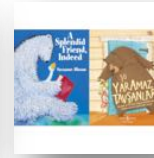


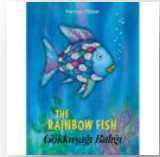
System Thinking Assessment Tool for Storybooks

Problem Statement



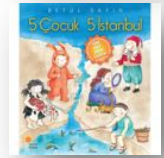
Storybooks

An effective way for learning basic systems thinking concepts



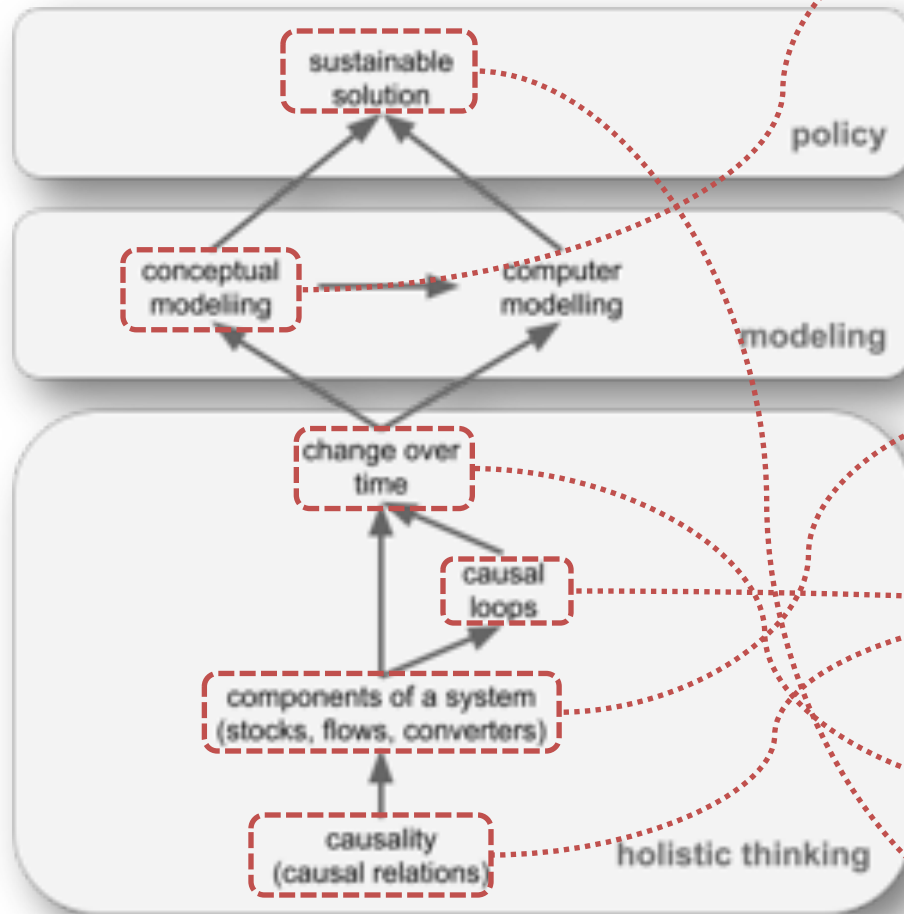
A tool

to guide writing a storybook and
to assess already written storybooks
is needed

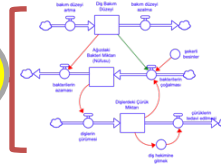


Approach or Dynamic Hypothesis

Systems Thinking Framework



1



Conceptual Model of Storybook

System Thinking Assessment Scale for Storybooks (STASS)

The purpose of this tool is to guide storybook writers to improve the systems thinking aspect of their stories. It is a feedback tool for a storybook in process of writing to acquire a systemic structure. That is; this tool is advised to be used multiple times. Besides, it can be used for assessing already published storybooks.

Stock-Flow Diagram	Causal Relations (loops if exist)	Change Over Time	Sustainable Solution	Story ST Score

6

Stock-Flow Diagram

	1	2	3	4	5	Score
Only 2 stocks						
Relations between stocks do not exist or are unclear						
Flows can be defined as 'increasing' and 'decreasing'						
More than 2 stocks						
Relations between stocks exists and are clear						
Flows have distinctive names (Evaporation, birth, afforestation, etc)						

Causal Relations (loops if exist)

	1	2	3	4	5	Score
No loop						
Behaviour is exogenous -flows are not affected by other stocks or flows						
Archetype exists						
Behaviour is endogenous -flows are affected by other stocks or flows						

Change Over Time

	1	2	3	4	5	Score
Linear increase or decrease						
Oscillation around target value or overshoot and collapse						

Sustainable Solution

	1	2	3	4	5	6	7	8	Score
No sustainable solution									
More than 1 sustainable solution									

- Validity and reliability studies in Turkey
 - Construct validity
 - Study validity
 - Inter rater reliability
 - Test re-test reliability
- A thesis study in Educational Management and Supervision Master's Programme
- Validity and reliability studies in other countries
- Research paper in ISDC2022 Frankfurt, Germany