Warehouse Design and Management at Cargill Foods India
Gaurav Kumar, MS GSCM 2015

**Project Objectives**
- Surface Area Utilization
- Rack Assembly Design
- Material Movement Trajectory
- SKU Location & Rotation
- Forklift Types

**Criteria & Analysis**
- Distance Traveled by Forklifts
- SKU Location
- Identifying closest location plan
- Advanced Open Solver
- Limitation

**Project Execution**
- Which SKU
- Where to Keep
- What Quantity

**Result & Recommendation**
- Surface Area Utilization
  - Design 1: 51%
  - Design 2: 51%
  - Design 3: 72%
  - Design 4: 72%
  - Design 3A: 58%
  - Design 4A: 58%

- Distance Travelled by Forklifts (per month)
  - Palletization- Conventional Method: 34174
  - Palletization- Efficiency Tool: 24354

- % Saving
  - Cost Saving: 51%
  - Truck Turnaround Time: 58%

- Workforce Count
  - Design 1: 20
  - Design 2: 25
  - Design 3: 22
  - Design 4: 16

- Equipment Cost
  - Design 1: 72%
  - Design 2: 72%
  - Design 3: 58%
  - Design 4: 58%

- Operation Cost
  - Design 1: 20
  - Design 2: 25
  - Design 3: 22
  - Design 4: 16