















Energy lable							
	Component	Power Consumption]				
	Accelerometer	21mW]				
	Gyroscope	130 mW]				
	Barometer	110 mW]				
	GPS	176 mW]				
	Microphone	101 mW					
	Camera	>1000 mW]				
	LTE Module	594 mW to 1700 mW]				
Table 1. List of power consumption of some components on Samsung							
Galaxy S4 (In the case of camera, the value of power consumption is depen-							
dent on what activity user is doing with camera.)							
		Slide 9/20	PURDUE				













Evaluation				
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ups. 20 three f	students ramewor	for each grouj ks: Sense-Aid	p. Each group is , PCS, Periodic	
Experiment Number	Varying parameter	Default parameters	Energy savings 1: SENSE-AID Basic/Periodic 2: SENSE-AID Completel Periodic 3: SENSE-AID Completel/PCS 4: SENSE-AID Completel/PCS Average (Min, Max)	
Experiment 1	Area radius 100m, 200m, 300m, 600m 500m, 1000m	test duration = 1.5 hrs/test number of tasks/device = 1 sampling period = 10mins spatial density = 2	1: 94.3%(88.7%, 98.3%); 2: 94.9%(90%, 98.5%); 3: 79% (65.9%, 92.5%); 4: 81.4% (68.6%, 93.3%);	
Experiment 2	Sampling period (1, 5, 10)[min]	test duration = 2 hrs/test number of tasks/device = 1 spatial density=3 area radius = 500m	1: 86.6% (80.9%, 89.6%); 2: 88.1% (83.1%, 90.7%); 3: 42.1% (27.2%, 57.8%); 4: 48.3% (35.1%, 62.4%);	
Experiment 3	Spatial_density (1, 2, 5, 7)	test duration = 1.5 hrs/test number of tasks/device = 1 sampling period = 5mins area radius = 1000m	1: 87.5% (76.9%, 96.2%); 2: 88.8% (79.4%, 96.7%); 3: 55.7% (17.4%, 88.2%); 4: 60.5% (26.3%, 89.5%);	
Experiment 4	Number of tasks per device (3, 5, 10, 15)	test duration = 1.5 hrs/test sampling period = 5mins spatial density = 3	1: 85.3% (84.4%, 86.5%); 2: 86.9% (86.1%, 87.9%); 3: 35.4% (16.7%, 57.8%); 4: 42.4% (57.7%, 57.8%);	







