

Part 3

# TECHNICAL AND PRODUCTION ASPECTS

Innovating for a Better Tomorrow

Dwi  
Nugroho

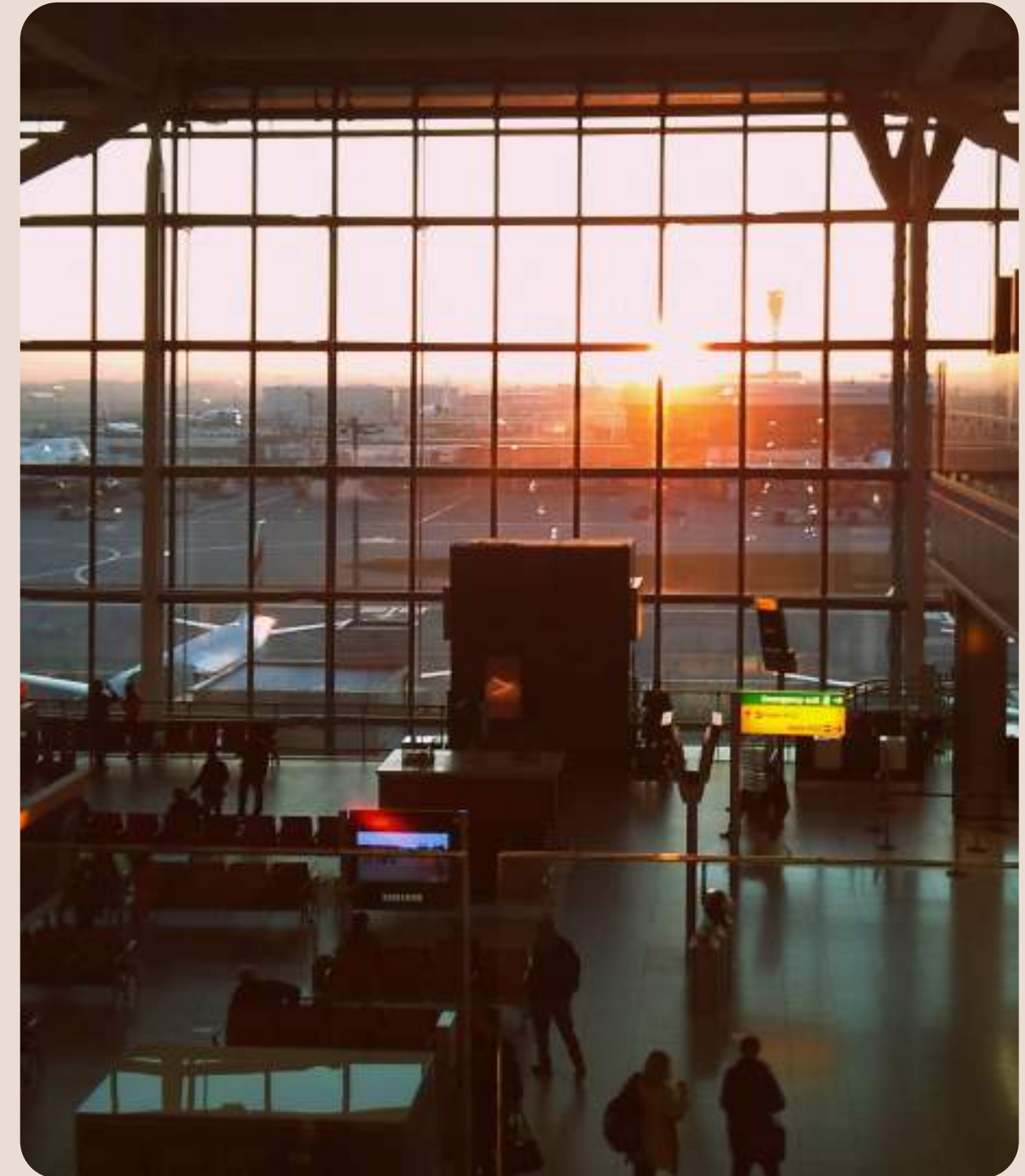
01



# Study Purpose

---

In a business feasibility study, technical and production aspects are one of the important components to assess **whether a business can be run effectively and efficiently from an operational perspective.**



# Technical Aspects

03



# Business Location

Strategic and accessible

Close to sources of raw materials, labor, or markets.

Consideration of rental costs and supporting facilities.



# BUSINESS LAYOUT

Arrangement of equipment and work areas to maximise efficiency

Pay attention to safety, comfort, and smooth production flow.



# Technology and Equipment

The type of technology used, whether manual, semi-automatic, or automatic.

Capacity and specifications of machinery/equipment.

Cost of procurement, maintenance, and availability of spare parts.



# Production Capacity

# PRODUCTION PROCESS

Stages and production flow from raw materials to finished products.

Standard operating procedures (SOPs) to ensure quality.

A photograph of two men sitting at a table in a bright, modern office or meeting space. The man on the left, wearing a black polo shirt and glasses, is seen from the side, looking towards the other man. The man on the right, wearing a grey blazer over a light-colored shirt, is gesturing with his hands while speaking. On the table are some papers, a water bottle, and some food. Large windows in the background let in plenty of natural light.

# PRODUCTION ASPECTS

# Raw Material Availability

Raw material sourcing, quality, price, and continuity of supply

Raw material storage system to maintain quality.



# LABOUR

Labour needs, both in terms of numbers, skills, and labour costs.

Employee training and skills development.



# Quality Control

A system to ensure that products are produced according to standards

Inspection at every stage of production to minimise product defects.



# Production Efficiency

Optimal use of resources to reduce costs and increase production output.

# WASTE MANAGEMENT

Environmentally friendly production waste management system.

Compliance with applicable environmental regulations.

# WHAT STRATEGY TO CREATE

Conduct in-depth research before deciding on location, technology, and equipment.

Develop clear production SOPs and conduct training to all employees.

Diversify Suppliers to reduce dependence on a single source of raw materials.



# WHAT STRATEGY TO CREATE

Adopt  
Technology  
that is  
Efficient and  
easy to  
maintain.

Establish a  
strict Quality  
Management  
System to  
control  
production  
output.

Implement  
Waste  
Management  
that is  
orientated  
towards  
environmental  
sustainability.



# WHAT PROBLEM WE HAVE?



Under investation IN EDUCATION

Under Investation IN INFRASTRUCTURE

Lack of GOVERNANCE



Lack of COMPETITIVNESS



# How to Develop the Nation? It's not piece of cake

Language

STEM (Science,  
Technology, Engineering,  
Mathematics)

Legal Certainty