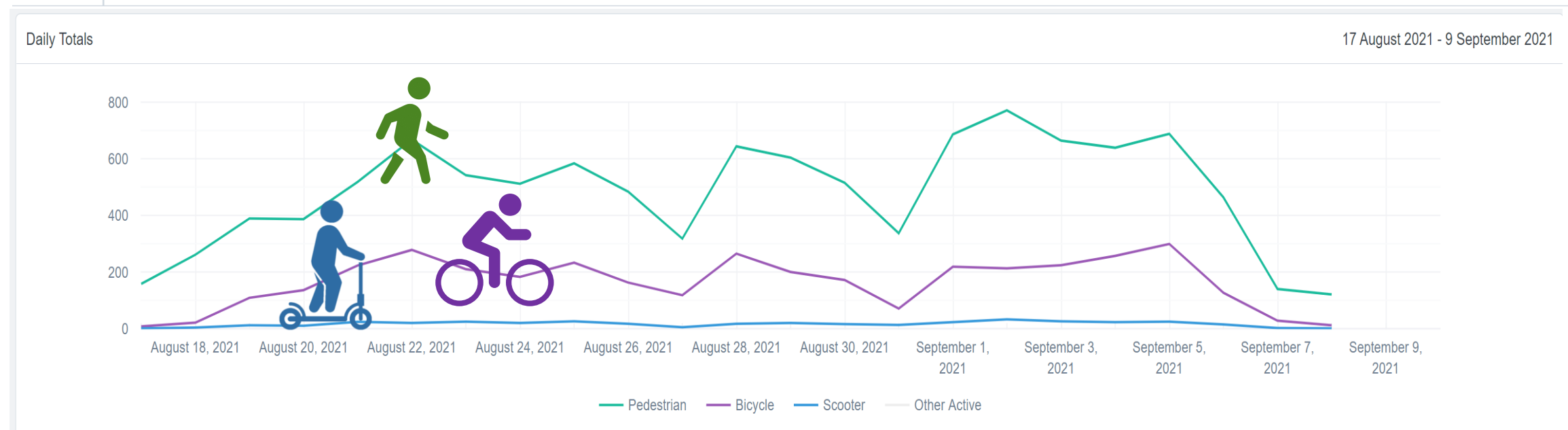
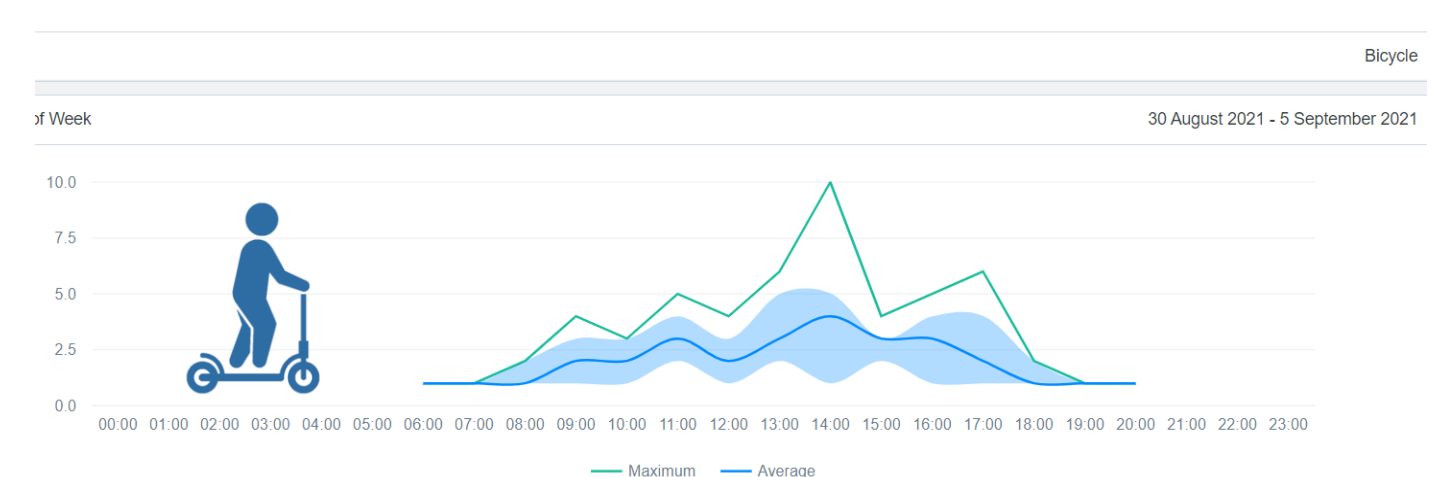
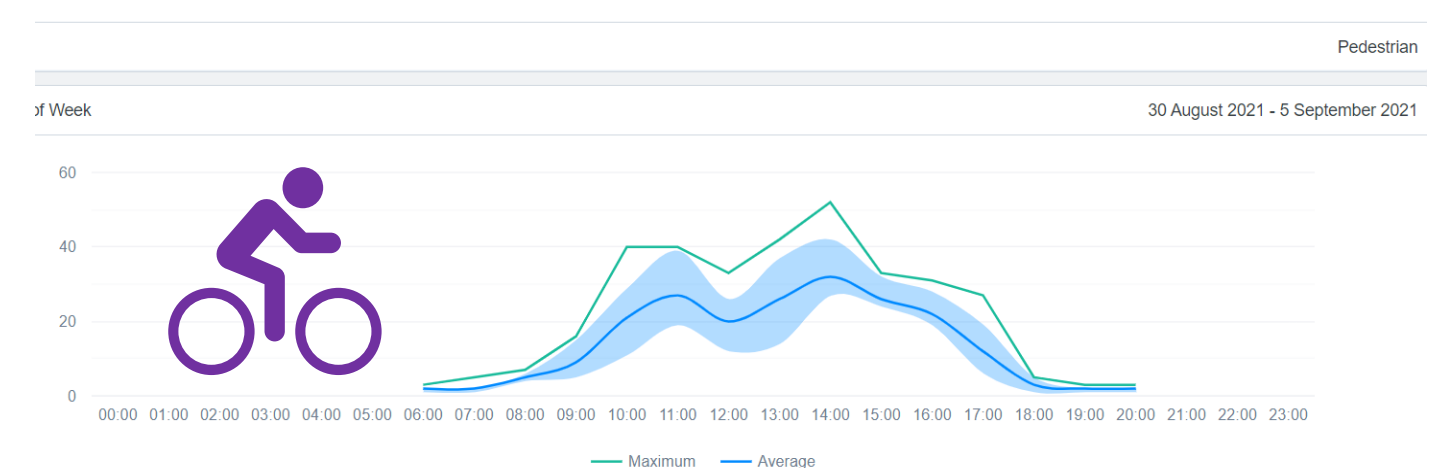
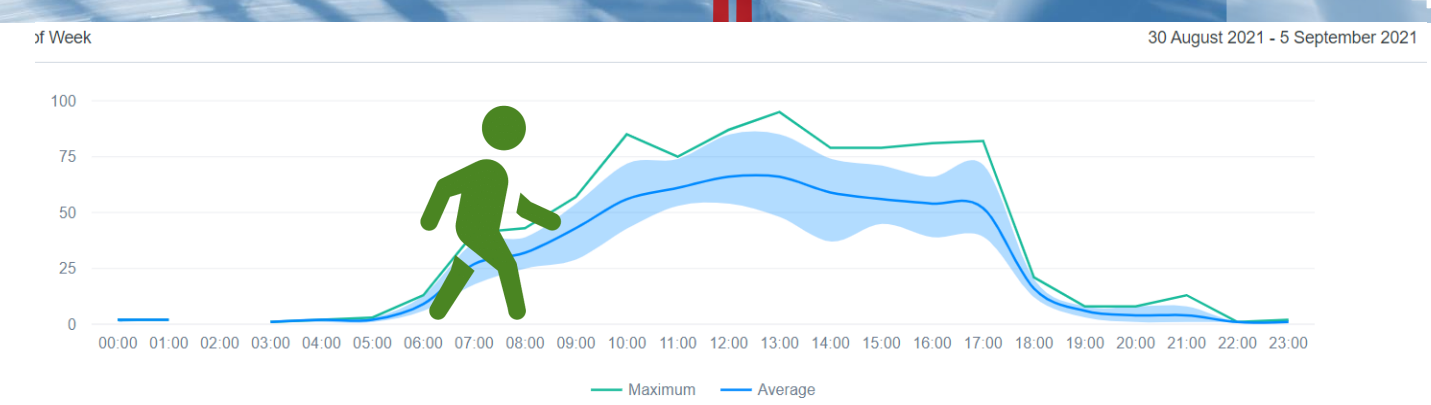
Individual records – timestamped to the second for detailed analysis or grouped for reporting.

Speed and Direction – each person captured to 1km/h.

Range and Lane Keeping Morepork covers paths up to 7m. This width can be split into different zones to record lane keeping and direction compliance of cycles, pedestrians and scooters.



Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun
06:00	10	9	13	10	13	2	6
07:00	19	26	36	37	41	22	10
08:00	31	19	26	39	37	43	32
09:00	30	23	54	44	42	51	57
10:00	49	23	60	71	45	59	85
11:00	56	24	75	74	63	70	67
12:00	57	27	85	87	68	64	71
13:00	64	26	70	84	70	95	50
14:00	38	25	71	79	60	67	73
15:00	50	16	48	70	68	60	79
16:00	39	38	81	62	53	44	64
17:00	40	52	42	82	70	29	52
18:00	12	19	11	21	20	13	17
19:00	8	8	3	1	7	6	7
20:00	5	1	8	3	2	8	1
21:00	5		2	1	1		13
Average	32	22	43	48	41	42	43
Total	513	336	685	765	660	633	684



Keeping life simple

- **Real time and Flexible** – Morepork is on-line providing continuous information to a remote portal with direct Client access. All data is available in a variety of formats, web portal, Excel, PDF and API.
- **Simple installation and Resilient** – no digging, trip hazards, or road closures required. No long-term maintenance, no risk of damage caused by pavement repairs or continuous trafficking.
- **Short / medium term or permanent deployment** – battery, solar, streetlighting or mains powered options available.
- **Relocatable** – easily move the Morepork around a set of secure perches to provide cost effective non-continuous counts at multiple locations.
- **Discrete and robust** – an anonymous stainless steel and weathertight enclosure provides passive security combined with a range of security fixings are available.

