

Dec. 6, 2005

**JAPAN'S APPROACH FOR THE PREVENTION OF
ENVIRONMENTAL POLLUTION
CAUSED BY CHEMICALS**

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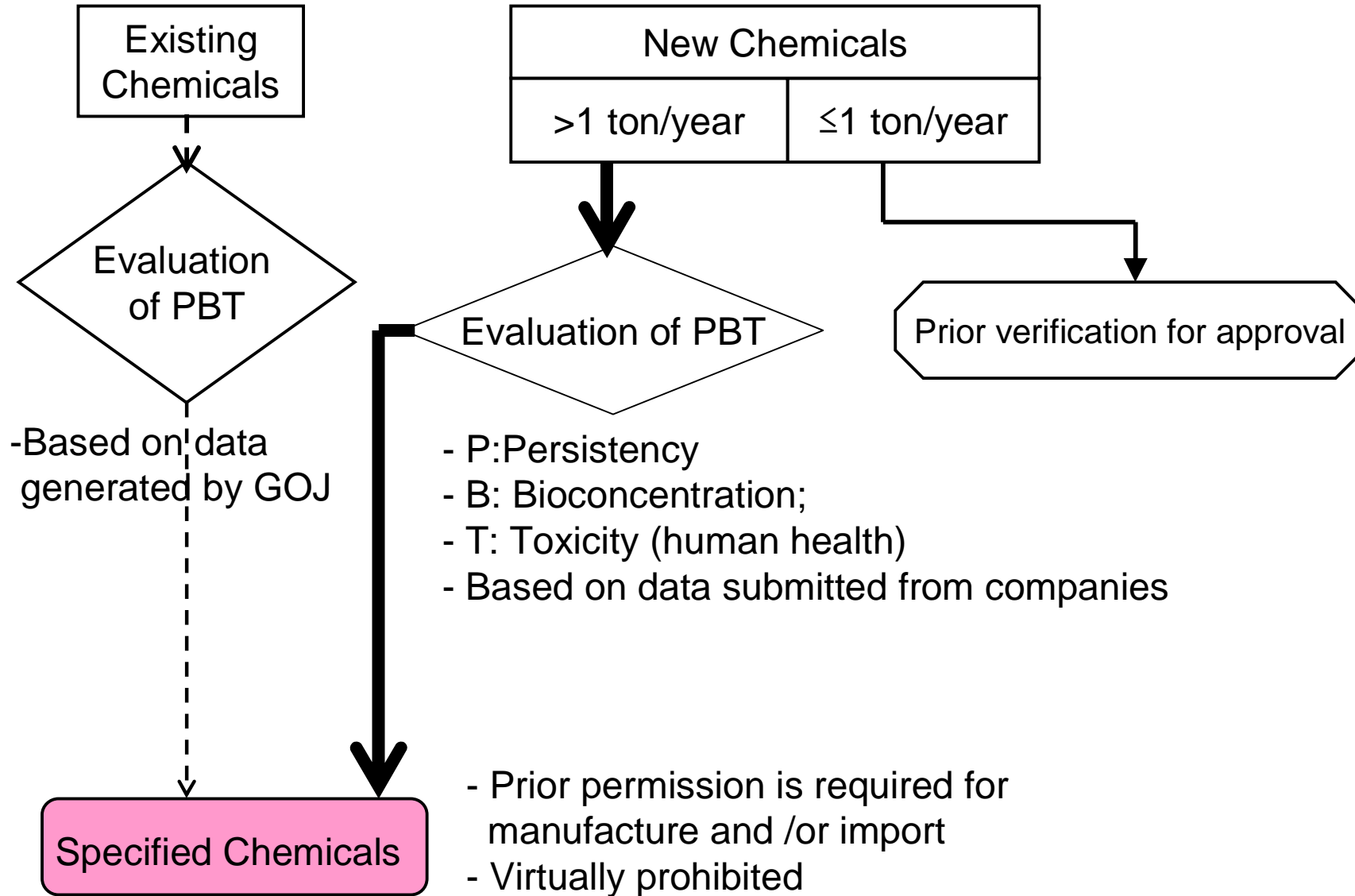
Regulation on Industrial Chemicals

1973

Promulgation of Chemical Substances Control Law (CSCL)

- to prevent environmental pollution
caused by PCB-like chemicals**
- for protecting human health**
- by controlling manufacture, import and
use**

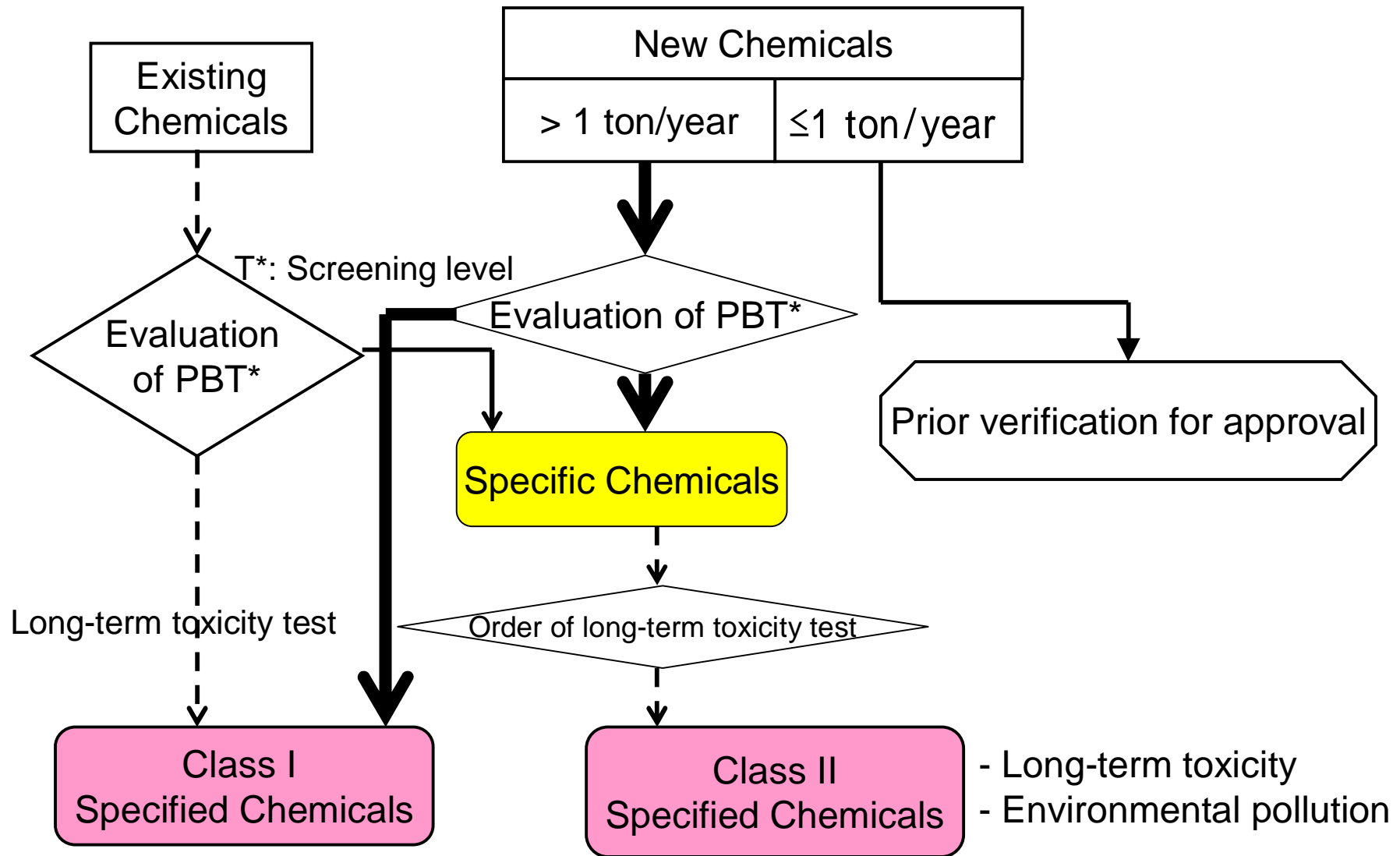
1973 CSCL



Banned POPs under CSCL

- 1974: PCBs
- 1979: HCB
- 1981 : DDT, Aldrin, Dieldrin, Endrin
- 1986: Chlordane, Heptachlor
- 2002: Mirex, Toxaphene

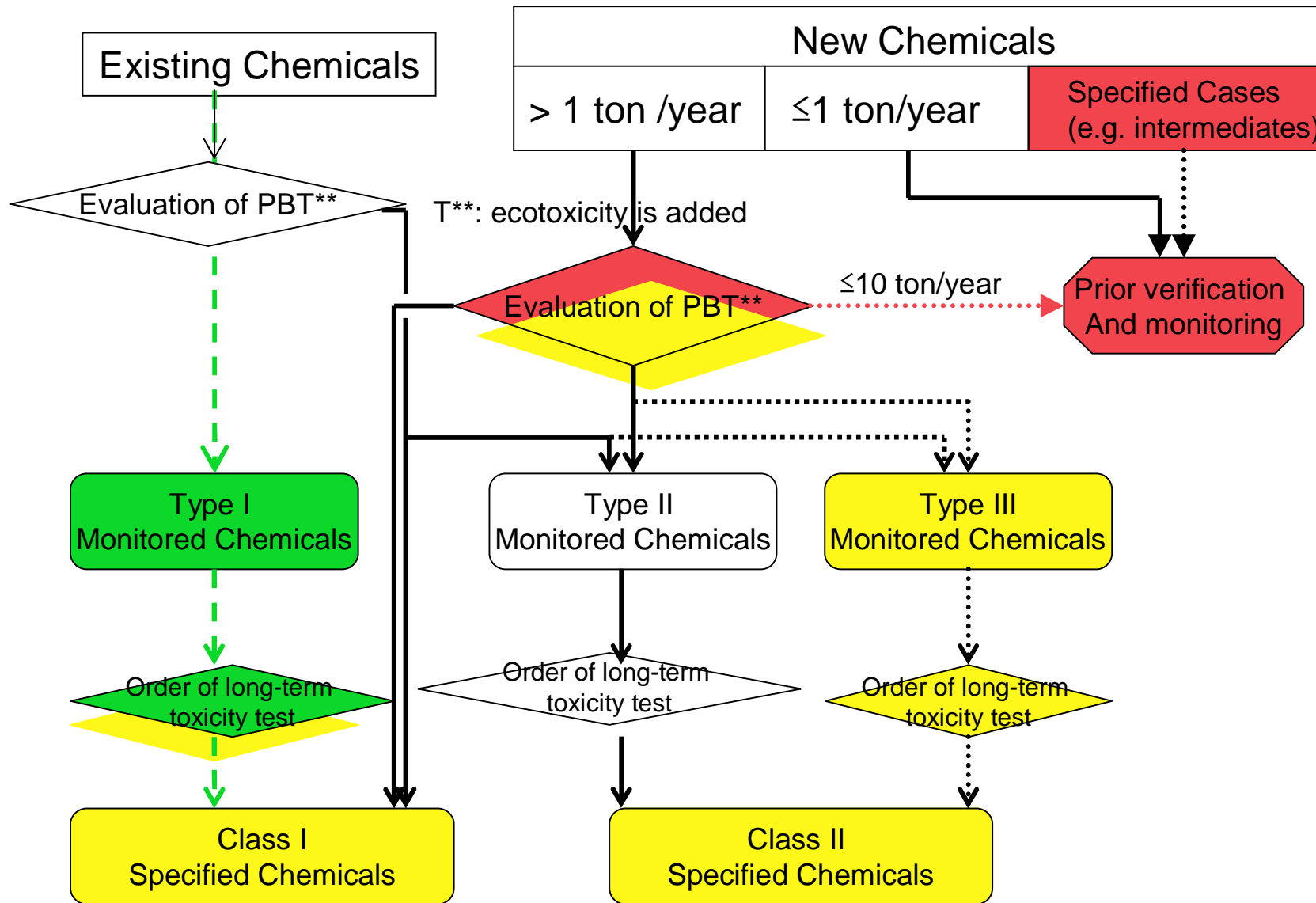
1986 Amended CSCL



2003 Amendments to CSCCL

- i) Introduction of evaluation and regulation of chemicals from the viewpoint of ecotoxicity
- ii) Introduction of control on persistent and highly bioaccumulative existing chemicals
- iii) Amendment to prior evaluation scheme for new chemicals by taking into account their exposure
- iv) Introduction of obligatory reporting of hazard information obtained by business

2003 Amended CSCL



Obligatory reporting of hazard information obtained by business

Regulated Chemicals under CSCL for Protecting the Ecosystem

<u>Type III Monitored Chemicals</u>	<ul style="list-style-type: none">- persistent- not highly bioaccumulative- have ecotoxicity
<u>Class II Specified Chemicals</u>	<ul style="list-style-type: none">- persistent- not highly bioaccumulative- have toxicity for flora and fauna in the human living environment- confirmed to have the potential to cause damage by environmental pollution
<u>Class I Specified Chemicals</u>	<ul style="list-style-type: none">- persistent- highly bioaccumulative- have long-term toxicity for humans or toxicity on top predators

Regulation on Chemicals under CSCL for Protection of the Ecosystem

<p><u>Type III Monitored Chemicals</u></p>	<ul style="list-style-type: none"> - mandatory reporting of manufactured and/or imported amount (Note: These amounts are announced publicly.) - compliance with guidance provided by GOJ
<p><u>Class II Specified Chemicals</u></p>	<ul style="list-style-type: none"> - mandatory reporting of planned manufactured and/or imported amounts -subject to governmental orders that require the change of planned amounts - labelling - compliance with technical guidance provided by GOJ and/or governmental recommendation on a legal basis - compliance with guidance provided by GOJ
<p><u>Class I Specified Chemicals</u></p>	<ul style="list-style-type: none"> -prior permission required for manufacture and/or import (Note: Permission is prohibited in essential.) - prohibition of use unless authorized in advance -prohibition of import of products containing the Class I specified chemicals - recovery of the products

2005 Japan Challenge Program

< When was this program initiated?>

- June 2005.

<What is the purpose?>

- Collection and dissemination of safety data (e.g. degradability, bioaccumulation, toxicity, ecotoxicity) on existing chemicals through partnership between of government and industry

<What will be done?>

- Collection and dissemination of safety data of priority chemicals (ca. 700 chemicals) by 2008
Note) Data items to be reported are the same as OECD/SIDS essentially.
- Voluntary participation of industry for generating data of ca. 160 chemicals that has no or insufficient data

http://www.env.go.jp/chemi/kagaku/kison_index.html (in Japanese)

Japan's 3rd Environmental Basic Plan

- based on “Environmental Basic Law”
- to be released in 2006.

<Chemicals (draft)>

- Taking into account the goal set out at WSSD, in order to minimize risks due to hazardous chemicals by 2020, the effects of chemicals to human health and the ecosystem should be evaluated based on scientific knowledge through developing simple and rapid approaches such as structure-activity-relationship (SAR).

“Chemicals in the Environment” JMoE’ Environmental Monitoring Report

- JMoE has issued “Chemicals in the Environment” since 1974 on an annual basis.
- This environmental monitoring report presents the results of environmental surveys that JMoE has carried out in a systematic way to identify chemicals in the environment and to monitor their levels.

<http://www.env.go.jp/chemi/kurohon/index.html> (in Japanese)

<http://www.env.go.jp/chemi/en/kurohon/http2003e/index.html>

(in English)(2003 version)

JMoE's Environmental Monitoring Program

- 1) The Initial Environmental Survey
- 2) The Advanced Environmental Survey
- 3) The Environmental Survey for Exposure Study
- 4) The Monitoring Investigation
- 5) The Environmental Survey for human biological samples



Modeling Analysis
of Environmental
Fate of Chemicals



Development of
Analytical Method



Environmental
Specimen Bank
Coop With NIES

NIES TIME CAPSULE FACILITY



INSIDE of the TIME CAPSUL FACILITY

