

# Operations Management (OM)

## Supply Chain Mgt.

### Make to Order (MTO):

- **Acyclic Supply Chain** (*NRL 2010*)
- **Component Commonality** (*ORL 2014*)

### Make to Stock (MTS):

#### Production-Inventory Systems

- **Discounted cost** (*OR 2014*)
- **Time average cost** (*ANOR 2015*)
- **Stockout Risk** (*ANOR 2017, Omega 2016*)
- **Continuous Production** (*NSF Proposal*)

## Transportation Logistics

### Container Shipping (USDA Granted)

- **Transloading**
- **Empty Container Repositioning**

### Data Analytics for Transportation (*DoT grant proposal*)

- **Cellular Data**
- **Travel Behavior**

## OM & Marketing Procurement

### Procurement

- **Dual-Channel contract design** (*Omega 2015*)
- **Order Promising** (*WIP*)

### Sustainability

- **Agricultural Supply Chain** (*under review of MSOM*)
- **Dual Channel Marketing** (*EJOR 2016*)
- **New Product Design** (*WIP*)

## Finance & OM

- **Operations Sequencing under Random Yields** (*NRL 2014*)
- **Cash-flow based Inventory Mgt.** (*POMS 2016*)
- **Pricing overage and underage** (*ANOR 2013*)
- **American Options Pricing** (*J. of B&E, 2016*)