

Green Procurement (Contained Material Declaration) Status in Japan



*Japan **G**reen **P**rocurement **S**urvey
Standardization **I**nitiative*

August 31, 2004
Fuji Photo Film Co., Ltd.
YAMAGUCHI, Jun

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About JGPSSI

- **JGPSSI:**
Japan Green Procurement Standardization Initiative
- **Establishment: in 2001 by volunteer companies**
- **Secretariat : in JEITA (the Japan Electronics and Information Technology Industries Association)**
- **Member Companies : 78 companies, 5 associations or committees in JEITA**

More information :

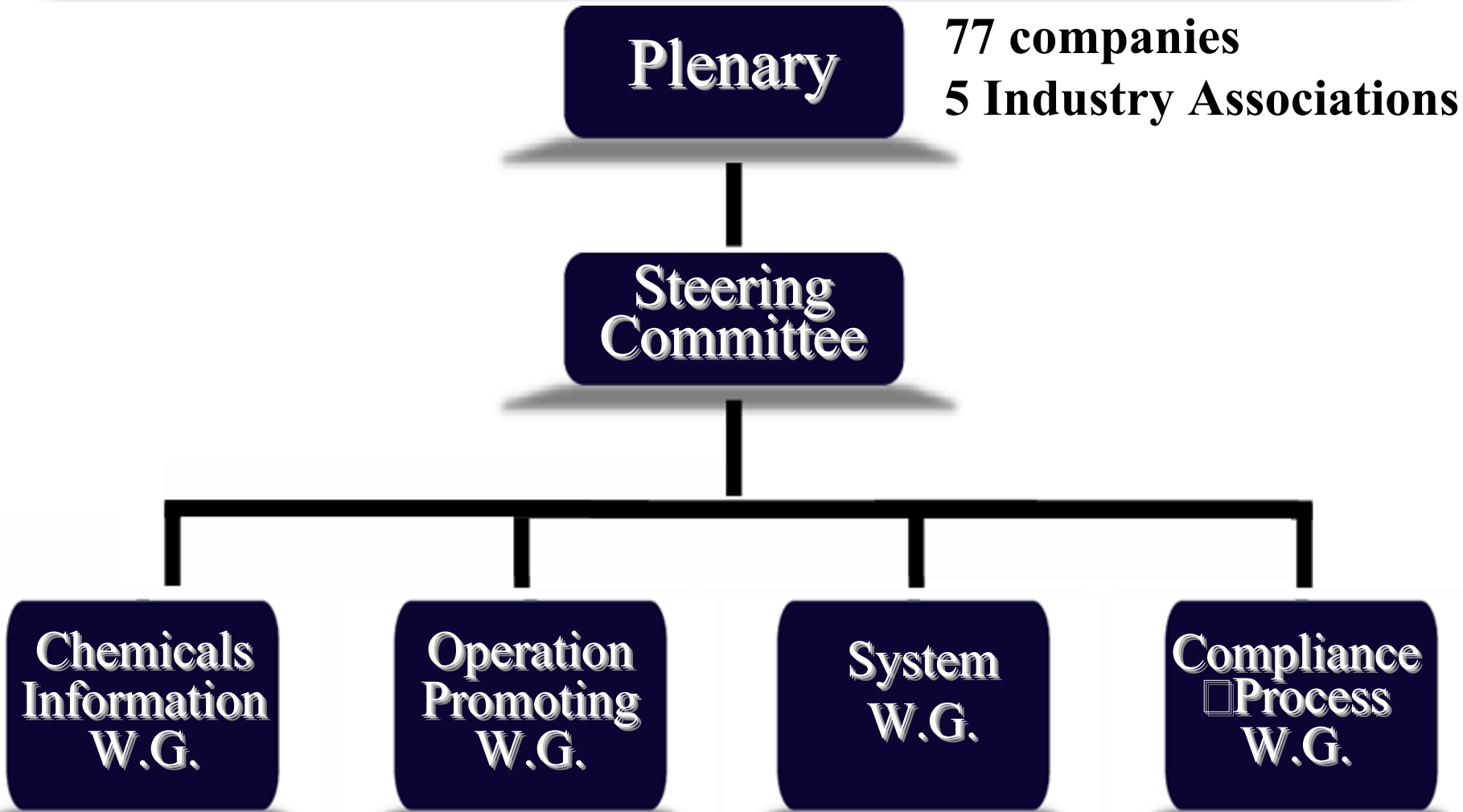
<http://home.jeita.or.jp/eps/009.html>

Member Companies

Aug 18, 2004

No.	Company Name	No.	Company Name	No.	Company Name
1	Advanced Technology and Systems Co.,Ltd.	30	JANOME SEWING MACHINE CO.,LTD.	59	SEIKO EPSON CORPORATION
2	ADVANTEST CORPORATION	31	JUKI CORPORATION	60	SEIKO Precision Inc.
3	ALPS ELECTRIC CO.,LTD	32	KENWOOD CORPORATION	61	SHARP Corporation
4	Apple Computer, Inc.	33	KOITO INDUSTRIES,LTD.	62	SHIMADZU CORPORATION
5	Artiza Networks, Inc.	34	KONICA MINOLTA HOLDINGS, INC.	63	Sony Corporation
6	Brother Industries, Ltd.	35	KYOCERA CORPORATION	64	SUMITOMO BAKELITE CO., LTD.
7	Canon Inc.	36	Logitec Corporation	65	Systems Engineering Consultants Co.,Ltd.
8	CASIO COMPUTER CO., LTD.	37	Makita Corporation	66	TAIYO INK MFG.CO.,LTD.
9	D&M Holdings, Inc.	38	MARKEM K.K.	67	TAIYO YUDEN CO., LTD.
10	DAIFUKU CO.,LTD	39	Matsuda kogyosho Co.Ltd.	68	TDK Corporation
11	Daikin Industries, LTD.	40	Matsushita Electric Industrial Co., Ltd.	69	Techno Polymer Co.,Ltd.
12	Electronic Devices Information Service Co.,Ltd.	41	Matsushita Electric Works, Ltd.	70	TELJIN LIMITED
13	Fuji Electric Holdings Co., Ltd.	42	Mitsubishi Electric Corporation	71	TEMCO JAPAN CO., LTD
14	Fuji Photo Film Co.,Ltd.	43	Murata Manufacturing Co., Ltd.	72	THE FURUKAWA ELECTRIC CO.,LTD.
15	Fuji Xerox Co., Ltd.	44	NEC Corporation	73	TOSHIBA CORPORATION
16	Fujikura Ltd.	45	NIKON CORPORATION	74	TOSHIBA TEC CORPORATION
17	FUJITSU LIMITED	46	NIPPON STEEL CORPORATION	75	TSUKASA ELECTRIC CO.,LTD.
18	FUNAI ELECTRIC CO.,Ltd.	47	NIPPONMEKTRON, LTD	76	Victor Company of Japan,Limited
19	FURUNO ELECTRIC CO.,LTD	48	NISSEI CORPORATION	77	YAMAHA CORPORATION
20	FUTABA CORPORATION	49	Oki Electric Industry Co., Ltd.	78	ZUKEN Inc.
21	HANSHIN ELECTRIC WIRE & CABLE CO., LTD	50	OLYMPUS CORPORATION		
22	HIROSE ELECTRIC CO., LTD.	51	OMRON Corporation		
23	Hitachi Cable, Ltd.	52	Pioneer Corporation	1	Association of Musical Electronics Industry
24	Hitachi High-Technologies Corporation	53	PS Japan Corporation	2	Tokai Technology Center
25	Hitachi, Ltd.	54	RICOH COMPANY, LTD.	3	Japan Printed Circuit Association
26	HORIBA Ltd.	55	RIKEN TECHNOS CORP.	4	Technical Standardization Committee on Semiconductor Device Package of JEITA
27	IBM Japan, Ltd.	56	Roland DG Corporation	5	The semiconductor environment and safety committee of JEITA
28	ICOM INCORPORATED	57	SANYO Electric Co., Ltd.		
29	I-O DATA DEVICE, INC.	58	SATO CORPORATION		

JGPSSI



Cooperation with related domestic organizations and other industries

Keep contact with the the four electrical/electronics organizations, other industry associations, and major corporate customers (automakers, communications providers, etc.)

The four electrical/electronics organization

- The Japan Electrical Manufactures' Association
- Japan Electronics & Information Technology Industries Association
- Communications and Information network Association of Japan
- Japan Business Machine and Information System Industries Association

Other industry associations

- Japan Automobile Manufacturers Association, Inc.
- Japan Chemical Industry Association

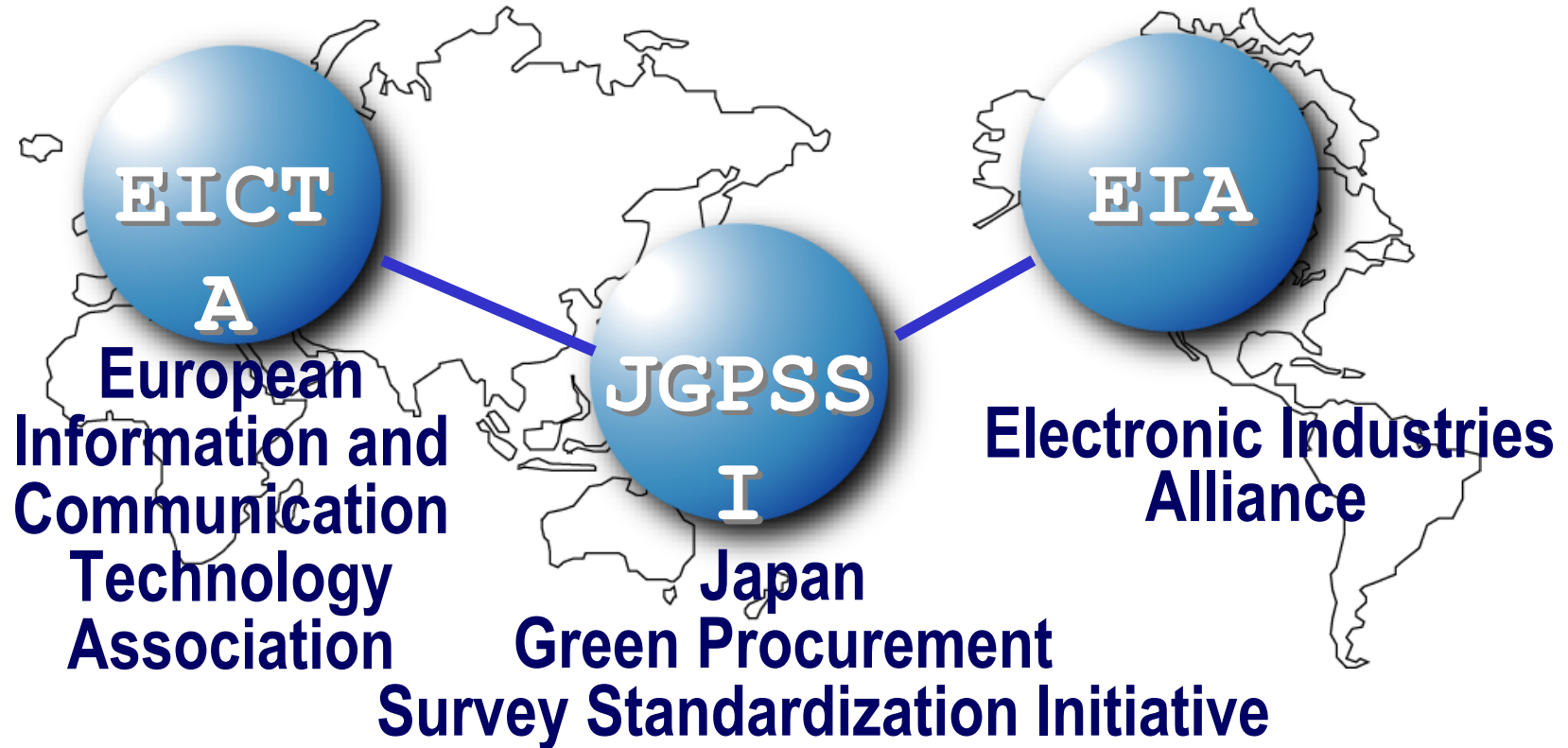
Major corporate customers

- Nippon Telegraph and Telephone Corporation

Internet Homepage

□□□ <http://home.jeita.or.jp/eps/009.html>

Cross-Border Coordination



Discussions for a global standard

Book Publishing

“Practical Application of Green Procurement”

- Material Declaration -

Author/Editor : JGPSSI

Pages : 150 pages

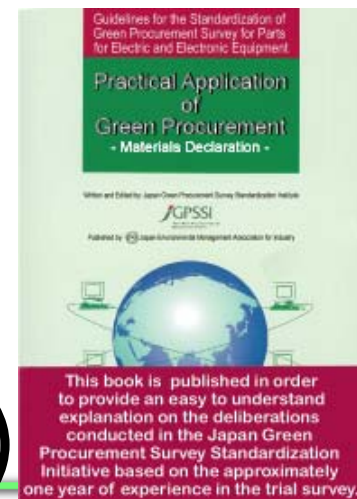
Publisher : JEMAI (Japan Environmental
Management Association for Industry)

Retailer : MARUZEN CO., LTD.

Price : ¥1900 (Japanese book)
¥3900 (English book, in JP)

Issue Date : September 2003

June 2004 (English version)



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📌 **JGPSSI Survey Principle**

● **Substance List**

● **Survey Principle**

📌 **JGPSSI Survey Tool**

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📌 **Issues needing a solution**

History of Substance List

📌 JGPSSI established : **January 2001**

📌 Trial List : **January 2003**

● 28 Chemicals List

📌 Version 2 List : **July 2003**

● 29 Chemicals List (version 2)

Following the Tokyo agreement with EIA, EICTA

📌 Will be revised following the
EIA/EICTA/JGPSSI Guide

● 24 Chemicals List ?

Substance List used :

Level A Materials and Substances

1. Cadmium and Cadmium Compounds
2. Hexavalent Chromium Compounds
3. Lead and Lead Compounds
4. Mercury and Mercury Compounds
5. Tributyl Tin Oxide (TBTO)
6. Tributyl Tins & Triphenyl Tins
7. Polybrominated Biphenyls (PBBs)
8. Polybrominated Diphenyl ethers (PBDEs)
9. Polychlorinated Biphenyls (PCBs)
10. Polychloronaphthalenes (Cl=>3)
11. Short Chain Chlorinated Paraffins
12. Asbestos
13. Azo Colorants
14. Ozone Depleting Substances
15. Radioactive Substances

Substance List used :

Level B Materials and Substances

1. Antimony and Antimony Compounds
2. Arsenic and Arsenic Compounds
3. Beryllium and Beryllium Compounds
4. Bismuth and Bismuth Compounds
5. Nickel and Nickel Compounds
6. Selenium and Selenium Compounds
7. Magnesium
8. Vinyl Chloride Polymer (PVC)
9. Brominated Flame Retardants
10. Phthalates
11. Copper and Copper Compounds
12. Gold and Gold Compounds
13. Palladium and Palladium Compounds
14. Silver and Silver Compounds

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JGPSSI Survey Principle

Principle

- Chemicals survey Content in “Chemicals Group”
 - CAS Number survey is optional & Voluntary
- Intentionally added chemicals in mass(mg)
 - For Metal compounds, in metal mass(mg)

Pending Issues

- Content Survey in “ppm”

$$\text{content (ppm)} = \frac{\text{Chemicals Mass.... accurate}}{\text{Unit mass ...difficult to define}}$$

- RoHS compliant Flag
 - as “Homogeneous Definition”, “Exemption List” are vague
 - “Parts-Sub Parts” expression
 - BOM List
-

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Easy to Handle

✔ Small size exported Data

● File size of 10 Data in Tool : **1516KB**

● File size of 10 Data Exported : **12KB**

✔ No restriction to the handling other than “data Format Rule”



JGP File

JGP Data Structure



Simply Layered Structure

1. Basic info. (Company Info.)

Required

2. Basic info. (Parts ID)

Required

3. Chem. Content Info. (As Group)

Required if it Contains
Level-A Chemicals

4. Chem. Content Info. (CAS No.)

Voluntary
(If requested, essential)

JGP Data Format



JGP File

Basic information lines (Line Nr.100,110,120)

Survey & Surveyed company info. etc

Part unit line (Line Nr.200)

Part ID information, part weight etc.

Substance groups unit line (Line Nr.300)

Substance content information in group level

– Substance unit line (Line Nr.400)

Substance content information in CAS level

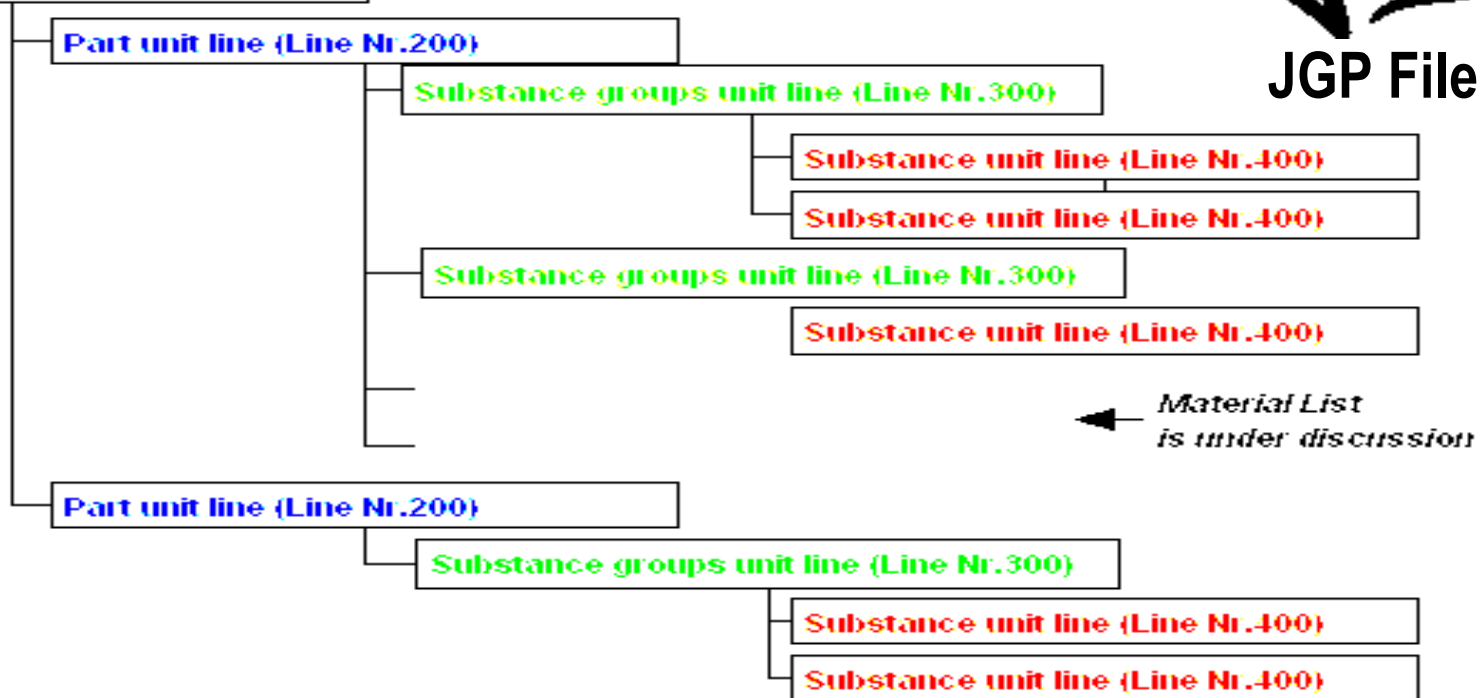
Material unit line (Line Nr.500)

Material content information (under discussion)

Essentially, Content in Substance Group is required

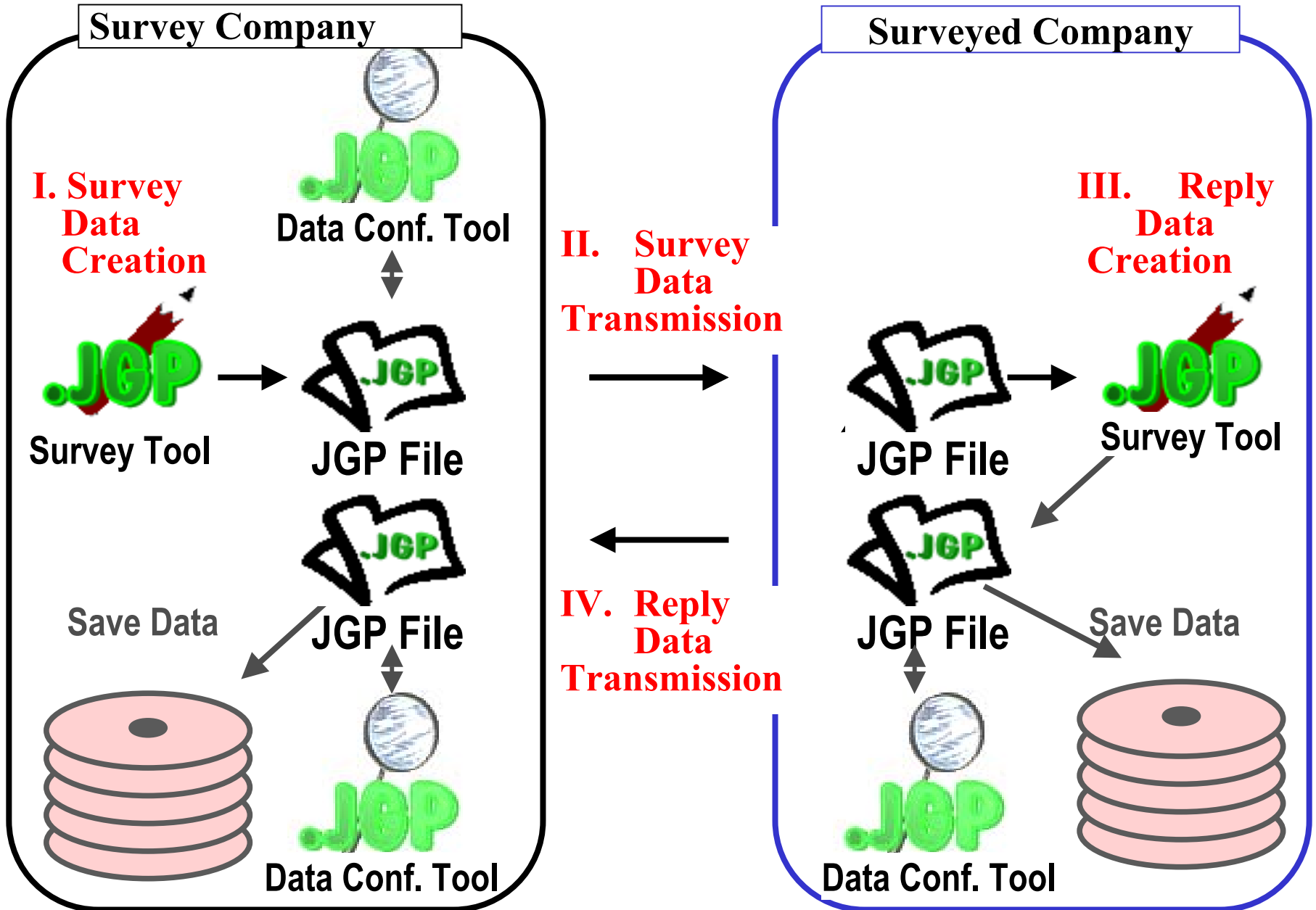
JGP File Data Group sequence

Basic information line 1 (Line Nr.100)
 Basic information line 2 (Line Nr.110)
 Basic information line 3 (Line Nr.120)

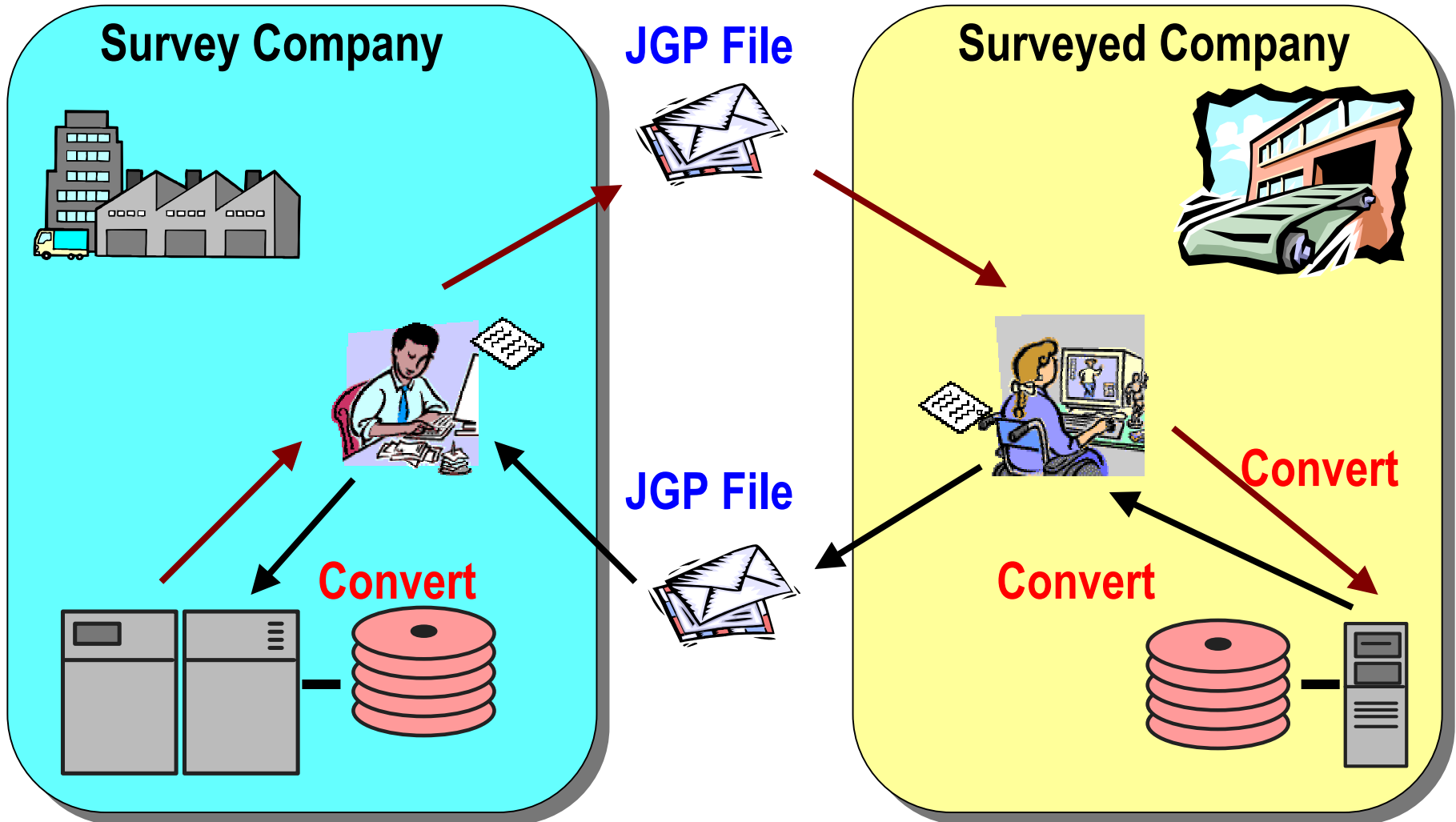


Data in order	1	2	3	4	5	6	7	8	9
Content	Line code	Language flag	Format version	Reference No.	Date of entry	Parts Mass Unit	Substance Mass Unit	Tool Name	Open
Byte	3	1	5 and below	30 and below	10	1	1	40 and below	10
Remarks	100	0:Japanese 1:English			YYYYMM/DD	1:mg 2:g 3:kg 4:t *5	1:mg 2:g 3:kg 4:t *6		YYYY

Tool Usage in Survey System



JGP Data Handling



JEITA/ECALGA (e-commerce)

- 🟢 Trial use of JGP file : started
- 🟢 Officially from 2004/E or 2005/S
 - First step: as attached file
 - Next step: as XML description

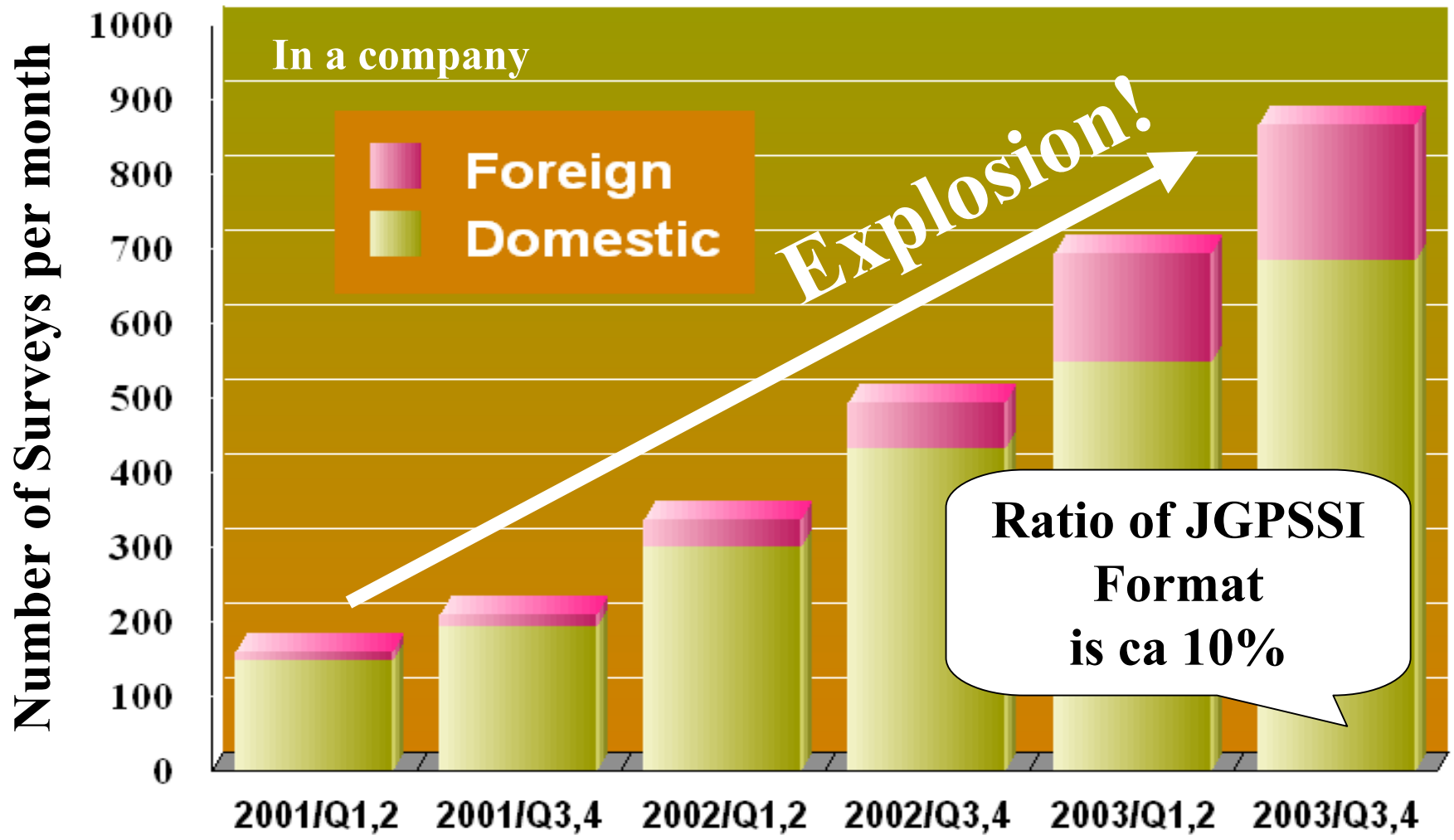


ECALGA (Electronic Commerce Alliance for Global business Activity) □

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Number of Green Procurement Surveys received per month



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 - 🟡 **Data validation / CP(Compliance Process) WG**
 - 🟡 **Various Discussions for next step**
 - 🔵 **Key in Supply Chain ??**
 - 🔵 **Outline of Compliance Process Management ??**
 - 🔵 **Unit Processes in Supply Chain ??**

Data Validation / CP WG

JGPSSI two years experience teach us the keys

📌 Input error

Error checker programs

are provided by each company.

● logical error (entry mistake)

example : content chemicals mass > parts mass

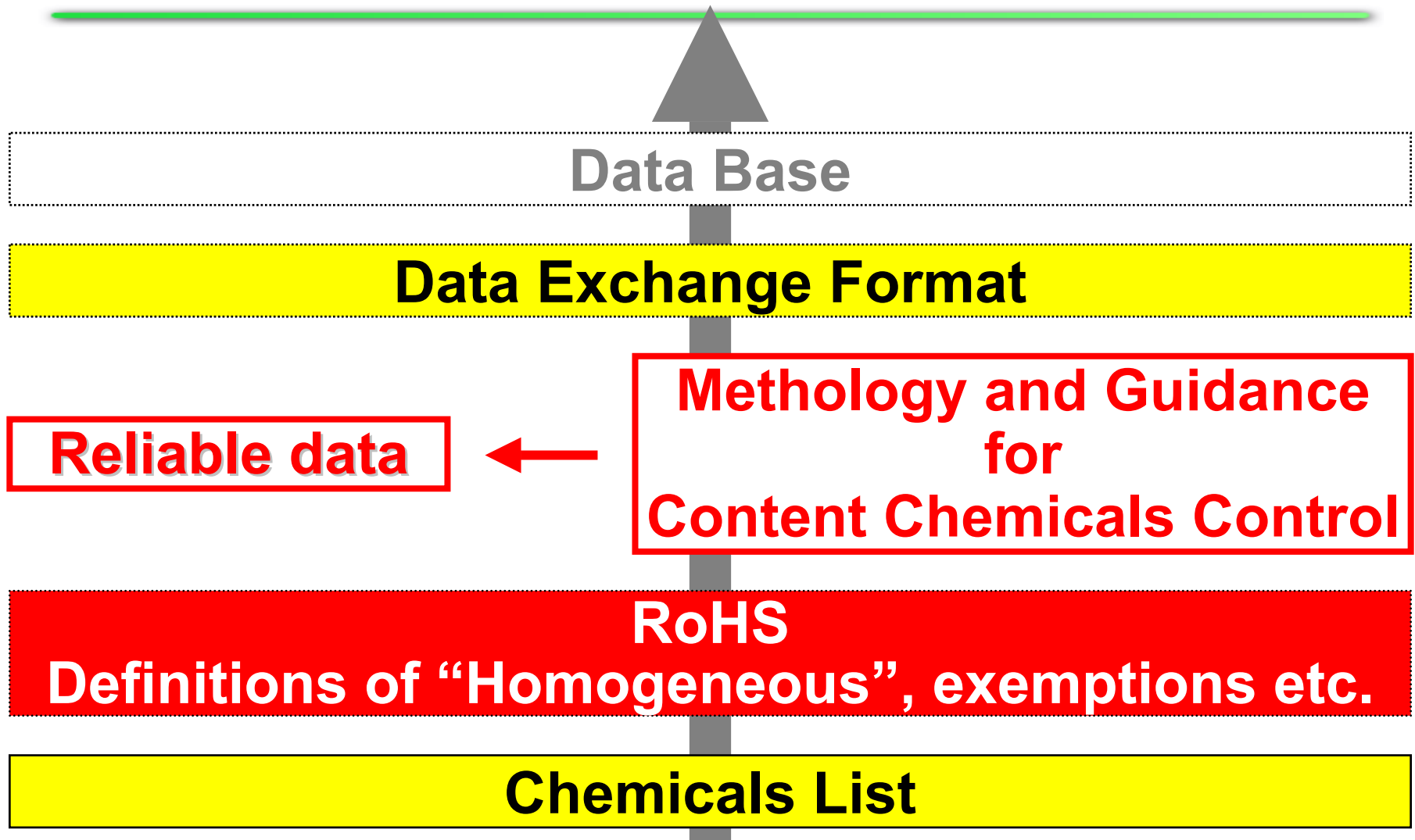
● Omission in entry

example : no “parts name”, no “company name”

📌 Data reliability

CP (Compliance Process) WG is inaugurated in JGPSSI
(draft guideline : 2004/E)

Need of CP Management guide



Management Chains

Scheme to calculate data of hazardous substances in Purchased Products and inform data of hazardous substances in its products to its customers

"Management chains" of hazardous substances

supplier B1

supplier B2

supplier B3

supplier A1

supplier A2

supplier A1

Final Product
Manufacturer

hazardous
substance-free
products



Data of
hazardous
substances

The organization shall inform data of hazardous substances in its products to its customers. The data shall be calculated from data of hazardous products in purchased products.

To enhance the creditability of data of hazardous substances in products, the organization(s) should establish, implement and maintain the management system of hazardous substances.

Material Declaration Assurance System

Policy and Principle

Planning of operational process

Identification of organizational structure, roles, responsibilities and authorities

Management Review

Selection of significant issues to be addressed

Design and Development

< Example >
Rule mentions that prohibition and restriction of the use of certain hazardous substances must be noted on specifications

Purchasing

< Example >
Data of certain hazardous substances and its evidence exist for all purchased products

Production

< Example >
Operation procedures to prevent the mixing of certain hazardous substances are defined.

Product release

< Example >
Data of certain hazardous substances in products are traceable

Management review

Analysis and handling nonconformity

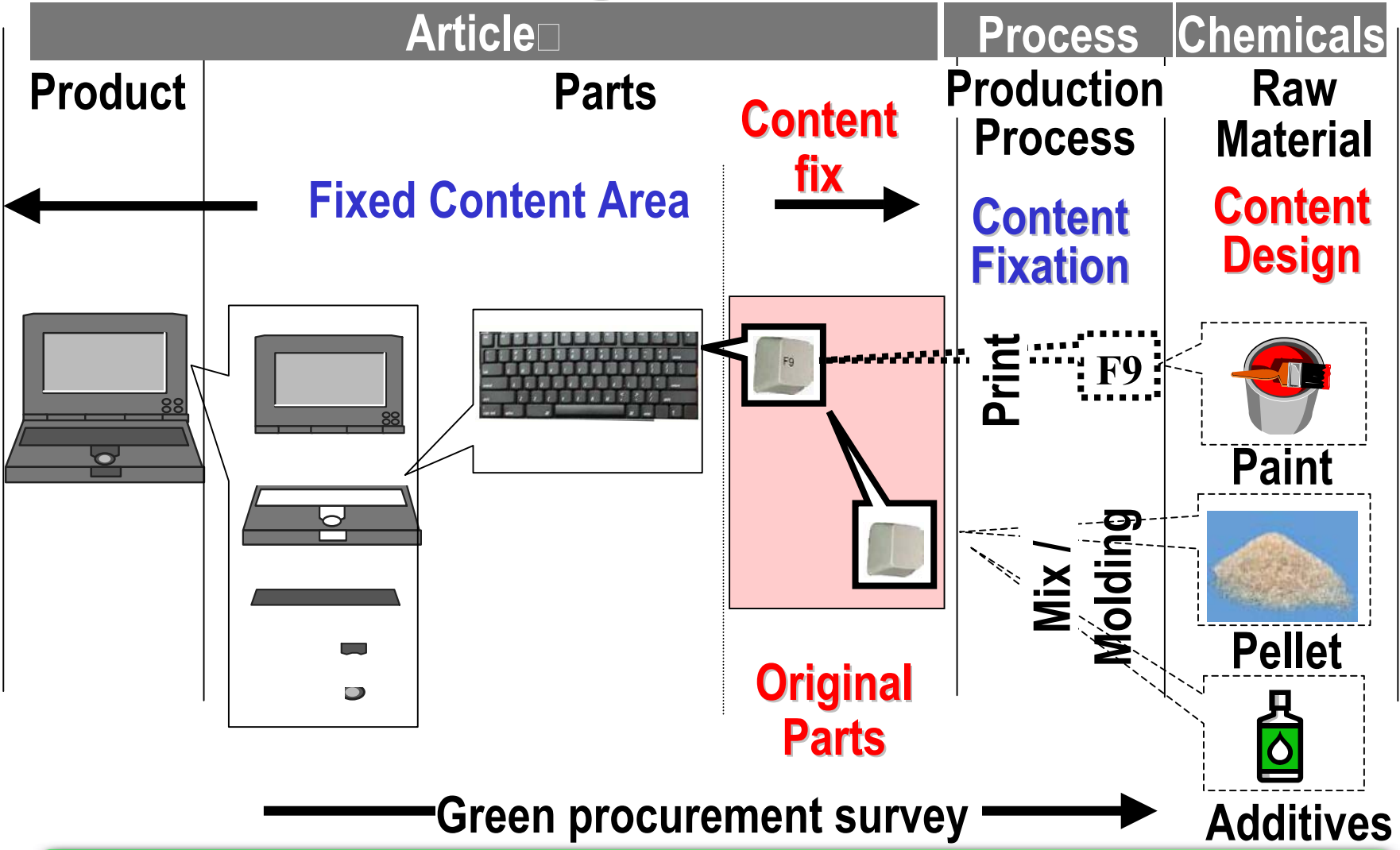
Self-declared claims or Audits

It will be expected to reduce the loads for both manufacturers and suppliers by holding the management system of hazardous substances in common

Contents

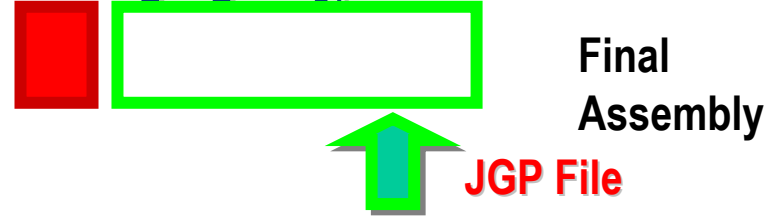
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 - **Outline of Compliance Process Management ??**
 - **Unit Processes in Supply Chain ??**

Key in Supply Chain would be the "Original Parts" ??



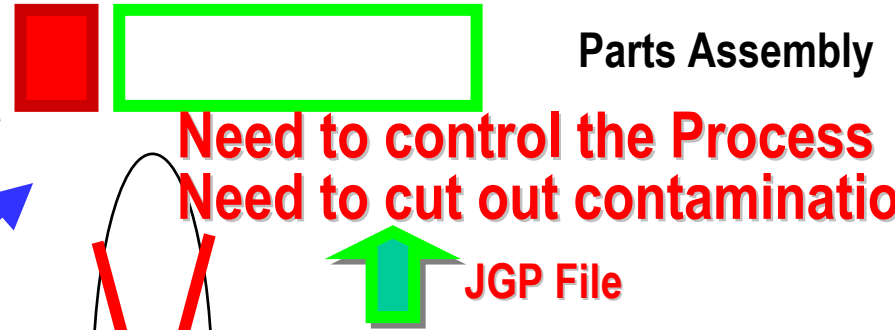
Outline of Compliance Process Management in Supply Chain ??

4th Layer
E&E Company



3rd Layer
Parts Maker

**Need Guarantee
With Measured data**

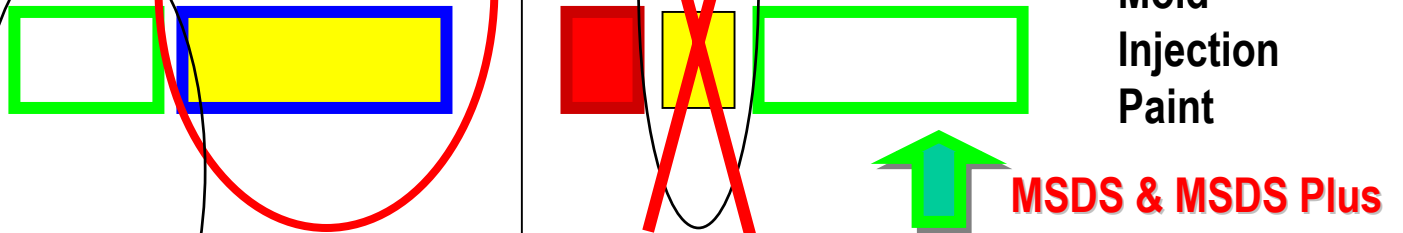


**Need to control the Process
Need to cut out contamination**

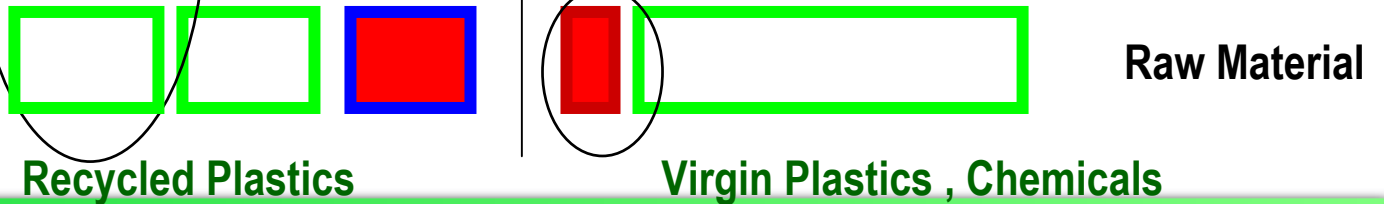
Closed
Recycle

Open Recycle

2nd Layer
Original Parts
Maker



1st Layer
Chemicals
Company



Recycled Plastics

Virgin Plastics , Chemicals

Information Sheet on Specific Chemical Substances (MSDS plus)

Supplemental to MSDS

Content Chemicals Information on Level-A Chem.

Non-content Declaration (Regarding Production of Chemicals banned in Japan)

- Chemical Substances Control Law
- Industrial Safety and Health Law
- Poisonous and Deleterious Substances Control Law

Information Sheet on Specific Chemical Substances (Draft)

Company Name: XXX Inc.
 Division/Department: XXX Department of XXX Division
 Address: XXXXXXXX, Tokyo
 TEL / FAX Number: XXXX-XXX-XXXX
 Preparation / Revision Date: XXXXXXXX / XXXXXXXX
 Signature by Quality Control Department Manager

Document Number: XXXXX
 Product Name: XXXXXXXX

Use of this Sheet: While MSDS for this product is supplied to our customers complying with Japanese laws, this sheet provides the supplemental information on inclusion/non-inclusion of the below listed substances which is necessary for our customers to meet specific overseas legislative requirements.

Number	Substance/Substance Group	Inclusion/Non-inclusion	Content
A-1	Cadmium and its compounds	Yes/No	
A-2	Chromium VI compounds	Yes/No	
A-3	Lead and its compounds	Yes/No	
A-4	Mercury and its compounds	Yes/No	
A-5	TBT ¹⁾	Yes/No	
A-6	TBTO ¹⁾	Yes/No	
A-7	Chlorinated paraffins (Short Chain)	Yes/No	
A-8	Polybrominated Biphenyls	Yes/No	
A-9	Polybrominated Diphenyl Ethers	Yes/No	
A-10	PCBs ¹⁾	Yes/No	
A-11	Polychlorinated Naphthalenes (with more than 3 chlorine atoms) ¹⁾	Yes/No	
A-12	Asbestos ¹⁾	Yes/No	
A-13	Specific AZO compounds ²⁾	Yes/No	
A-14	Ozone depleting substances	Yes/No	
A-15	Radioactive substances	Yes/No	

¹⁾ Use of these substances is prohibited under the associated Japanese laws.
²⁾ German law restricts use, e.g. skin contacting fibers, of AZO colorants emitting over 30 ppm of carcinogenic amines with exemption for those compounds tested for safety verification. Contact suppliers of the compound for details.

Unit Processes in Supply Chain & Key for each Process??

Chemicals

Article

Purchase

Production

Sell

Purchase

Production

Sell

Raw Material Process

Raw Material Purchase

Raw Material Production

Raw Material Sell

Original Parts Process

Raw Material Purchase

Original Parts Production

Conversion



Parts Sell

Parts Make Process

Parts Purchase

Parts Assemble

Parts Sell

Finished Product Process

Parts Purchase

Parts Assemble

Product Sell

Examples of Key for CP:

Get Info. if N/Av Measure

Contamination Control

MSDS & MSDS plus

Get Info. if N/Av Measure

Traceability

JGP file

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JGPSSI would like to cooperate towards the global standard of “the Complete and Accurate supply chain data tracking process ”

END