Radio profile 153Kbps																					
Config (beacons.hedges )	0.1HZ		0.2HZ		0.5HZ		1HZ		2HZ		4HZ		8HZ		12HZ		16HZ		16+HZ (Max.)		Avg. UR (HZ)
	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	UR	Opt. sped	
7.1	0	0	0.1	10	0.4	20	0.9	25	1.9	100	3.9	150	8	450	12	500	0	0	13.8	500	4.1
6.2	0	0	0.1	10	0.2	10	0.4	20	0.9	30	2	100	4	200	6.1	350	0	0	7	350	2.07
6.1	0	0	0.1	10	0.4	20	0.9	30	1.9	115	3.9	200	8.1	500	12.3	510	0	0	14.7	550	4.23
5.3	0	0	0	0	0.1	30	0.3	40	0.6	60	1.3	100	2.7	110	4.2	130	0	0	4.7	150	1.39
5.2	0	0	0	0	0.2	100	0.4	20	0.9	30	2	90	4	200	6.2	200	0	0	7.2	250	2.09
5.1	0	0	0.1	10	0.4	20	0.9	50	1.9	120	4	200	8.3	450	12.6	450	0	0	14.4	500	4.26
4.4	0	0	0	0	0.1	15	0.2	20	0.4	40	1	70	2	125	3.1	140	0	0	3.8	100	1.06
4.3	0	0	0	0	0.1	10	0.3	30	0.6	65	1.3	120	2.7	130	4.3	150	0	0	5.1	210	1.44
4.2	0	0	0	0	0.2	30	0.4	35	0.9	55	2	125	4.1	210	6.4	300	0	0	7.6	350	2.16
4.1	0	0	0.1	10	0.4	20	0.9	50	1.9	120	4	240	8.3	400	12.8	450	0	0	15.3	500	4.37
3.5	0	0	0	0	0	0	0.1	20	0.3	30	0.8	30	1.6	50	2.5	70	0	0	3.4	80	0.87
3.4	0	0	0	0	0.1	0	0.2	0	0.4	0	1	0	2	0	3.2	0	0	0	4.3	140	1.12
3.3	0	0	0	0	0	0	0.3	0	0.6	0	1.3	0	2.7	0	4.3	0	0	0	5.7	0	1.49
3.2	0	0	0	0	0.2	0	0.4	0	0.9	0	2	0	4.1	200	6.4	200	8.4	300	8.6	300	3.1
3.1	0	0	0.1	10	0.4	0	0.9	50	1.9	120	4	180	8.3	200	12.8	400	16.9	450	17.2	550	6.25
2.6	0	0	0	0	0	0	0.1	0	0.3	0	0.6	0	1.3	0	2.1	0	3	0	3.2	60	1.06
2.5	0	0	0	0	0	0	0.1	10	0.3	20	0.8	30	1.6	30	2.5	40	3.5	50	4.1	80	1.29
2.4	0	0	0	0	0.1	0	0.2	0	0.4	0	1	0	2	0	3.2	0	4.4	0	4.9	60	1.62
2.3	0	0	0	0	0	0	0.3	0	0.6	0	1.3	0	1.3	0	2.7	0	4.2	0	6.8	0	1.72
2.2	0	0	0	0	0.2	0	0.4	0	0.9	0	2	0	4.1	0	6.5	0	8.9	0	9.7	0	3.27
2.1	0	0	0.1	0	0.4	0	0.9	0	1.9	0	4	0	8.3	0	12.9	0	17.2	550	19.2	550	6.49

Notes: 0: unable to test/ no readings/ unstable

Defult map size 3.5m x 2.5m Radio profile at 153Kbps

more beacons = lower UR

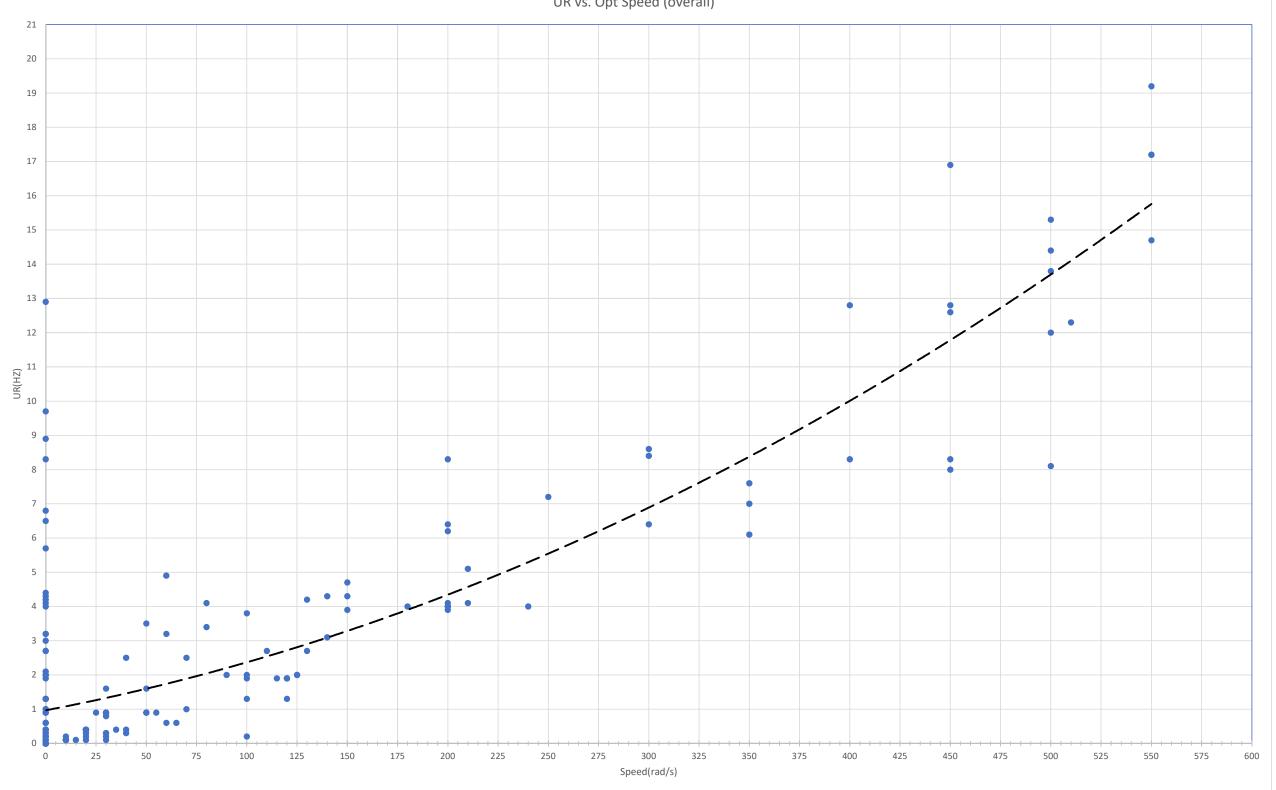
more hedges = lower UR

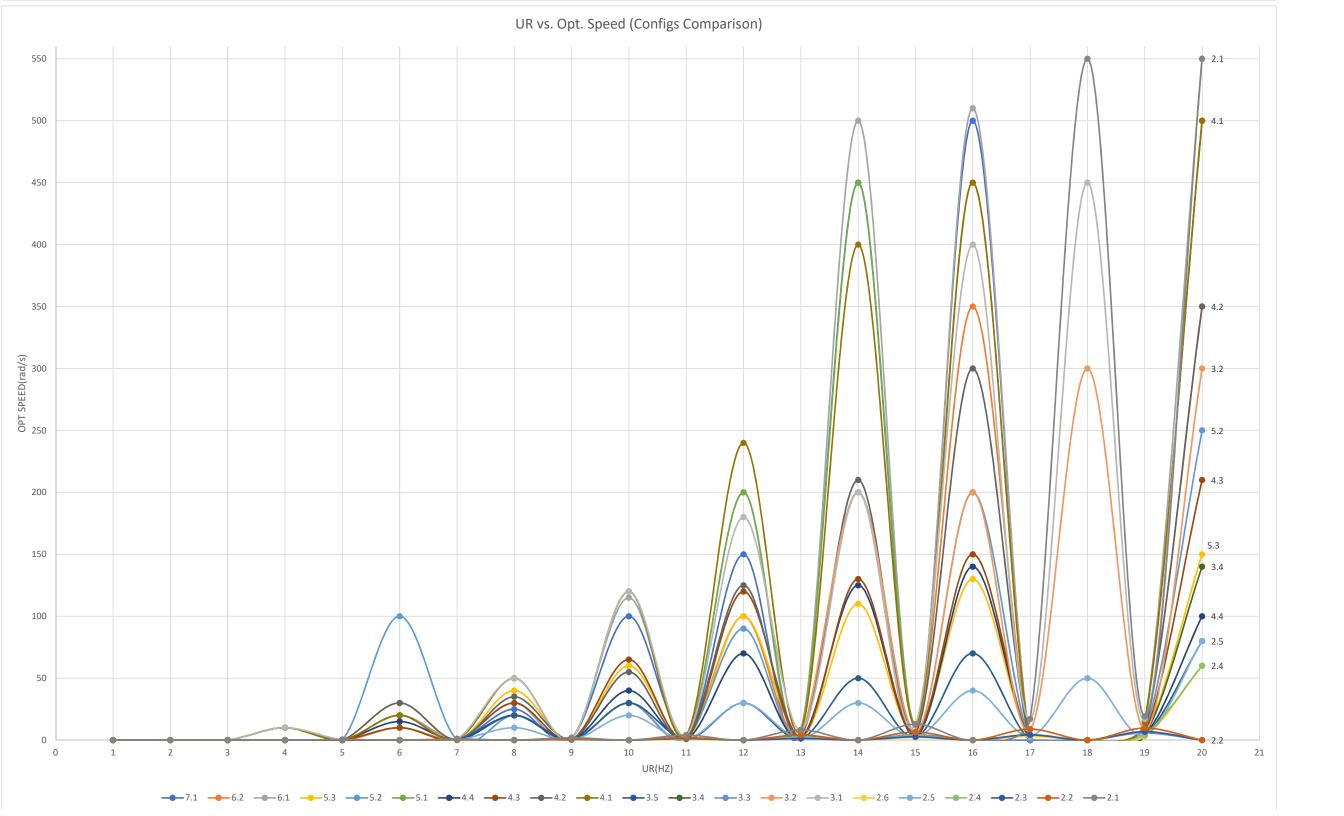
Max. Measuring distance: AUTO

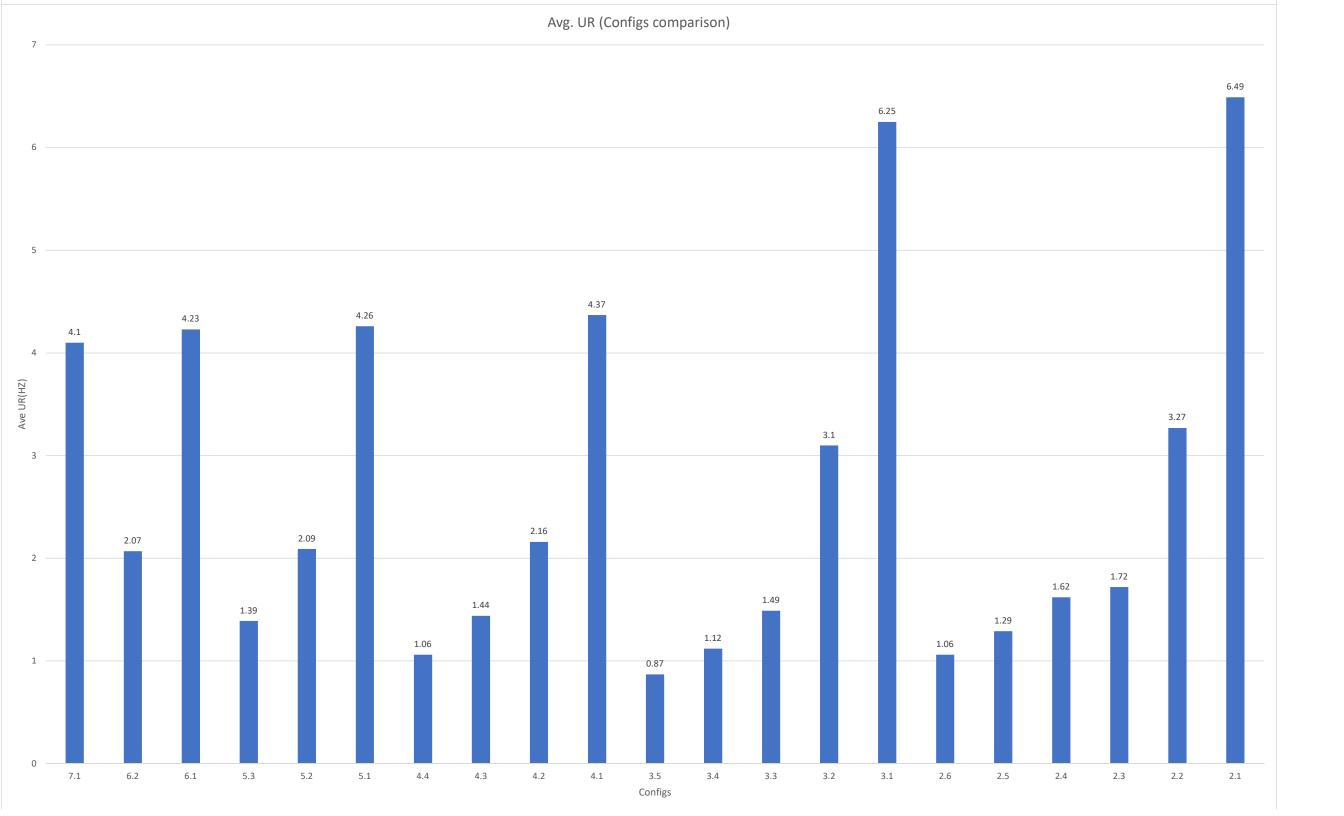
All optimum speed datas were recorded by eyeballing

Issue: horizontal beacons placement blocks singles at some areas

Issue: servos are unreliable at speed below 30-50 rad/s







Original data

Original data													
Radio profile 153Kbps													
	Actual UR per hedge @ optimum speed												
Config (beacons.hedges )	0.1HZ	0.2HZ	0.5HZ	1HZ	2HZ	4HZ	8HZ	12HZ	16HZ	16+HZ (Max.)			
7.1	X	0.1@10	0.4@20	0.9@25	1.9@100	3.9@150	8@450	12@500	X	13.8@500			
6.2	X	0.1@10	0.2@10	0.4@20	0.9@30	2@100	4@200	6.1@350	X	7@350			
6,1	X	0.1@10	0.4@20	0.9@30	1.9@115	3.9@200	8.1@500	12.3@510	X	14.7@550			
5.3	Χ	X	0.1@30	0.3@40	0.6@60	1.3@100	2.7@110	4.2@130	Χ	4.7@150			
5.2	Х	X	0.2@100	0.4@20	0.9@30	2@90	4@200	6.2@200	X	7.2@250			
5.1	X	0.1@10	0.4@20	0.9@50	1.9@120	4@200	8.3@450	12.6@450	X	14.4@500			
4.4	Χ	X	0.1@15	0.2@20	0.4@40	1@70	2@125	3.1@140	Χ	3.8@100			
4.3	Χ	X	0.1@10	0.3@30	0.6@65	1.3@120	2.7@130	4.3@150	Χ	5.1@210			
4.2	Х	X	0.2@30	0.4@35	0.9@55	2@125	4.1@210	6.4@300	X	7.6@350			
4.1	X	0.1@10	0.4@20	0.9@50	1.9@120	4@240	8.3@400	12.8@450	Х	15.3@500			
3.5	Χ	X	Х	0.1@20	0.3@30	0.8@30	1.6@50	2.5@70	Х	3.4@80			
3.4	Χ	X	0.1@X	0.2@X	0.4@X	1@X	2@X	3.2@X	Χ	4.3@140			
3.3	Χ	X	Х	0.3@X	0.6@X	1.3@X	2.7@X	4.3@X	X	5.7@X			
3.2	X	X	0.2@X	0.4@X	0.9@X	2@X	4.1@200	6.4@200	8.4@300	8.6@300			
3.1	Χ	0.1@10	0.4@	0.9@50	1.9@120	4@180	8.3@200	12.8@400	16.9@450	17.2@550			
2.6	Χ	X	Х	0.1@X	0.3@X	0.6@X	1.3@X	2.1@X	3@X	3.2@60			
2.5	Χ	X	Х	0.1@10	0.3@20	0.8@30	1.6@30	2.5@40	3.5@50	4.1@80			
2.4	Χ	X	0.1@X	0.2@X	0.4@X	1@X	2@X	3.2@X	4.4@X	4.9@60			
2.3	Х	X	Х	0.3@X	0.6@X	1.3@X	1.3@X	2.7@X	4.2@X	6.8@X			
2.2	Х	X	0.2@X	0.4@X	0.9@X	2@X	4.1@X	6.5@X	8.9@X	9.7@X			
2.1	Х	0.1@X	0.4@X	0.9@X	1.9@X	4@X	8.3@X	12.9@X	17.2@550	19.2@550			

X: unable to test/ no readings/ unstable