

# Safety Management

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IN PRODUCTION PLANNING & CONTROL

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**10th Week: Safety Management Strategies**



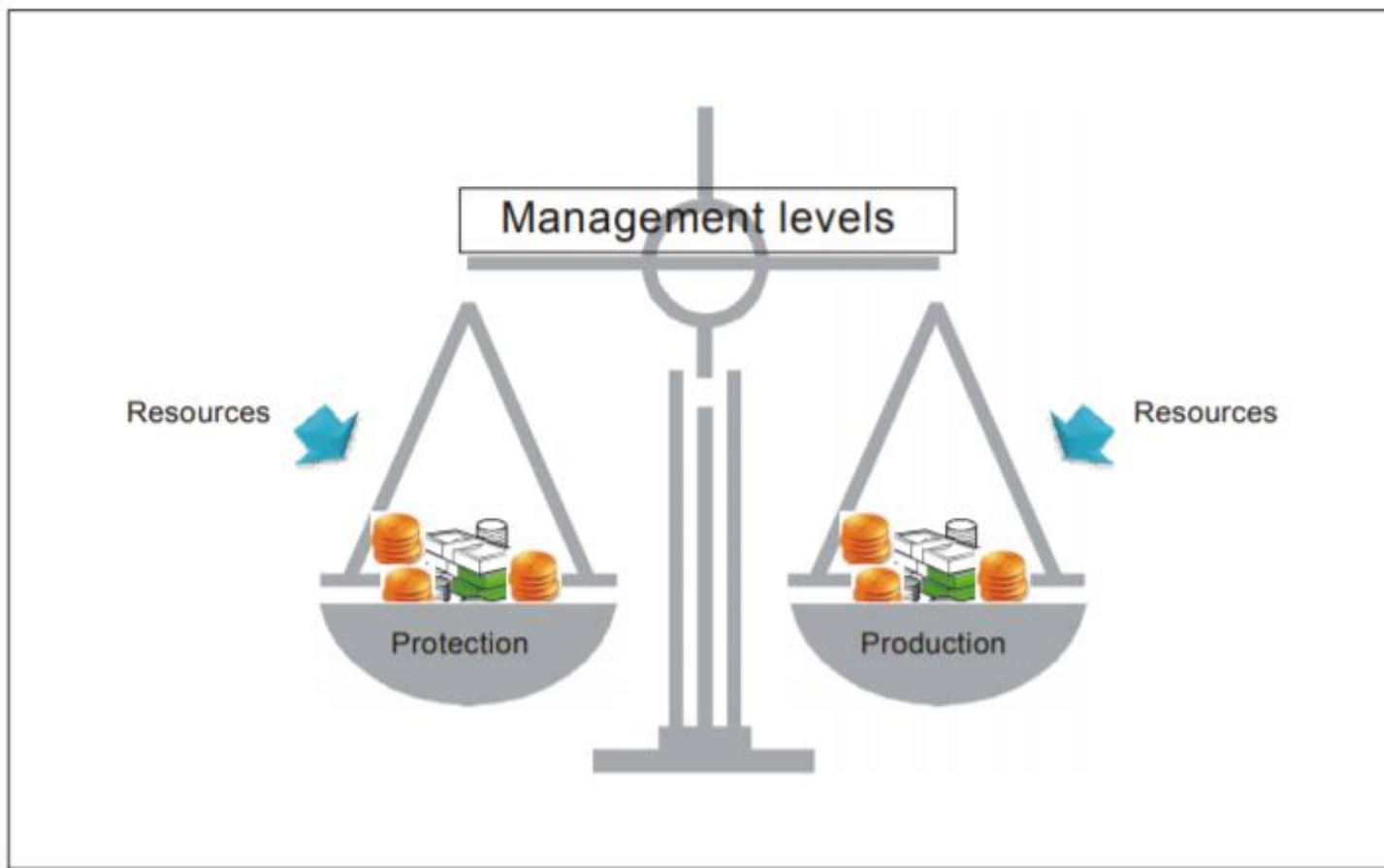
# What is strategy?

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«Strategy is a plan of action designed to achieve a long-term or overall aim»

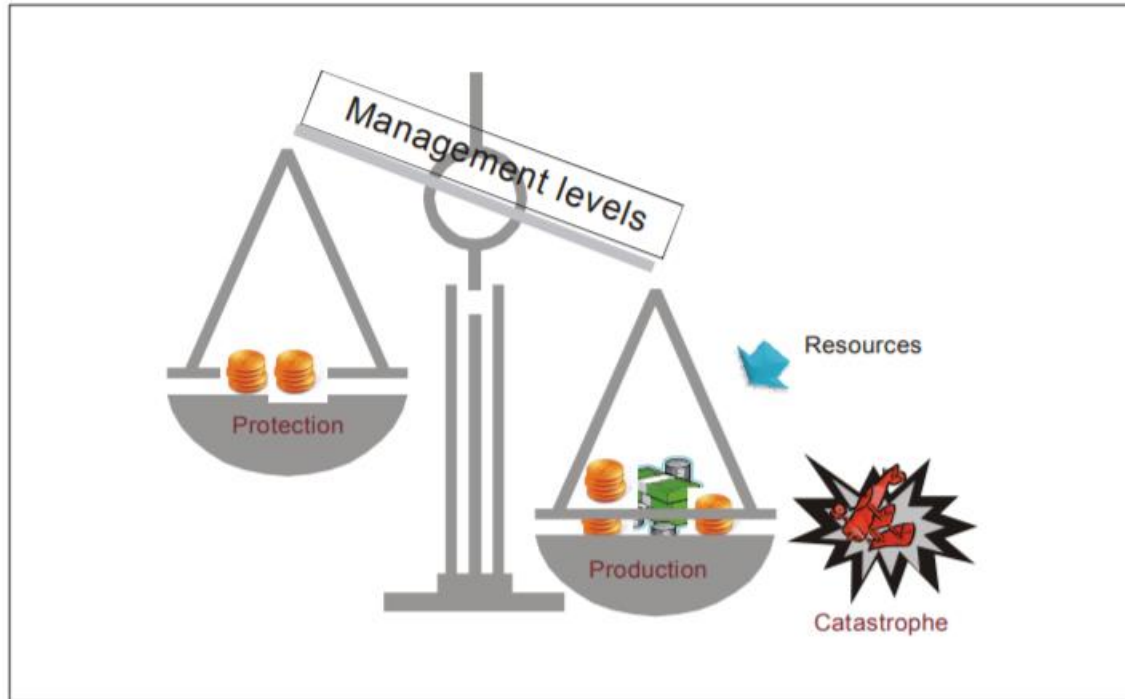
Or

«Strategy is a high level plan to achieve one or more goals under conditions of uncertainty.»



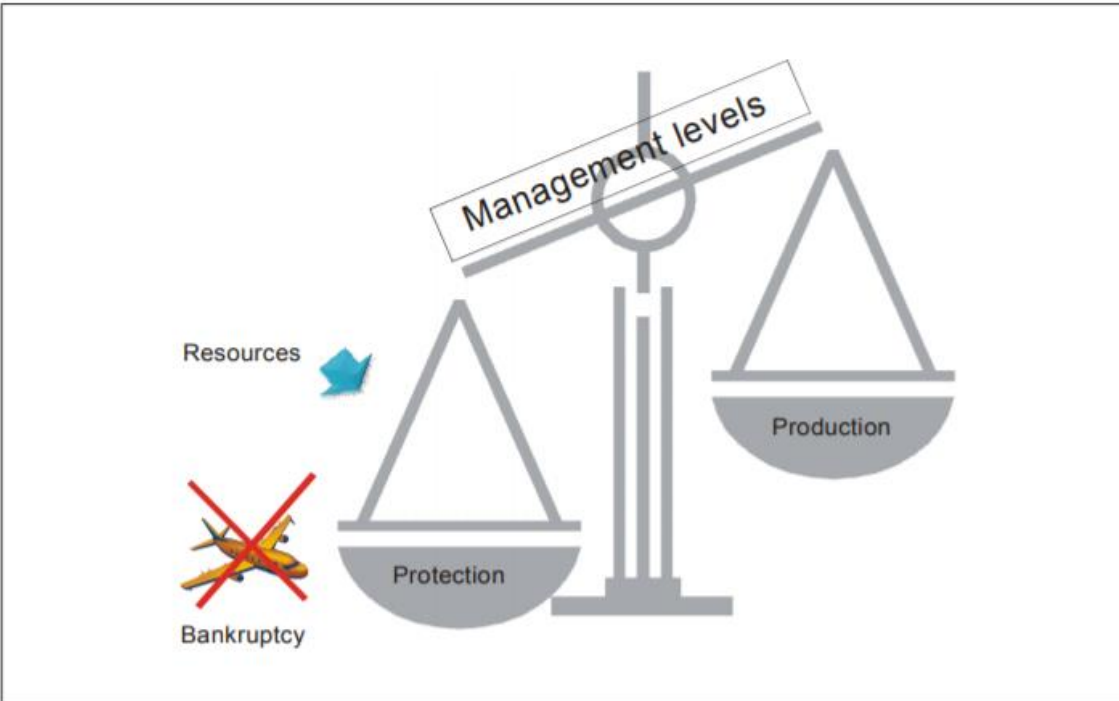
# Management Dilemma

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Management  
Dilemma:  
Overproduction

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# Management Dilemma: Overprotection

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# Strategies

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graph TD; A[Strategies] --- B[REACTIVE]; A --- C[PROACTIVE]; A --- D[PREDICTIVE]
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The diagram illustrates a classification of strategies. At the top level is the word 'Strategies'. A horizontal line extends from below this box, with three vertical lines connecting it to three separate boxes below. These boxes are labeled 'REACTIVE', 'PROACTIVE', and 'PREDICTIVE' from left to right. All boxes are orange with white text and white borders.

REACTIVE

PROACTIVE

PREDICTIVE

# Strategies

## **Reactive:**

Reacting to a problem or event after it emerges / occurs.

## **Proactive:**

Preventing problems and events before they emerge / occur.

## **Predictive:**

Monitoring indicators to predict and foresee the future problems.



# Examples

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## «Airplane Crashed because of Engine Fire»

REACTIVE: Investigation of accident and find the causes of Engine Fire, and take precautions for this type of engine fires.

PROACTIVE: Assess the engine fire risk, take precautions to prevent it and create safety barriers for mitigating the risk.

PREDICTIVE: Periodically monitor the engine data and predict possible future malfunctions.



# Examples

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## «Table broke at Starbucks»

REACTIVE: Find what caused to broken table, fix the problem and take precautions to prevent tables broking again.

PROACTIVE: Assess the table broke risk, create a procedure for periodical replacement or maintenance of tables.

PREDICTIVE: Decide on indicators what can indicate a table's condition and monitor them.



# MANAGEMENT STYLES

Buzzle.com



**REACTIVE**

Reacting to  
a problem  
after it arises.

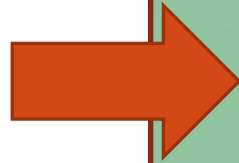


**PROACTIVE**

Preventing problems  
before they arise.

THIS IS NOT BAD, THIS IS  
MUST...

THE BAD ONE IS ONLY  
BEING REACTIVE...



# Data Sources for Reactive Safety Management

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**Reports**



**Records**



**Investigation**

After collecting data, we make ROOT CAUSE ANALYSIS and then perform Corrective & Preventive Actions for Root Causes.

Thank you

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