Module 2 Developing Metrics and Indicators

End of Module Objective

- Define metrics and indicators
- Identify requirements for developing metrics and indicators

Definition of Metrics

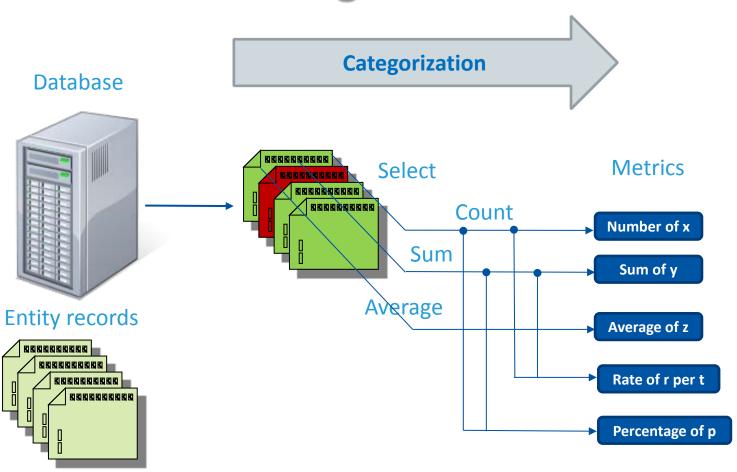
- Metrics are parameters used for measuring, comparing or tracking performance or output.
- They are values of variables.
 - Percentage of
 - Count / number of
 - Sum of
 - Average of
 - Maximum of
 - Rank of

Definition of Metrics

Examples:

- Metrics for traffic volumes include total departures, domestic and international flights.
- Metrics for accidents include total accidents, fatal accidents and fatalities.

Building Metrics



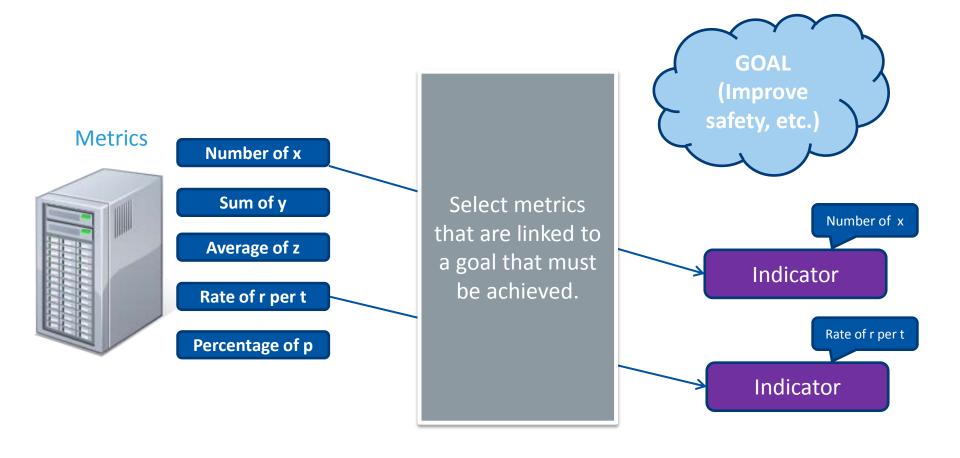
Definition of Indicator

- An indicator is a measure that indicates/provides specific information on the status, level or condition of something.
- An indicator is a variable that expresses
 achievement, the attainment of a goal or the
 results of a specific change.

Definition of Indicator

- An indicator should be put in the context of the scope of the goal being assessed and measured.
- Example: A higher level of effective implementation (EI) of ICAO standards and recommended practices (SARPs) in a State indicates that the State has higher safety oversight capability.

Indicators



Indicators

- Indicators can also show what happened or how things changed.
- Example: An improvement in the EI rate of a State indicates that the State is putting more effort in implementing ICAO SARPs.

Indicators

- Some indicators can help identify specific outcomes or actions.
- Example: Problems with "on-time departure" at an airport may indicate the need to improve and increase the capacity of that airport.

What Makes a Good Indicator?

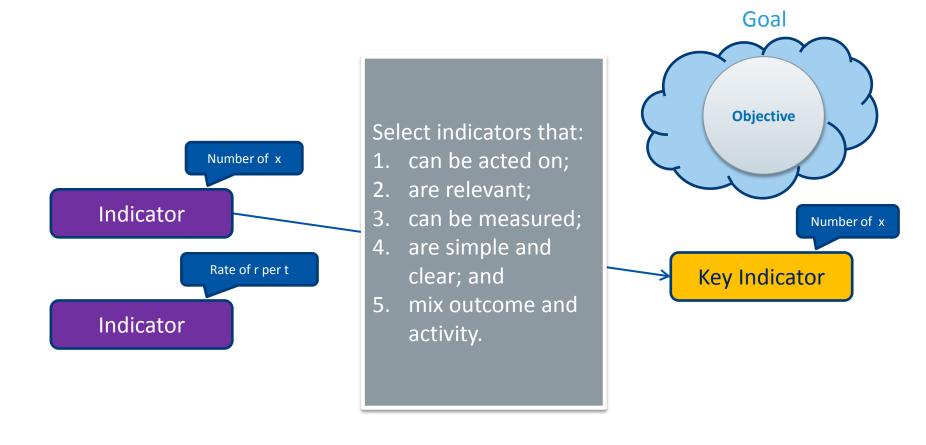
The following criteria are useful for setting good indicators:

- 1) Action-focused does knowing about the issue help the organisation or its stakeholders to do things better or more effectively?
- 2) Important is it relevant? Is it a priority?

What Makes a Good Indicator?

- 3) Measurable can the indicator give you information that tells you something about what it relates to or what causes it to change?
- 4) Simple is it clear and direct enough for all stakeholders to understand?

Key Indicators



Example: United Nations Sustainable Development Goals (UNSDG)

Goal 1. End poverty in all its forms everywhere

Objective or target



1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day

Proportion of x

1.1.1 Proportion of population below the international poverty line, by sex, age, employment status and geographical location (urban/rural)

Key Indicator

Example: UNSDG

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

- 2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round
- 2.2 By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under 5 years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women and older persons

2.3 By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment

- 2.1.1 Prevalence of undernourishment
- 2.1.2 Prevalence of moderate or severe food insecurity in the population, based on the Food Insecurity Experience Scale (FIES)
- 2.2.1 Prevalence of stunting (height for age <-2 standard deviation from the median of the World Health Organization (WHO) Child Growth Standards) among children under 5 years of age
- 2.2.2 Prevalence of malnutrition (weight for height >+2 or <-2 standard deviation from the median of the WHO Child Growth Standards) among children under 5 years of age, by type (wasting and overweight)
- 2.3.1 Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size
- 2.3.2 Average income of small-scale food producers, by sex and indigenous status

Key Performance Indicator (KPI)

- Key performance indicator (KPI) is a business metric used to evaluate factors that are crucial to the success of an organization.
- KPIs are different for various organizations.



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THANK YOU