S4M SUSTAINABLE MATERIAL MANAGEMENT MATURITY MODEL

Boosted by BUSINESS FINLAND

TURKU AMK TURKU UNIVERSITY OF APPLIED SCIENCES

MATURITY MODEL

DEFINITION:

A maturity model is a tool that enables an organization to assess the level of advancement and capability of its processes, practices or systems. When the organization meets the criteria of a certain level, it can progress to a higher maturity stage, thereby improving its efficiency and performance.

Example:

KPA: Corporate Responsibility reporting

KPI: Responsibility objectives

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
Beginner	**Basic skilled**	**Adapter**	**Solver**	**Forerunner**
No clear objectives	Some objectives	Objectives for identified performance indicators	Objectives for key performance indicators for material analysis	Objectives addressing all stakeholder needs

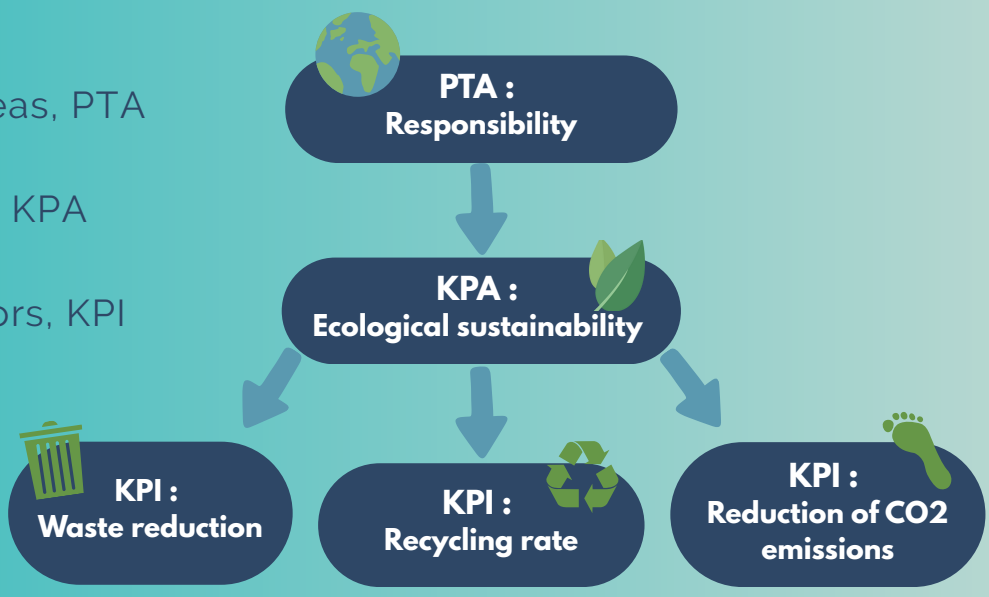
STRUCTURE:

The S4M maturity model consists of several different levels or stages, each representing its own degree of maturity.

In addition to the levels, the maturity model is composed of:

- Performance Theme Areas, PTA
- Key Performance Areas, KPA
- Key Performace Indicators, KPI

Example of a maturity model structure:



S4M SUSTAINABLE MATERIAL MANAGEMENT MATURITY MODEL

Boosted by BUSINESS FINLAND

TURKU AMK TURKU UNIVERSITY OF APPLIED SCIENCES

S4M & THE MATURITY MODEL

In the S4M project, a maturity model is being developed to improve sustainable material management within the shipbuilding ecosystem. The maturity model is digital and scalable.

The model provides insights into ecosystem-level maturity and influences the competitiveness of the supply network.

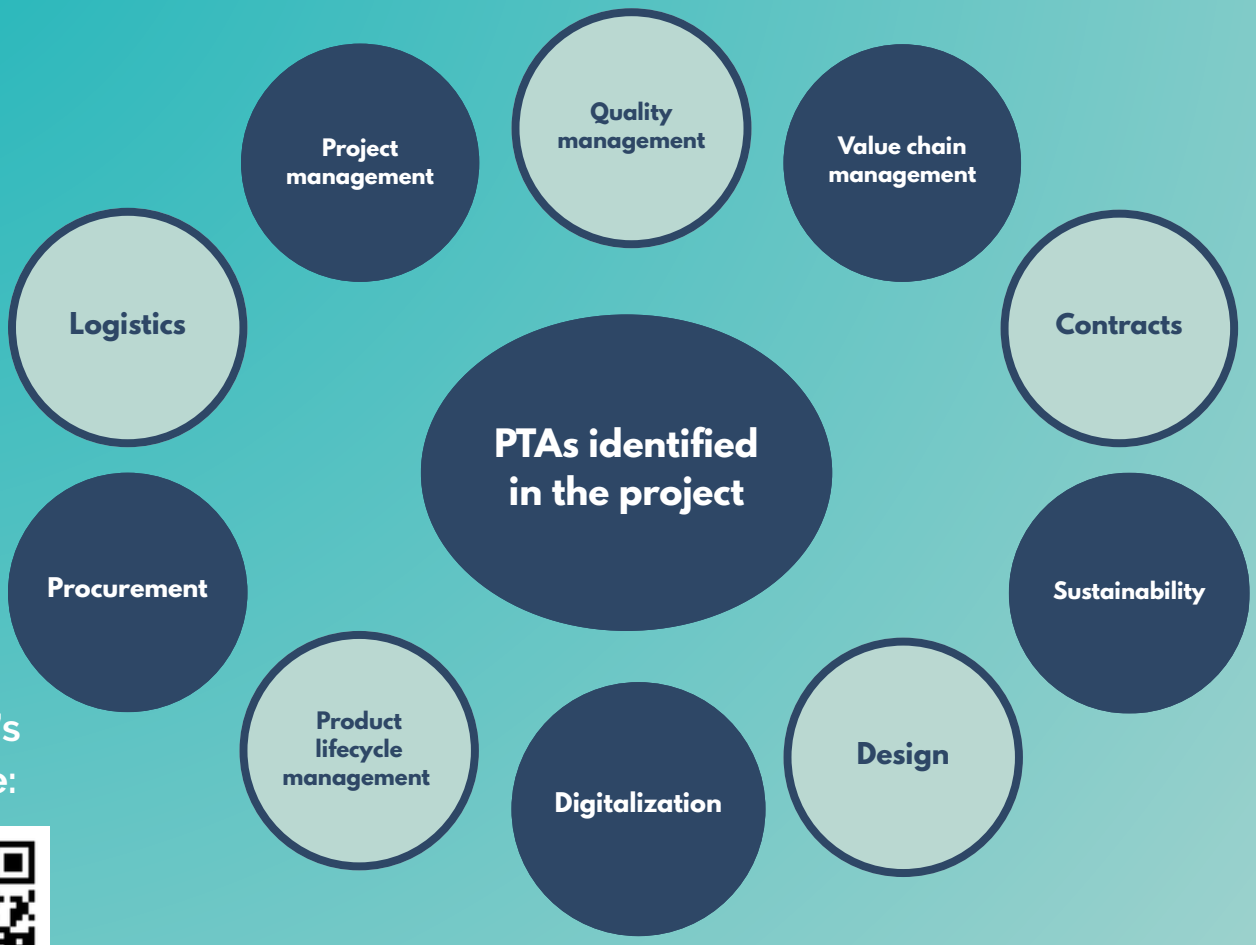
The maturity model combines researched knowledge with new sustainability indicators tailored to the shipbuilding network.

The model covers several **performance theme areas (PTA)**, such as sustainability, technology, procurement, quality assurance and logistics.

For each PTA, **key performance areas (KPA)** and **key performance indicators (KPI)** are defined to measure maturity.

The work is based on an extensive literature review as well as diverse co-development with project partners and the S4M team.

PERFORMANCE THEME AREAS (PTA):



Project's website: