### RALC Project Speeding Reduction

Lowering Speeding in our Towns and Villages

#### Objective

 Reduce traffic speeds and improve road infrastructure by adopting an evidence-based approach to engage with the Police to achieve more enforcement and with Highways to define when intervention is viable.

#### Strategy

- Proposal from the July RALC meeting.
- 1. Invest in Traffic Volume and Speed recording equipment to provide the evidence for informed decision making.
- 2. Parish Councils, ESCC, SSRP and the Police adopt a partnership approach using the new data.....
- RALC will lobby regulators to change where needed laws, regulations and funding streams to support our objectives using the data and evidence gathered.

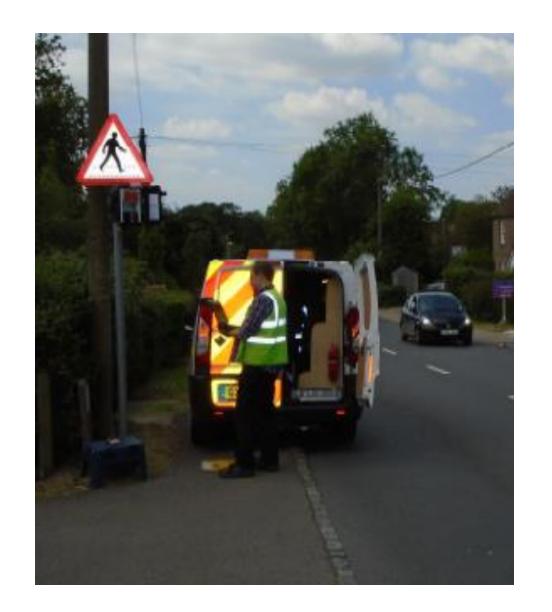
#### The Plan

- Phase 1. Test if using the equipment is viable.
- Phase 2. Confirm commitment from Parishes, Police, ESCC and MP's prior to a roll use of the equipment.
- Phase 3. Roll out use of the equipment.
- Phase 4. Make the data from all users available from a central source.
- Phase 5. Use the data for campaigning and wider education.

### Pre Install requirements.

- Funding is needed of £2600 for the Black Cat radar, ESCC license and extra brackets (optional if using more than 1 install site).
- Define where it will be installed. The site(s) must be agreed with ESCC in advance.
- Get an annual license (£51) from ESCC to place the equipment on an ESCC pole(s). A license is per parish for multiple sites within the Parish. (3-6 sites?)
- You will need Signing, Lighting and Guarding Certificate if the install site is less that 1.2 meters from the Kerb.
- If 1.2 meters or more the certificate is not needed but Highways policy does say it is needed. That was waved for Catsfield. (Need to confirm this policy for all).
- You need access to a Laptop or tablet (Microsoft) and possibly a step ladder, but the install is just above head height. I did not need that in Catsfield.

Install



### Is it practical to install and operate?

- The Black Cat Radar was installed in Catsfield in October 2020.
- Data was collected for a period of 12 days (battery life).
- The install was reasonably easy but the initial install for any user will need support from someone with good knowledge of the equipment and the software.
- Downloading the data and the analysis is simple but will require some initial training.
- Reports of the speeding data were provided to the Police. The response was positive.
- Some manipulation of the data was needed to reformat some reports.

## Outputs Example with reformatting in Excel

			Ave	rage													
			Catsfiel	d The G	ireen								Total Flo	w			
			From														
	Total Volum e	<5Mph	5-<10	10-<15	15-<20	20-<25	25-<30	30-<35	35-<40	40-<45	45-<50	50-<55	55-<60	=>60			
Monday	8320	0	19	43	79	470	3270	3084	1032	229	69	18	4	3			
Tuesday	7981	0	25	48	96	527	3245	2852	895	216	51	17	5	7			
Wednesday	8200	0	37	48	129	671	3408	2830	815	202	42	12	5	4			
Thursday	8284	0	43	59	114	510	3223	3058	949	243	62	18	5	4			
Friday	8951	0	23	53	104	639	3759	3156	926	225	49	13	5	3			
Saturday	6380	0	29	32	95	411	2531	2276	751	190	50	14	3	2			
Sunday	4916	0	23	15	31	206	1729	1971	706	178	41	12	2	2			
5 Day Ave.	8347	0	29	50	104	563	3381	2996	923	223	54	16	4	4			
7 Day Ave.	7576	0	28	42	92	490	3023	2747	867	212	52	15	4	3			
5 day average	8347			41	L <b>2</b> 7			2996	11	46		78					
				49	9%			36%	14	%		1%					
								51%									

Average Daily traffic volume 8347.

51% or 4220 per day over the speed limit of 30.

14% or 1146 per day between 35-45 mph

# Outputs Example with reformatting in Excel

Speeds by												
Range.	35-<45		by day	by Hour	•					Range	1	35-<45
Time	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct
	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
00:00	0	2	3	6	4	4	1	0	1	2	6	5
01:00	0	1	2	6	3	5	2	3	6	3	2	4
02:00	0	6	4	4	1	1	2	4	5	4	2	5
03:00	0	4	8	6	6	2	8	7	6	3	5	2
04:00	0	4	7	6	3	3	12	14	7	9	8	5
05:00	0	37	40	30	10	5	35	46	40	36	42	15
06:00	0	77	117	80	23	24	104	98	108	104	100	31
07:00	0	60	97	96	55	18	141	85	106	103	111	54
08:00	0	48	94	69	55	45	85	63	52	72	81	71
09:00	0	62	73	67	70	69	57	67	24	82	68	70
10:00	0	53	78	68	58	75	63	55	40	48	55	66
11:00	0	54	37	68	81	79	75	44	38	49	72	26
12:00	74	61	77	65	85	91	78	61	43	51	76	59
13:00	71	45	64	61	44	58	64	73	37	70	65	77
14:00	65	74	89	62	40	64	72	63	54	54	42	95
15:00	55	80	72	82	68	78	82	73	66	79	65	90
16:00	111	103	93	113	75	61	89	74	65	56	54	71
17:00	98	109	122	64	56	55	77	48	33	49	48	48
18:00	56	91	80	79	52	50	79	51	59	50	50	45
19:00	57	49	49	43	57	39	48	41	49	42	54	57
20:00	34	36	35	43	24	18	37	30	32	40	31	0
21:00	32	23	35	27	22	19	28	23	25	33	34	0
22:00	22	27	17	32	13	13	16	19	15	26	26	0
23:00	9	8	16	10	10	8	6	9	7	8	18	0
Total for												
Range	684	1114	1309	1187	915	884	1261	1051	918	1073	1115	896
Total All												
Vehicles	5075	8209	9086	9256	6492	4916	8320	7656	8190	7481	8646	5971
% of vehice	13%	14%	14%	13%	14%	18%	15%	14%	11%	14%	13%	15%

Outputs Example Volumes

Catsfield 1	The Green				Speed Summary (Mon-Fri)-Speed Limit 30 Mph												
					From 20/10/2020 To 01/11/2020												
	Total Volume	85th Percentile	Mean Average	Standard Deviation	Bin 1 <5Mph	Bin 2 5-<10	Bin 3 10-<15	Bin 4 15-<20	Bin 5 20-<25	Bin 6 25-<30	Bin 7 30-<35	Bin 8 35-<40	Bin 9 40-<45	Bin 10 45-<50	Bin 11 50-<55	Bin 12 55-<60	Bin 13 =>60
00:00	8		35	8	0	0	0	0	0	2	2	2	1	1	0	0	0
01:00	9		35	9	0	0	0	0	0	3	2	2	1	0	1	0	0
02:00	8		39	7	0	0	0	0	0	1	1	2	2	2	0	0	0
03:00	11	43	37	7	0	0	0	0	0	2	2	3	3	1	0	0	0
04:00	20	47	39	8	0	0	0	0	1	2	4	4	5	3	1	0	0
05:00	83	44	37	8	0	0	0	1	3	10	21	21	18	6	2	1	1
06:00	271	40	34	6	0	0	0	2	5	58	95	69	30	8	3	1	1
07:00	629	36	31	5	0	3	4	6	29	238	244	85	18	2	0	0	0
08:00	628	35	30	5	0	2	5	10	51	262	226	62	10	2	0	0	0
09:00	530	35	30	5	0	4	5	9	41	224	181	52	10	3	0	0	0
10:00	588	34	30	5	0	1	3	10	42	264	208	51	7	1	0	0	0
11:00	572	34	30	5	0	4	5	9	40	255	200	48	8	1	1	0	0
12:00	584	35	30	5	0	2	3	6	43	256	207	58	8	2	0	0	0
13:00	582	34	30	5	0	1	3	9	41	250	216	53	8	2	0	0	0
14:00	624	34	30	5	0	3	5	6	46	265	232	56	9	2	0	0	0
15:00	725	34	30	5	0	2	5	9	50	322	262	66	8	2	1	0	0
16:00	780	34	30	5	0	2	5	10	50	330	296	71	14	2	0	0	0
17:00	731	34	30	5	0	2	4	12	67	319	251	64	9	1	0	0	0
18:00	409	36	31	5	0	1	1	2	26	158	151	52	15	3	1	0	0
19:00	217	38	32	6	0	1	0	2	11	66	85	35	13	3	1	0	0
20:00	148	38	32	6	0	1	0	1	9	49	48	26	10	3	1	0	0
21:00	97	39	33	7	0	0	0	0	5	28	30	21	8	2	1	1	0
22:00	71	41	34	7	0	0	1	0	3	16	25	14	8	3	1	0	0
23:00	25	43	36	7	0	0	0	0	1	4	8	7	3	2	0	0	0
Total																	
12H(7-19)			30	5		26	48	98	526		2674	718		21	4	1	1
16H(6-22)		35	30	5	0	29	49	103	555	3343	2932	869	182	37	10	3	2
18H(6-24)			30	5		29	50	103	559	3363	2965	890		41	11	3	3
24H(0-24)	8347	35	30	5	0	29	50	104	563	3381	2996	923	223	54	16	4	4

Is it Practical?

#### Findings

**Conclusion Yes.** There are improvements to process and support we need to make but this is a viable for a single user. Shared use needs to be tested but follows the same principle.

#### Learnings

- The install is fairly simple if you are OK confident using / installing software on a laptop and using a screwdriver.
- 2. Define how support will be provided and by who before a roll out.
- 3. How training will be provided and by who before a roll out.
- 4. Improve the software install process and improve the user manuals.
- 5. Test how shared equipment would work.
- 6. Review what format we want the output in.