

# Lab3 - Advantages and Disadvantages of IoT Devices

## Objectives

Brainstorm the pros and cons of sensors.

## Background / Scenario

Many devices have sensors in them that affect the operation of processes or generate data to assist governments and businesses. Do their advantages outweigh any disadvantages?

## Required Resources

- none

### Step 1: Answer the following questions.

- a) Describe some of the advantages for including sensors in parking spaces in a municipal parking garage?

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Answers will vary but might include:

- 1) Less impact on the environment since there would be less gas emissions from idling cars.
- 2) Drives would be able to park quicker so could spend more time shopping or eating.

- b) What type of data could sensors pull from your smart TV? From your fitness wearable?

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Answers will vary but could include: Smart TV: number of hours per day watching TV, list of programs watched, and favorite programs based on frequency and number of hours watching. Fitness Wearable: frequency and time of exercising per day, number of hours of exercise per day, location of exercising, calories burned

- c) What might the data, from your previous answer, be used for? Is the use a good thing or a bad thing?

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Answers will vary but could include:

List of programs watched could be used by TV stations to decide what programs to purchase in the coming year. – Good use

Number of hours of watching TV per day could be used to determine when you are at home – bad use

Number of hours exercising per day could be used for target marketing of healthy foods or products – good use

Location of exercising could be used to determine when you are at home and when you are away – bad use