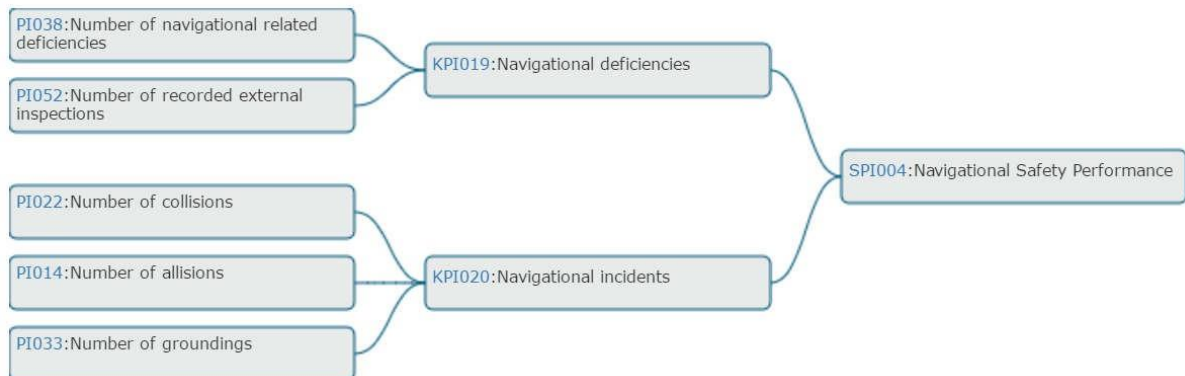


## Start Discovering the KPI Standard

## What's inside?

The Shipping KPI System is a global tool for defining, measuring and reporting information on a ship's operational performance in order to:

- **Boost performance** improvements with companies engaged in ship operation activities
- Provide an efficient **communication platform** on ship operation performance to internal and **external stakeholders**

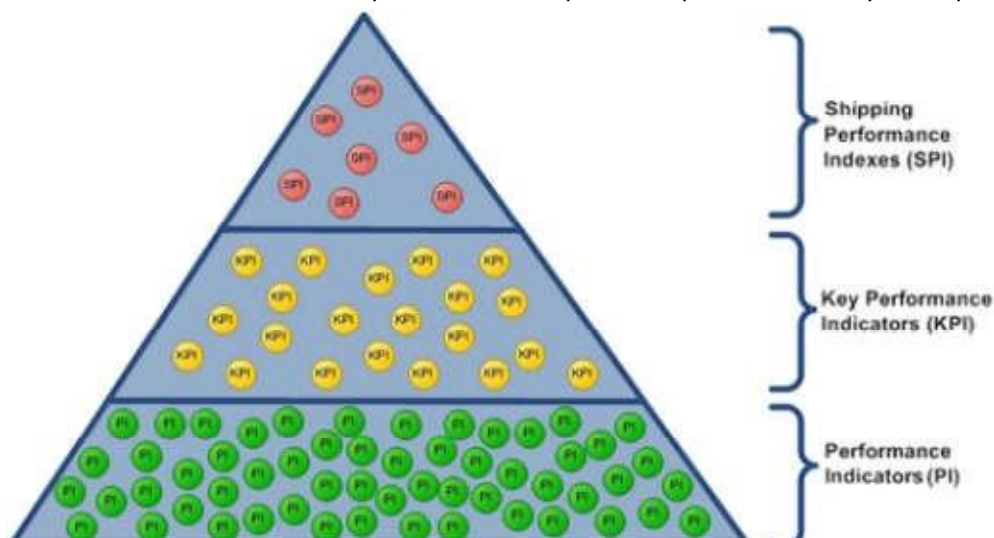


## Features

## Discover

By reviewing the KPI Standard you will gain an understanding of how the data combined and ship ratings are calculated. You will also get an understanding of how to get most out of the KPI system for your company.

You can learn more about the different indicators, how they are measured and how you can use them to make informed decisions about your fleet and improve the performance of your ships.



## Concept

The Shipping KPI Standard is built up hierarchical with 7 Shipping Performance Indexes (SPIs) 34 Key Performance Indicators (KPIs) and 66 Performance Indicators (PIs). There is mathematical relation between SPIs which are calculated from KPIs, and KPIs which are calculated from PIs (lowest level).

## KPI Profiles

A KPI profile is a subset record of KPIs that is used to store the interested KPIs of the ship operator. Depending on the structure and the company needs, account managers are entitled to select and assign KPI Profiles to ships from a predefined list of built-in KPI profiles. Also, the K profile refers to the explicit visual representation of ship performance data. KPI Profile concept provides a set of benefits such as:

- Simplifies the way users perceive the KPI Standard
- Limits the KPI Standard as per the company needs
- Reduces the data entry volume
- Customized visual representation of the ship's performance

Overview

SPI

KPI

Ship Attributes (21/22)

Personnel (22/22)

Technical (23/23)

QA (16/16)

Accounts (0/3)

Custom (0/5)

Primary

Key	Name	Value	Unit	Rating
KPI003	Cadets per ship	1	Cadets/Ship	33
KPI008	Crew disciplinary frequency	140160	Breaches/Year	0
KPI009	Crew planning	2	Breaches	87
KPI016	HR deficiencies	1	Deficiencies/Inspection	80
KPI017	Lost Time Injury Frequency	4000000	Incidents/Million Hours	0
KPI018	Lost Time Sickness Frequency	2000000	Sick case/Million Hours	0
KPI022	Officer retention rate	109.09	%	100
KPI023	Officers experience rate	0.02	Experience points/officer	0
KPI031	Training days per officer	1	Days/Officer	100

Secondary

Key	Name	Value	Unit	Rating
KPI001	Ballast water management violations	1	Violations	0

A primary KPI is selected by the account manager to be in the KPI Profile. Primary PIs are the PIs, which should be entered in order to calculate the primary KPIs of your KPI profile where primary SPIs are the SPIs to which a primary KPI contributes to. Similarly, a secondary KPI excluded from the KPI profile and secondary PIs should be entered to calculate the secondary KPIs.

## Performance Indicators (PIs)

PIs are the foundation of the KPI project. They are used to calculate all the KPIs and SPIs. By having a solid understanding of the different PIs, how they are measured and their units measurement, you can ensure that you enter the correct data for your ships, produce accurate reports and correctly benchmark your fleets against the industry.

### PI057: Number of vessels under technical management (DOC)

#### Description

The number of vessels under technical management (DOC).  
PI057 is measured in 'Vessels'.

#### Used by

PI057 is used by:  
**KPI003** Cadets per vessel

## Key Performance Indicators

The Key Performance Indicators (KPIs) are calculated by combining 1 or more PIs. The K ratings will form basis for the SPI score.

### KPI Example

#### KPI012: Failure of critical equipment and systems

##### Description

This KPI expresses the company's ability to maintain critical equipment and systems. The KPI counts the number of failures of equipment and systems in the critical list defined in the company's Safety and Environmental Management System.

KPI012 is measured in 'Failures'.

##### Formula to calculate value

$$KPI_{Value} = PI029$$

##### Dependencies

KPI012 is depending on:  
**PI029** Number of failures of critical equipment and systems

##### Used by

KPI012 is used by:  
**SPI007** Technical Performance

## Shipping Performance Indicators

The Shipping Performance Indicators (SPIs) are calculated by combining 1 or more KPIs. The KPI Standard provides a list with all SPIs along with their formulas, in order for you to have clear understanding of how each of these indicators is calculated and what its rating mean.

### SPI Example

SPI007: Technical Performance
<b>Description</b> Technical Performance is an expression based on maintenance and reliability. SPI007 is measured in '%'.  <b>Formula to calculate value</b> $SPI007 = \frac{KPI006 + KPI012}{2}$  <b>Dependencies</b> SPI007 is depending on: <pre>graph TD; PI023[PI023: Number of conditions of class] --&gt; KPI006[KPI006: Condition of class]; PI029[PI029: Number of failures of critical equipment and systems] --&gt; KPI012[KPI012: Failure of critical equipment and systems]; KPI006 --&gt; SPI007[SPI007: Technical Performance]; KPI012 --&gt; SPI007</pre>

## Meta data - Ship Attributes

Meta data is used for grouping and filtering during statistical analysis. It usually represents an attribute of the ship, like its length or the nationality of seafarers used during the reporting period. A typical use of meta data allows a ship manager to benchmark his ships not against all other ships in the system, but for example only against ships of the same ship type.

## KPI Ratings

It is an expression of the KPI Value on scale between 0 and 100 where a high rating (100) is result of high/excellent performance.



## Search the KPI Standard

Use our advanced search functionality to find PIs, KPIs and SPIs throughout the Shipping K Standard. Search terms include searching by PI, KPI or SPI number (e.g PI001), name or a word that matches their title.

**Search**

You can directly search for a specific KPI:

PI057 : Number of vessels under technical management (DOC)

SPI007 : Technical Performance

## Downloadable PDFs

Download the full [KPI Standard](#)

([https://www.shipping-kpi.org/public/downloads/documentation/Shipping\\_KPI\\_Standard.pdf](https://www.shipping-kpi.org/public/downloads/documentation/Shipping_KPI_Standard.pdf))

to further understand how SPIs, KPIs and PIs work the Shipping KPI

[Cheatsheet](#) (<https://www.shipping-kpi.org/public/downloads/documentation/cheatsheet.pdf>)

or [Quicksheet](#)

([https://www.shipping-kpi.org/public/downloads/documentation/Shipping\\_KPI\\_Quicksheet.pdf](https://www.shipping-kpi.org/public/downloads/documentation/Shipping_KPI_Quicksheet.pdf))

which you can have as reference while you use the system.