

A Support Programme for Assisting Hong Kong SMEs To Effectively Achieve Hazardous Substances Compliance through Adoption of IECQ QC 080000 Hazardous Substances Process Management System

Funded by



Organized by



Implemented by



Solution - IECQ HSPM QC080000 System

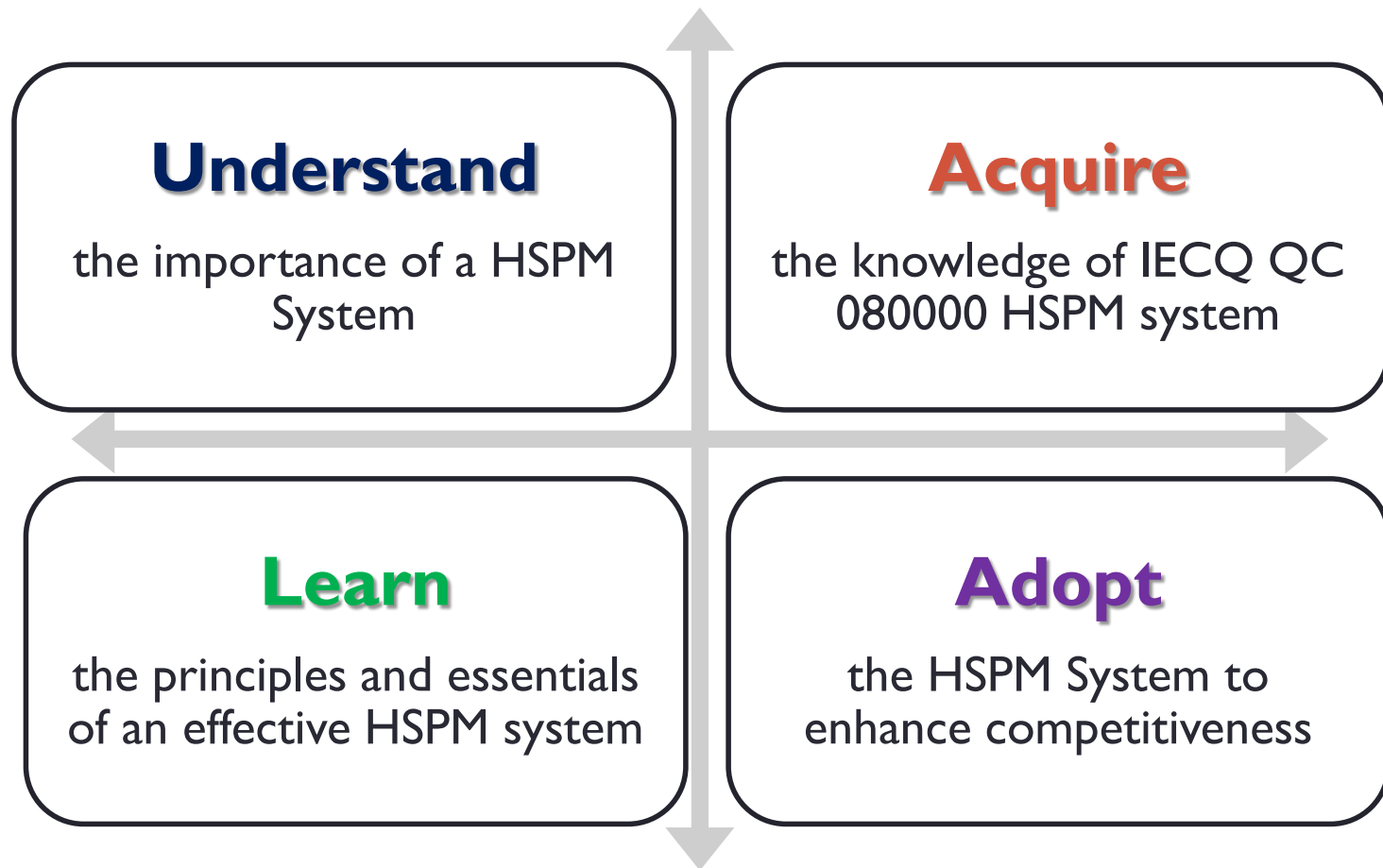
- Established by International Electrotechnical Commission Quality Assessment System For Electronic Components



- Helps manufacturers implement a Hazardous Substance Process Management (HSPM) system in a **systematic** manner
- Certification tells global marketplace that processes are in place to **properly manage** products for achieving HSF
- **Reduce the risk** of non-compliance

How do We Assist SMEs?

- A 18-month Support Programme, aiming to help SMEs to:



Initiative I – Seminars and Industry Outreaches

Activities:



2 Seminars – October
2014 and March 2015



Visits to 10 industry
associations

Beneficiaries:

- **Companies** seeking effective hazardous substance management
- **Industry associations** representing SMEs

Initiative 2 – Industry Consultation Visits and e-Fact Sheets

Activities:



On-site visits to 10
pioneer companies



Production of 10
e-Fact sheets

Beneficiaries:

- **Pioneer companies** of IECQ QC 080000 implementation and hazardous substance management
- **e-Fact sheets will be uploaded to website** for widespread sharing

Initiative 3 – Online Practical Guide

Activity:



Production of an online step-by-step guide for effective QC 080000 implementation

Beneficiaries:

- **Key personnel** responsible for hazardous substance management for their companies, **factory managers**, **compliance managers**, etc.

Initiative 4 – Product Recall Workshops

Activity:



Organizing 2 workshops to address legal issues, compliance strategies, emergency plans and action in case of product recall

Beneficiaries:

- **Key personnel** responsible for hazardous substance management for their companies, **factory managers**, **compliance managers**, etc.

Contact Us

Enquiries:

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timchan@hkpc.org)

Ms Candice Li – FHKI (Tel: 2732 3169/
candice.li@fhki.org.hk)

Website:

Hong Kong Green Manufacturing Alliance
<http://www.gma.org.hk>



Green Manufacturing Network
<http://www.gmn.hkpc.org>



綠色製造網絡
Green Manufacturing Network



IECQ QC 080000 HSPM

認證如何有助本地企業提高
有害物質的管理水平

Systems & Services Certification, 國際認證服務部
SGS Hong Kong Limited, 香港通用檢測認證有限公司

WHEN YOU NEED TO BE SURE

SGS

WHY CERTIFICATION HELPS



Continuous
improvement
of your HSPM
and
processes



Improve
performance
and bottom
line



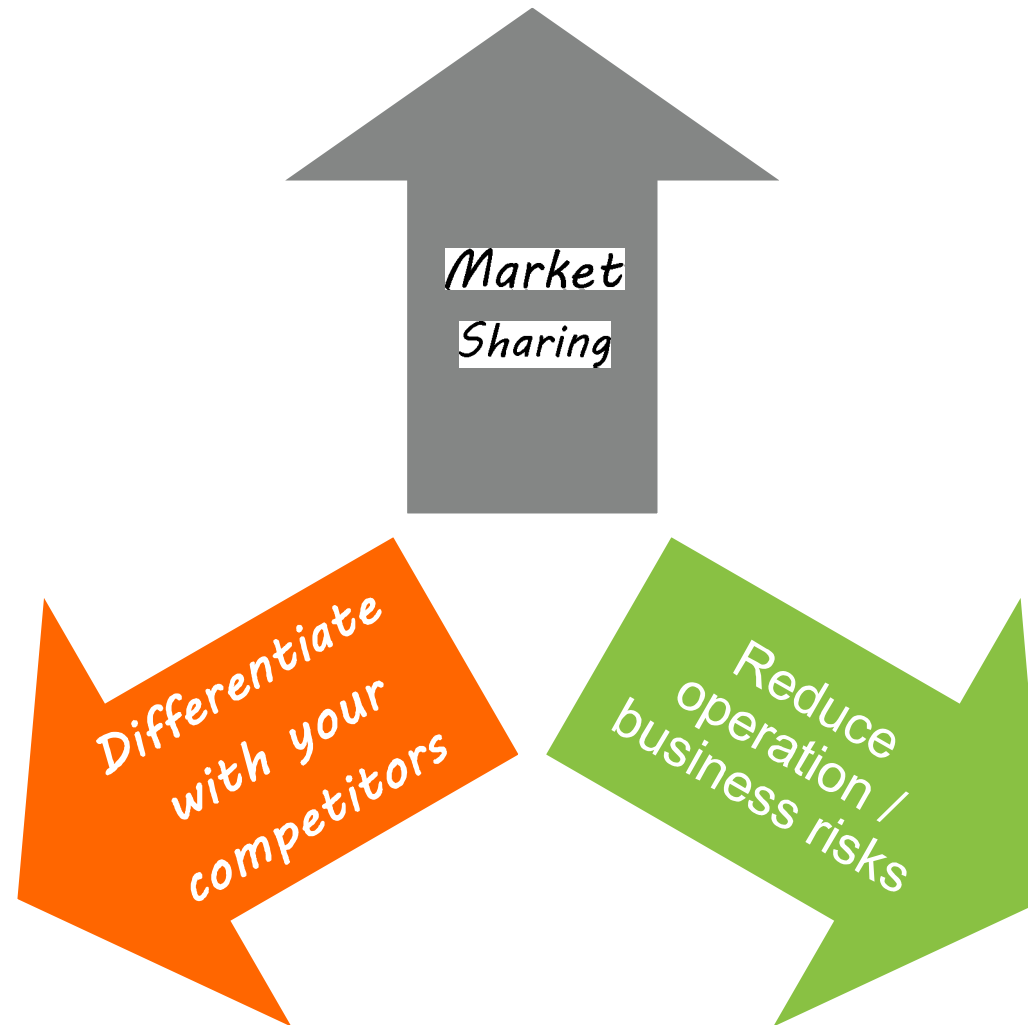
Improve
corporate
culture -
constant
improvement



Your HSPM
Certificate
demonstrates
high levels of
service
quality

Differentiate with your competitors
Reduce operation & business risks

WHY CERTIFICATION HELPS



BUSINESS RISKS – ACTUAL & POTENTIAL CONSEQUENCE

http://ec.europa.eu/consumers/safety/rapex/alerts/main/index.cfm?event=main.search

EUROPA - Consumer Affairs - Unsafe products - Windows Internet Explorer

http://ec.europa.eu/consumers/safety/rapex/alerts/main/index.cfm?event=main.search

Risk type	Product type	Year - Week	Ma. Ref.	Notifying country	Product (Click on the photo to enlarge)	Risk	Measures adopted by notifying country	Products were found and measures were taken also in:
Serious 	Consumer	2014 - 8	5 A12/0302/14	Slovenia	Category: Toys Product: Remote control toy car Brand: New Bright Name: Gymkhana Type/number of model: Set No. 3620 Batch number/Barcode: 050211036206 OECD Portal Category: 86000000 - Toys / Games Description: Car and remote control –set Country of origin: China 	Environment The product poses an environmental risk (chemical pollution) because the solders contain up to 0.36% lead. The product does not comply with the Commission Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2 Directive).	Voluntary measures: Withdrawal of the product from the market	

Done

Internet | Protected Mode: Off

100%

17:25
2014/9/26

ACCREDITATION BODIES, CERTIFICATION BODIES

Accreditation Bodies (AB)

- UKAS, CNAS, ANAB
- Accredited Scheme

Certification Bodies (CB)

- International CBs
- Local CBs

Certified Organisation

- Electrical Appliances, Electronics, Toys, Textile and Apparel, Plastics and Printing



World-wide Recognition

名副其实的全球认可 - 42个国家和地区41个认可委130项认证标准的认可

Europe / Africa / Middle East



41 Accreditations in 42 Countries



North and Latin Americas



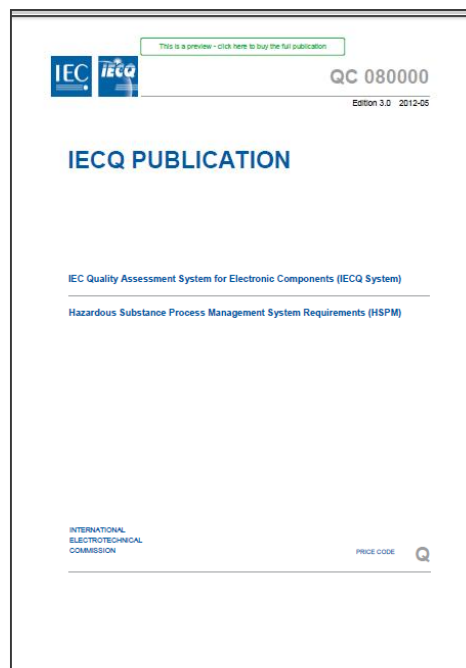
2005



2012



201X??



- High level structure
- Risk-base thinking

Go to the Official Webstore:

[http://webstore.iec.ch/webstore/webstore.nsf/ArtNum PK/46363?OpenDocument](http://webstore.iec.ch/webstore/webstore.nsf/ArtNum_PK/46363?OpenDocument)



IECQ QC 080000 STANDARD

The screenshot shows the IECQ Online Certification website. At the top left is the IECQ logo. To its right, the text "IECQ Online Certification" is displayed in a blue banner. Below this banner, the text "IEC System for Quality Assessment for Electronic Component (IECQ System)" is visible. A breadcrumb trail reads "IECQ Website > IECQ On-Line Certificate System". In the top right corner, a user is logged in as "IECQ Guest User" with a "Login" link. On the left side, there is a sidebar with a "CoC ONLINE" logo and a list of links: "certificates.iecq.org:", "i. home / search", "ii. IECQ website", "iii. Export data to Excel", "View by:", "i. Approved Process", "ii. Approved Component", "iii. ECMP - Avionics", "iv. IECQ HSPM Company", "v. Independent Testing", "vi. IECQ HSPM Training", "vii. Organization Approval", "viii. Approval Certificate", and "ix. CB Certificate Number". The main content area is titled "IECQ On-Line Certificate System [PUBLIC AREA]". It welcomes the user as "Anonymous [reader]" and states they have full access to public information. It prompts "CBs or NAs please login to create or edit certificates [Password Protected]" with a "Login" button. Below this, it lists the capabilities of the IECQ On-Line Certificate System: "IECQ CBs to issue new IECQ Certificates of Conformity 'On-line'", "Full Public access to consult, view and print issued IECQ Certificates", "View Statistical information", and "Export data to an Excel worksheet". It also provides contact information for the "IECQ Secretariat". At the bottom of the main area, there are two search fields: "Quick access:" with a text input and a "view certificate" button, and "Free text search:" with a text input and a "search" button. The "Quick access" field has a hint: "Type in IECQ ref. number (e.g.: 'Q-IECQ BSI 05.0020')". The "Free text search" field has a hint: "You can use boolean operators 'AND', 'OR' Includes IECQ CB certificate number".

IECQ Online Certification

IEC System for Quality Assessment for Electronic Component (IECQ System)

IECQ Website > IECQ On-Line Certificate System

IECQ On-Line Certificate System [PUBLIC AREA]

You are welcomed in as **Anonymous** [reader] and have full access to public information.

CBs or NAs please login to create or edit certificates [Password Protected] [Login](#)

The IECQ On-Line Certificate System enables:

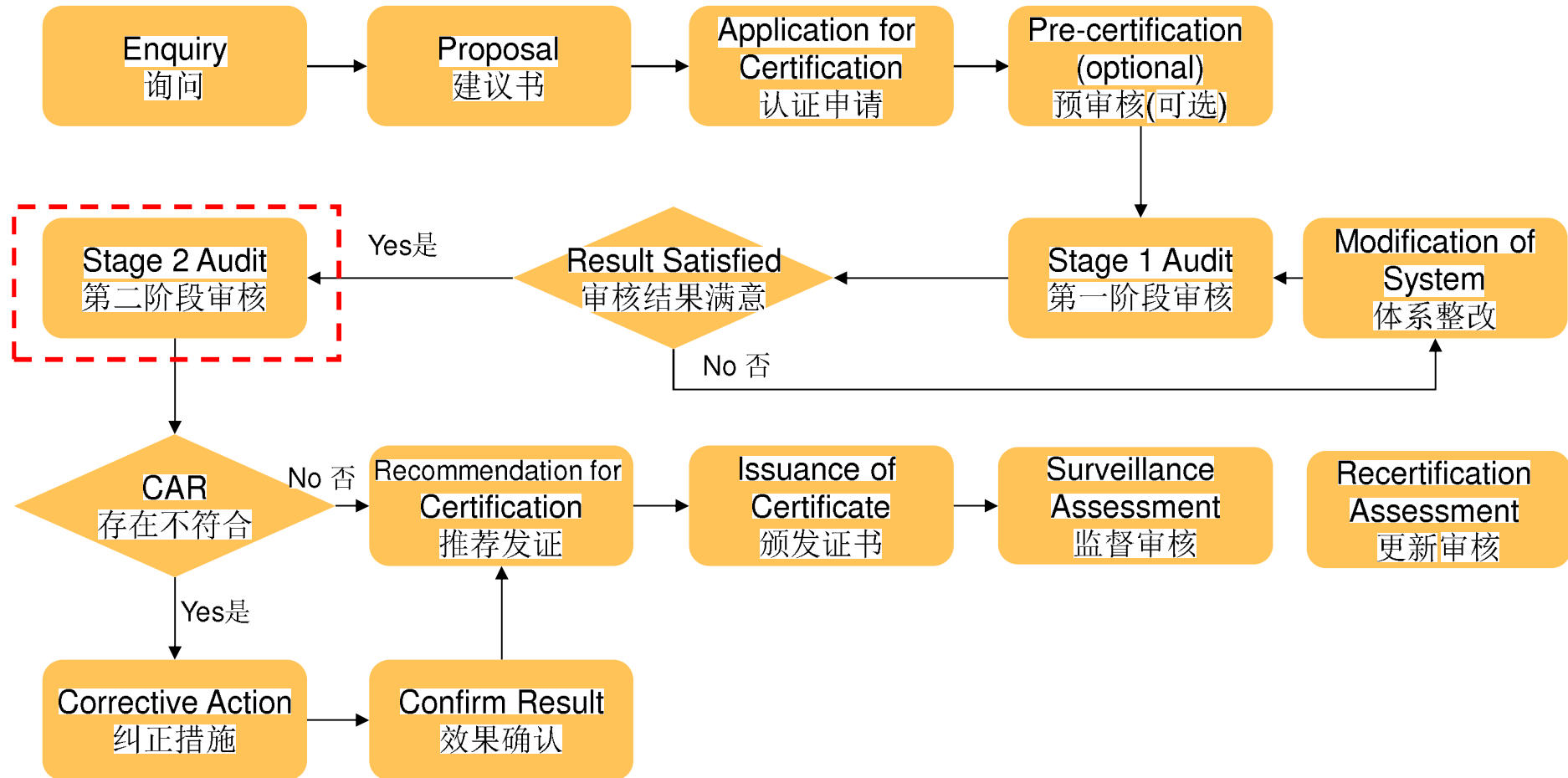
- IECQ CBs to issue new IECQ Certificates of Conformity "On-line"
- Full Public access to consult, view and print issued IECQ Certificates
- View Statistical information
- Export data to an Excel worksheet

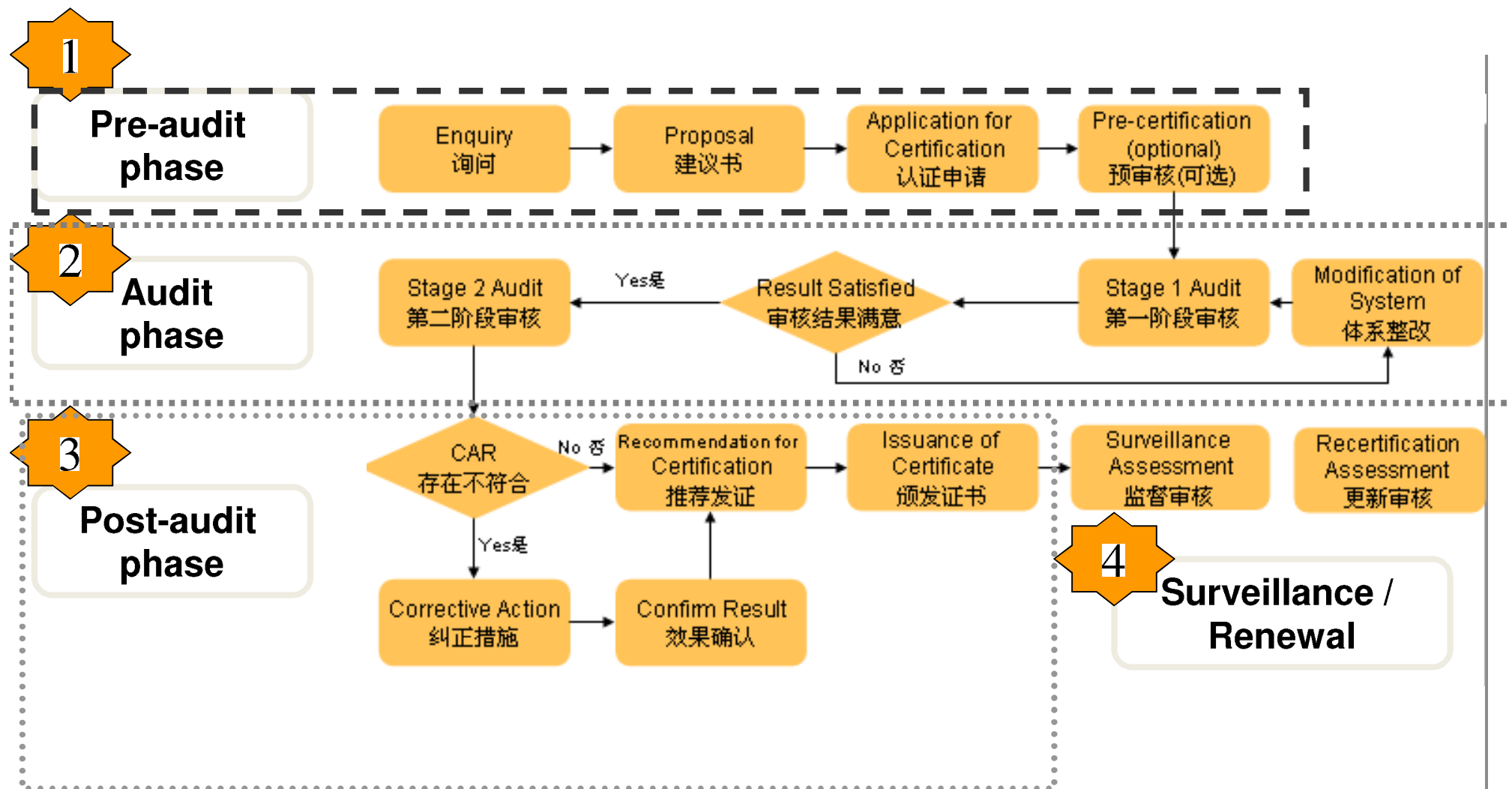
For any questions, please contact [IECQ Secretariat](#).

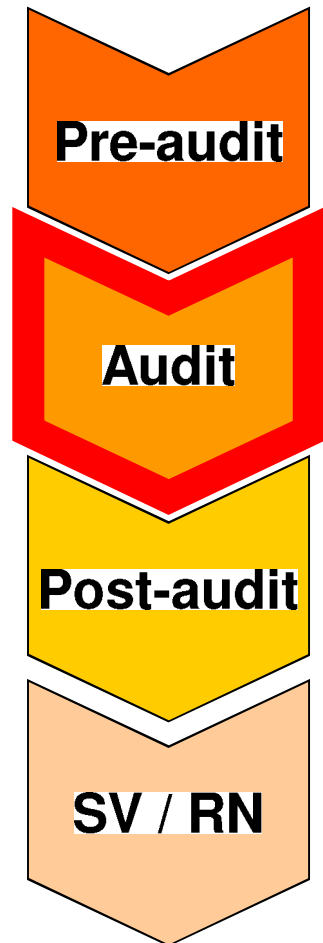
Quick access: [view certificate](#)
Type in IECQ ref. number (e.g.: "Q-IECQ BSI 05.0020")

Free text search: [search](#)
You can use boolean operators "AND", "OR"
Includes IECQ CB certificate number

Website: <http://certificates.iecq.org/>







Input(s)

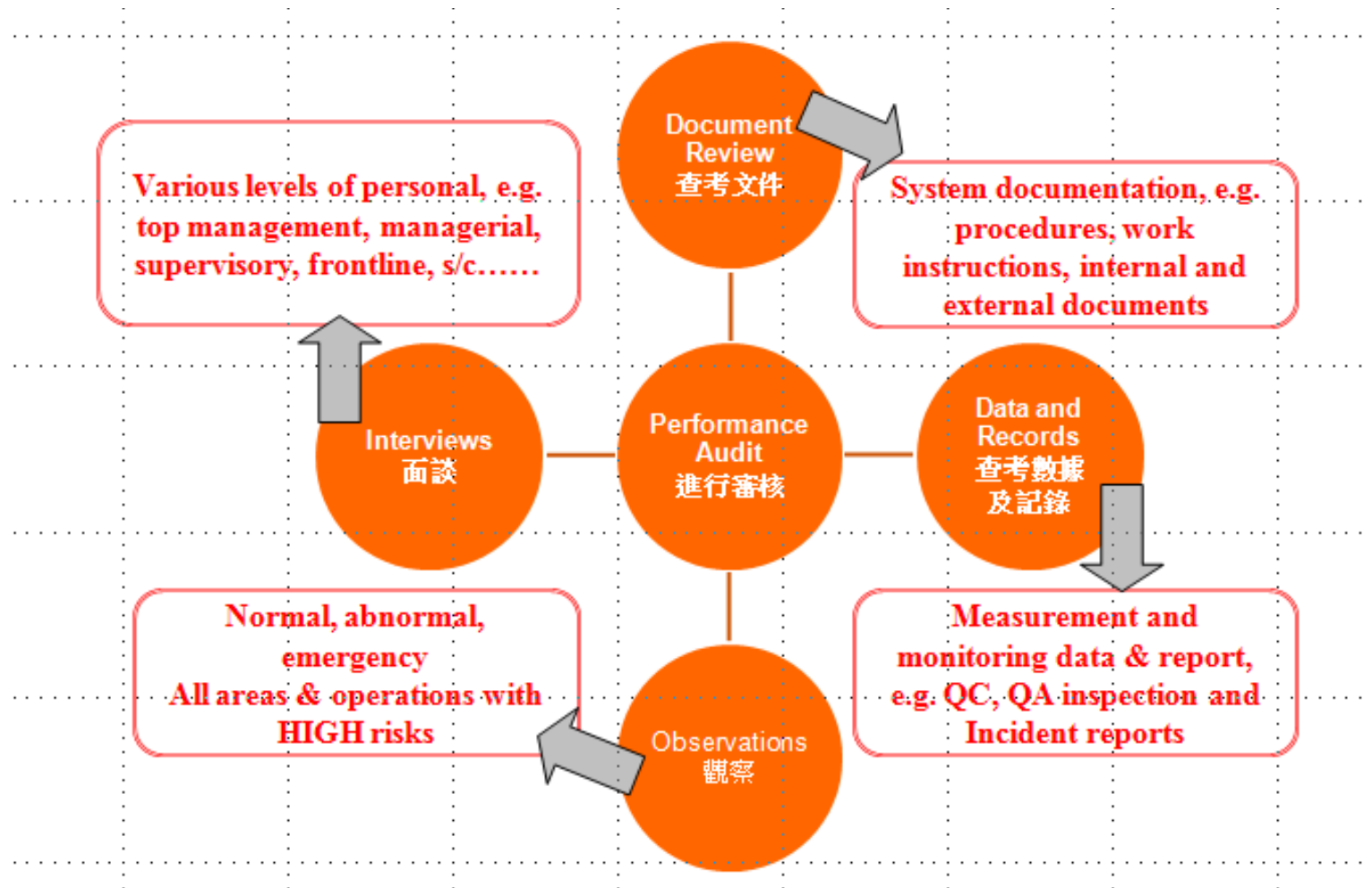
- Opening meeting
- Auditor meeting
- Audit evidence:
 - Interview,
 - Observation / demonstration,
 - Documents,
 - Records
- Sample collection & testing

Output(s)

- Findings consolidation and classification
- Non-conformance and opportunity for improvement

COLLECTING OBJECTIVE EVIDENCE

收集客觀証據





IECQ QC 080000 CERTIFICATION

Audit against
Standard and
regulations



Assessment
Report (NC
report)



Certificate

- QC 080000
- Industrial standards & requirements -
Electrical Appliances,
Electronics, Toys,
Textile and Apparel,
Plastics and Printing

The image shows a sample of an SGS Management System Certification Audit Summary Report. The report is titled "Management System Certification Audit Summary Report" and includes the SGS logo. It contains a table with the following information:

Target Item	Findings
Audit scope	
Product Conformity Certification Scheme	IECQ QC 080000, Parts One & Two EN ISO 9001:2000
Representative	
Order issued	
NR to Issue	NR to Issue
Lead auditor	Additional team member (s)

The report also includes a section for "1. Audit objectives" and "2. Scope of certification".

The image shows a sample of an IECQ Certificate of Conformity. The certificate is issued by the Certification Body (CB) and includes the IECQ logo. It contains the following information:

IECQ Certificate No.	Issue No.	Status
IECQ 080000 111111	1	Current

The certificate also includes the name of the organization, the scope of certification, and the date of issue.



ABOUT SGS GROUP

- World's leading inspection, verification, testing and certification company
- Experts at:
 - Providing competitive advantage
 - Driving sustainability
 - Delivering trust
- Over 75,000 employees, including:
 - Scientists, engineers, chemists, PhD experts , auditors and inspectors
- 1,500 offices and laboratories globally

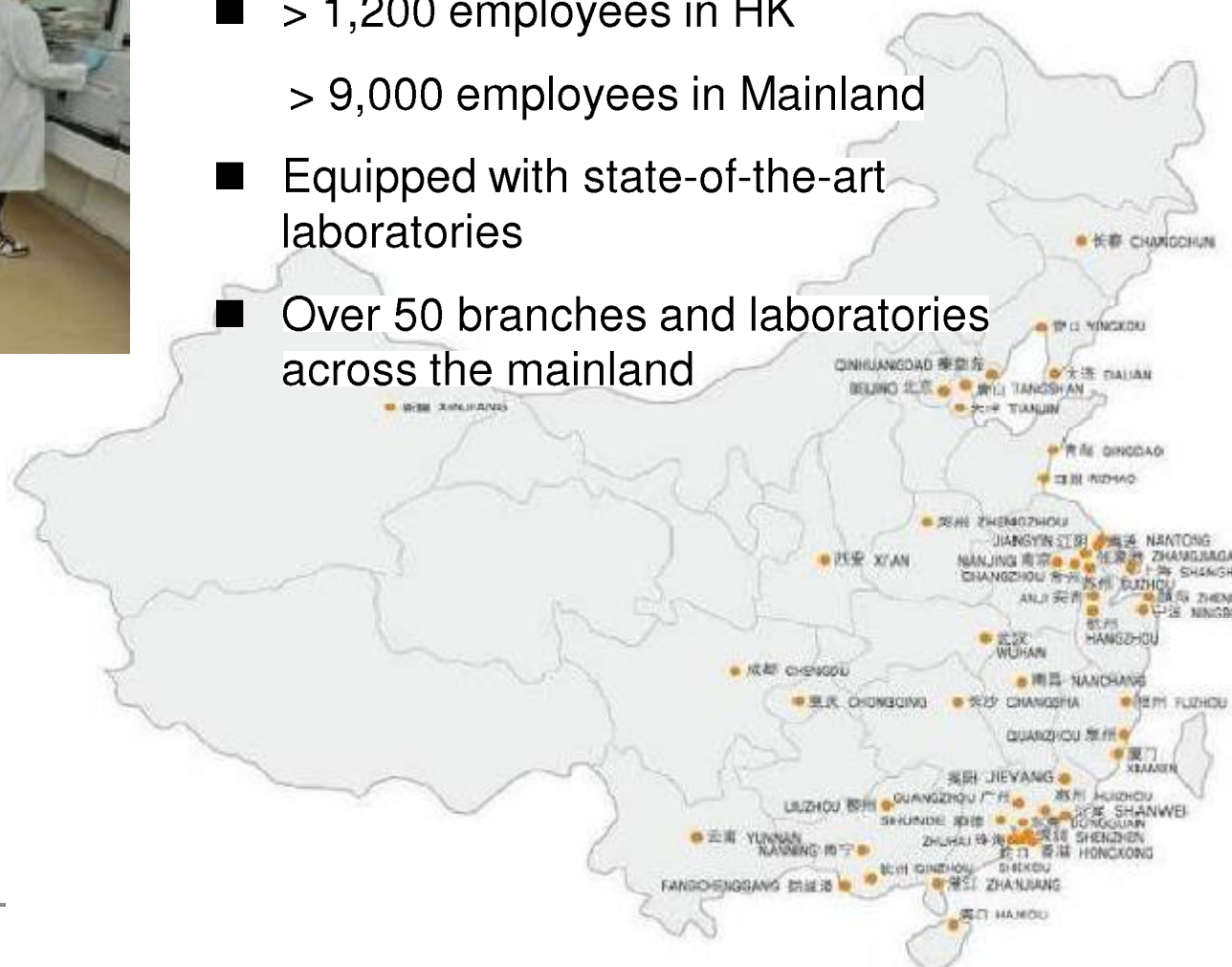




SGS IN CHINA & HONG KONG



- SGS Hong Kong Established in 1959, China in 1991
- > 1,200 employees in HK
> 9,000 employees in Mainland
- Equipped with state-of-the-art laboratories
- Over 50 branches and laboratories across the mainland





SGS GROUP DIVISIONS



**Consumer
Testing
Services**



**Agricultural
Services**



**Automotive
Services**



**Oil, Gas &
Chemicals**



**Industrial
Services**



**Life Science
Services**



**Minerals
Services**



**Technical
Staffing
Services**



**Systems &
Services
Certification**



**Environmental
Services**



**Trade Assurance
Services**



WHAT SGS CAN HELPS?



Certification



Inspection,
Testing &
Verification



Training





以上分享，希望讓各位更了解
有害物質管理體系



謝謝，並歡迎提問!

進一步有關有害物質管理體系查詢，歡迎聯絡我們：

SGS Hong Kong Limited
香港通用檢測認證有限公司
Systems & Services Certification, 國際認證服務部
<http://www.sgsgroup.com.hk>

Customer Hotline 客戶服務熱線:



: (852) 2765 3620



: (852) 2333 2257



: hk.ssc@sgs.com



利奧集團QC080000實施介紹

Albert Lee

General Manager

10th Oct, 2014

Leo Paper Group

成立日期

1982

總部

Hong Kong

生產基地

廣東鶴山

業務

提供制版，印刷及各類紙品生產的一站式服務



生產廠

雅圖仕
利奧包裝

國內/海外辦事處

U.K.
Europe
Italy
Shanghai
Seattle
New York

Heshan Astros Printing Ltd.

成立日期：1991

員工人數：15,000

總面積：666,700m²



已建立的管理體系：

- ICTI (2005)
- ISO9001(1998)
- OHSAS 18001:2007 (2004)
- ISO14001(2003)
- ISO27001(2005)
- GSV(2008)
- BRC (2005)
- **QC080000(2010)**
- FSC(2007)

17+ Product Categories



主要考慮的消費品法規包括：

- 國際及歐美的消費品通用法規
- 玩具類產品法規
- 食品類產品法規
- 少數化妝品類類法規
- 文具類產品法規等

Books

Trade Books
Children's Books
Educational Books
Pop-up Books

Gift Items

Greeting Cards
Card Boxes
Journals & Notebooks
Address Books
Calendars
Albums
Paper Bags
Gift Books
Gift Boxes

Games

Board Games
Playing Cards
Activity Sets
Puzzles

Packaging

Boxes
Toy Packaging
CD & DVD
Packaging

歐盟REACH法規

REACH

“**R**egistration, **E**valuation, **A**uthorization and **R**estriction of Chemicals；化学
品注册、评估、许可和限制”。这是欧盟对进入其市场的所有**化学品**进行**预防性管理**的法规，其涉及化学品生产、贸易、使用安全的法规，于**2007年6月1日**正式实施。

十大主要内容

- 预注册：
- 注册
- 注册问询
- 注册更新
- 接受注册评估
- 申请物质的使用授权
- 高度关注物质通报
- 供应链内信息沟通
- 危险物质/配制品限制
- 物质分类和标识通报

主要作用

確保產品無包含限制物質或**高度關注物料**，比如**重金屬、致癌物質、致畸等物質**

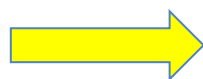


高度關注物質(SVHC-Substances of Very High Concern)：歐盟化學局定期公佈的，目前有**53種**，其具備**致癌、致基因突變**等高度危險的物質，其是此法規頒佈實施的重點控管對象。

消費品安全改進法案CPSIA

CPSIA: Consumer Product Safety Improvement Act 消費品安全改進方案

除对**儿童产品**实施更加严格的铅含量限制外，还对玩具和儿童护理品中的三种有害邻苯二甲酸盐(**DEHP、DBP、BBP**)下达了永久限令，对另外三种邻苯二甲酸盐(**DINP、DIDP、DNOP**)实施过渡期限令。另外，该法规增加了消费品安全委员会的预算，并扩大執法權利，**保護舉報者**，及要求某些兒童產品在進入市場前進行**第三方測試**等。



儿童产品：主要为**12岁**或以下儿童设计并生产的消费品



有害物質過程管理體系（QC080000）

IECQ QC 080000 HSPM

- 有害物質過程管理體系，在ISO9001基礎建立
- 全球通用，可供第三者認證單位作為認證依據的IECQ技術規範，以確認組織的有害物質的管理、減量及/或消除過程符合的標準
- 這個標準及其要求的建立是確保實現產品和生產過程中減免有害物質依賴於有效的綜合管理控制



註釋：

- IECQ=IEC Quality Assessment System for Electronic Components
- HSPM=Hazardous Substance Process Management System Requirements
- HSF =Hazardous Substance Free 有害物質減免
- HS =Hazardous Substance 有害物質

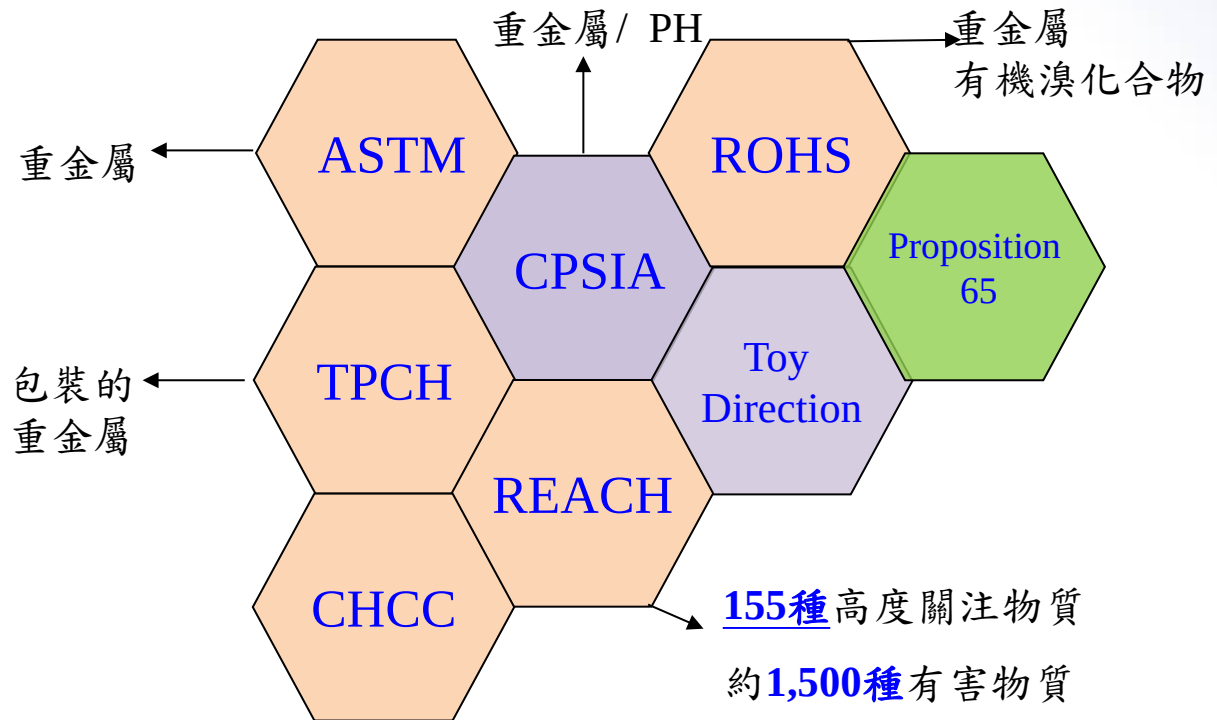


利奧集團推行QC080000背景

利奧集團實施QC080000的好處

- 了解並管控產品及過程上的有害物質
- 降低風險
- 降低測試成本, 提升競爭力
- 展現企業對有害物質的管理責任及努力
- 提高客戶滿意度
- 以國際認可的證書提升客戶/消費者信心

法律法規



*Proposition 65 本上為環保法規,但Leo Paper 將其納入產品安全管理制度之內。

利奧集團QC080000管理歷程

利奧集團IECQ QC080000認證歷程

- ✓ 2009年1月，利奧集團引入QC080000：
2005管理體系
- ✓ 2010年7月，獲得QC080000:2005認證

公司理念及價值觀

- ✓ 對客人的承諾：遵守法律及相關的國際標準，
抱著誠實、開放、公正的態度對待所有業務關
聯方；維護知識產權，信守對客戶之承諾。
- ✓ 對員工的保障：努力減少有害物質的使用，以
持續降低對環境的有害影響和人體健康危害。



利奧集團QC080000方針政策

QC080000管理方針:

源頭控制 過程防護 綠色印刷

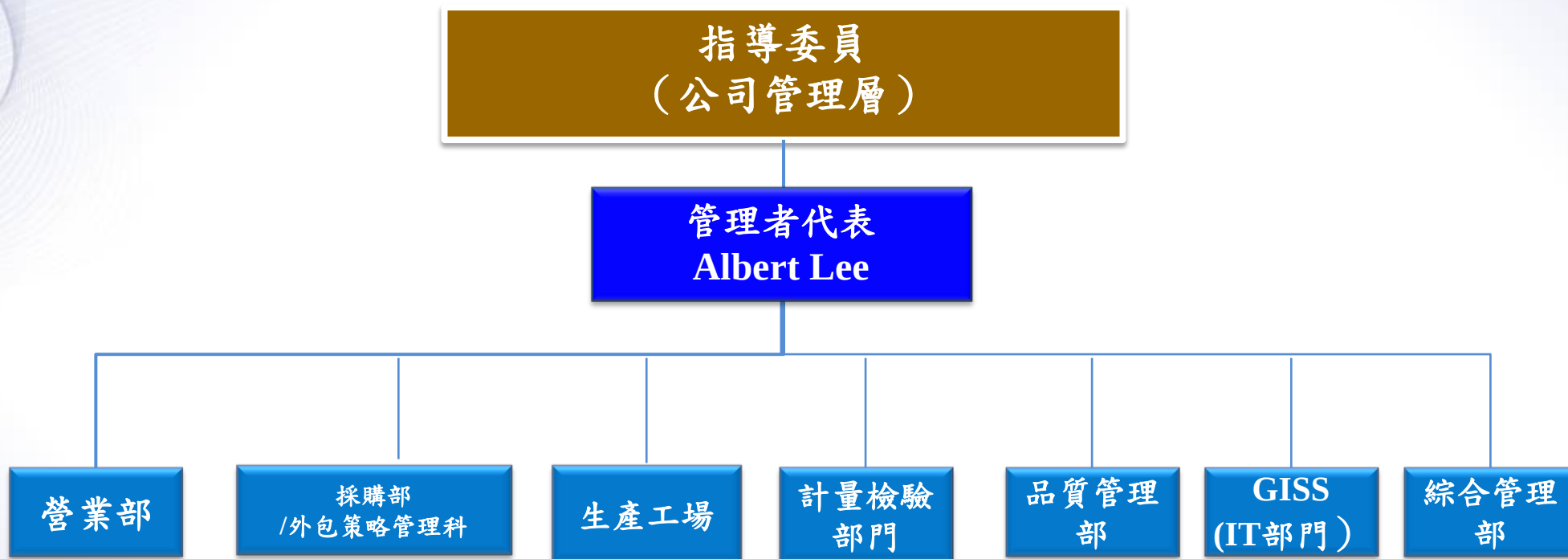
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QC080000有害物質減免行動綱領:

1. 持續收集國際法例/標準和客戶的產品安全要求，並轉化為內部控制標準
2. 努力減少有害物質的使用，以持續降低對環境影響和人體健康危害
3. 建立有害物質過程管理系統，確保加工產品符合法規及客戶的產品安全要求



利奧集團QC080000管理架構



利奧集團QC080000實施要點

控制點[1] 客人產品安全信息的收集

- 適用年齡
- 入口國法例
- 客人標準要求

BOM/BOS

安全測試要求
年度客戶滿意度調查
保證信 / 符合性聲明



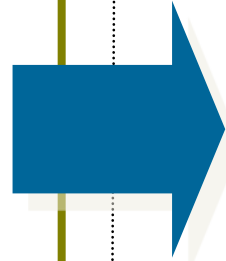
備注

除了按客人的要求及資料進行管理外，Leo Paper 亦具備專業的產品安全團險向客人主動提出安全設計及安全測試的方案。

利奧集團QC080000實施要點

控制點[2] 客人設計覆核

- 確定產品的結構
- 適用年齡
- 入口國
- 安排所需的測試



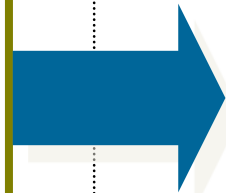
結構/設計改良建議



利奧集團QC080000實施要點

控制點[3] 物料研發、試用

- 測試報告
- MSDS或SDS
- 保證信或環保協議



物料/技術開發報告



進行全面的Chemical
Risk Assessment

目的

確保產品所使用的物料在研發試用階段已考慮其安全性

利奧集團QC080000實施要點

控制點[4] 物料採購

- 供應商管理方案策劃
- 供應商產品安全管控能力調查及評審
- 測試報告
- MSDS或SDS
- 保證信或環保協議
- 變更管理確認書
- 生產物料/配件風險的安全評估



供應商評估報告
物料風險等級評估表
一般認可物料清單&安全數據表



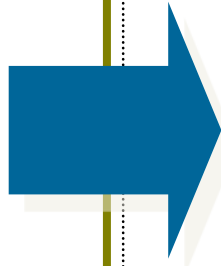
目的

確保整個供應鏈共同努力進行有害物質減免活動

利奧集團QC080000實施要點

控制點[5] 倉庫收貨標識及存儲

- 送貨單
- 有害物質減免標識
- 檢查物料包裝/數量
- 測試報告/保證信
- 物料風險等級評估表



倉庫收貨報告

安排測試抽樣

物料標籤

分區存儲

不合格品的處理跟進

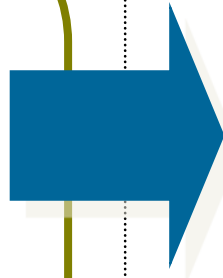
目的

確保有害物質不被誤用

利奧集團QC080000實施要點

控制點[7、8、9] 制程控制—廠內生產

- 防污系統設計
- 追溯系統設計
- 生產工程單
- 所用物料標籤
- 機台設備/產品的安全測試報告
- 機台設備、生產線及環境的清潔及維護



物料及半成品的分區存放

產品生產追溯性記錄的記錄及保存

機台設備及工用具有害物質減免標識

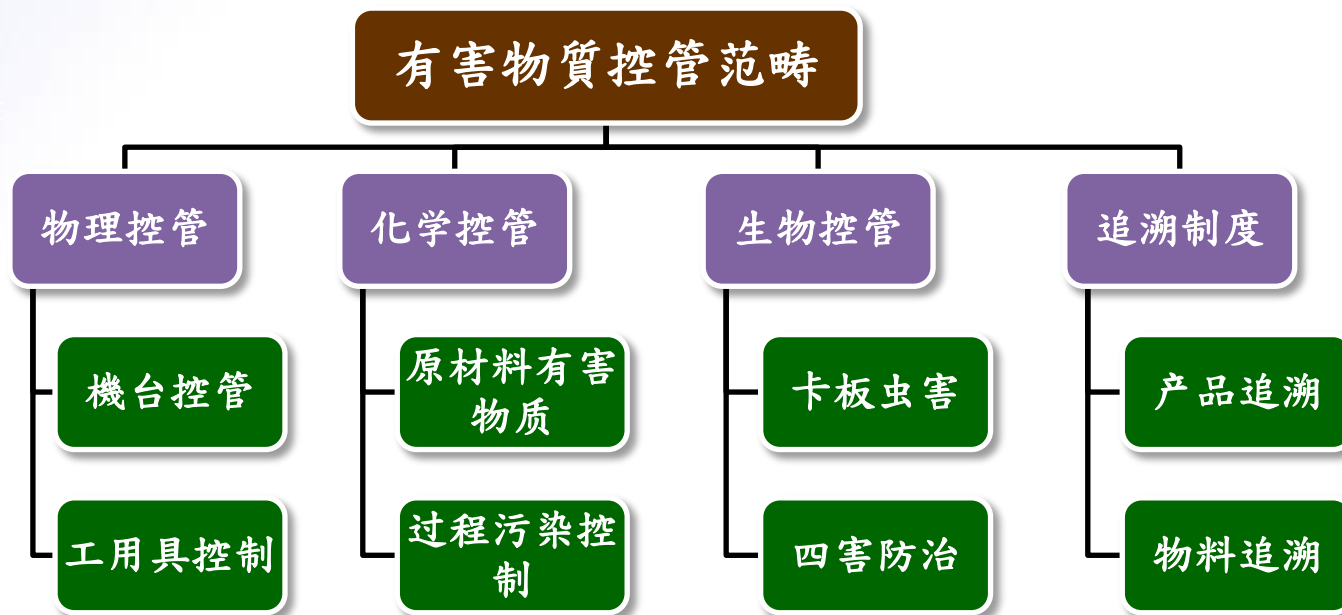
污染源調查及評價表/風險評估表

清潔及維護記錄

目的

防止交叉污染
確保物料可追溯性

有害物质管理体系-QC080000



- ★使用HSF机台设备；
- ★只使用白布擦拭产品或可能与产品直接接触的机台部位（尤其是有溶剂接触的部位）
- ★接触溶剂类的生产工具采购控管

各工场在加工过程中确保：

- ★领用正确的物料，且在有效期内；
- ★所有物料满足相应的测试要求
- ★严格按照污染源调查及评价表的内容进行作业

- ★不得在工作场所进食
- ★不得在车间种植
- ★垃圾桶须加盖
- ★厂区和生产区无积水
- ★维护虫害防治设施，如胶帘/纱窗/升降门等
- ★发现虫害，立即通知

- ★如实地记录产品使用的物料与来源，以及所经过的加工工序、时间、人员、机台、工具等；
- ★做好记录的保存



利奧集團QC080000實施要點

控制點[7、8、9] 制程控制—外發加工

物料採購

- 測試報告
- MSDS或SDS
- 保證信或環保協議
- 變更管理確認書
- 供應商產品安全管控能力調查及評審
- 生產物料/配件風險的安全評估

生產過程控制

- 生產工程單
- 所用物料標籤
- 機台設備/產品的安全測試報告
- 機台設備、生產線及環境的清潔及維護

目的

供應商評估報告

物料風險等級評估表

一般認可物料清單&安全數據表

倉庫收貨報告

安排測試抽樣

物料標籤

分區存儲

不合格品的處理跟進

物料及半成品的分區存放

產品生產追溯性記錄的記錄及保存

機台設備及工用具有害物質減免標識

清潔及維護記錄

防止交叉污染
確保物料可追溯性

利奧集團QC080000實施要點

控制點[6.10.11] 物料檢驗及測試

- 根據適用年齡、入口國法例、客人標準
- 物料風險等級評估表
- 來料的有害物質減免標識
- 一般認可物料清單&安全數據表



物料配件來料驗貨報告

制程驗貨報告

成品驗貨報告



目的

抽樣檢查確保來料、半成品及成品的安全性



利奧集團QC080000實施要點

控制點[12、13、14] 標準流程/指引/內外部監察

- 標準流程和制度的建立
- 定期的內審
- 每年的管理評審
- 年度的召回追溯演練

ISO流程文件
內部評審報告
管理評審報告

目的

確保系統按PDCA模式持續改進
過程績效

其他產品安全管理措施

- CPSC 認可的實驗室（快速及較大批量的檢驗）
- 全面的審單程序
- 全面物料MSDS資料庫及掃描程式



其他產品安全管理措施

認可實驗室進行產品測試

- LEO-MTS是中國合格評定認可委員會(CNAS)認可實驗室及獲得美國消費品委員會CPSC注冊認可，成為CPSC認可實驗室，檢測報告具有國際公信力。(CPSC Identification Number: 1331)
- LEO-MTS 提供消費品檢測、有害物質檢測、玩具及相關產品安全性檢測、材料成份分析、工業儀器教準等。



全面審單程序

[1] 報價單初步審單 -

- 出報價單- 跟客人確認初步審單結果及測試項目
 - 產品結構審核 (白樣測試)
 - 初稿BOM
- [2] 訂單確認
- 最後審單
 - 客人最後確認訂單
 - 樣品送認可實驗室進行測試
 - 檢查測試報告合格

[3] 出貨

檢查所需測試報告合格及齊全
出正式BOM

全面物料MSDS資料庫及掃描程式

LEO PAPER GROUP

B2B 物料訂購系統

供應商: 霸菱
用戶名: fungli-李南芳

BOM Version: 3 SO No: S1210805 公司參考編號:
銷售單性質: NO 產品類別和描述: BOX BOX ALL KIND SKU No:
營業組別: EUROPE OFFICE'S 負責營業員: ELENAQIU SO狀態: Finished
客戶SNC: HACHE 客戶名稱: Hachette Jeunesse 起貨日期: 30/06/2012
SO 訂單數: 15000 Program (英文): * Boite a questions Histoire 產品名稱(英文): * Boite a questions Histoire
產品內容(英文): Publisher Name: * Hachette Jeunesse
ISBN: 978-2-01-393764-1 Factory Address: * HESHAN ASTROS PRINTING LTD, Industrial Development Area, Xijia
Supplier Name: * Leo Paper Product Product Weight(g): 485.0000 Completed Date:
Completed By: Job Title:
選擇Excel類型: PIPS
[保存] [取消] [匯出Excel] [產品BOM & BOS確認] [重新計算紙重量] [重新抽取系統產品使用物]

Add Component

操作	上欄	序號	SDS狀態	測試要求	測試證書	物料編號	物料內容	Component T
編輯 刪除 查看	☐	1				PCBP183N4213269DFR	1.83MM, 1100GSM, 厚灰板 紙, 42.13"X26.89"(1070MM X 683MM) SG.DONGFA (東發)A組掛圖板遊戲板	140.147108
編輯 刪除 查看	☐	2				RGLU00400098	白膠、膠水、牌子、寶利、型號: AF-606A1, 包 裝: 200KG桶	0.666667



Thank You

Topic : 玩具業的新挑戰：化學安全

1 History (Cause & Effect)

2 Industry updates

3 Chemical Requirement

4 Solutions



Presented By Simon Lum
Business Director

Topic : 玩具業的新挑戰：化學安全

A Video “A poisonous affair” (**Barbie 感染了鉛毒**) was uploaded to You-tube which got over 6.6million views since 2007, arouses serious concern by the US consumers on imported toys from China with dangerous level of Lead



<http://youtu.be/cChD9K-5QKI>

Topic：玩具業的新挑戰：化學安全

If we can still remember these crises....

- 1/ 廣受歡迎的中國木製「湯馬士小火車」(Thomas & Friends)玩具，因為部分可能**含重金屬鉛**，**美國宣布回收超過100萬個**有關玩具。
- 2/ 全美最大玩具商美泰就回收中國製**有問題玩具**，**與39個州達成和解協議**，**賠償1200萬美元**。
- 3/ 美國宣布**回收50萬件中國製兒童金屬首飾**，**指飾物含鉛量超標**。回收首飾包括數款手鍊及鎖匙扣，分別在兩間廉價玩具連鎖店發售。
- 4/ 跟進繼澳洲後，美國當局昨宣布**回收約420萬件另一品牌的珠仔玩具「AquaDots」**，指珠仔表面可能**含有轉成迷姦水的有毒化學品**，兩名兒童吞了珠仔後昏迷送院。
- 5/ 港商的工廠玩具**油漆鉛含量超標**而需召回、導致**經濟損失3,000萬美元(逾2.34億港元)**在自己的**工廠倉庫上吊身亡**



www.metrohk.com.hk
2008-08-14

玩具回收蝕 2 億 港商自縊亡

一名在廣東佛山投資製造玩具、在打工仔眼中的「好好港商」，日前竟然在自己的工廠倉庫上吊身亡。噩耗傳出，打工仔驚愕、傷感不已。事發後，佛山公安部門已經介入此事調查，了解港商自縊原因。目前，初步懷疑港商的工

www.metrohk.com.hk
2007-06-15



廣受歡迎的中國木製「湯馬士小火車」(Thomas & Friends)玩具，因為部分可能含重金屬鉛，美國宣布回收超過 100 萬個有關玩具。「湯馬士小火車」的本港代理表示，已要求本港零售商回收有售的 14 款「湯馬士小火車」玩具。

根據美國消費委員會指出，約有 1 萬件玩具和其他火車玩具。對於委員會指含鉛玩具最危險，本港如果長期接觸含鉛玩具，嚴重本港玩具反斗城安排市民退款。■(都市)



www.metrohk.com.hk
2007-11-23

含鉛 美國宣布回收 50 萬件中國製兒童金屬首飾，指飾物含鉛量超標。回收首飾包括數款手鍊及鎖匙扣，分別在兩間廉價玩具連鎖店發售，約賣 1 美元。此外，日本三好商事公司在中國生產的一種植物保護液，在日本驗出含有劇毒農藥阿巴克丁，宣布在日本全國回收，保護液名為「Agrikur」，10 年前起在日本主要通過代理商銷售，過去 3 年售出 4 萬多樽。(都市)

協議 全美最大玩具商美泰就去年回收中國製有問題玩具，與 39 個州達成和解協議，賠償 1200 萬美元。美泰發表聲明，承諾會加強保障兒童安全，並已採取措施令玩具安全標準，較美國當局規定的更嚴格。各州會將該筆款項，用作加強教育消費者注意玩具安全的意識。美泰去年回收逾 2100 萬件中國生產玩具，主要因含鉛量過高，及易有細小組件鬆脫。(都市)

Topic : Problems in Toys supply Chain

In factories

1. Documents are filed manually, impossible to search and update.
2. Difficult to maintain, trace and audit End Products' BOM.
3. repeated work for product under multiple compliance rules.
4. Impossible to tell the impact by a simple change in Rules.
5. Disconnect to ERP
6. Difficulties in managing suppliers
7. No data , no history and no analysis
8. Manual driven process affected by staff quality
9. Lack of standard (SDS, BOM, BOS etc)

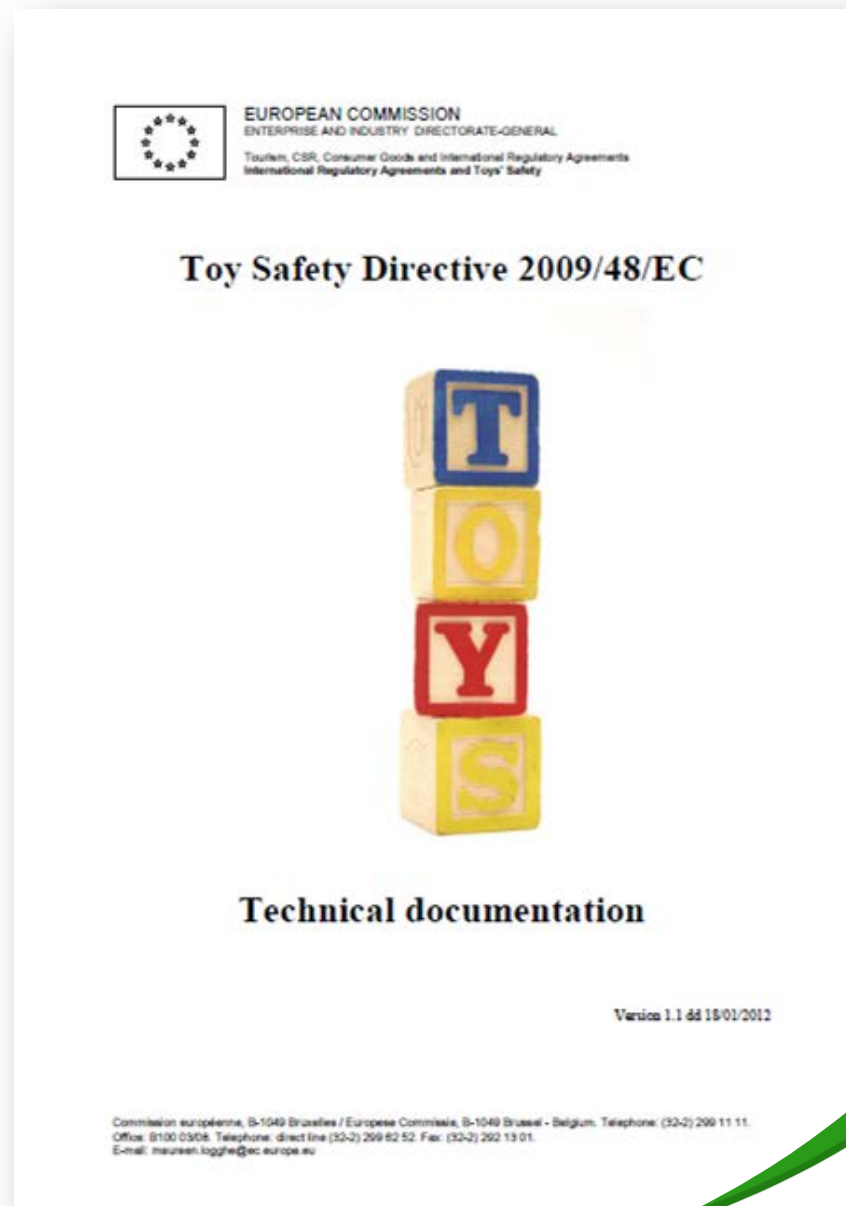


What brands and buyers need

1. Transparency in supply chain
2. Automated process
3. A simple tools to assess submitted information (expiry, compliance)
4. Good factory standard (internal process, knowledge, etc)
5. Data mining
6. own tools to manage its own compliance
 - manufacturers' full responsibility
 - nth years of storage
 - sensitivity to new Rules and SVHC/CMR ...



Topic : Chemical Requirement



Time table for Toys Safety Directive 2009/48/EC

New Directive
2009/48/EC came into
force.

Member States
applying the new
measures.



we are
here.....

The new Toy
Safety Directive
2009/48/EC
was published.

Became a legal
document in all
EU Member States.

Effective

Topic : Chemical Requirement

Chemical Requirements



TSD 2009/48/EC

- The new Directive brings in more references on chemicals by limiting the amounts of certain chemicals.
- 19 heavy metals are regulated with tight migration limit.

Chemical Requirements



TSD 2009/48/EC

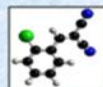
- ✓ CMR substances are no longer allowed in accessible parts of toys.
- ✓ Allergenic fragrances are not allowed. Strong allergenic potential fragrances have to be labeled.

Dr. Vincent Tam

November 14, 2011

3

Chemical Requirements



TSD 2009/48/EC

- ✧ Require comprehensive chemical data:
 - ⇒ Bill of substance (BOS)
 - ⇒ Safety data sheet (SDS)
- ✧ Conduct chemical safety assessment.

Chemical Requirements



REACH



- ⊛ Chemical & safe use information.
- ⊛ Chemical risk management.
- ⊛ SVHC : Current 53 substances.

Document to be managed and stored for 10 years...

- **Product Description**
- **Design (circuit board)**
- **Review Minutes**
- **Test Plan**
- **Product approval notice**
- **Safety assessment**
- **Conformity assessment**
 - Process
 - Audit report
 - Test report
- **Complaint Registry**

****For every product**

- **Bill of Material (BOM)**
- **Bill of Substance (BOS)**
- **Safety Data Sheet (SDS)**
- **Chemical Safety Assessment (CSA)**
- **Declaration of Conformity (DOC)**
 - Parts, components, material
 - HE, ROHS, REACH, PH.....
- **Test Report**
 - product , material , component
 - purchased material , process
 - HE, ROHS, REACH, PH.....

****For every part, material or component**



Chemical Requirements Challenge

- ❑ Many chemicals are being regulated:
 - ☹ Number of CMR : 300+ substances.
- ❑ New chemicals are being added everyday:
 - ☹ SVHC : 2,000+ potential candidates.
- ❑ Very low limit on many chemicals.

Chemical Requirements



- ★ Washington's Children's Safe Products Act;
- ★ Maine's Kid's Safe Products Act amendment;
- ★ California's Green Chemistry Initiative - Safer Consumer Products Regulations.

Topic : Chemical Requirement

Group	Before	Today
REACH	53	155
CMR	300	1470
Heavy Element (EN71)	8	19



Topic : Chemical Requirement

EPA United States Environmental Protection Agency

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Green Chemistry Contact Us Share

Basics of Green Chemistry

On this page:

- [Definition of green chemistry](#)
- [How green chemistry differs from cleaning up pollution](#)
- [Green chemistry's twelve principles](#)
- [Twelve principles of green chemistry bookmarks](#)
- [Green chemistry's roots in the Pollution Prevention Act of 1990](#)

Definition of green chemistry

Green chemistry is the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances. Green chemistry applies across the life cycle of a chemical product, including its design, manufacture, use, and ultimate disposal. Green chemistry is also known as sustainable chemistry.

Green chemistry:

- Prevents pollution at the molecular level
- Is a philosophy that applies to all areas of chemistry, not a single discipline of chemistry
- Applies innovative scientific solutions to real-world environmental problems
- Results in [source reduction](#) because it prevents the generation of pollution
- Reduces the negative impacts of chemical products and processes on human health and the environment
- Lessens and sometimes eliminates hazard from existing products and processes
- Designs chemical products and processes to reduce their intrinsic hazards

EPA's Rich Engler on Green Chemistry

This p

• Make sure th

• Designs chemical products and processes to reduce their intrinsic hazards

• Lessens and sometimes eliminates hazard from existing products and processes

• Reduces the negative impacts of chemical products and processes on human health and the environment

• Results in [source reduction](#) because it prevents the

Confidential Information. All Rights Reserved

Topic : 玩具業的新挑戰：化學安全



Topic : Solutions



Attentive
警覺性

Traceable
可追蹤性

Adaptable
適應性

Proactive
主動性

Topic : 玩具業的新挑戰：化學安全



Topic : 玩具業的新挑戰：化學安全



Topic : Solutions



Low cost & no investment



High Connectivity



With Industrial Standard



High usability (easy to use)



They make
Safe toys with  CMD



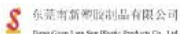
香港玩具協會
Hong Kong Toys Council



CANSUM INDUSTRIES LIMITED
CANSUM ELECTRONICS LIMITED



Early Light Industrial Co., Ltd.



Leannie



Lezhou



Main Success



Pacific Industries Limited



浩和實業有限公司
WHOLE WORLD IND LTD



WINSON 泰強

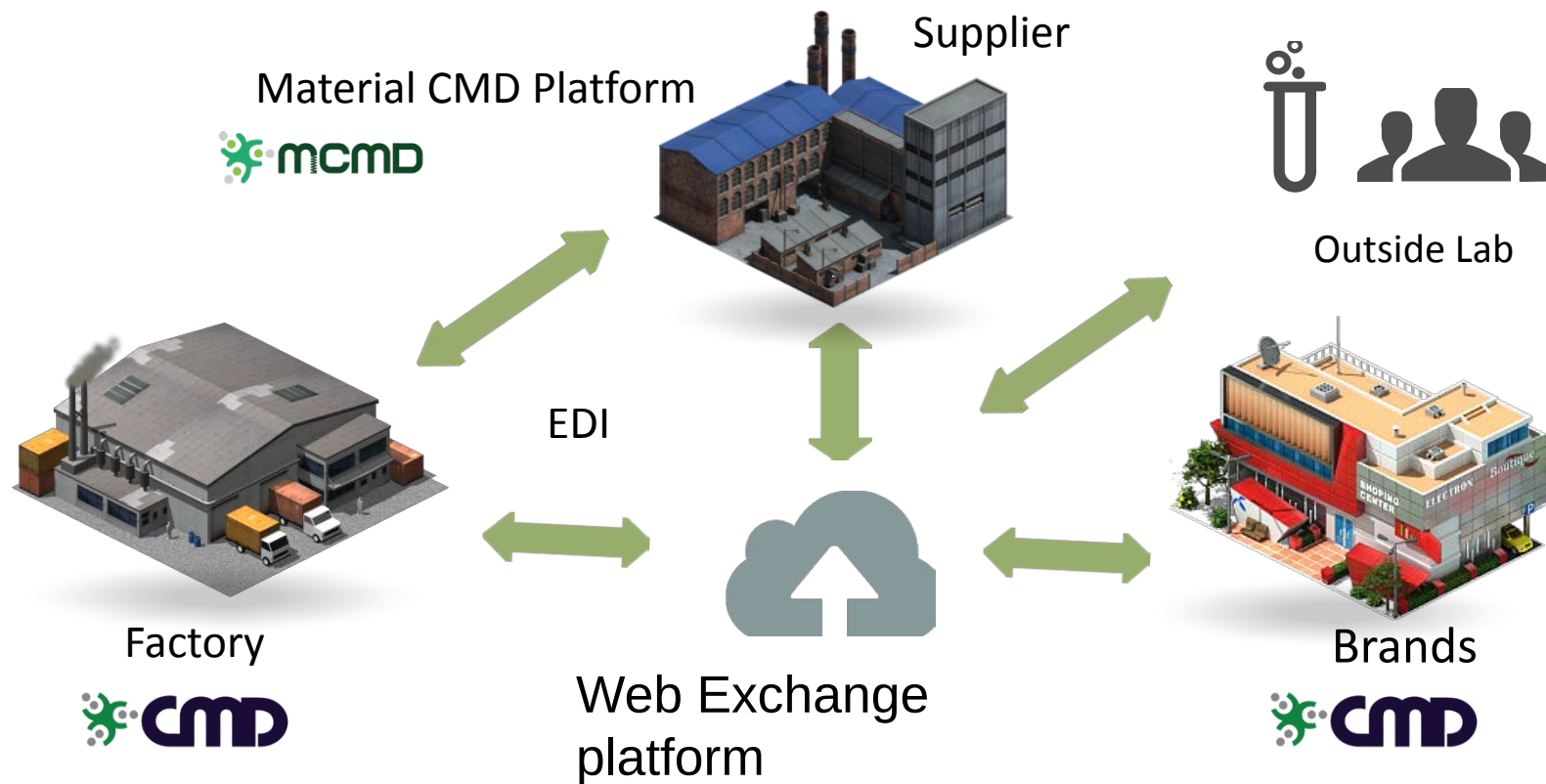


CMD

Chemical Management Database (Industry Solution since 2011)

- ✓ 8 brands (3 out of 5 world's top brands ..)
- ✓ 135 factories ;
- ✓ 200+ material suppliers;
- ✓ HKTC standard BOS / mBOS format ;
- ✓ CMD recommended by
- Disney

CMD Vision: One Industry, One System




Data sharing
(via web folder)


Customize BOM,
BOS format


Substance
on Watch


Data
mining


10 years
e-filing


Chemical Safety
Compliance

Topic : Solutions for Today and Future



Topic : Solutions for Today and Future

With CMD
I have my safe toys



Please Contact us at:

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Room 408, Eastern Centre,
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Tel : (852) 3188-9933 Fax : (852) 3188-9940
Email : cmdsales@dynasys.com.hk

Shenzhen, PRC
Room 14B, Building 2, China Phoenix Building,
2008 Shennan Road, Futian District,
Shenzhen, China 518026
Tel : (86) 755-2394 4415

<http://www.cmd-system.com>



DYNASYS
SOLUTIONS

Improve the capacity for controlling hazardous substances

提升产品有害物质化学品的管理

Speaker: Simon Jing/景春锋

Date: Oct10,2014



Contents

1

Company Introduction/公司简介

2

IECQ HSPM in TONLY/ IECQ HSPM在通力

- Why apply the HSPM?/为什么建立HSPM
- HSPM running mode/HSPM工作模式

3

Acknowledgements/感谢



TONLY Key Events

- To cooperate with Philips, and offering DVD products in June.
- TCL AV Business Unit formerly known as TCL strategic OEM.

2001

2004

- The first type of DVD Record designed for Philips was delivered

- TCL Home Networking BU was organized by amalgamating resources of DVD and STB

2006

2007

- Entered the DPF business.
- Got STB business in Jilin, Neimenggu province.

- Blue-ray DVD product MP
- Portable DVD product MP

2008

2009

- 21 million DVD were sold, and revenues were 3.2 billion RMB in 2009.

- Since the development of the business, Business Unit name changed to "TCL AV Business Unit"
- HTS (Home Theater System) product MP.

2010



通力发展里程碑

- 与Philips开始战略合作, 同年6月开始提供DVD产品
- TCL AV事业部的前身是TCL战略OEM

2001

- 为Philips设计的第一款DVD Record (刻录机) 开始交货

2004

- TCL集团整合DVD、机顶盒等产业资源, 成立TCL家庭网络事业部

2006

- 在吉林、内蒙古的机顶盒项目招标成功, 全面开展机顶盒产品业务

2007

- BD产品 (蓝光DVD) 顺利量产出货
- Portable DVD产品 (便携式DVD) 顺利量产出货

2008

- DVD产品年出货量达2千万台, 销售额突破32亿人民币

2009

- 根据业务发展需要, 事业部名称更改为 “TCL AV事业部”
- HTS产品 (家庭影院系统) 开始量产出货

2010



TONLY Key Events

2011

- The new factory of “TCL AV Business Unit” was founded.
- Won the honor Leading enterprises of excellent traditional industries, Guangdong Province

2012

- Xi'an TCL Software Development Company Limited was set up.

2013

- July,2013 The new offices and factories are relocated to No.37 Zhong Kai Hi-tech Zone residential, the better working conditions and manufacturing equipments are utilized.
- 15th, August, 2013 Stock being listed in Hong Kong, stock code is HK: 1249



通力发展里程碑

2011

- 获广东省优势传统产业转型升级龙头企业殊荣
- 新工厂正式奠基，提高工业自动化、信息化

2012

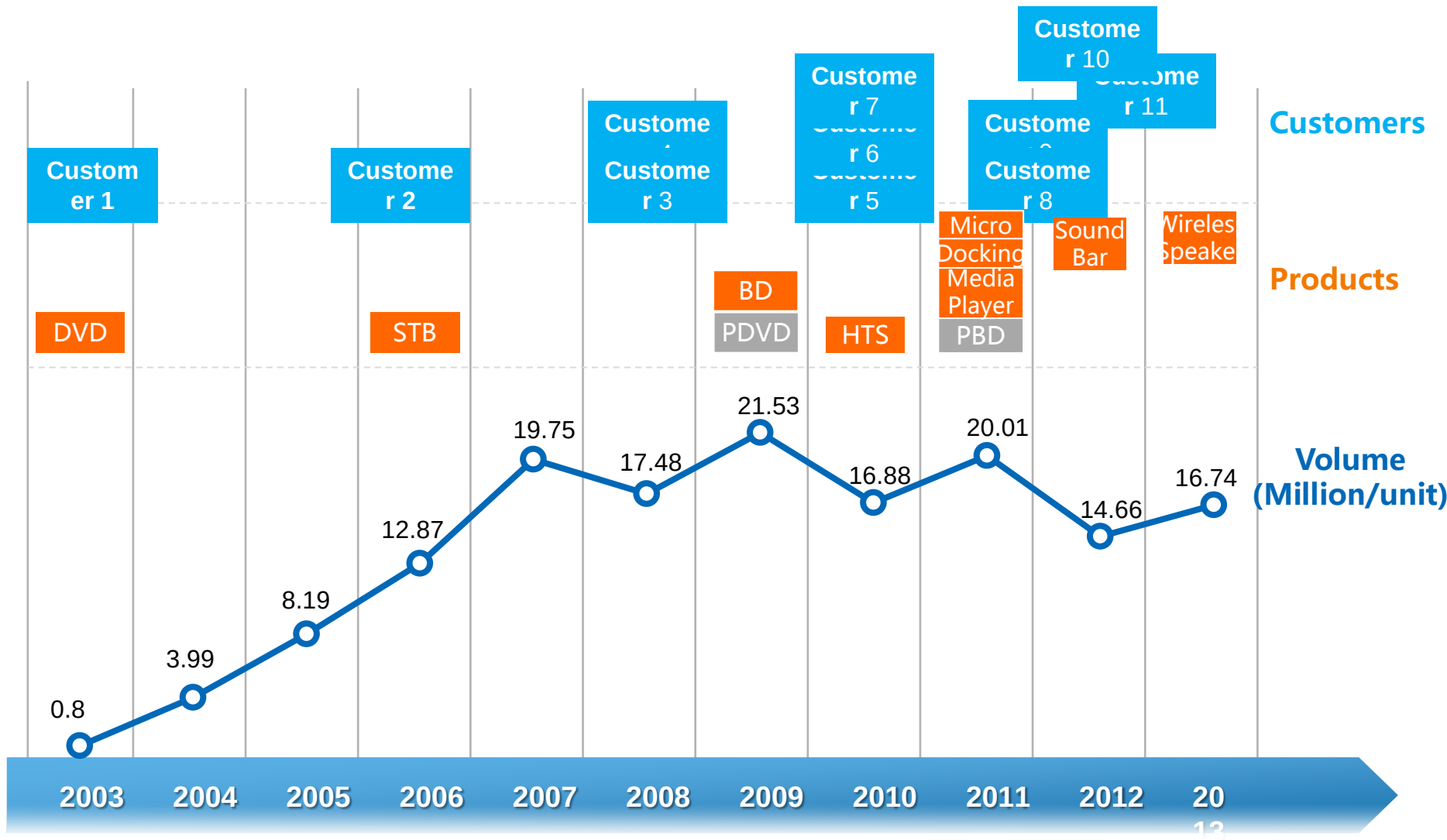
- 2012年3月29日，成立西安TCL软件开发有限公司

2013

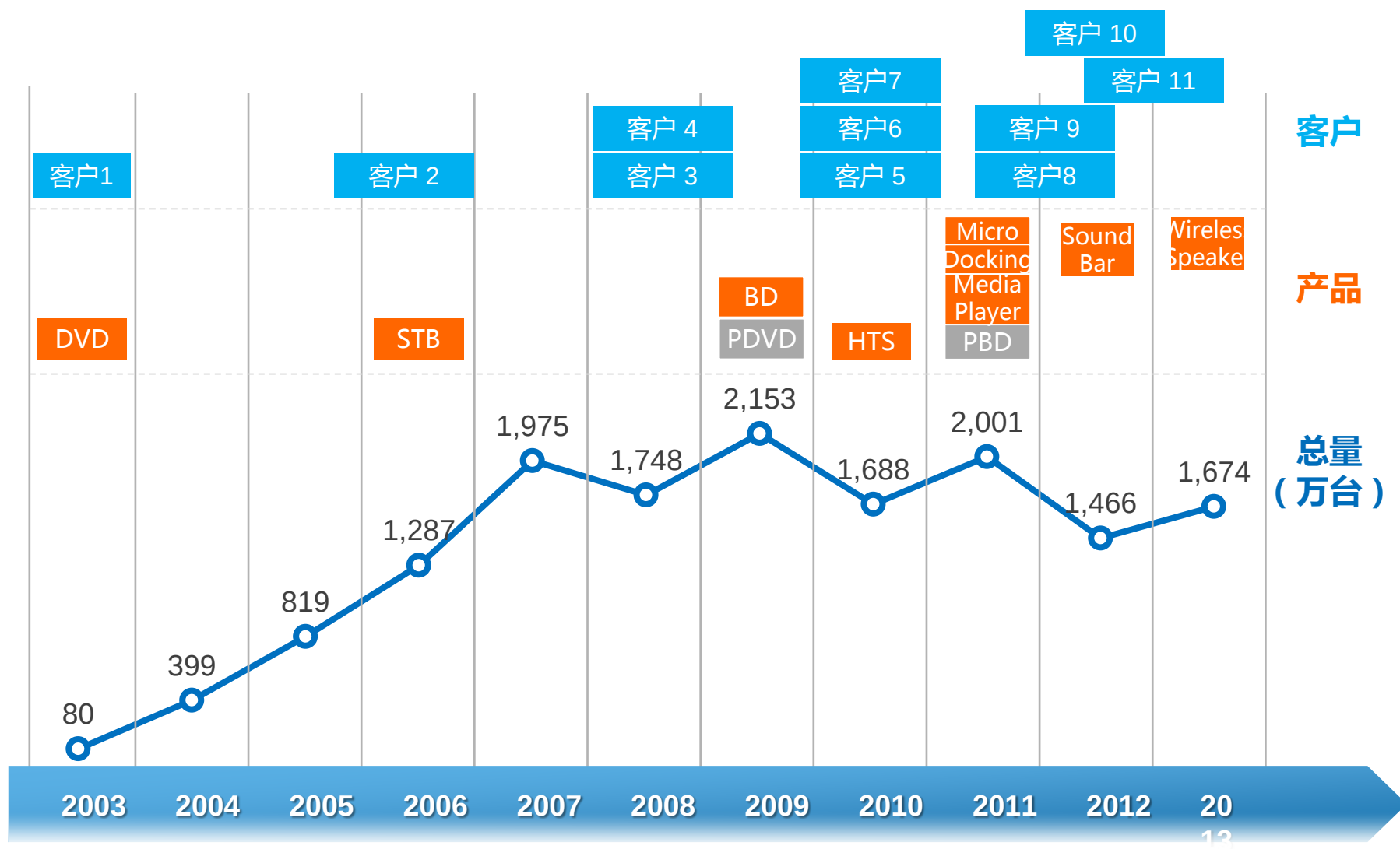
- 2013年7月，公司迁址仲恺高新区37号小区，办公及生产设施更趋完善
- 2013年8月15日，在香港上市，股票代码为（HK：1249）



TONLY's History



通力发展里程碑



Products

MP

In Developing

Desktop
series

DVB/BD



STB



DVB-C



OTT



IPTV



Audio
Series

DVD/BD HTS



MICRO



Docking



Sound Bar



Wireless
speaker



Smart
Display &
Controller

Smart RC



PAD



Key
Components

Loader



RC



Speaker



Power
Adapte



Earphone



IECQ HSPM IN TONLY



QC080000



SONY部品GP证书



SONY整机GP证书



Why apply the HSPM?

Background

- IEC HSF product and process requirements
- EU import and trade requirements for HSF

Client Requirement

- Philips RSL
- SONY GP system
- LG-LGE manual for HS management
- TOSHIBA-Guidelines for green procurement

Law Regulations

- ROHS2.0
- REACH regulations
- WEEE
- Packaging directive
- Battery directive



为什么建立HSPM体系

背景

- 国际电工委员会对于有害物质的管控要求
- 欧盟各国对于HSF产品进口和贸易的需求

客户需求

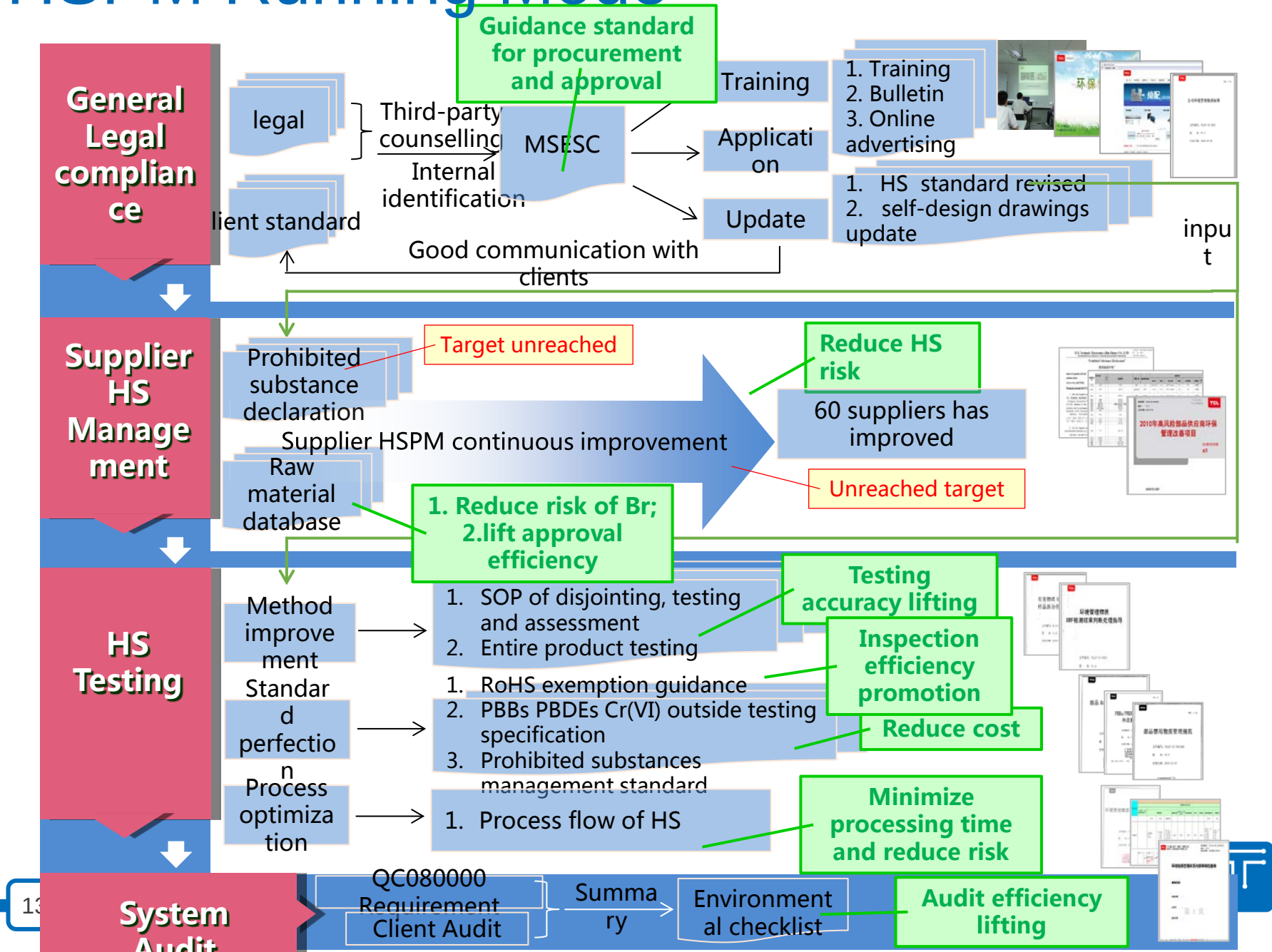
- Philips监管物质清单
- SONY GP体系
- LG-产品有害物质管理指南
- 东芝-绿色采购方针

法律法规

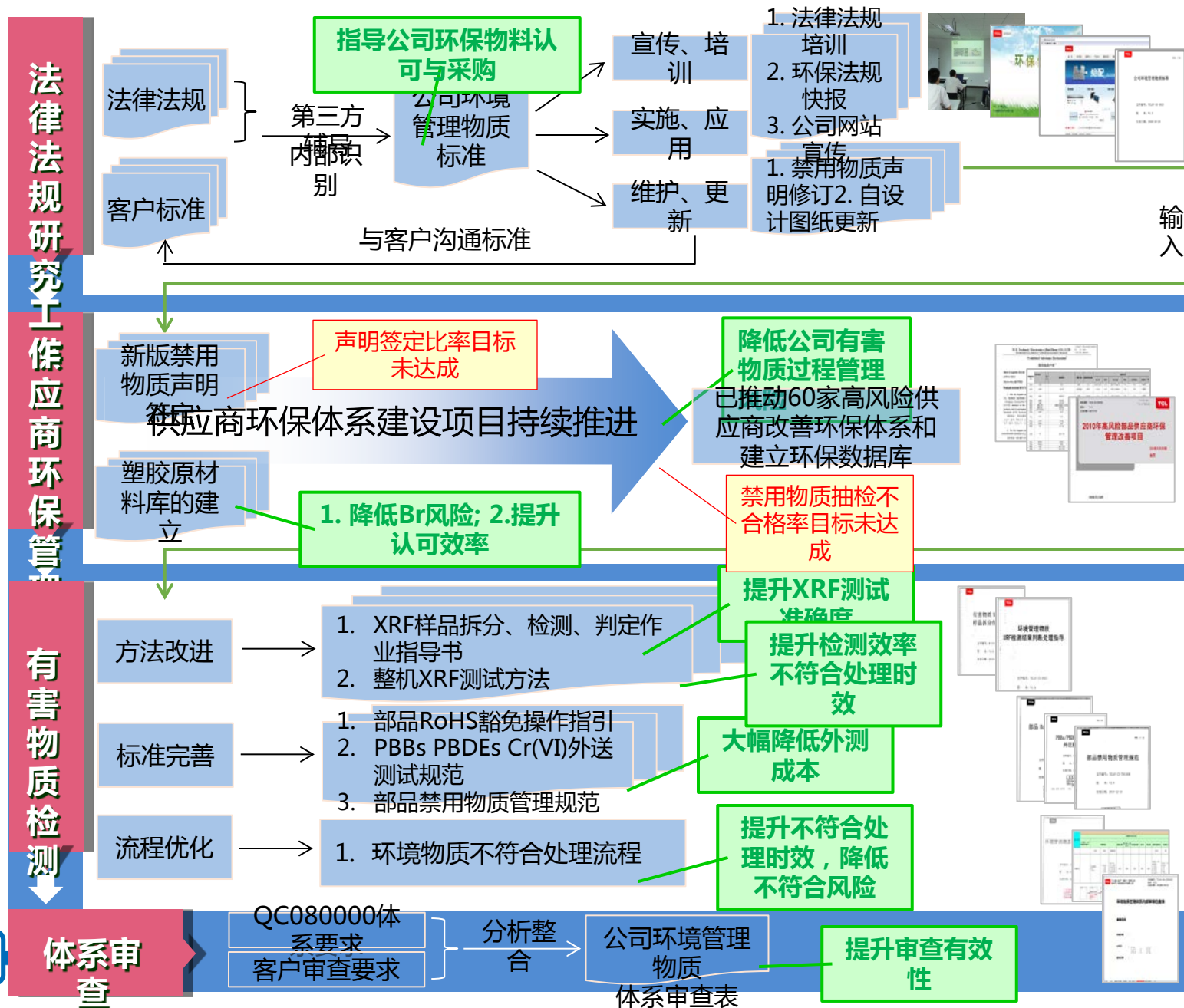
- ROHS2.0
- REACH法规
- WEEE指令
- 包装指令
- 电池指令



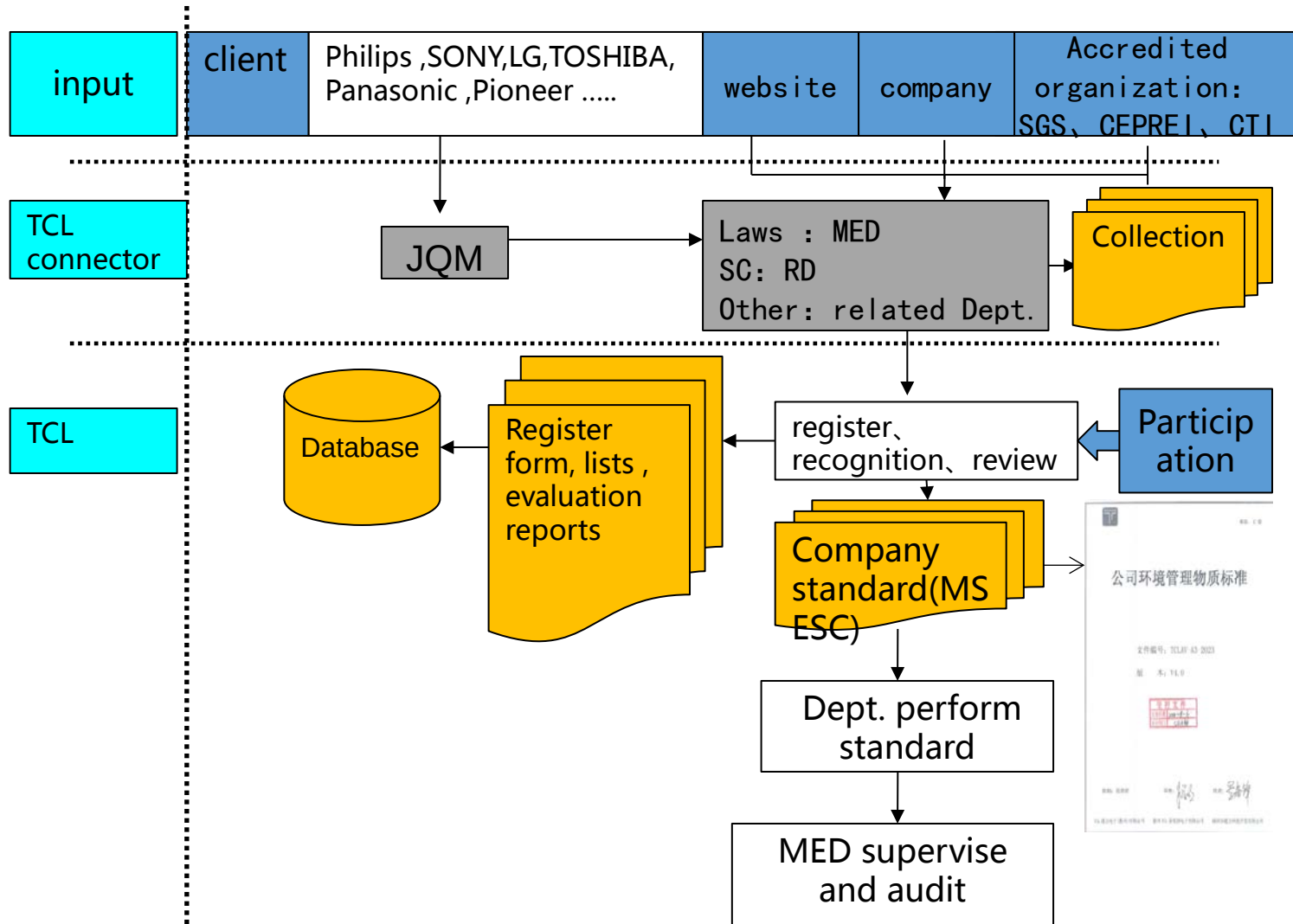
HSPM Running Mode



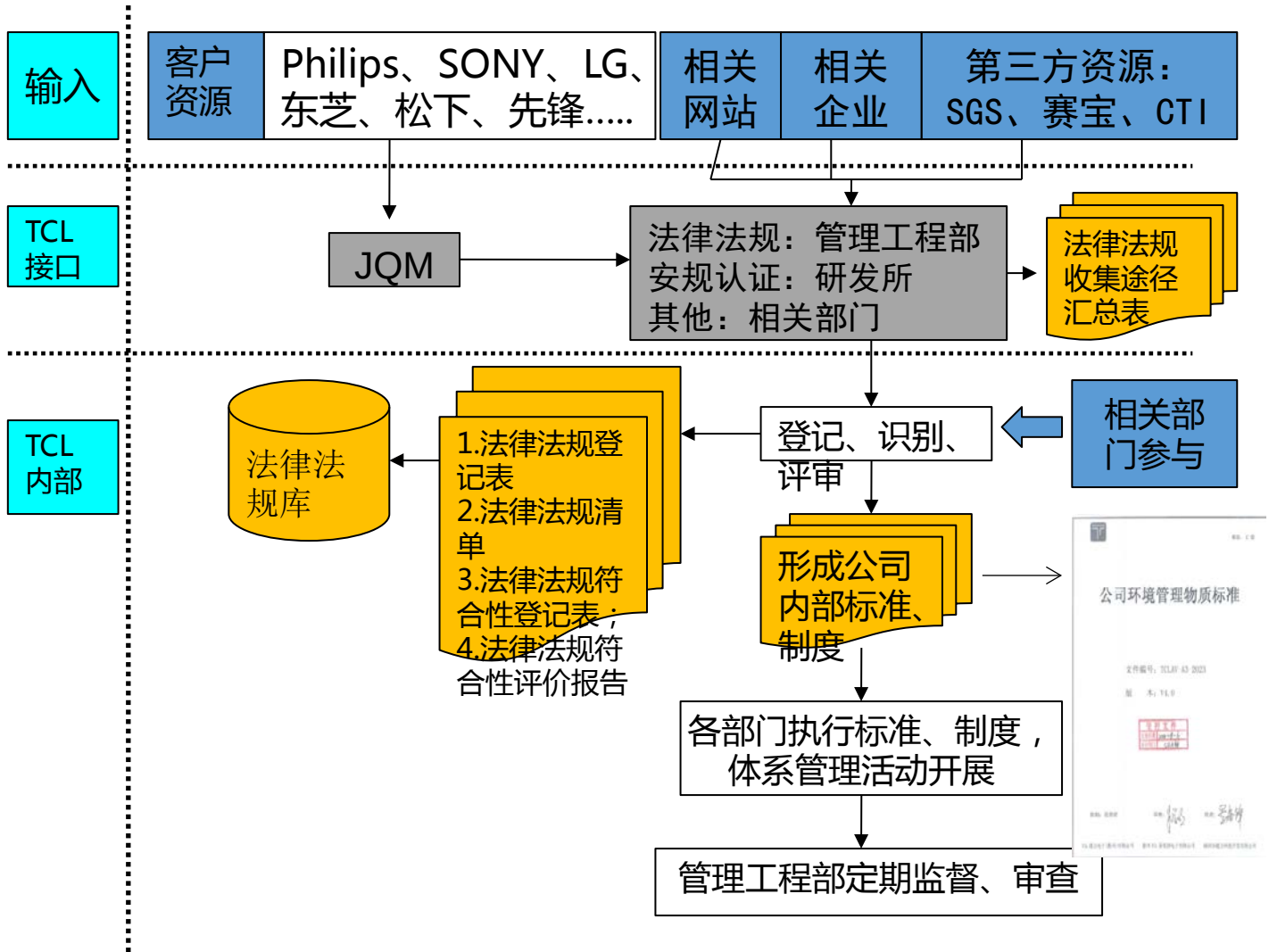
HSPM工作模式



General legal compliance



法律法规工作模式



Supplier HS Management

*Red font indicates the requirements of SONY

Client requirement : **SONY**, TOSIBA, PHILIPS, LG, etc.
Laws and regulations : REACH , RoHS , WEEE, Erp, etc.

- ◆ Import new supplier
- ◆ Training and tutorship
- ◆ Site reviews, investigation
- ◆ Communication with supplier (TCL website, Email, phone number)

Investigation
Requested words of
SONY in the drawings
and specifications

HS Audit
Sign the declaration
of HS
**Sign the HSF
declaration**

RMDL
**Certificate of
non-use**
ICP
MSDS
XRF testing
JGPSSI

XRF testing
(A, B, C level)
Certificate of non-use
(total product)

Re-approval
(4M change)

Supplier development

Supplier audit

Article approval MP

4M change



供应商环保管理模式

*红色字体为SONY要求

客户要求：SONY、TOSIBA、PHILIPS、LG等
法律法规要求：REACH、RoHS、WEEE、Erp等

- ◆ 新供应商导入培训
- ◆ 例行辅导、培训
- ◆ 现场访问确认、调查
- ◆ 供应商信息沟通（TCL网站、Email、电话）等。

基本状况调查
指定2种材料采购
指定文字记载
(图纸&规格书)

供应商开发

供应商环保体系审查
禁用物质声明签订
环保声明签订

供应商审查

RMDL
不使用证明书
ICP
MSDS或成分表
XRF测试
JGPSSI数据

部品认可

XRF测试
(A、B、C等级)
不使用证明书(整机)

量产管理

重新认可
(材料&设计变更)
必要时实施审查
环境管理者变更知会

变更管理



HSF Running Mode

Process Control

warehouse

- The incoming materials uploaded the company ERP



Supply chain

- New material has a XRF test
- Automatic sampling testing when incoming materials data uploaded
- ICP report and MSDS from suppliers



材料名称	日期	测试结果
材料名称	2014-09-12	合格
材料名称	2014-09-12	合格
材料名称	2014-09-12	合格
材料名称	2014-09-12	合格
材料名称	2014-09-12	合格
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材料名称	2014-09-12	合格
材料名称	2014-09-12	合格
材料名称	2014-09-12	合格

process

- SMT shop, PCBA shop and assembly shop control HS
- Change management

shipment

- Total machine test
- Traceability system
- Quality and HSF agreement
- CMF investigation, ODC declaration, ROHS list, etc.

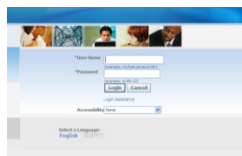


有害物质管控模式

过程管控

仓库

- 物料入库，录入ERP系统



采购链

- 新物料认可，送检XRF
- 来料抽检，按照C/B/A等级抽检，ERP系统能够自动显示抽检等级
- 供应商环保资料提供



制程

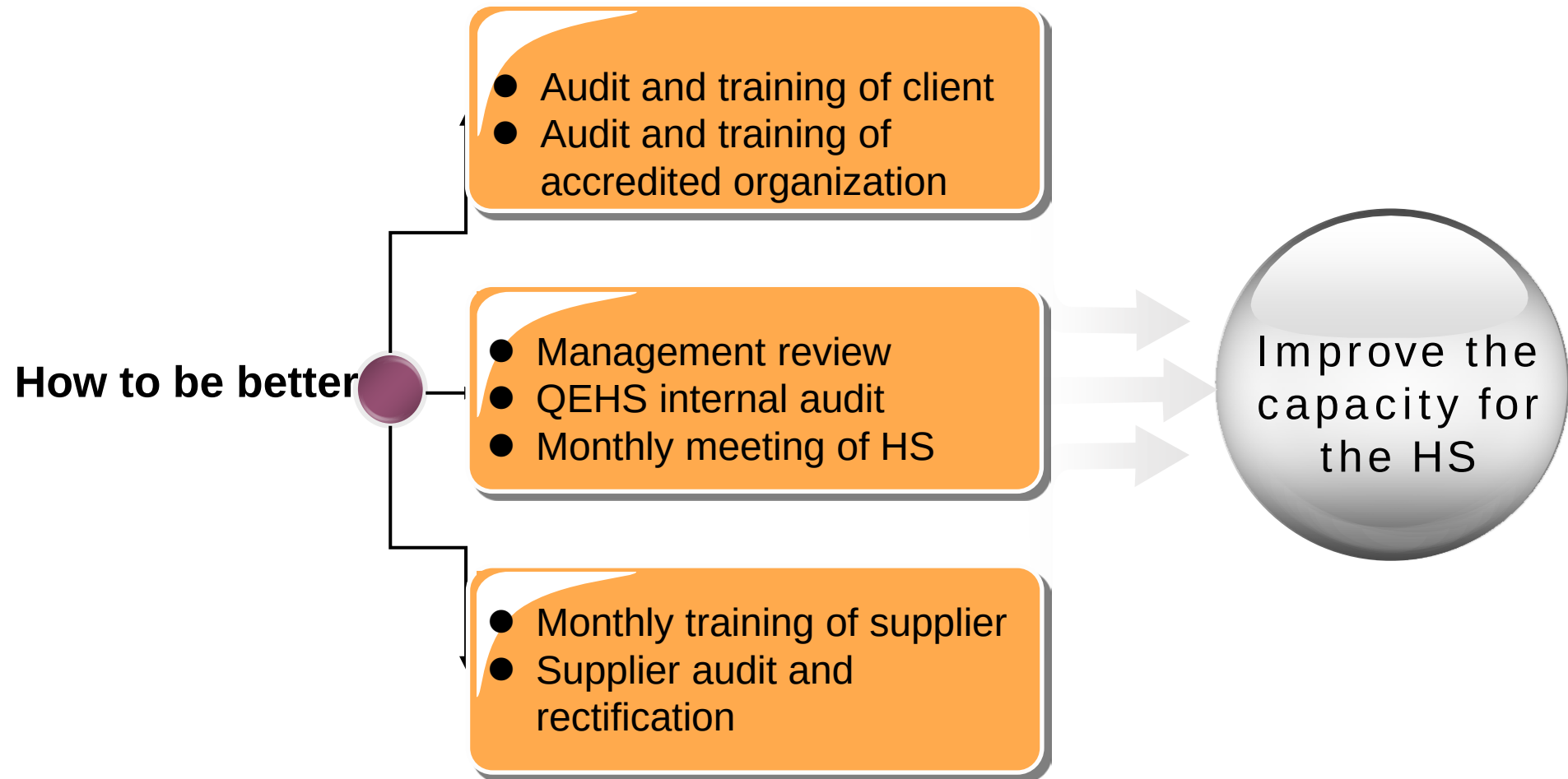
- SMT车间，PCBA车间和总装车间过程防污染管控制
- 变更管理

出货

- XRF整机测试
- 物料追溯系统
- 与客户签订的质量/环保协议
- 客户环保资料同，包括无冲突金属调查，ODC声明，ROHS list等



Continual Improvement



持续改进



Acknowledgement

Thank Hong Kong Product Council for the invitation.
感谢香港生产力促进局的邀请

Thank WOOX Innovations Ltd. for the recommendation.
感谢WOOX公司的推荐





通力电子

END

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