DESCRIPTION

TITLE OF INVENTION: INFORMATION PROCESSING APPARATUS, CONTROL SYSTEM, INFORMATION PROCESSING METHOD, CONTROL METHOD, AND PROGRAM

Technical Field

[0001] The present disclosure relates to an information processing apparatus, a control system, an information processing method, a control method, and a program.

Background Art

[0002] Conventionally, techniques for controlling predetermined facilities have been developed. For example, Patent Literature 1 discloses a social infrastructure control system including a control device that locally controls social infrastructure and a server capable of communicating with the control device. Furthermore, Patent Literature 2 discloses a water treatment system including a controller that predicts the water quality of wastewater discharged from plant facilities and performs feedforward control of operating conditions of water treatment facilities based on the predicted water quality.

Citation List

Patent Literature

[0003]

Patent Literature 1: WO 2013/172088 A1

Patent Literature 2: WO 2017/022113 A1

SUMMARY

Problems to be Solved by Invention

[0004] However, due to various demands, the purposes for managing predetermined facilities have become increasingly diverse in recent years. Therefore, there is a growing need for technologies that enable users to more easily manage facilities to be managed.

CLAIMS

[Claim 1]

An information processing apparatus that supports management of a facility to be managed and that is configured to acquire a data group of management items relating to the facility to be managed, a facility not to be managed, and/or an external environmental factor affecting the facility to be managed,

the information processing apparatus comprising a processor configured to execute each step of:

a first reception step of receiving, from a user, two or more management matters for the facility to be managed;

a second reception step of receiving a future time condition from the user; and

a first prediction step of predicting states of the management matters under the future time condition based on the received future time condition and a temporal transition of the data group of the management items, wherein

the facility to be managed is a facility related to an industrial field, and

the two or more management matters are categories selected from a group consisting of laws and regulations, productivity, resource availability, energy saving, labor saving, cost reduction, and environmental hygiene for the facility related to the industrial field, and are matters relating to two or more mutually different categories.

[Claim 2]

The information processing apparatus according to claim 1, wherein:

the environmental hygiene relates to environmental hygiene when the facility related to the industrial field discharges wastewater or effluent.

[Claim 3]

The information processing apparatus according to claim 1, wherein:

the facility related to the industrial field is a facility related to a wastewater treatment field, a manufacturing field, or a power generation field.

[Claim 4]

The information processing apparatus according to claim 1, wherein:

the facility related to the industrial field is a plant.

[Claim 5]

The information processing apparatus according to claim 4, wherein:

the plant is a plant related to a water system.

[Claim 6]

The information processing apparatus according to claim 1, wherein:

the management items acquired by the information processing apparatus include a management item for the facility not to be managed.

[Claim 7]

An information processing method, comprising:

the steps implemented by the information processing apparatus according to any one of claims 1 to 6.

[Claim 8]

A program causing a computer to execute the steps implemented by the information processing apparatus according to any one of claims 1 to 6.