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Types of PM

- There are three types of performance measures:
 - Key result indicators (KRIs) - tell you how you have done in a perspective.
 - 2. Performance indicators (PIs) tell you what to do.
 - 3. Key Performance Indicators (KPIs) tell you what to do to increase performance dramatically.

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What are KPIs?



- Simply defined, KPIs are measures that a sector or organization uses to define success and track progress in meeting its strategic goals.
- Key Performance Indicators (KPIs) are quantitative and qualitative measures used to review an organization's progress against its goals.
- KPIs provide a measurement tool.

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What are KPIs?



- KPIs represent a set of measures focusing on those aspects of organizational performance that are the most critical for the current and future success of the organization.
- KPIs measure performance by showing trends to demonstrate that improvements are being made over time.
- KPIs also measure performance by comparing results against standards or other similar organizations.

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KPI Characteristics

KPI characteristics identified in the literature are:

- Relevant to and consistent with the specific organization's vision, strategy and objectives.
- Focused on organization wide strategic value rather than non-critical local business outcomes.
- **3. Representative** appropriate to the organization together with its operational performance.

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KPI Characteristics

- **4. Realistic** fits into the organization 's constraints and cost effective;
- Specific clear and focused to avoid misinterpretation or ambiguity;
- 6. Attainable requires targets to be set that are observable, achievable, reasonable and credible under expected conditions as well as independently validated;
- Measurable can be quantified/measured and may be either quantitative or qualitative;

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KPI Characteristics

- Timely achievable within the given timeframe;
- Understood individuals and groups know how their behaviors and activities contribute to overall agency goals;
- Agreed all contributors agree and share responsibility within the agency;
- Reported regular reports are made available to all stakeholders and contributors;

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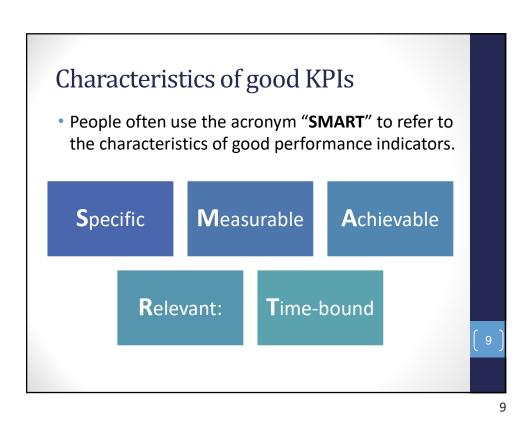
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KPI Characteristics

- Governed accountability and responsibility is defined and understood;
- Resourced the program is cost effective and adequately resourced throughout its lifetime.
- Assessed regular assessment to ensure that they remain relevant.

They should be SMART

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Process KPI

Measure the efficiency or productivity of a business process. Ex. Time to complete a customer order

Input KPI

Measure assets and resources Ex. Funding for training!

Measure the financial & nonfinancial results of business activities. Ex. Net profit, # of new clients.

Leading KPI

Measure activities that have a significant impact on future performance. Ex. % of high Performers

Measure success or failure after an event. Ex. most financial KPIs

Measures benefits of performance as an outcome of a business activity. Ex. employee satisfaction rate

Qualitative KPI

Measures results in numbers, uses average's, ratio's, percentages. Ex. \$revenue per employee.

Using KPIs in the Health Sector

- Well-designed KPIs should help health sector decision makers to do a number of things, including:
 - Establish baseline information (i.e., the current state of performance).
 - Set performance standards and targets to motivate continuous improvement.
 - Measure and report improvements over time



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Using KPIs in the Health Sector

- Compare performance across geographic locations.
- Benchmark performance against regional and international peers or norms.
- Allow stakeholders to independently judge health sector performance.
- KPIs are specific and measurable elements of health and social care that can be used to assess quality of care.

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Using KPIs in the Health Sector

- KPIs are measures of performance, based on standards determined through evidence-based, academic literature or through the consensus of experts when evidence is unavailable.
- According to the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) in the United States, KPIs are not intended to be direct measures of quality but instead act as alerts to warn us of opportunities for improvement in the process and outcome of service-user care.

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Key performance indicators for healthcare quality assessment

- The ability to monitor healthcare quality is essential in order to effectively measure performance which can be done with the assistance of KPIs.
- KPIs facilitate the capture of healthcare trends as a quantitative measure of quality.
- They make an inference about the quality of care provided and indicate areas that require further investigation.

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Types of Indicators

- KPIs can be characterized according to whether they are generic or specific and by both the type and function of care for which the measurement is intended.
- KPIs can be targeted to measure performance that is relevant to all service-users or they can measure aspects of a service that are relevant to a specific service user population:

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Types of Indicators

- Generic KPIs measure aspects of performance relevant to the majority of service users and do not target a specific service user population. For example, the number of service users awaiting admission from the emergency department for more than six hours.
- Specific KPIs are related to a specific service user population and measure particular aspects of care related to those service users. For example, the percentage of children that have been referred for speech and language therapy that wait more than three months from referral to assessment.

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Types of Indicators

- KPIs can be classified according to the type of care for which the measurement process was developed. For example: preventive, acute or chronic care:
 - Preventive care refers to the maintenance of health and prevention of illness such as in immunization programs.
 - Acute care usually refers to care given for a new onset illness or for a sudden deterioration in chronic conditions and may involve short term medical care or surgery.

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Types of Indicators

- Chronic care usually refers to the long term care of chronic diseases or conditions such as maintaining acceptable blood glucose levels and prevention of complications in diabetes through medication and lifestyle
- Also, KPIs can be classified according to the function of care, which can be: screening, diagnosis, treatment and follow-up.

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Development of KPIs

- A number of factors should to be considered when developing and evaluating KPIs:
 - 1. Define the audience and use for measurement.
 - 2. Consult with stakeholders and advisory group.
 - 3. Choose the area to measure.
 - 4. Achieve a balance in measurement.
 - 5. Determine selection criteria.
 - 6. Define the indicator
 - · Identify the target population
 - Define the target to be achieved
 - Threshold for action
 - Action

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Define the audience and use for measurement

- It is important to define the intended audience in order to identify and develop a suitable KPI.
- The audience refers to the person or group for whom the KPI will aid decision-making and can be the service-user, the clinician, the public, the facility or the healthcare system.



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Define the audience and use for measurement

- It is essential to note that whether the goal of the measurement is for benchmarking, either internally for quality improvement purposes or externally against standards or other organizations, will influence the KPI selection process.
- Before embarking on the performance measurement process, it is necessary to identify the domains for which the measurement is intended, which may in turn be dependent on the audience

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Consult with stakeholders and advisory group

- There should be consultation with all stakeholders throughout the data development process.
- Consultation facilitates the identification of the needs of stakeholders while simultaneously contributes to the acceptance of the selected KPIs.

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Consult with stakeholders and advisory group

- Consultation also facilitates agreement about data elements and assists in familiarization with the data and standards.
- Consultation with decision-makers can assist in identifying their information needs and subsequent use for that information.
- Consultation with service providers can also assist in identifying their information needs, and elicit what data they can provide.

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Choose the Area to Measure

- Choosing the area to be measured should be based on the importance of the problem, service-user safety, potential for improvement and controllability by health or social care system/professionals
- A healthcare problem is important if it is associated with significant morbidity and mortality, has high service-user volumes and is costly to treat.



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Achieve a Balance in Measurement



- The diversity of stakeholders in health and social care requires that there is a need for measures across multiple domains to satisfy their different information needs.
- Performance frameworks identify domains of healthcare performance that can be used as a basis for the development of performance indicator sets, such as the HCQI project. HCQI: Health Care Quality Indicators

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Quality Indicators project, initiated in 2002

Achieve a balance in measurement

- A number of approaches have been developed to assist in identifying a balanced set of KPIs including:
 - 1. The "balanced scorecard" which was originally developed by Kaplan and Norton.
 - 2. The "Three Es" framework uses the three domains of economy, efficiency and effectiveness.

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The "Three Es" framework

- Economy which measures the acquisition of human and material resources of the appropriate quality and quantity at the lowest cost
- **Efficiency** which measures the capacity to provide effective healthcare using minimum resources.
- **Effectiveness** which measures the degree to which the organization attains established goals.

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The "Balanced Scorecard" method

- In 1992, Robert Kaplan and David Norton introduced the Balanced Scorecard concept as a way of motivating and measuring an organization's performance.
- The method looks at four interconnected perspectives (dimensions). These are:
 - 1. Financial How do we look to our stakeholders?
 - 2. Customer How well do we satisfy our internal and external customer's needs?
 - **3. Internal Business Process** How well do we perform at key internal business (sub)processes?
 - **4. Learning and Growth** Are we able to sustain innovation, change, and continuous improvement?

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Balanced Scorecard Perspectives Financial Perspective Customer Perspective Vision and Strategy Learning and Growth Perspective (30)

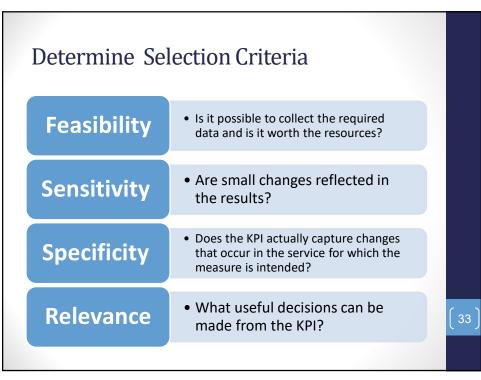
Achieve a balance in measurement

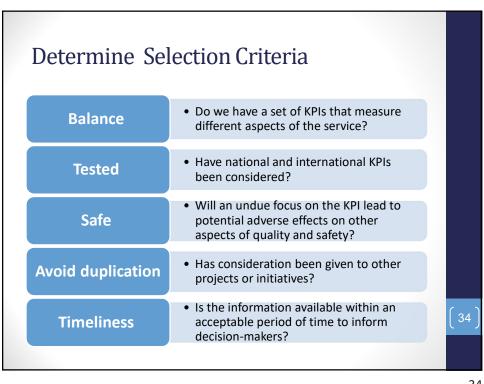
- In the **United Kingdom**, the performance assessment framework measures performance in six main areas:
 - 1. health improvement
 - 2. fair access
 - 3. effective delivery of appropriate care
 - 4. efficiency
 - 5. service-user/career experience
 - 6. health outcomes.
- the process of achieving a balanced set of KPIs can be assisted by incorporating the structure, process and outcome classification into the methodology for assessing the healthcare system.

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Determine Selection Criteria Validity • Does the KPI measure what it is supposed to measure? Reliability • Does the KPI provide a consistent measure? Explicit evidence base • Is the KPI supported by scientific evidence or the consensus of experts? Acceptability • Are the KPIs acceptable?





Define the Indicator

- A clear definition of the indicator ensures that it is appropriately interpreted by those with responsibility for collecting the data.
- Including the rationale for the measurement will provide context and highlight the importance of the subject being measured.
 - Identify the target population
 - Define the target to be achieved
 - Threshold for action
 - Action



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Identify the target population

- The target population is called the denominator and includes all service users or events that qualify for inclusion in the measurement process.
- The subset of the target population that meets the criteria as defined in the indicator is called the numerator.
- More specific information regarding the target population can be given under the headings of inclusion criteria and exclusion criteria.



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Setting KPI Targets

- A performance target combines the selected indicator with a target level.
- Specifying the quantitative degree or amount of performance the program is expected to achieve by a specific date, given the planned structure and funding level.

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Targets Setting Summary Targets are those values (determined in each KPI) Introduction that the management wants to achieve within a certain time. To make the KPIs and the measurement more Purpose quantifiable and measureable Suitable Benchmarking Feasibility studies Techniques Forecasting Market Research Once the targets setting is • KPIs targets Expected done, it is expected to Targets values & units Outcomes have:

Threshold for action

- Determining a threshold for action assists in deciding when it is appropriate or necessary to institute changes in response to the measurement.
- The threshold should be negotiated with the service provider and will depend on the resources and level of service available.

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Action

- Unless actions are taken based on results, the measurement process will become an end in itself and will not contribute to quality improvement.
- There should be an agreement reached with stakeholders for actions in response to performance indicator results.
- There may be a series of incremental actions depending on the variation of the result from the target.

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Develop the Minimum Data Set (MDS)

- Once KPIs have been developed, it is necessary to determine what data needs to be collected for each KPI being used to measure performance.
- The minimum data set should be developed based solely on the essential data required to operationalize the KPI.
- The MDS should be incorporated into a data dictionary to ensure the data is clearly defined and values are agreed.
- A data dictionary contains a list of data element definitions and attributes which supports the consistent collection of data for different purposes and by different people/organizations.

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Develop the Minimum Data Set (MDS)

- 1. Define the level of health information
- 2. Define the frequency of collection
- 3. Document the data collection process
- 4. Identify data sources
- 5. Identify data for development
- Assess compliance with Information Governance
- 7. Plan data quality checks

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Data reporting to stakeholders

- There should be a plan to outline how and when the results of the measurement process are released to stakeholders and the public.
- Dashboards are one example of a method for presenting information to inform decisionmaking.
- Performance results are presented graphically through a series of charts, gauges or tables and facilitate comparison of actual performance against desired results.

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Data reporting to stakeholders

- Determine frequency of processing and analysis.
- Define method of analysis
 - Define type of measure
- Determine level of aggregation.
- Develop risk-adjustment strategy.

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