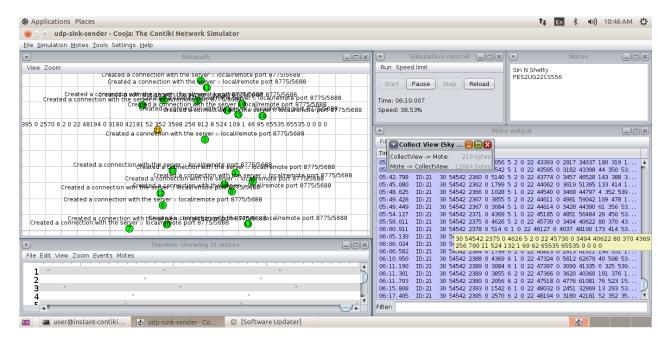
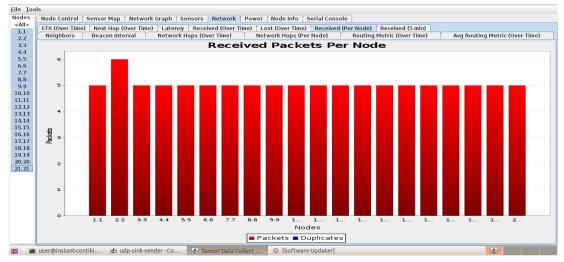
Developing Next-Gen IoT Solutions with Contiki OS and Cooja Simulator

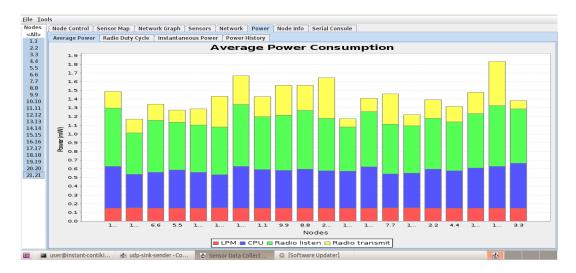
Submissions – Day 2 (9th July 2024)

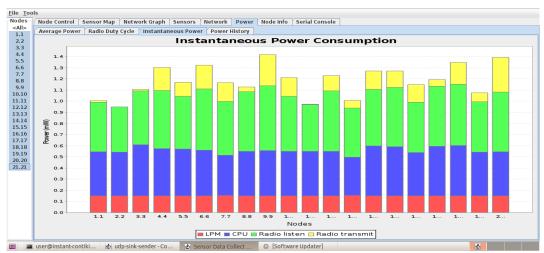
Siri N Shetty (PES2UG22CS556)

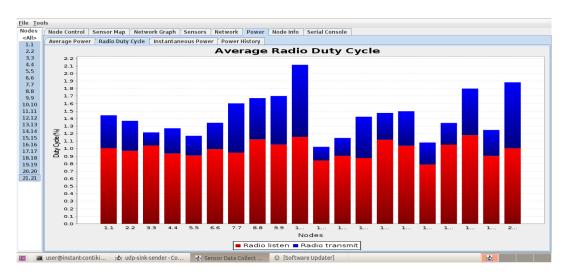
1. Collect View

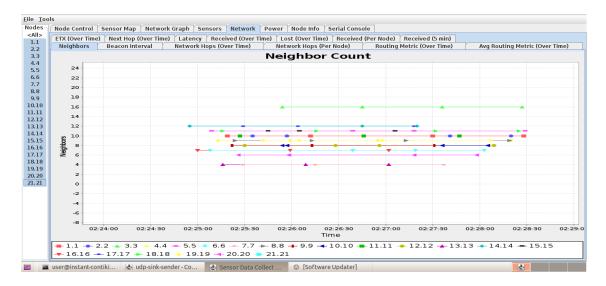


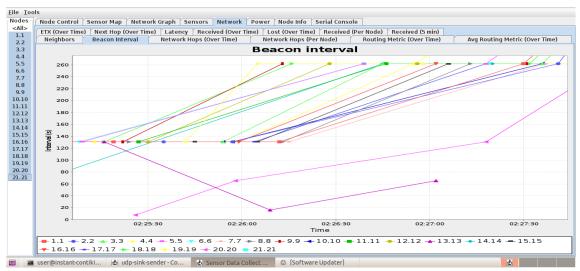


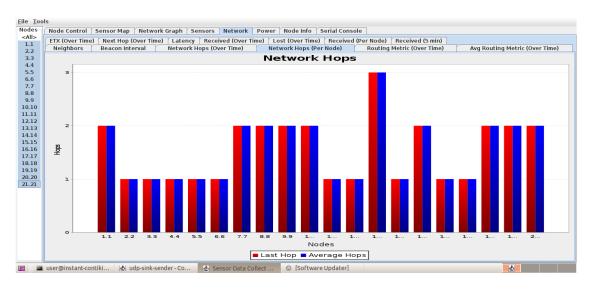




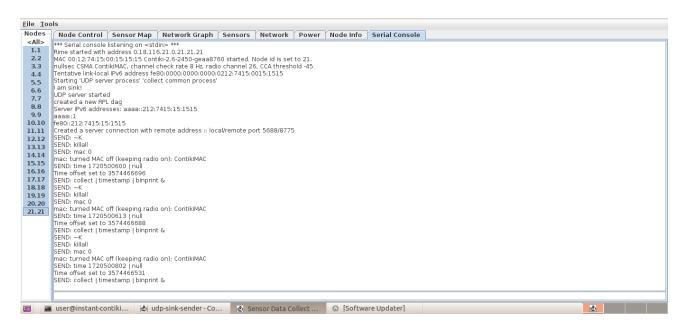


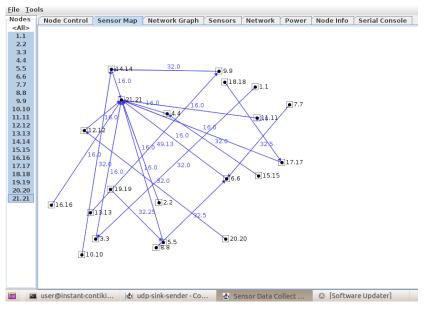




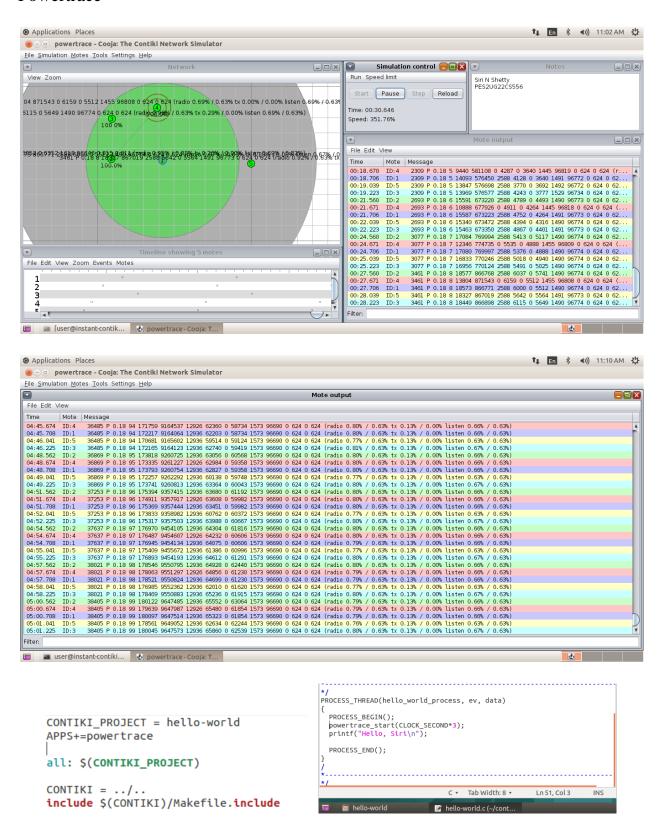


des	Node	e Control	Ser	nsor Map	Network	Graph	Sens	ors N	etwork	Power	Node	Info Se	erial Console						
ll>	Node	Received	Dups	Lost Hops	Rtmetric	ETX (Churn B	eacon Int	erval Reb	oots CPL	J Power	LPM Power	Listen Power	Transmit Power	Power	On-time	Listen Duty Cycle	Transmit Duty Cycle	Avg Inter-
.1	1.1	5	0	0 2.000	768.000	32	0	5 min, 14	4 sec	0	0.442	0.150	0.604	0.233	1.429	0 min,	1.006	0.439	0
2	2.2	5	0	0 1.000	512.000	16	0	5 min, 14	4 sec	0	0.431	0.150	0.535	0.156	1.272	1 min,	0.892	0.293	(
	3.3	5	0	0 1.000	512.000	16	0	5 min, 40	0 sec	0	0.516	0.148	0.625	0.093	1.382	1 min,	1.041	0.175	(
	4.4	4	0	0 1.000	512.000	16	0	3 min, 49	9 sec	0	0.426	0.151	0.561	0.179	1.317	0 min,	0.935	0.337	C
	5.5	5	0	0 1.000	519.600	16	0	5 min, 40	0 sec	0	0.439	0.150	0.545	0.140	1.274	0 min,	0.909	0.263	C
	6.6	4	0	0 1.000	521.500	16	0	3 min, 49	9 sec	0	0.410	0.151	0.596	0.186	1.344	0 min,	0.994	0.351	C
	7.7	4	0	0 2.000	931.000	32	0	4 min, 22	2 sec	0	0.390	0.152	0.568	0.349	1.459	0 min,	0.947	0.656	C
	8.8	4	0	0 2.000	797.750	32	0	3 min, 16	6 sec	0	0.444	0.150	0.674	0.292	1.561	0 min,	1.124	0.550	C
	9.9	5	0	0 2.000	786.000	32	0	5 min, 40	0 sec	0	0.433	0.150	0.633	0.344	1.560	1 min,	1.055	0.647	C
)	10.10	5		0 2.000	806.800	32	0	4 min, 22	2 sec	0	0.479	0.149	0.694	0.510	1.832	1 min,	1.157	0.960	C
	11.11	5	0	0 1.000	512.000	16	0	5 min, 40	0 sec	0	0.423	0.151	0.505	0.097	1.176	1 min,	0.842	0.183	C
	12.12	4	0	0 1.000	512.000	16	0	3 min, 49	9 sec	0	0.401	0.151	0.543	0.126	1.222	0 min,	0.905	0.238	C
	13.13	5			1075.2		1	2 min, 2	7 sec	0	0.375	0.152				1 min,	0.875	0.551	C
1	14.14	5	0		512.000		0	5 min, 27		0	0.477	0.149				1 min,	1.119	0.357	C
5	15.15	4	0		786.500		0	4 min, 22	2 sec	0	0.462	0.150		0.244	1.479	0 min,	1.038	0.460	C
6	16.16	5	0		512.000		0	5 min, 14		0	0.388	0.152				1 min,		0.295	C
7	17.17	4	0		512.000		0	4 min, 22		0	0.476	0.149				0 min,	1.053	0.290	C
3	18.18				774.250		0	4 min, 54		0	0.480	0.149				0 min,	1.180	0.621	C
,	19.19	5			783.200		0	5 min, 14		0	0.411	0.151				0 min,	0.904	0.346	C
	20.20	4	0		774.250			1 min, 56	6 sec	0	0.426	0.151				0 min,	1.004	0.880	0
0	21.21	0		0 0.000			0			0	0.000	0.000			0.000		0.000	0.000	
21	Avg	4.550	0.000	0.000 1.550	671.003	24	0.050	4 min, 31	l sec (0.000	0.437	0.150	0.593	0.236	1.416	0 min	0.988	0.445	0

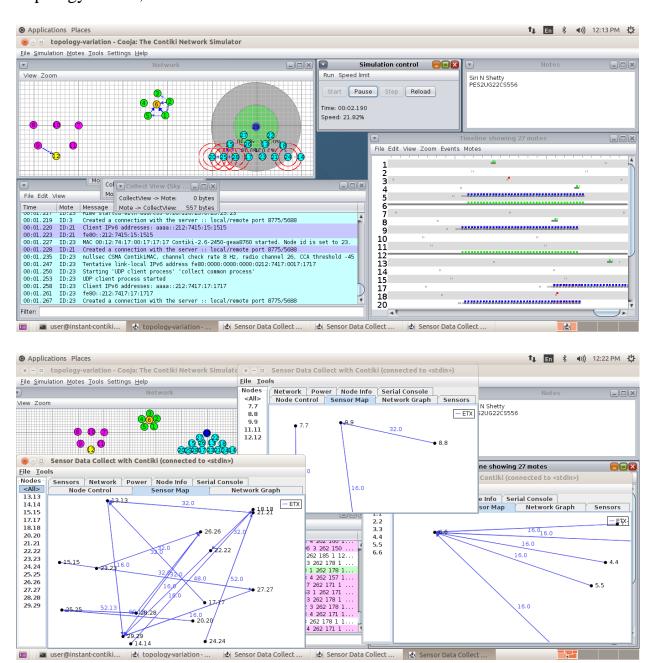


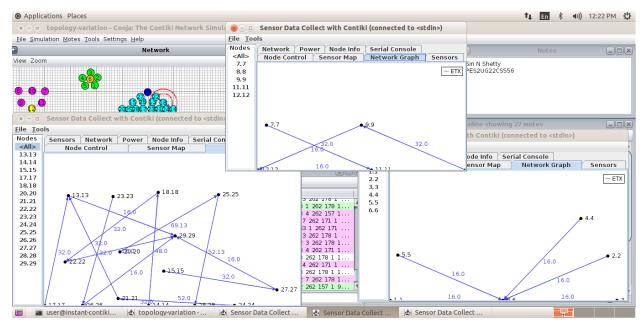


2. Powertrace

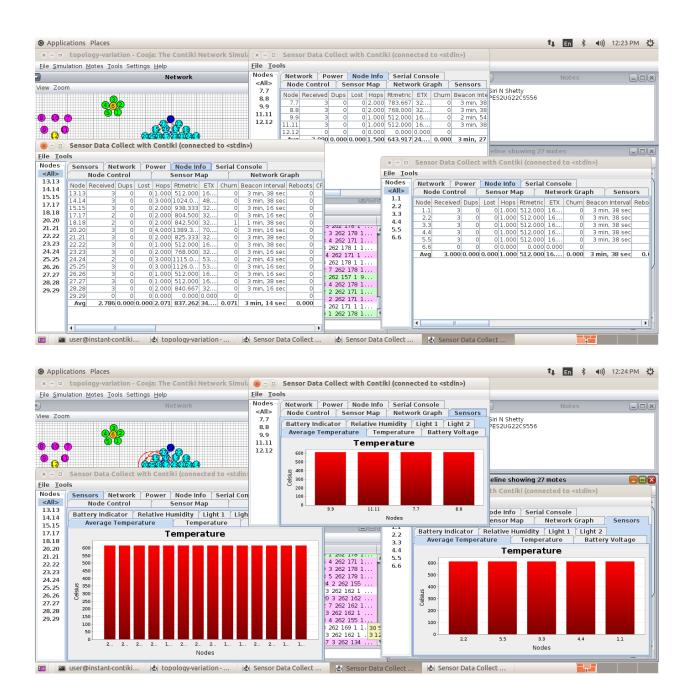


3. Topology – Tree, Star and Mesh

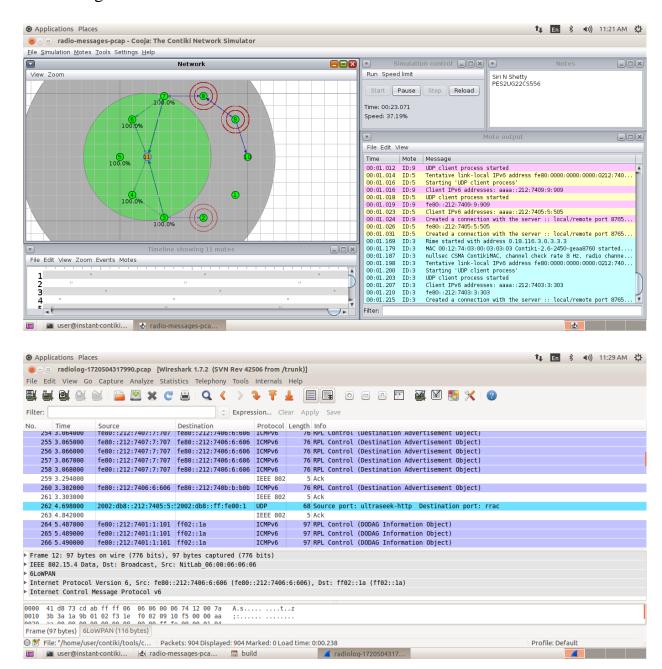




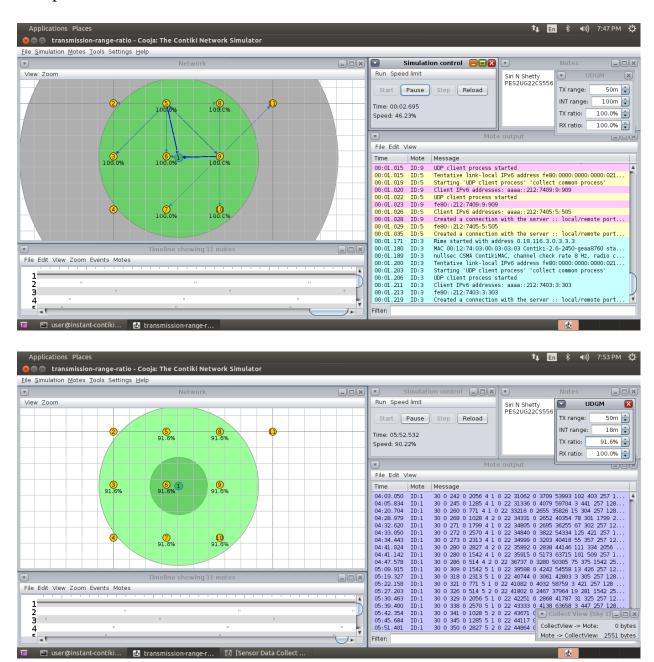


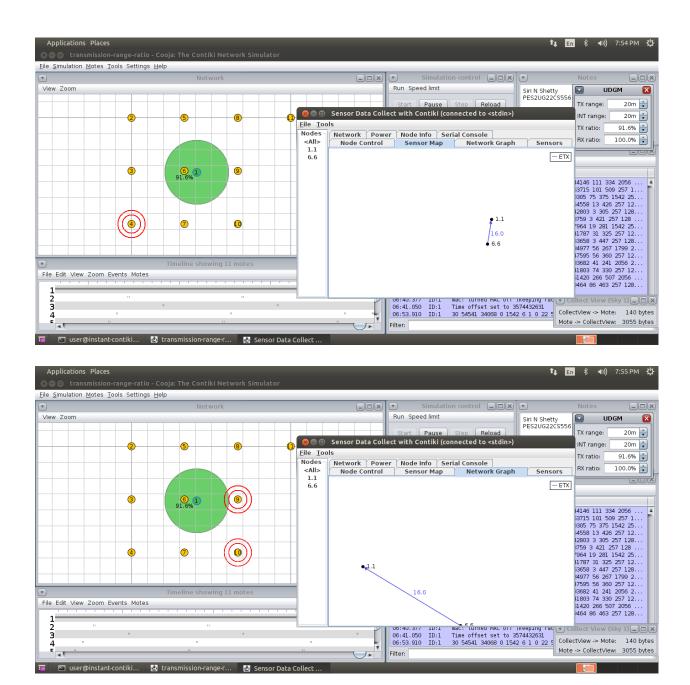


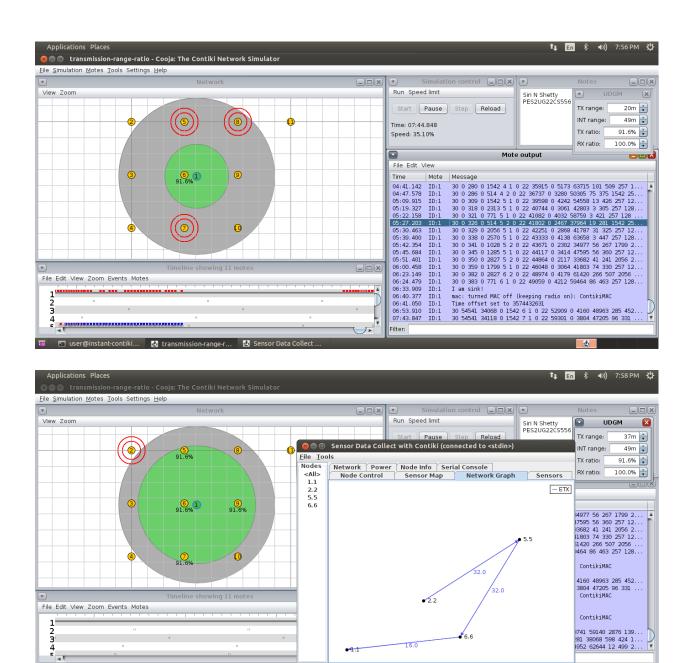
4. Generating PCAP File



5. Varying Transmission (Tx) & Interference Range (RX) + Transmission Ratio & Reception Ratio







■ user@instant-contiki... 🛂 transmission-range-r... 🛂 Sensor Data Collect

