ENGineering and INdustry Innovative Training for Engineers (ENGINITE)

PROJECT NUMBER
2017-1-CY01-KA202-026728

ENGINITE Course Planning and Information for:

B4- Logistics and Supply Chain Management

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Table of Contents

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Part C – Learning Scenario

C.1. Problem-based learning scenario

Within the framework of corporate social responsibility, the industry/company that you work intends to implement various environmentally friendly practices to contribute actively to the protection of the environment.
In this framework, the CEO of your company asks you to describe actions and strategies to reduce the carbon footprint of the supply chain. Provide a technical report to achieve the goal of 25/50, i.e., to reduce the CO_2 emissions of your supply chain by 25% until 2050. You have to prepare a comprehensive presentation and a technical report to provide to the CEO all relevant information. The technical report should contain a roadmap and an implementation plan.

Tips for the facilitator/instructor:

1. The following questions/topics will guide the engineers:

What is logistics and supply chain? Definitions and Examples.
What are the basic operations of the supply chain?
What is Corporate Social Responsibility?
What is climate change?
What are the impacts of climate change on humanity?
How climate change can affect businesses.
What are the risks faced by companies as a result of climate change?
Why it is important for businesses to reduce the environmental footprint of their supply chain?
What strategies companies can use to reduce their environmental footprint?
Policies to reduce CO2 emissions in the atmosphere.
What is the role of technology?
Measuring first: how to reduce something that you do not know how much it is?

The facilitator/instructor will guide the engineers to follow these steps:
Step 1: Choose a particular product or a service.
Step 2: Analyze its supply chain. Pay special attention to the various operations of the supply chain of that particular product or service.
Step 3: Which parts of the supply chain contribute more to the CO_2 emissions?
Step 4: Calculate (if possible) the CO_2 emissions associated with the supply chain of that particular product or service.
Step 5: Suggest possible ways of reducing the carbon footprint of the supply chain.

The technical report should take into account the following issues associated with the reduction of the carbon footprint of the supply chain:

- advantages
- disadvantages
- costs
- risks

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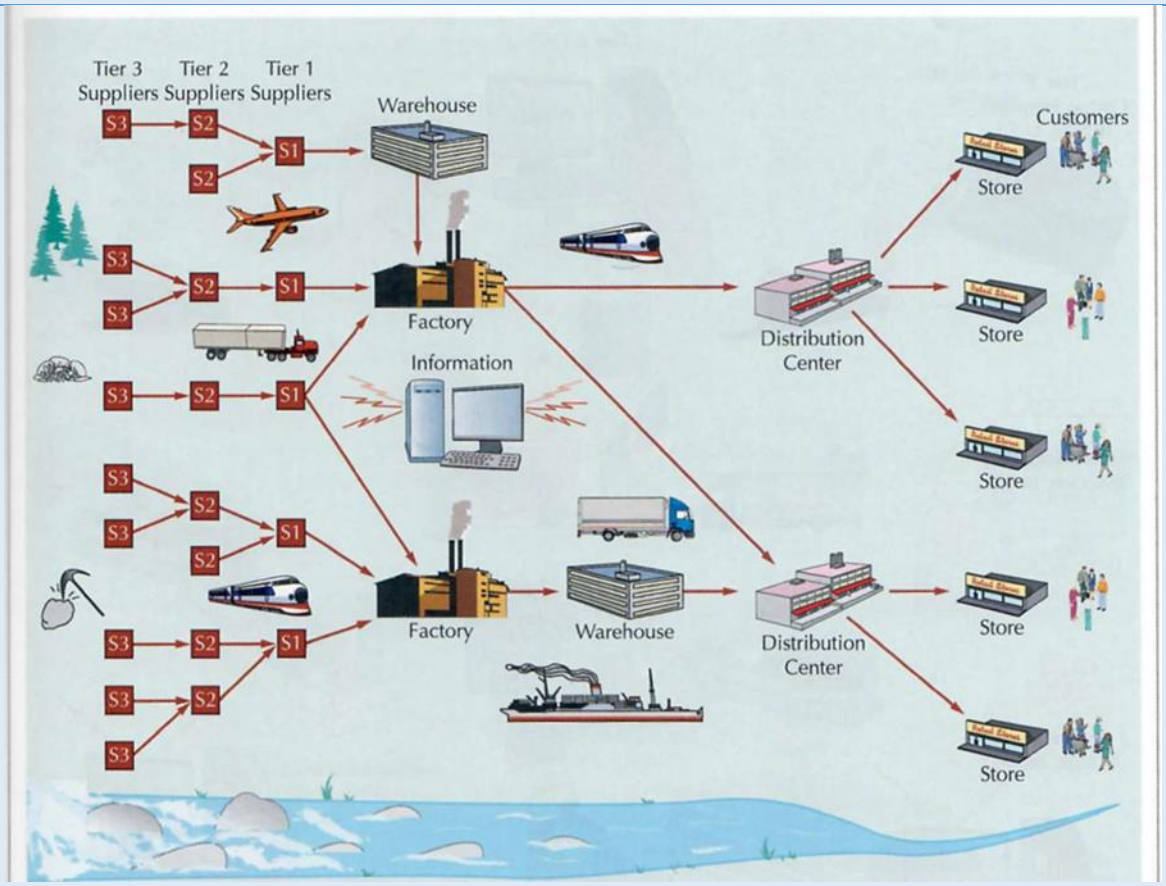
Relevant Images

Supply Chain



Supply Chain

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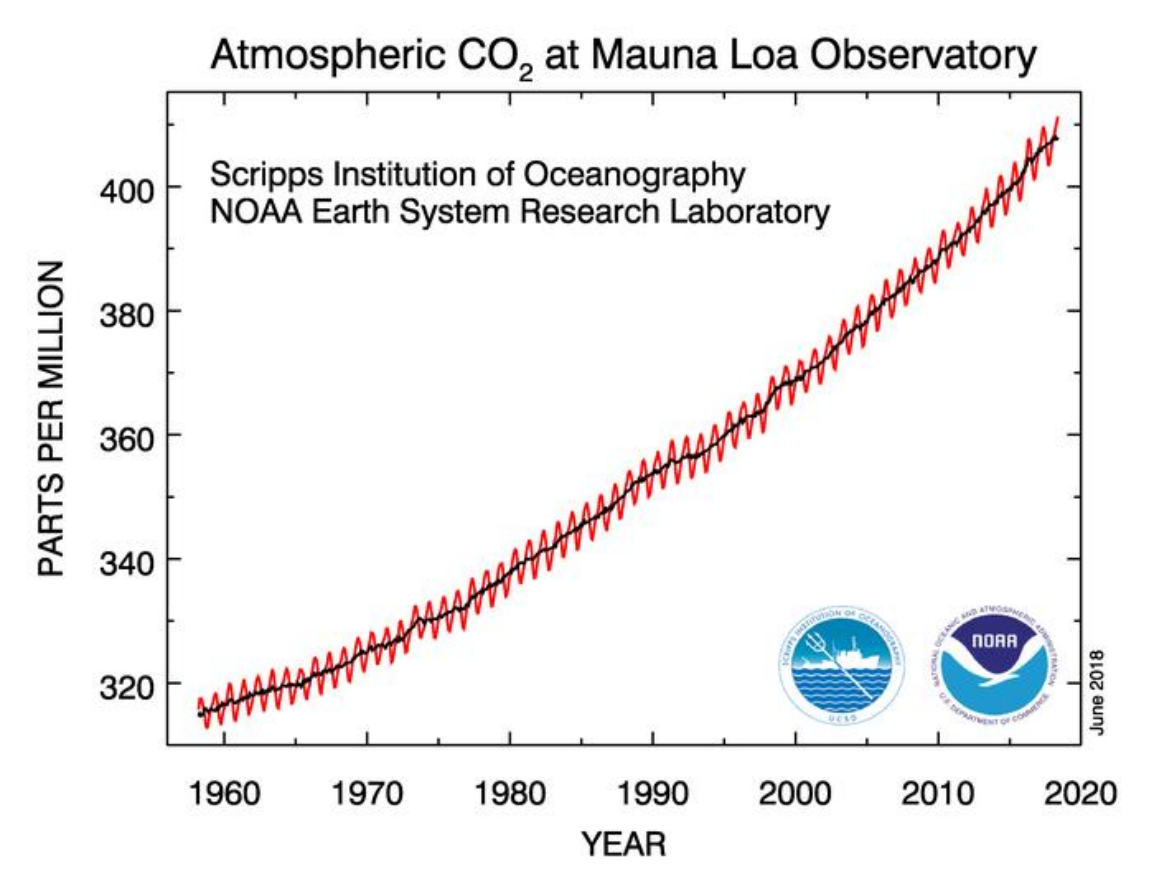
Supply chain management



CO_2 concentration in the atmosphere
https://www.esrl.noaa.gov/gmd/ccgg/trends/full.html

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This document has been produced by the consortium of the ENGINITE project

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