

Applied Analytics

- Understand the relationship between customer expectations and value-adding activities to direct focus appropriately.
- Establish reference data that captures current processes and their associated

resource requirement.

- Identify and prioritize key processes.
- Analyze key processes to determine the flow of value, information, and resource.
- Propose and validate possible improvements to key processes that would

generate maximum benefits while having the shortest payback period.

- Ensure improvement sustainability through obtaining employee buy-in and

knowledge management.

The agreed upon project deliverables were:

- Process maps including As-Is and To-Be states.
- Simulation models.
- Resource planning tool.
- Training documentation
- Improvement proposal

The manager of an amusement park would like to be able to predict daily attendance in order to develop more accurate plans about how much food to order and how many ride operators to hire. After some consideration, he decided that the following three factors are critical: Yesterday's attendance Weekday or weekend Predicted weather He then took a random sample of 40 days. Use significance level of 1% wherever needed.