

TIM 125/225, Management of Tech. II  
(MOT 2)  
- Supply Chain Management (SCM)

Lecture # 1 (1/10/17)

Agenda:

1. New Year Resolutions
2. What is a Supply Chain?
3. About the course; Syllabus, Operations
4. Supply Chain Basics
  - Stages in a SC
  - Processes in a SC
  - Flows
5. Objectives of SCM
6. Project
  - Teams
  - Context / Proposal!
  - Relation of TIM 125/225 to TIM 105/205 & other courses
7. HW # 1

## New Year Resolutions for 2017

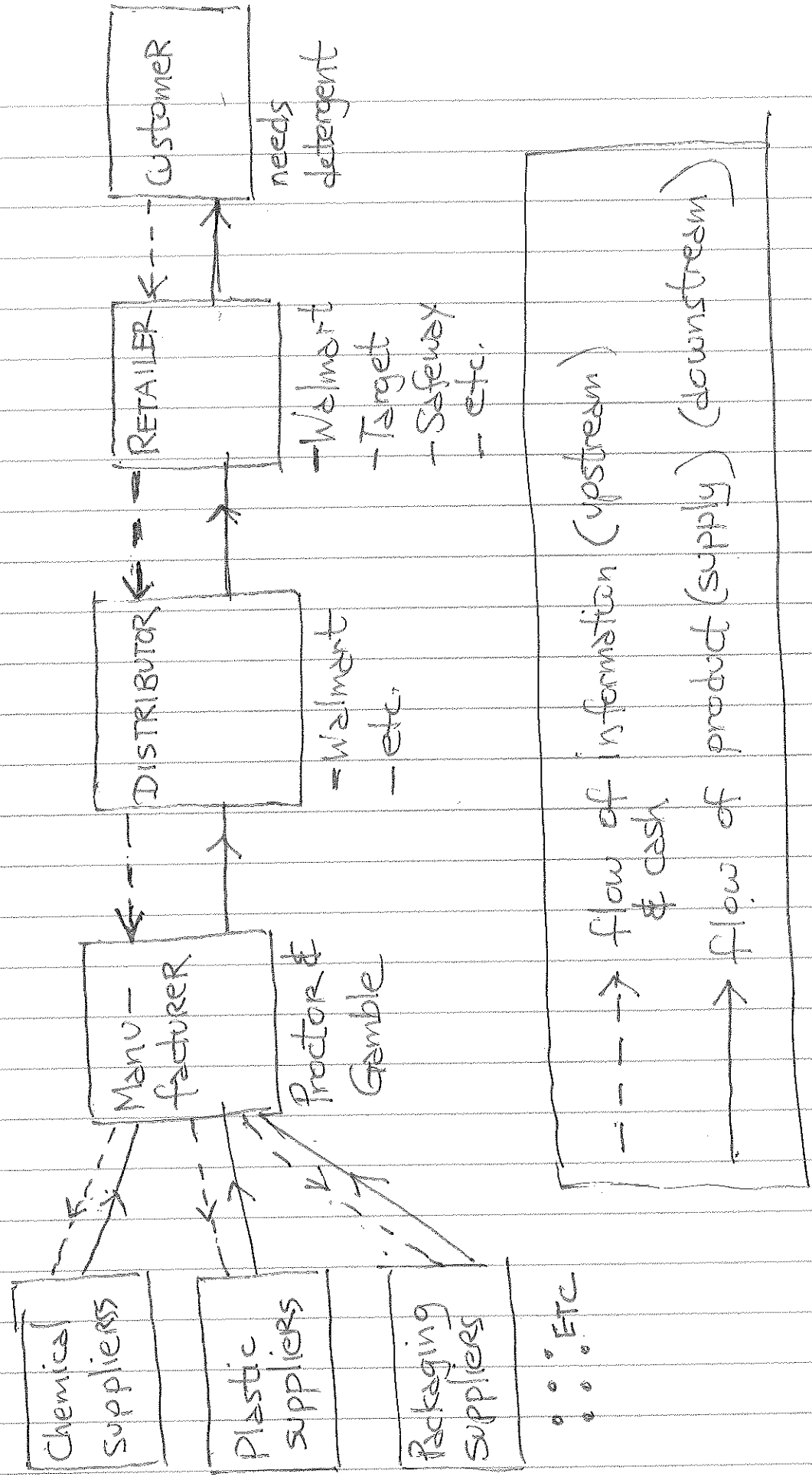
1. Work harder & in a more timely fashion (Zero tolerance for late work!)
2. Work with honesty & integrity
3. Build up serious EXCEL skills
  - spread-sheets
  - Excel as a computational tool
  - Excel as a programming environment (using Visual Basic)
4. Build up serious quantitative analytical skills
  - Forecasting (Time-Series Analysis)
  - Uncertainty analysis
  - Optimization
5. I will attend every lecture, take good notes (in a proper notebook), & use these notes.

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### A. What is a Supply Chain

Example: Assume that you want to buy laundry detergent

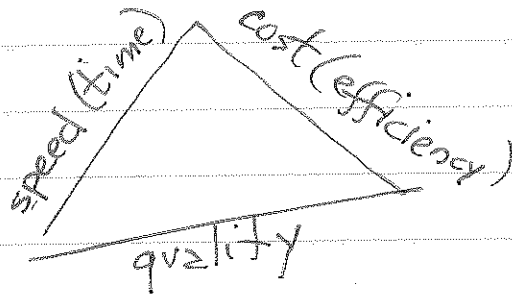
# stage view of the Supply Chain (SC) for Laundry Detergent



## B. Supply Chain Basics

### B.1 Function (or Purpose) of a Supply Chain (SC):

- To supply high-quality product to the customer, on-time, and at the lowest possible cost.



### B.2 Objective of SC Management (SCM)

is to maximize the profitability of the entire supply chain.

It's no longer about Company A vs Company B (TIM 105/205)

but, instead, about A's supply chain vs B's supply chain

B.3 Supply chain profitability  $\triangleq$  )

$$\left( \begin{array}{l} \text{Revenue from the} \\ \text{customer} \end{array} \right) - \left( \begin{array}{l} \text{all the costs} \\ \text{in the SC} \end{array} \right)$$

Goal : Maximize SC profitability

# Project Proposal

due on Thursday, 12 Jan. 2017

1. What are you proposing?

- To develop & manage all aspects of the SC for your company's product

- describe your product

- what are you planning to do with this product this quarter:

design the SC, ...

(see syllabus)

2. Project Plan

- see syllabus

- add roles & responsibilities

3. Develop a pre-liminary supply chain for your product

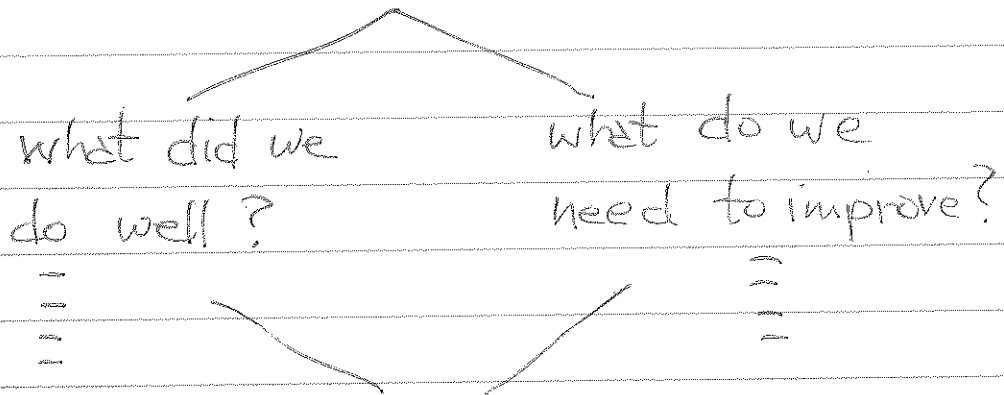
(see laundry detergent example)

- Dissect your product

- develop the relevant supply chain

4.

#### 4. Self & Team - Reflection of your team project from last quarter



New Year's resolution for the team } How do we become a high-performance team  
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