

## Forecasting & Scheduling Optimization

### CHALLENGE

- To find a method to forecast product demand by category.
- Scheduling optimization for better work system.
- To make a model in MS Excel and Simul8 software.

### PARTNER



CR Plastics

*we create sustainable outdoor living*

- Stratford, Ontario
- 1994, Family owned
- Manufacturer of patio furniture and building materials from recycled plastic.
- Sustainable Manufacturing, based on upcycling.

### TEAM

- Project Champions: Sherry Dickson Snidder  
Andres Graces
- Project Faculty : Florent Lefevre-Schlick
- Group Members:
- Lovepreet Singh Maan
- Amandeep Singh
- Isha Singla

### MILESTONES & OUTCOME

- Forecasting can be done using time-series method for category basis.
- Focus on breakdown issues to increase the efficiency of extruders.
- Simul8 model developed for main products from main value stream.

### VALUE

Method of forecasting developed with user interface page considering seasonality into account going to be beneficial for company to control its production inventory.

### NEXT STEPS

- Simul8 is required to be used for all products optimization
- Further analysis of breakdown of equipment's

### STUDENT REFLECTION

- Analysis of the data
- Developed SIMUL8 Software skills
- Scheduling optimization

