**JMA Dome Concession**

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**Project Problem:**

We have chosen JMA Dome Concessions as an example for this presentation as they are facing problem with **resource allocation**. JMA has recently taken over management of Syracuse University’s Dome and hence they are focusing on budget reduction. Management wants to cut down on the cost required to stock the items. As of now, the minimum work hours per day is 7hrs. However, it is observed that supervisors are more efficient in working than the general employees and they also are more aware of about the work. Eg. 1 supervisor is almost twice as fast than a general employee. As you can see in the ‘stocks’ table, above mentioned liquid and solid items are to be stocked in cooler or rack before any event.

Here, we must find a combination of employees (supervisor and general) so that we reduce the cost and also get the work done faster. In our presentation, first we will be providing a solution without any management science technique. Then we will be doing this budget allocation with equations and our intuitions where we will be allocating resources such a way where not only cost is reduced but also the resources are efficiently utilized.

**Why is it important to take this problem?**

Most of the people in our group work part time in JMA dome and we see this problem occur in day to day lives. We formulated this problem because we think this is a genuine concern that Dome is facing right now and we hope to understand it better as its employees. Part time employment is very important factor for international students so, planning and understanding how it works with budget cuts is crucial for us.