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Editor's Note

## IQPM news

- A seminar on the topic of “Optimizing traffic flow: Strategies for improving road productivity” in collaboration with OPA Sri Lanka was held on 10<sup>th</sup> May 2024, at the OPA Sri Lanka Auditorium, Colombo 07. Details of this event will be shared in the next newsletter.
- 2024/25 Annual General Meeting of IQPM was also held on the same day, 10<sup>th</sup> May 2024 at OPA Sri Lanka, with a gathering of present/new office bearers and general members. Details including the new office bearers are expected to be shared in the next newsletter.
- Award ceremony of the Children’s poster competition conducted by the IQPM on the topic of “Quality & Productivity starts with you”, is currently being organised, and the date, venue and other details will be notified soon.
- Next IQPM monthly meetup, a forum in place for members, professionals, students, and other enthusiasts for networking, share knowledge and experience with each other, will be held in the month of May 2024.

The Organisation of Professional Associations of Sri Lanka (OPA)

SEMINAR ON  
**OPTIMIZING TRAFFIC FLOW: STRATEGIES FOR IMPROVING ROAD PRODUCTIVITY**

Organised by  
Seminars Workshops & Programmes Committee of the Organisation of Professional Associations of Sri Lanka (OPA)

**10<sup>th</sup> MAY 2024**  
AT 6.00 P.M. AT THE AUDITORIUM OF THE OPA

Click Here to Register!

SCAN ME!

**SPEAKERS**

**Eng. Dr. Tissa U Liyanage**  
Immediate Past President SLSL  
CEO of Master Builders Engineering Consultants (Pvt) Ltd.

**Dr. Kumara Hirimburegama**  
Former Vice Chancellor, University of Colombo,  
Founder Dean, Faculty of Management,  
Kotawala Defense University  
President, International Innovations Center (IC)

**Mr. Madura Wijesinghe**  
Technical Engineer,  
TATA Commercial Vehicles - DIMO

**MODERATOR**

**Mr. Sarath Gamage**  
President - OPA

**Mr. Linton Fernando**  
President - IQPM

**Ch.Qs. Nishantha Wickremasinghe**  
Chairman, Seminars, Workshops & Programmes Committee, Vice President - OPA

The Organisation of Professional Associations of Sri Lanka (OPA)  
275/75, Prof. Stanley Wijesundera Mawatha, Colombo 07.  
Contact : 0112 580 268 , Email : info@opasrilanka.lk  
Website : www.opasrilanka.lk

**TISARA DE SILVA**  
GENERAL SECRETARY - OPA

**Institute of Quality and Productivity Management (IQPM)**

**Children's Poster Competition**

**ART**

**Focus**  
Ideal platform to give many young personalities to showcase their talents.

**Theme**  
Quality and productivity starts with you

**Age categories**  
4-8 years / 9 to 12 years / 13 to 18 years

**Submission**  
Applicants who are schooling and in the above age categories can submit their work to IQPM.

**Size of the drawing**  
Size of the drawing A3

**Medium**  
Participants may choose any medium of their preference to express themselves but avoid sticky handwriting types of papers.

**Personal details**  
Applicants to complete details such as Full Name, Date of Birth, Address, Email address, Telephone Number, Name of parent or Guardian and complete signed drawing sheet for child, name of school and address to be pasted in the reverse side of the drawing.

**Sponsorships considered under following categories**  
Main Sponsor, Co-sponsor, Prize Media Partner, Digital Media Partner, Electronic Media Partner

**Prizes**  
In addition to the prizes, a certificate will be awarded to all participants of the competition.

**Advertising / Promotional / Opportunities**  
With honour, consent to display at conferences, awarding ceremonies, branded official gift packs, press invitation.

**General Conditions**

- Participants may choose any medium of their preference to express themselves but avoid sticky handwriting types of papers, participants of the competition.
- To enter the competition applicants must handover their drawing to the IQPM office on or before 31-07-2024
- Submissions are limited to one drawing per contestant and should be an original piece of work and never before submitted to any other competition.



## Productivity as a measure of efficiency

by E C M Fernando

Productivity is defined as the efficiency of working in any industrial or service organization. Increasing National Productivity can raise living standards because the more people's real income improves, the more people's ability to purchase goods, obtain services, enhance housing, access advanced medical and educational facilities and contribute to uplift social and environmental aspects. Productivity helps any business to be more profitable.

Technically, Productivity (P) refers to the physical relation between the quantities produced (Output=O) and the quantity of resources used in the course of production (Input=I)

$$P = O (\text{Products}) / I (\text{Land, Labour, Capital, Management etc.})$$

A county's ability to improve its standard of living over time depends totally on its ability to raise its output per employee/ per citizen.

Various benefits derived from higher Productivity-

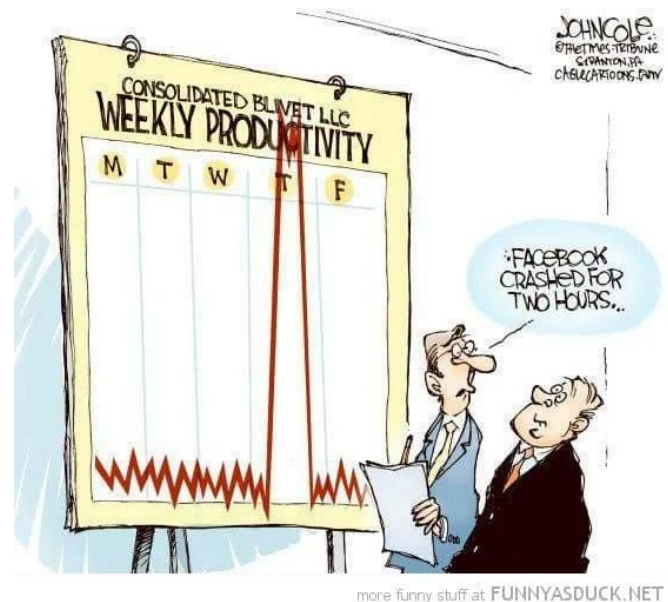
1. It helps to reduce cost per unit produced and thereby improve profits
2. Benefits can be transferred to the consumer in the form of low priced yet high quality products
3. Gains can be also shared with employees by paying them higher wages or giving them other incentives
4. Productive entrepreneurs have better chances to exploit export market opportunities
5. Can create more employment opportunities

Factors influencing Productivity, specifically relating to industries

1. Human Factors – Ability to work and willingness to work
2. Technological Factors –
  - a. Size and capacity of the industry
  - b. Product design and standardization
  - c. Timely supply of materials and energy
  - d. Repairs and maintenance
  - e. Production planning and control
  - f. Layout and location
  - g. Material handling system
  - h. Inspection and quality check
  - i. Inventory control
3. Managerial Factors – Competencies and attitudes of management
4. Natural Factors – Physical, geographical and climatic factors of the plant/ factory
5. Sociological Factors – Social customs and traditions affecting labour
6. Socio- economic Factors – Law and order, stability of industry and the Government, Taxation policies, modernization and expansion of plant, elimination of inefficient units, size of market, banking and credit facilities, transportation and commutation systems.

Reasons for low industrial Productivity

1. Ineffective use of resources
2. Non-productive activities
3. Low labour productivity
4. Worker disputes
5. Poor inflow of information
6. Excessive rework
7. Wastage of material
8. Breakdown of machinery and power interruptions
9. Excessive inventories



Source: <http://funnyasduck.net/>

The measurement of Productivity

The measurement of Productivity is one of the important factors of Industrial Engineering Departments in a Company. This is the quantification of both the output and input resources of a system. The objective is to come up with a quantified monitoring mechanism related to saving costs/ expenses whilst not compromising quality and monitoring the efficiency of the system.

Types of models used for the measurement of Productivity

1. Kendrick Creamer Model
2. Craig-Harris Model
3. American Productivity Centre Model
4. Sumanth's Total Productivity Model

(Reference – ISSN No.s 2249-7455 Pages 286-211) Industrial Productivity and Measurement

## Editor's Note

Welcome to the third issue of Institute of Quality and Productivity Management's, monthly e-publication.

The Institute of Quality & Productivity Management (IQPM), stands to be the apex professional body in the country in the fields of Quality and Productivity, with the objective of motivating and assisting the industry as well as academia to enhance Productivity and ensure Quality of products and services through effective management of organisations.

This newsletter primarily exists for the purpose of creating a platform for sharing knowledge and news related to Quality & Productivity community across the world.

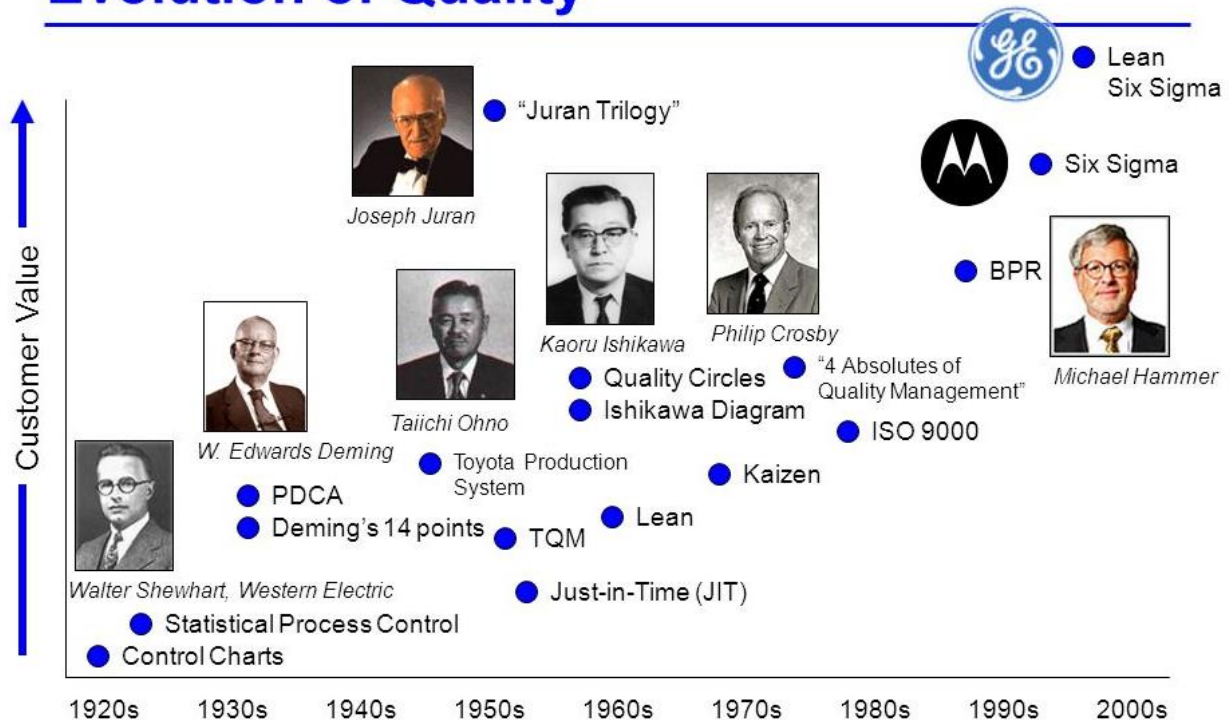
Therefore, we invite all interested parties to partner with us, by contributing to this newsletter, and supporting in numerous ways to uplift Quality & Productivity in the society.

Articles can be sent via email to [samadiw@live.com](mailto:samadiw@live.com) by 10th day of every month, for inclusion in upcoming issues of the newsletter, and IQPM can be reached via visiting its offices located at 1<sup>st</sup> Floor, 275/75, Organisation of Professional Associations, Prof. Stanley Wijesundara Mawatha, Colombo 07, Sri Lanka.

Dr Samadi Withanage  
Editor - IQPM Newsletter



## Evolution of Quality



Source: Sherman Consulting Inc.