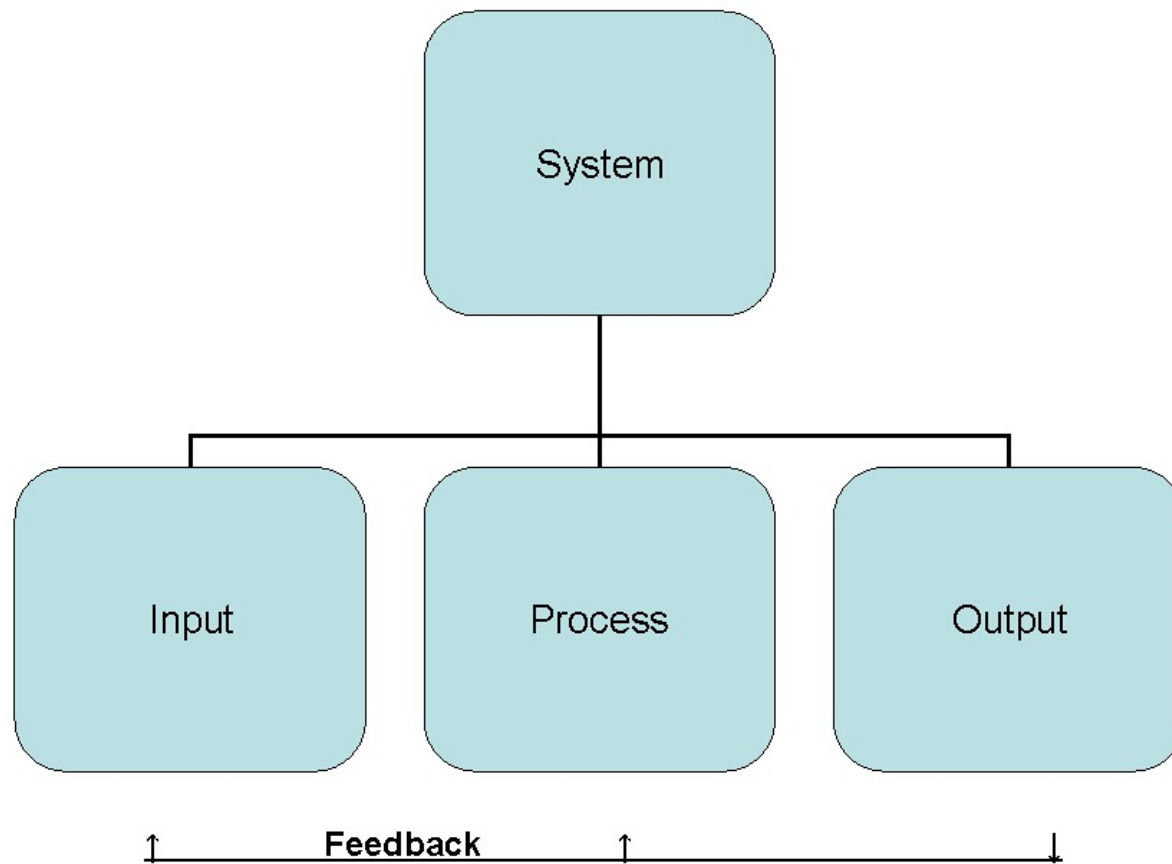


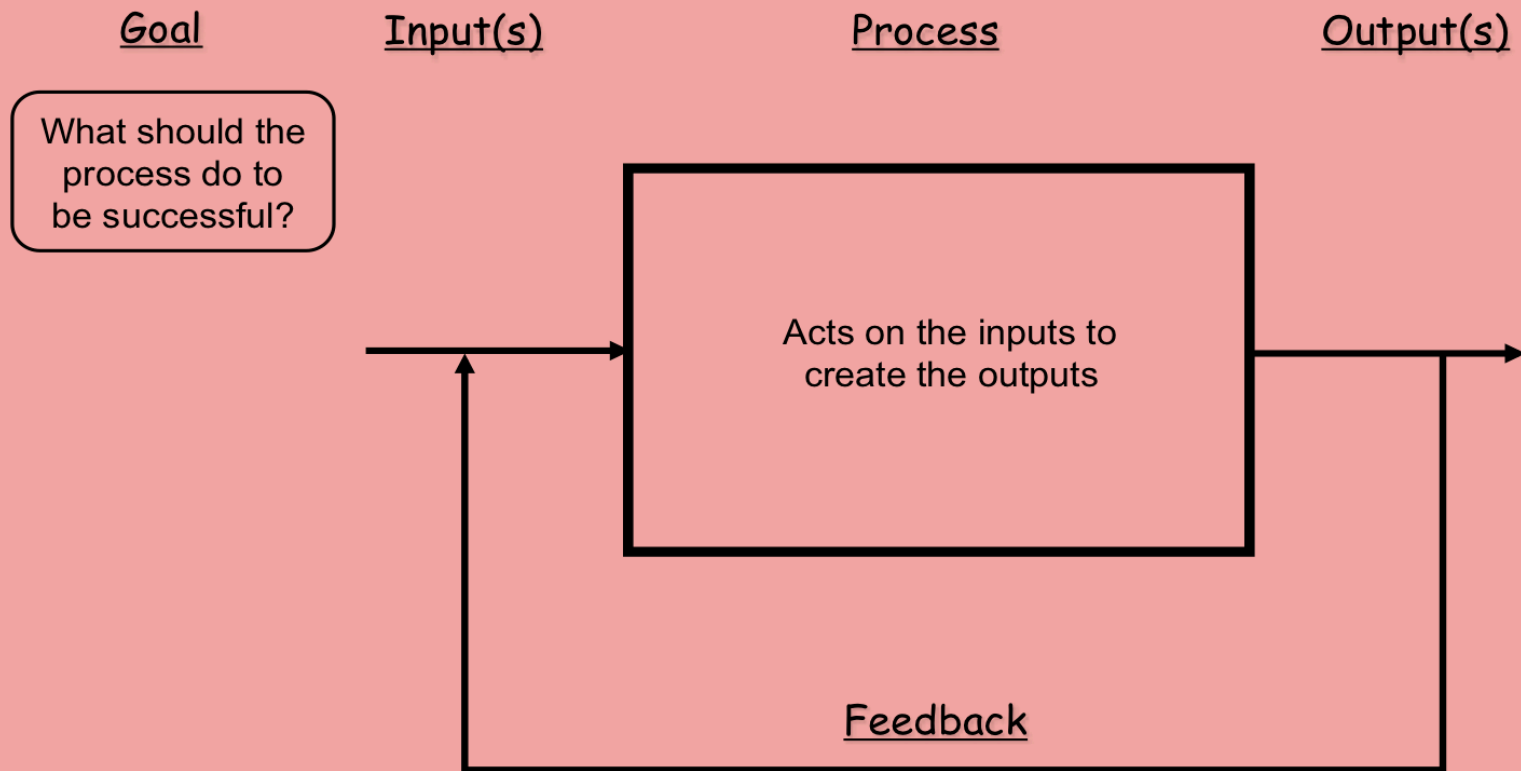
Understanding System Model & Life Cycle Analysis

By Professor R .M Belokar 5.08.2020 PEN 461 .TM



Reference RM Belokar research work 2008

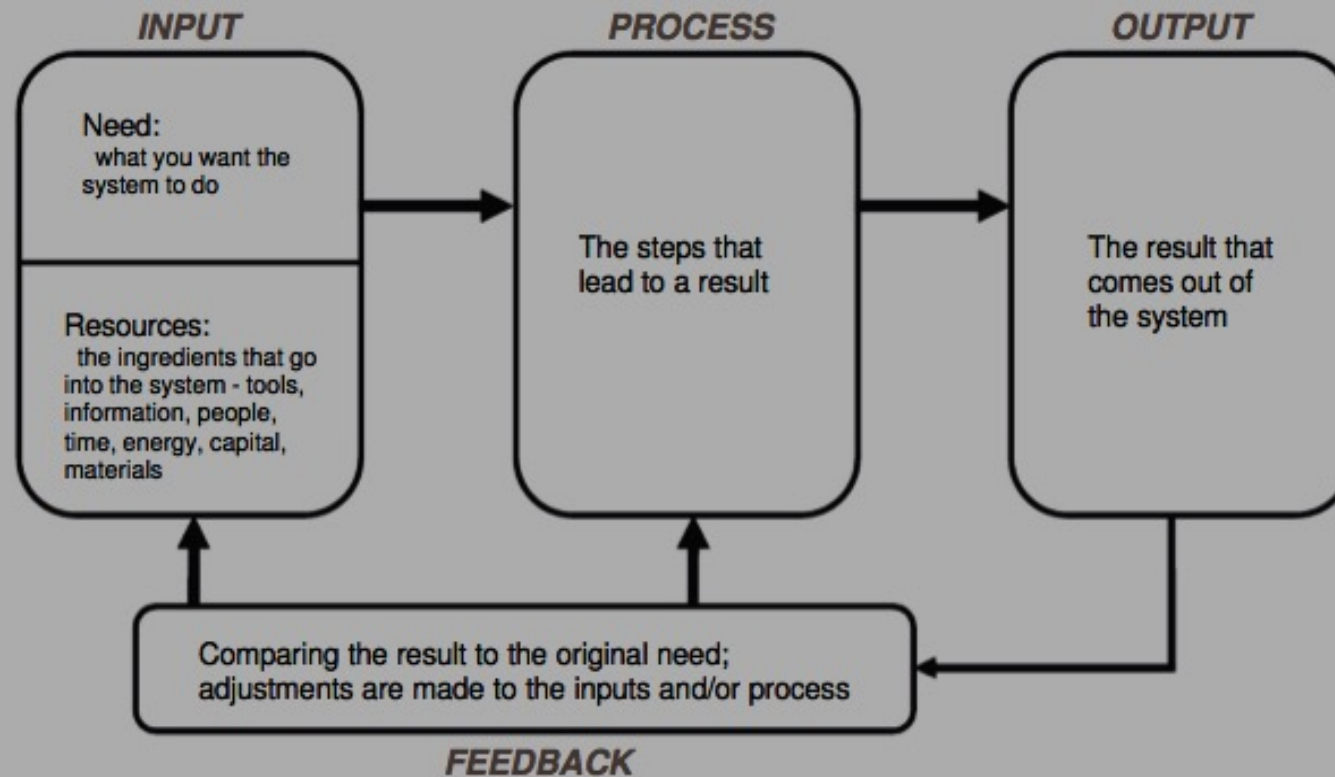
The Universal Systems Model



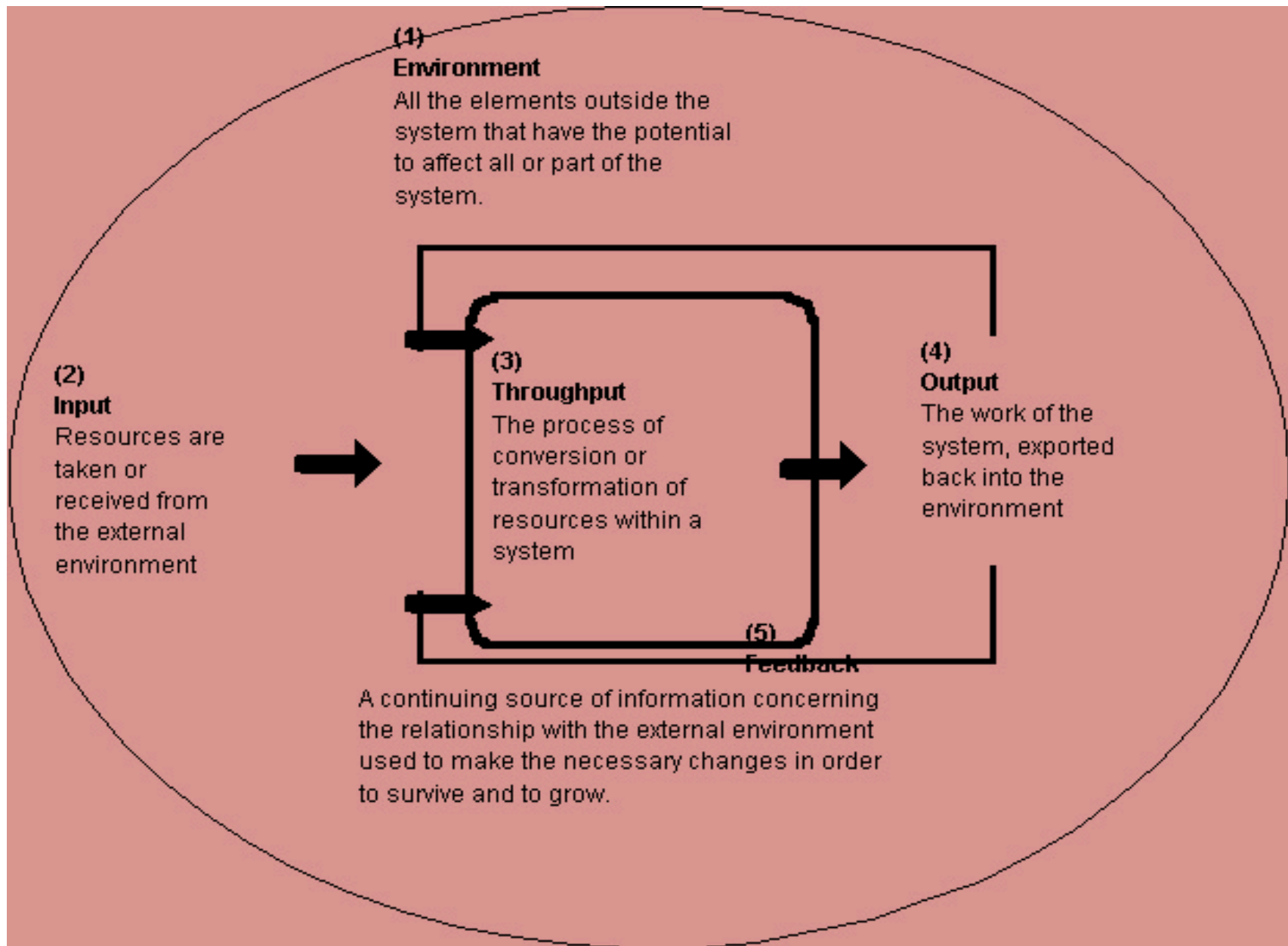
D. Miley Jun-10 R1.0

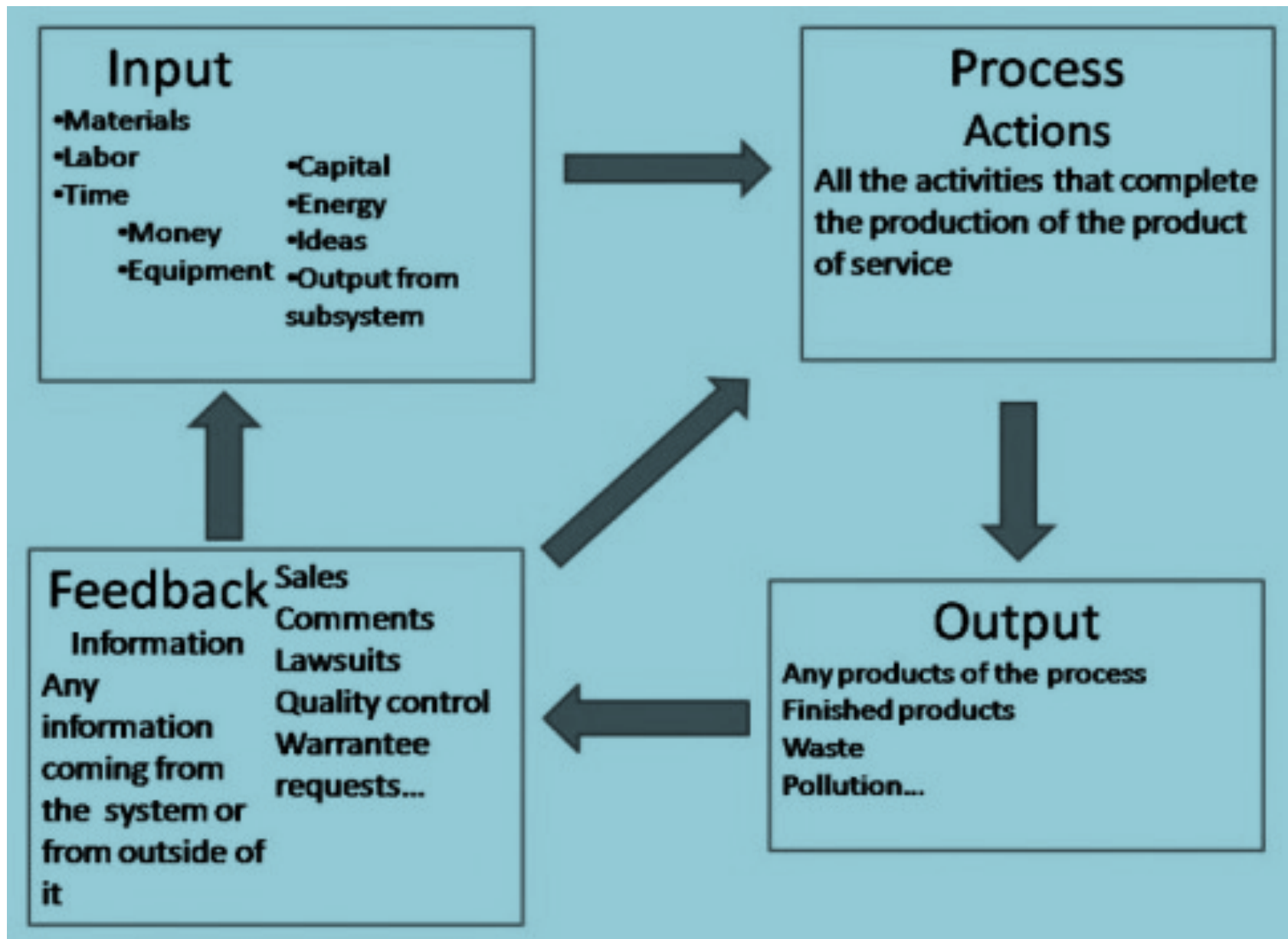
Universal System Model of Technology

Every technology, no matter how simple or complex, fits into this descriptive model



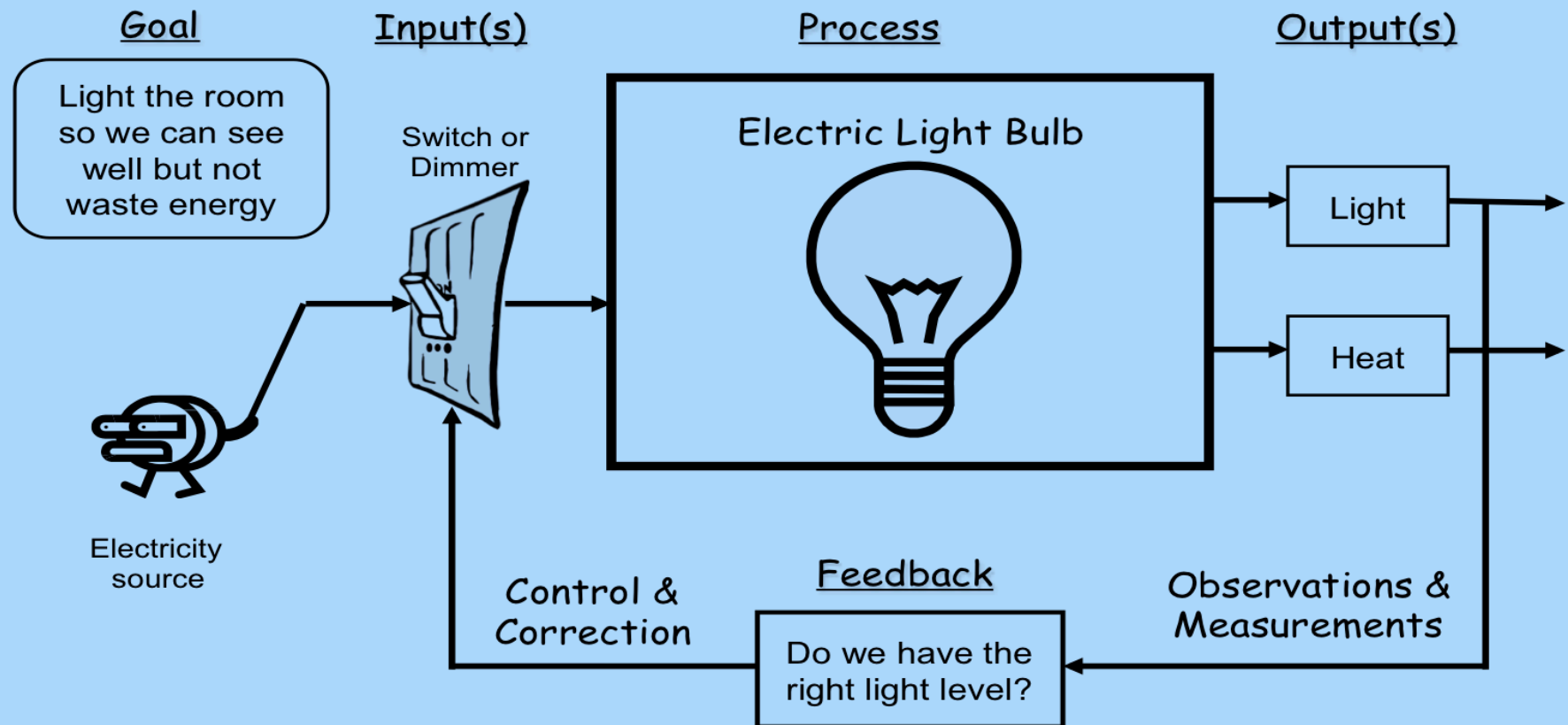
Adapted from the work of Jay Forrester, Massachusetts Institute of Technology; James Snyder, West Virginia Dept. of Education; & James Hales, Fairmont State College





The Universal Systems Model

Light Bulb Example



D. Miley Jun-10 R1.0

Inputs =

5 M

+

T+T

+

I (Q+Q)

Risk(s) involved in maintaining

system performance.

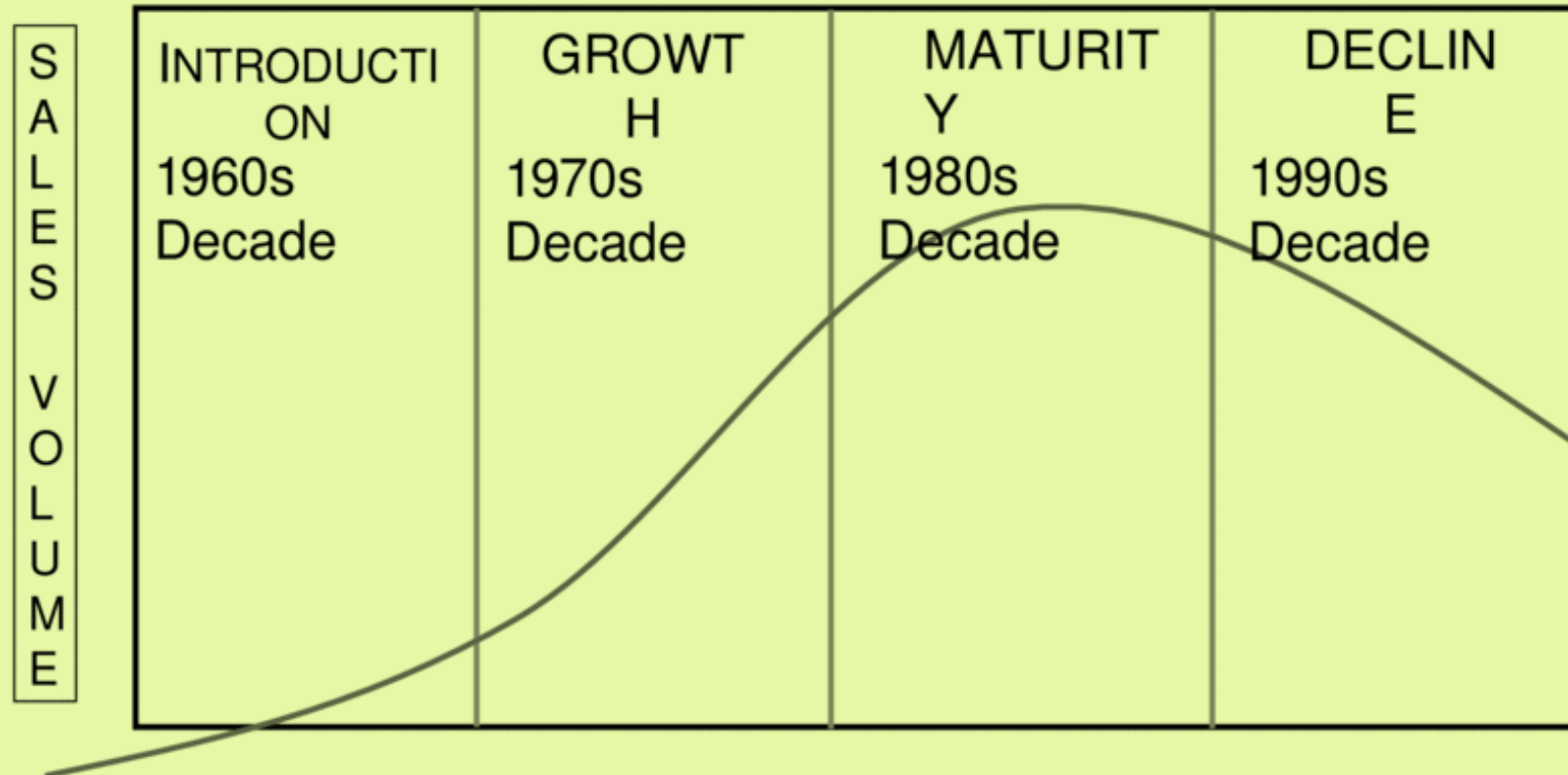
Out of control?

$5M + I + Q, Q + T, T$

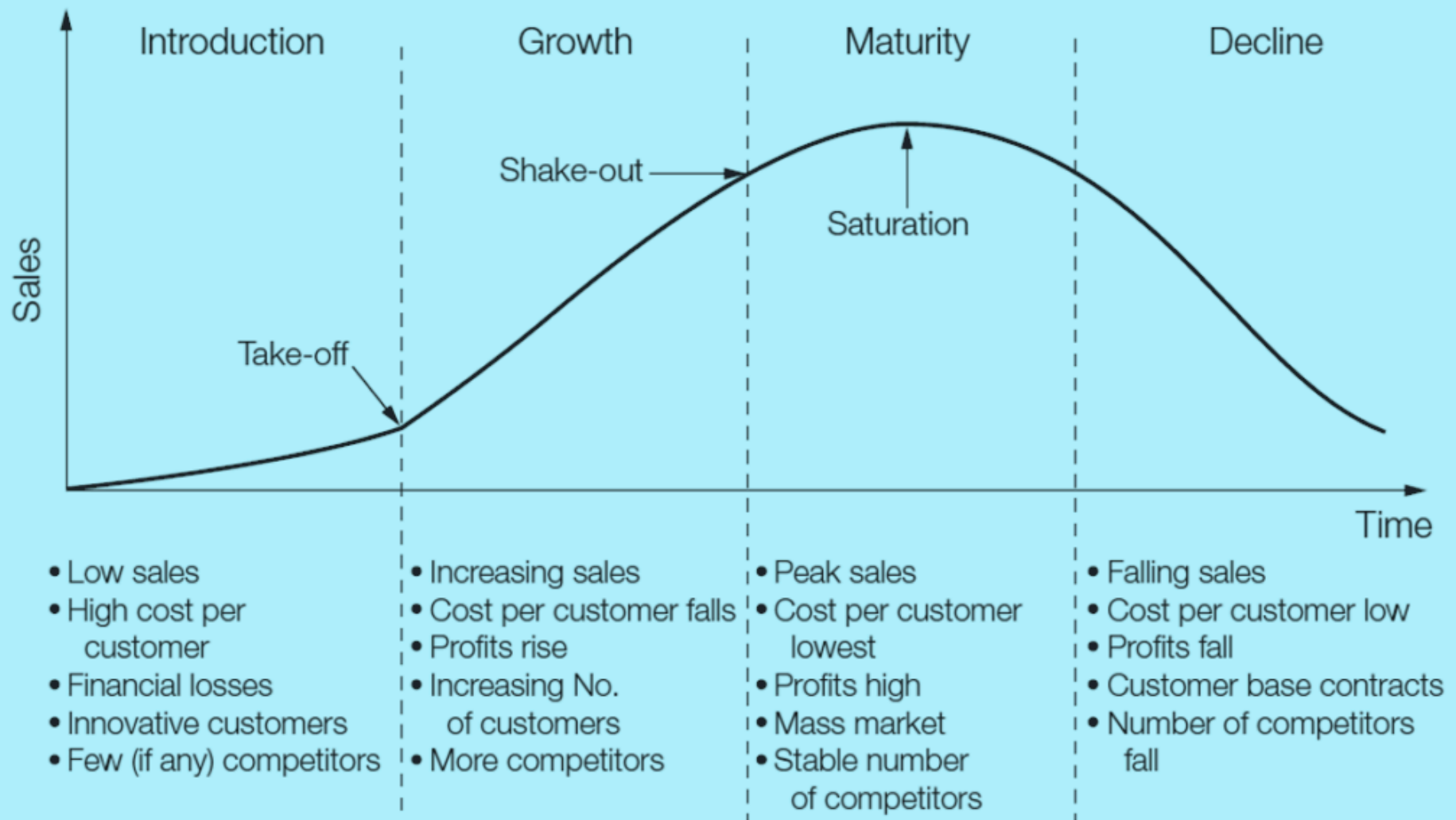
Life cycle $\ggggg \dots$

PRODUCT LIFE CYCLE FOR HMT

STAGES WATCHES →



The 4 Life Cycle Stages and their Marketing Implications



Product Life Cycle



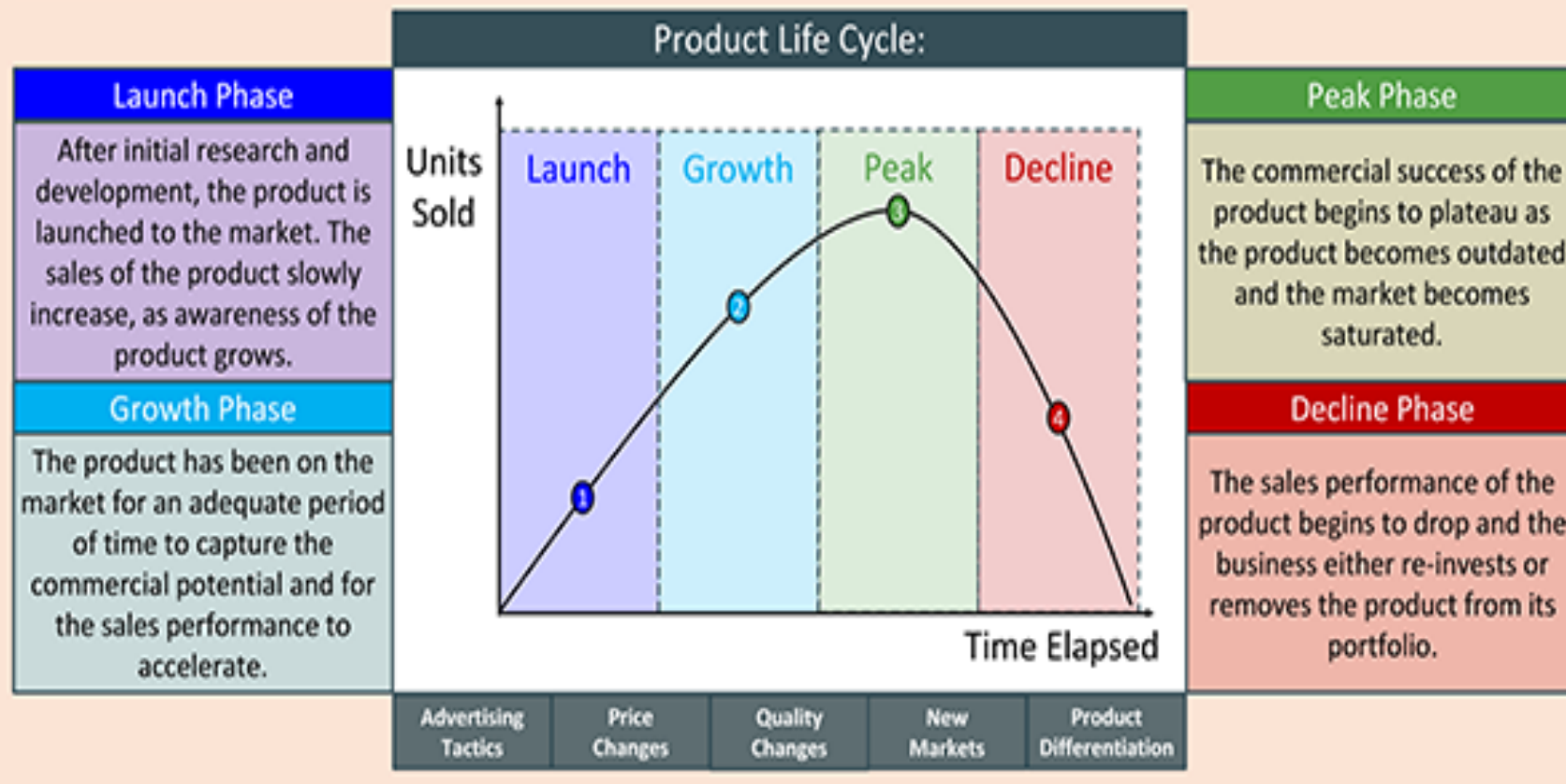
The phases that each product is expected to go through from its release on to the market until its removal from the market.

Forecast Sales Performance

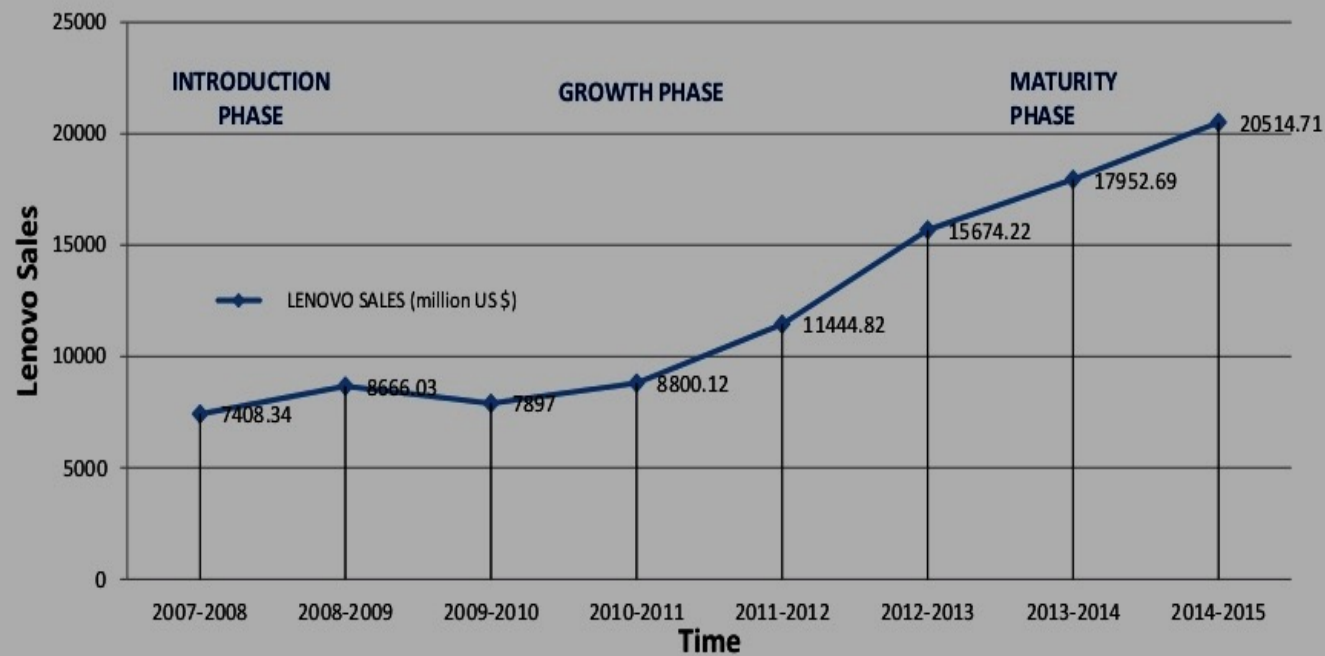
Focus Marketing Priorities

Identify Investment Needs

Manage Product Portfolio

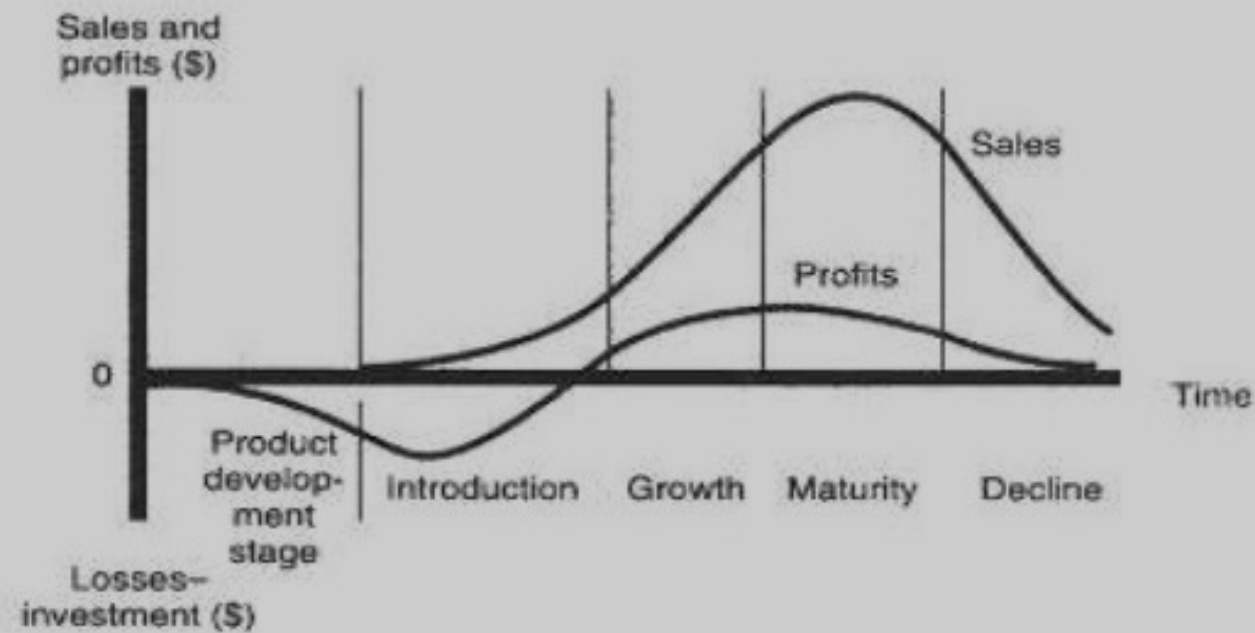


Lenovo Product Life Cycle

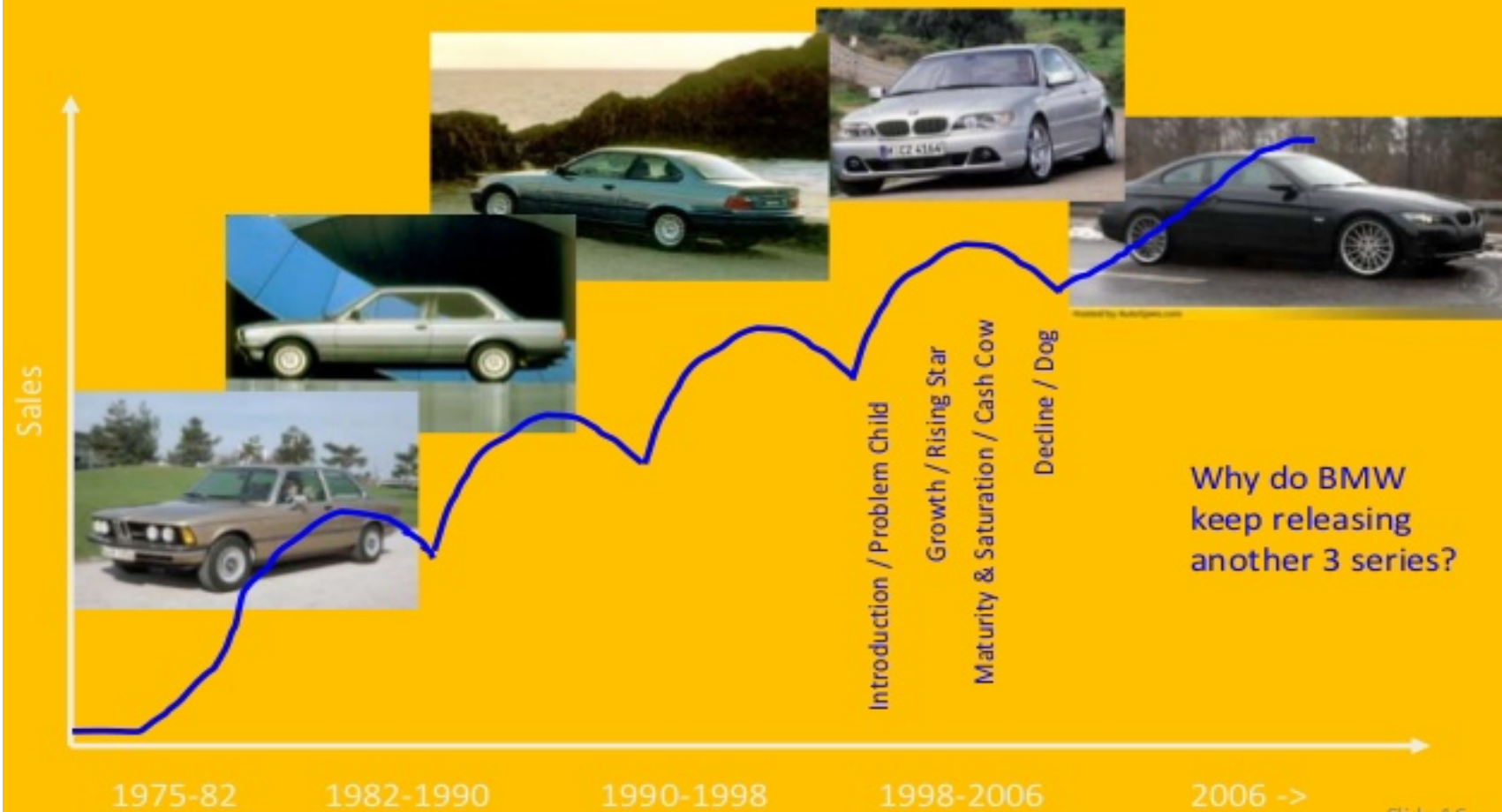


Lenovo Financial Information

Product life cycle of Royal Enfield

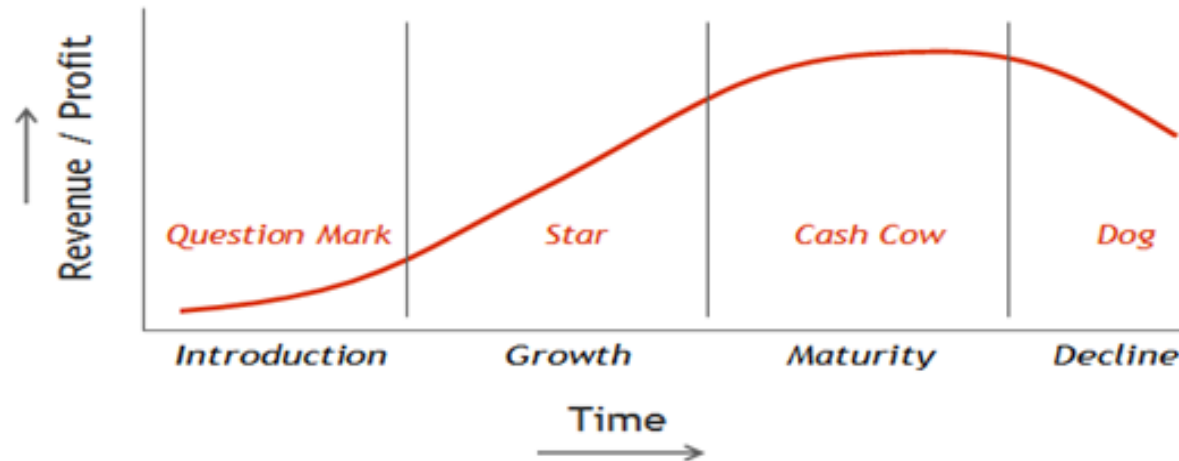


Product Life Cycle – BMW 3 Series



Slide 16

BCG positions throughout the product life cycle:







The Boston Matrix

Market Growth

High



| | |
|--|--|
| Problem Children  | Stars  |
| Dogs  | Cash Cows  |

Low

Market Share
High

Ade Aminu

Product Life Cycle and
Boston Matrix

Copyright 2006 Biz/ed



BCG Growth-Share Matrix (otherwise called BCG lattice, BCG investigation, or Boston Box) was created by Bruce Henderson in the mid-1970s for Boston Consulting Group. The model is helpful in brand advertising, key administration and generation administration and business portfolio examination. (Boundless, 2016)

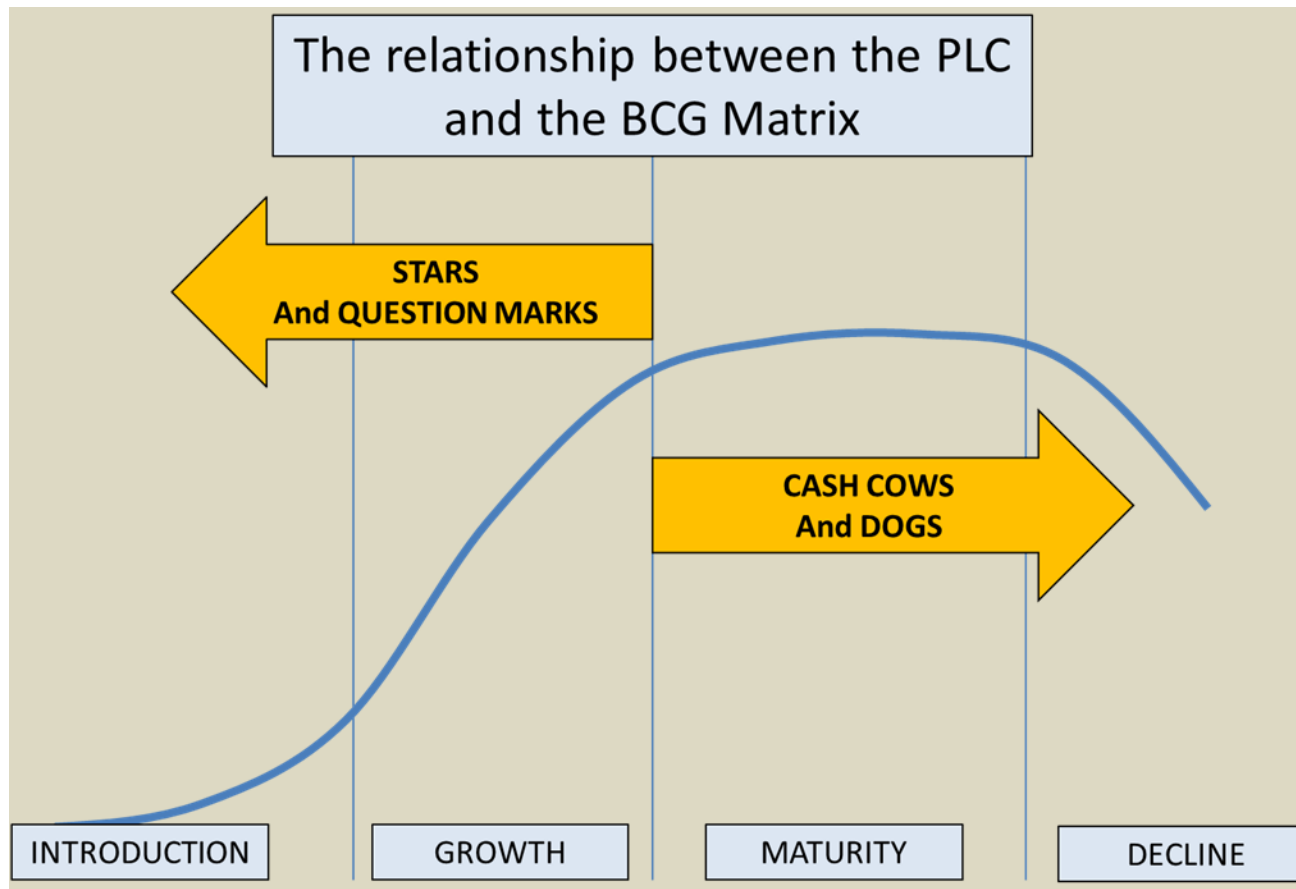
Items are characterized into four particular gatherings, **Stars**, **Cash Cows**, **Question Marks** and **Dog**. (Katherine Arline, 2015)

Four Elements:

There are four pieces of the matrix which are **Stars** that be seen as market driving items, **Cash cows** producing a critical level of salary yet are not costing the association much to keep up, **Dogs** that are likely making a misfortune or a low benefit, best case scenario and lastly Questions Marks that are in a high development advertises however does not appear to have a high share of the market. (bcg, 2016)

Uses of BCG Matrix

| | |
|--|--|
| <u>Star</u> High market growth High market share Cash neutral Hold | <u>Problem child</u> High market growth Low market share Cash absorbing Build |
| <u>Cash cow</u> Low market growth High market share Cash generating Harvest or milk | <u>Dog</u> Low market growth Low market share Cash neutral Divest |



Va-A P, N-Va- A P
Types of Sub-systems