



#1 Introduction

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Why do we need safety ?

BIG COMPANY / INDUSTRY

PUBLIC FACILITY, CAMPUS, OFFICE

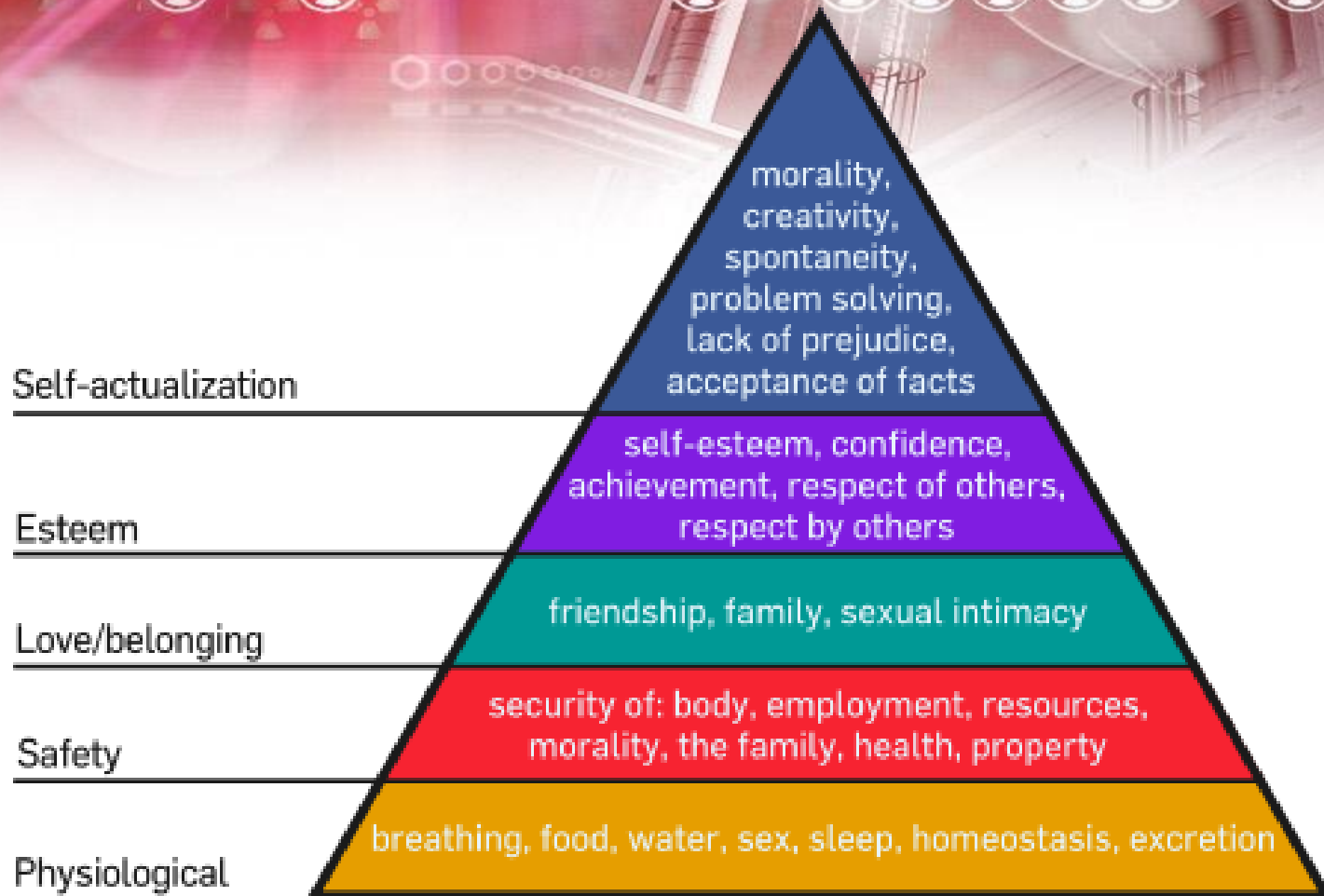
IN THE ROAD / BY VEHICLE

AT HOUSE

**Because we
only have
one body and
one soul !**

It needs your sensitivity !!!

Maslow's Hierarchy of Needs





What is Work System ?

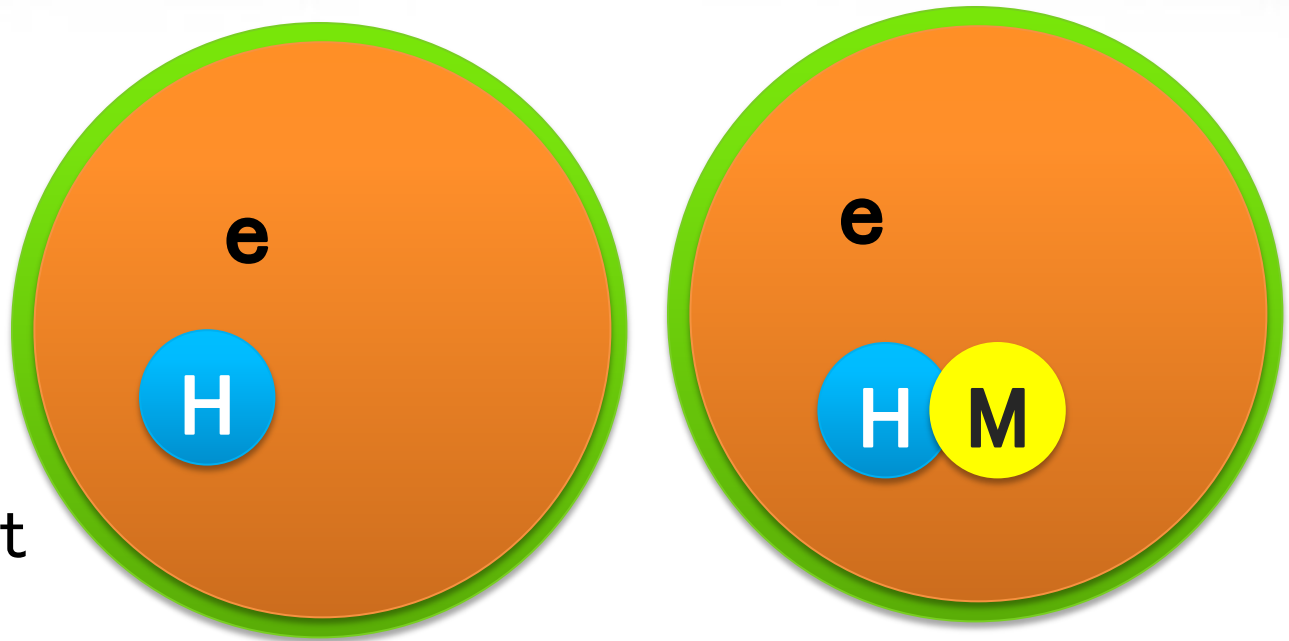
What are the entities of work system ?

Simple Work System

H = Human

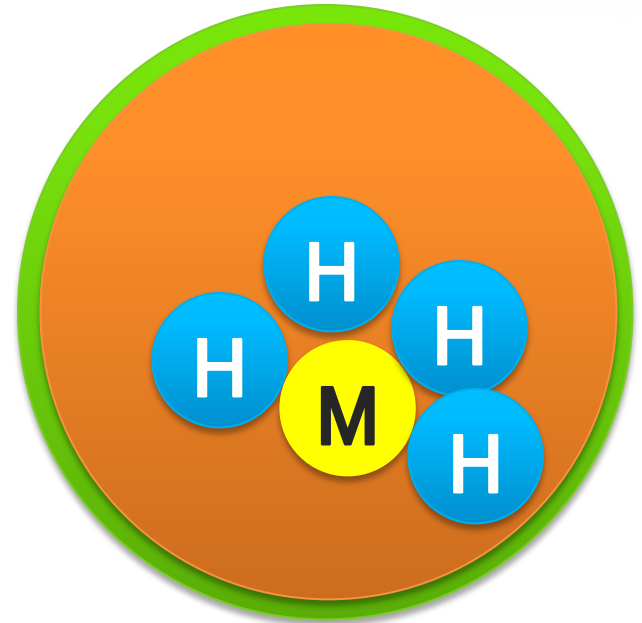
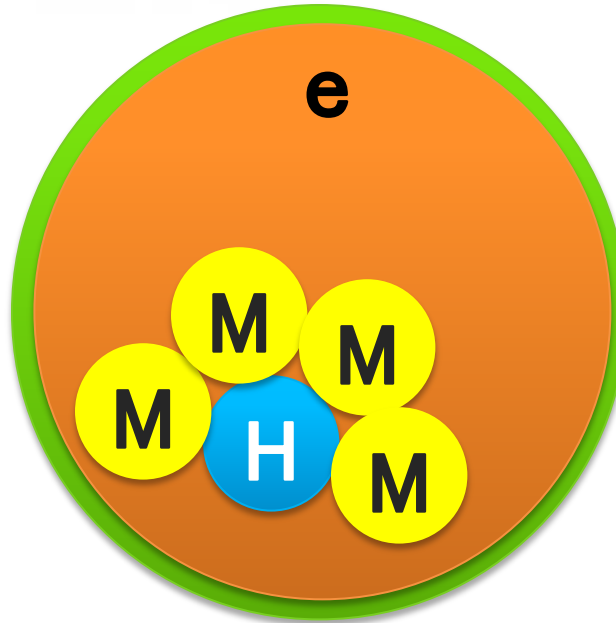
M = Machine

e = Environment

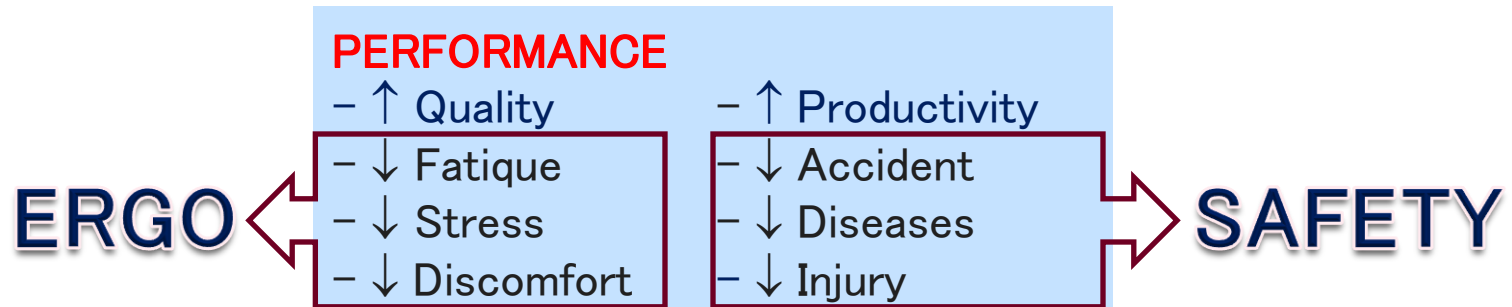
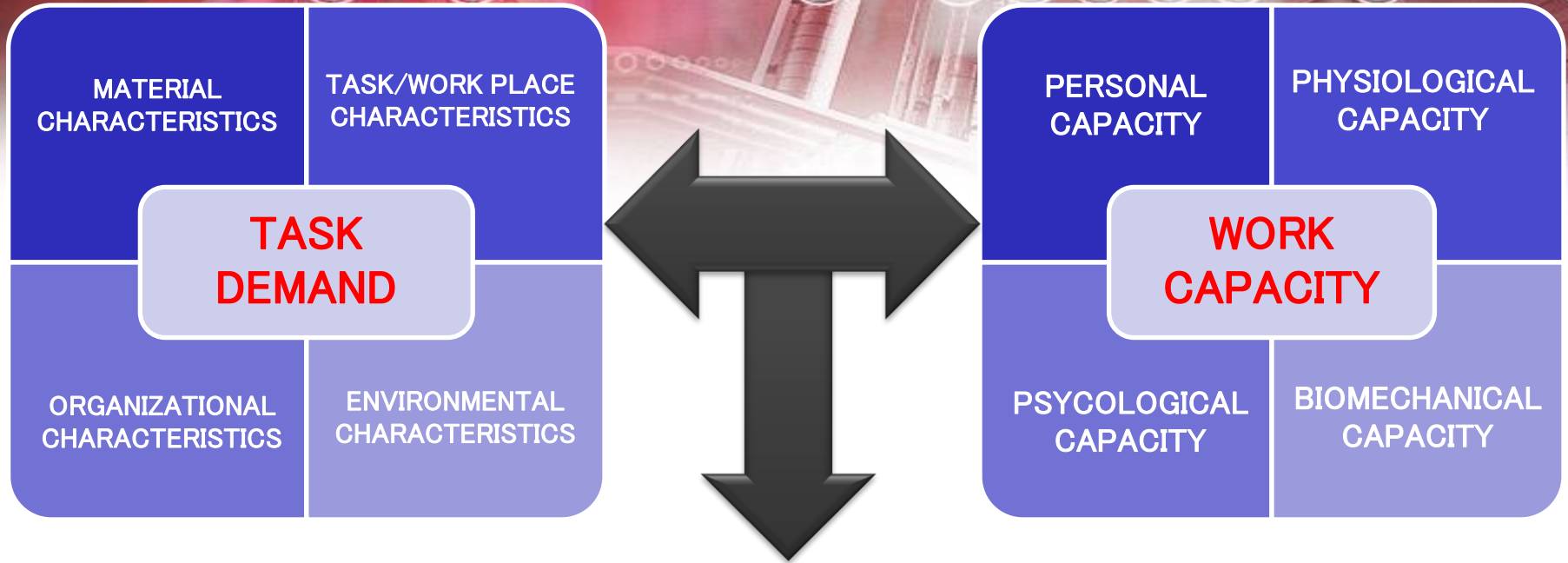


Complex Work System

H = Human
M = Machine
e = Environment



Work Balance



Practice of Safety



Defining Safety

Safe : involving no danger, risk, or error

Safety : the control of hazards to manage acceptable level of risk (National Safety Council)

Safety : the degree of freedom from risks and hazards in any environment.

Safety : state for which the risks are judged to be acceptable.

“No matter how effective the preventive measures taken, there will always be a remaining risk if an operation continues”



Safety Philosophy (by IASP)

1. Safety is an ethical responsibility
2. Safety is a culture not a program
3. Management is responsible
4. Employees must be trained to work safely
5. Safety is condition of employment
6. All Injuries are preventable
7. Safety programs must be site specific
8. Safety is good business



Safety vs Health

Safety deals with acute effects of hazards, whereas
health deals with chronic effects of hazards
(Ashfal, 2004).

An acute effects is a
sudden reaction to a
severe condition.

A chronic effect is a **long-term
deterioration** due to prolonged
exposure to a **milder** adverse
condition.

Is it health or safety hazards ?



Workplace Noise))))))

...one of the most common health hazards in the workplace





Keselamatan dan Kesehatan Kerja

Keselamatan

pencegahan terjadinya kecelakaan untuk menghindari cedera bagi orang (manusia) atau kerusakan terhadap fasilitas kerja (mesin, peralatan, dll), atau tempat / lingkungan kerja.

Kesehatan

pencegahan penyakit, sakit atau ketidaknyamanan yang parah sehubungan dengan pekerjaan yang dapat mengganggu kondisi fisik dan mental pekerja.

Milestones in Safety Movement

1800' s :
safety
program
in US

1913 :
National
Council of
Industrial
Safety

1970 :
Occupational
Safety and
Health Act

1996 : Total
Safety
Management

2000' s : ISO
14000,
safety for
older



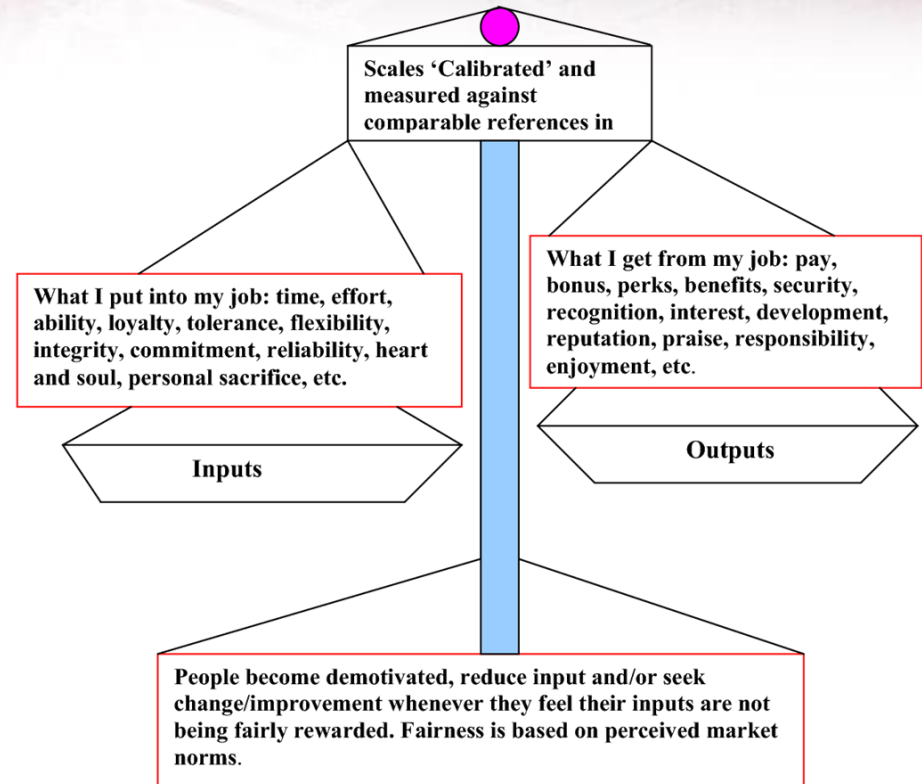
Aspek Hukum

- UU No.1 Th.1970 ttg Keselamatan Kerja
- UU No.13 Th.2008 ttg Ketenagakerjaan
- UU No.8 Th.1998 ttg Perlindungan Konsumen
- UU No.22 ttg Migas
- UU No.19 Th.1999 ttg Jasa Konstruksi
- UU No.28 Th.2002 ttg Bangunan Gedung
- UU No.30 Th.2009 ttg Ketenagalistrikan

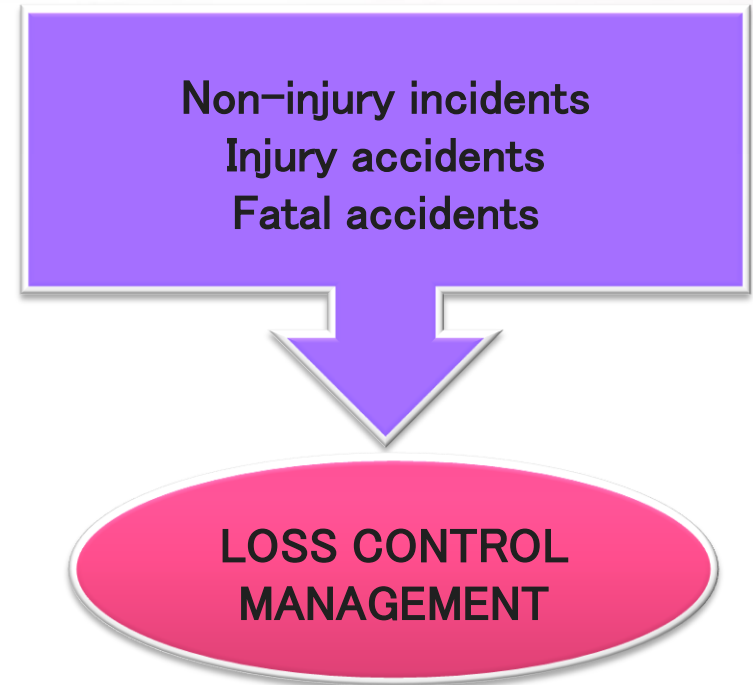
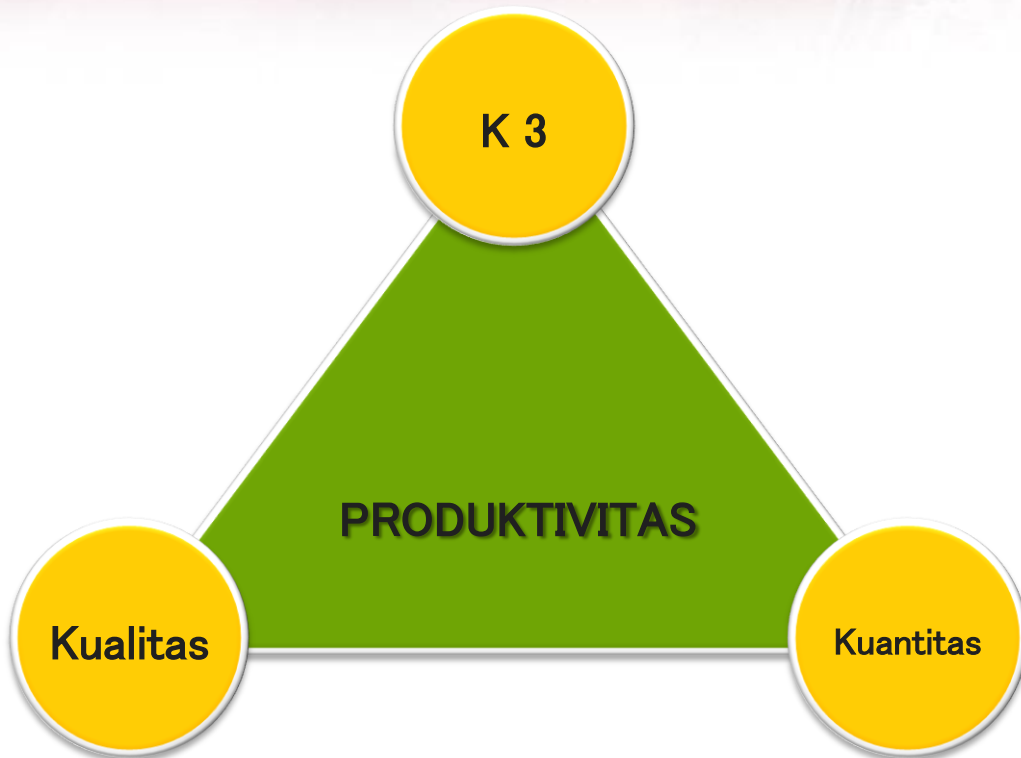
Aspek Perlindungan Tenaga Kerja




International Labor Organization



Aspek Ekonomi



The background of the slide features a red-tinted image of an industrial facility, possibly a refinery or chemical plant, with several tall smokestacks emitting plumes of smoke. Overlaid on this image are several white radiation warning symbols (a circle with a stylized 'X' inside).

TAKE : One minute to write safety rule
One hour to hold a safety meeting
One week to plan a safety program
One month to put it in operating
One year to win a safety award
One life time to make a safe worker

But it takes only

One second to destroy it all with an accident



Thank you...

Have an enjoy study and see you next week...