



# International Conference on Food & Agriculture

Food Processing and Supply Chain

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# Food Processing & Supply Chain



Represents one of the complex business models

Investment intensive processing and supply chain infrastructure and operation.

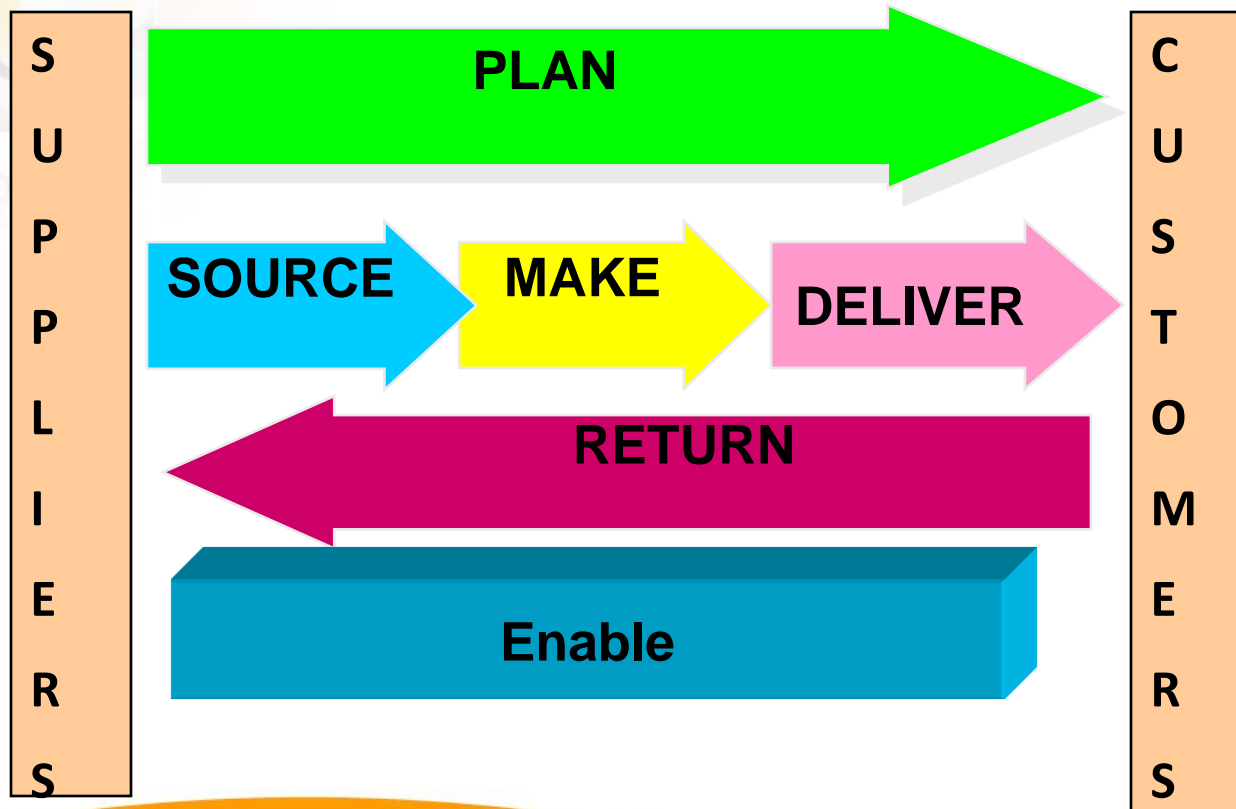
Nature of product – shelf life, market diversity.

A regulated business by government, trade consortiums and consumer associations.

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Typical supply chain model



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**Plan** - Processes that balance aggregate demand and supply to develop a course of action which best meets sourcing, production and delivery requirements.

**Source** - Processes that procure goods and services to meet planned or actual demand.

**Make** - Processes that transform product to a finished state to meet planned or actual demand.

**Deliver** - Processes that provide finished goods and services to meet planned or actual demand, typically including order management, transportation management, and distribution management.

**Return** - Processes associated with returning or receiving returned products for any reason. These processes extend into post-delivery customer support

**Enable** - A process that prepares, maintains, or manages information or relationships on which planning and execution processes rely.

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## Key elements to manage

Product flow management– movement of goods from supplier to consumer and returns.

Information flow management– related to scheduling, ordering, inventory and delivery.

Finance flow management– credit terms, payments, claims.

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Key pressures driving food processing & supply chain

Quality

Consumer safety

Environment

Cost effectiveness

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Approach to manage these pressures

Highly integrated and comprehensive Quality Assurance Function.

Hygienic design and operation.

Effective implementation and maintenance of management system best practices.

Initiatives to reduce the environmental impacts and drive sustainability.

Lean manufacturing.

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Engro Foods' perspective to apply these approaches

Deployment of QA best practices with a network of QC labs (field, mobile, reception, inline) and QA department for ;

- Supplier quality assurance
- Product release
- Identification and traceability
- Product stability and Shelf-life study
- Distributor and retail quality assurance
- Management of non conforming products, market returns and complaints

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Engro Foods' perspective to apply these approaches

Ensuring the implementation of best practices for the sanitary design and operation

- Site selection
- Building, work space, employee facilities
- Supply of air, water, energy and other utilities
- Equipment complying to international hygienic design standards (3A, IDF).
- Cleaning, sanitizing and maintenance operations
- Pest Control
- Personal hygiene
- Prevention from cross contamination

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Engro Foods' perspective to apply these approaches

Effective implementation and maintenance of management system best practices

- SCOR model (Supply Chain Operation Reference model version -9)
- ISO and other international standards (ISO 9001, 22000, 14001, BRS, SQF 2000, OHSAS 18001)
- SAP (Best in class ERP solution)

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Engro Foods' perspective to apply these approaches

Lean manufacturing

- Kaizen
- 5S
- Genchi Genbutsu (Go to the source and learn)
- Waste control
- Team building
- Capacity enhancement

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Engro Foods' perspective to apply these approaches

**Initiatives to reduce the environmental impacts and drive sustainability**

**Selection of sites in such a manner to support the socio-economic growth of communities**

**Infrastructure and support operations to comply the NEQS limits**

**CSR initiatives**

# Thank you

