



A mobile phone producer perspective on the advantages of a harmonized, global approach to the exchange of information on chemicals in products

SAICM Open-ended Working Group

Side event – Chemicals in Products (CiP) project

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Sony Ericsson
make.believe

Long history of environmental leadership

FIRST IN 1998 MOBILE INDUSTRY

- Environmental declaration, Global NiCd phase out -

FIRST PHONE IN 2002

- No Brominated Flame Retardants (BRF's) in boards and casings -

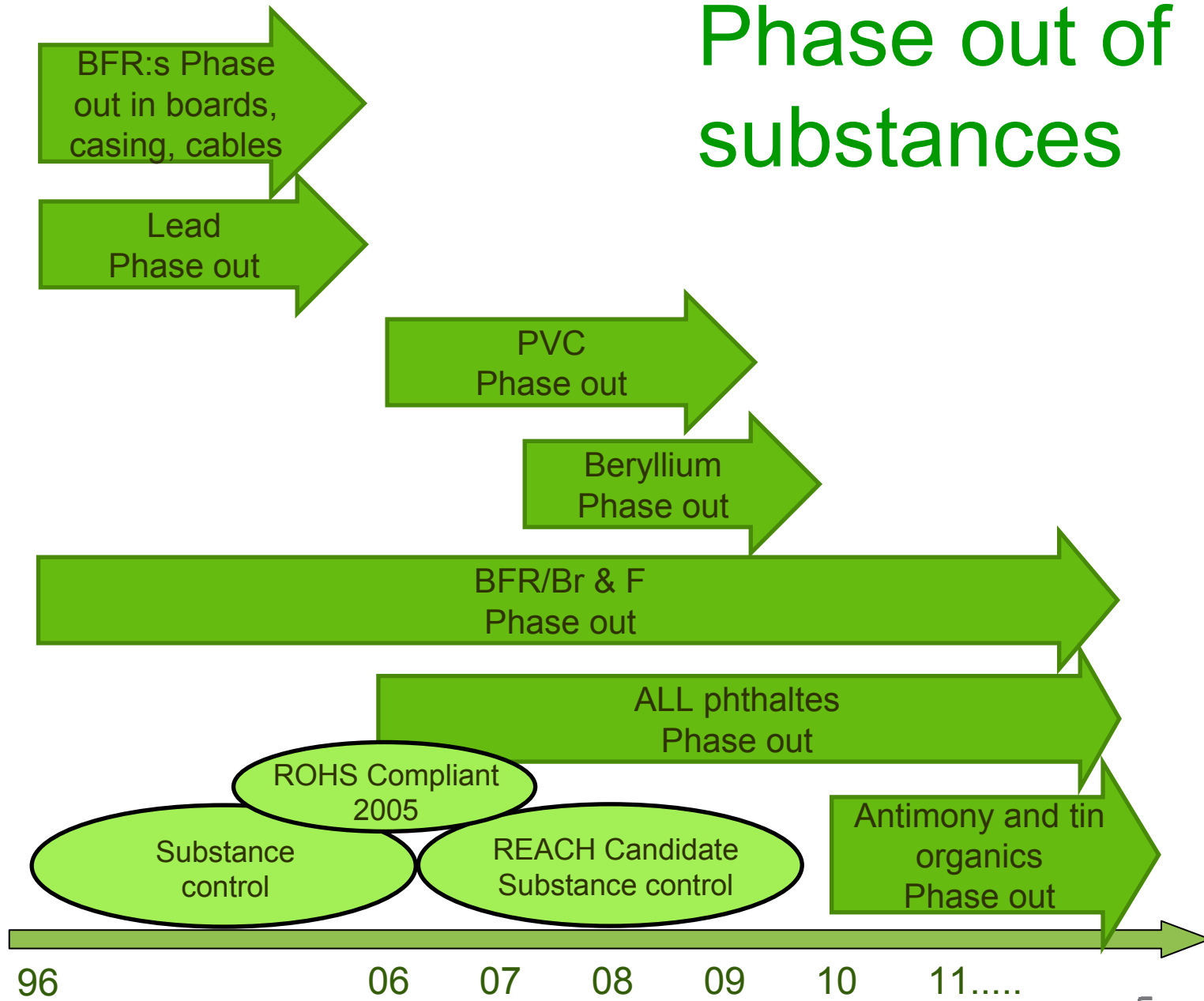
FIRST PHONE IN 2004

- RoHS compliant phone in the market -

Example of substances in the electronic industry that have been phased out or soon will be phased out

Lead & lead compounds	Toxic, carcinogenic, repro-toxic
Mercury & mercury compounds	Toxic, affects the nervous system
Cadmium & cadmium compounds	Toxic, carcinogenic
Hexavalent chromium	Allergenic, carcinogenic
PBB & PBDE	Persistent, Bioaccumulative & Toxic
Phthalates	Repro-toxic and hormone disruptive
Antimony & antimony compounds	Probably carcinogenic
Beryllium & beryllium compounds	Allergenic, probably carcinogenic
All organic compounds containing bromine & chlorine	Forms halogenated dioxins when incinerated under poor conditions
Tin organic compounds	Repro-toxic and hormone disruptive

Phase out of substances



Environmental requirements?

Why have them?

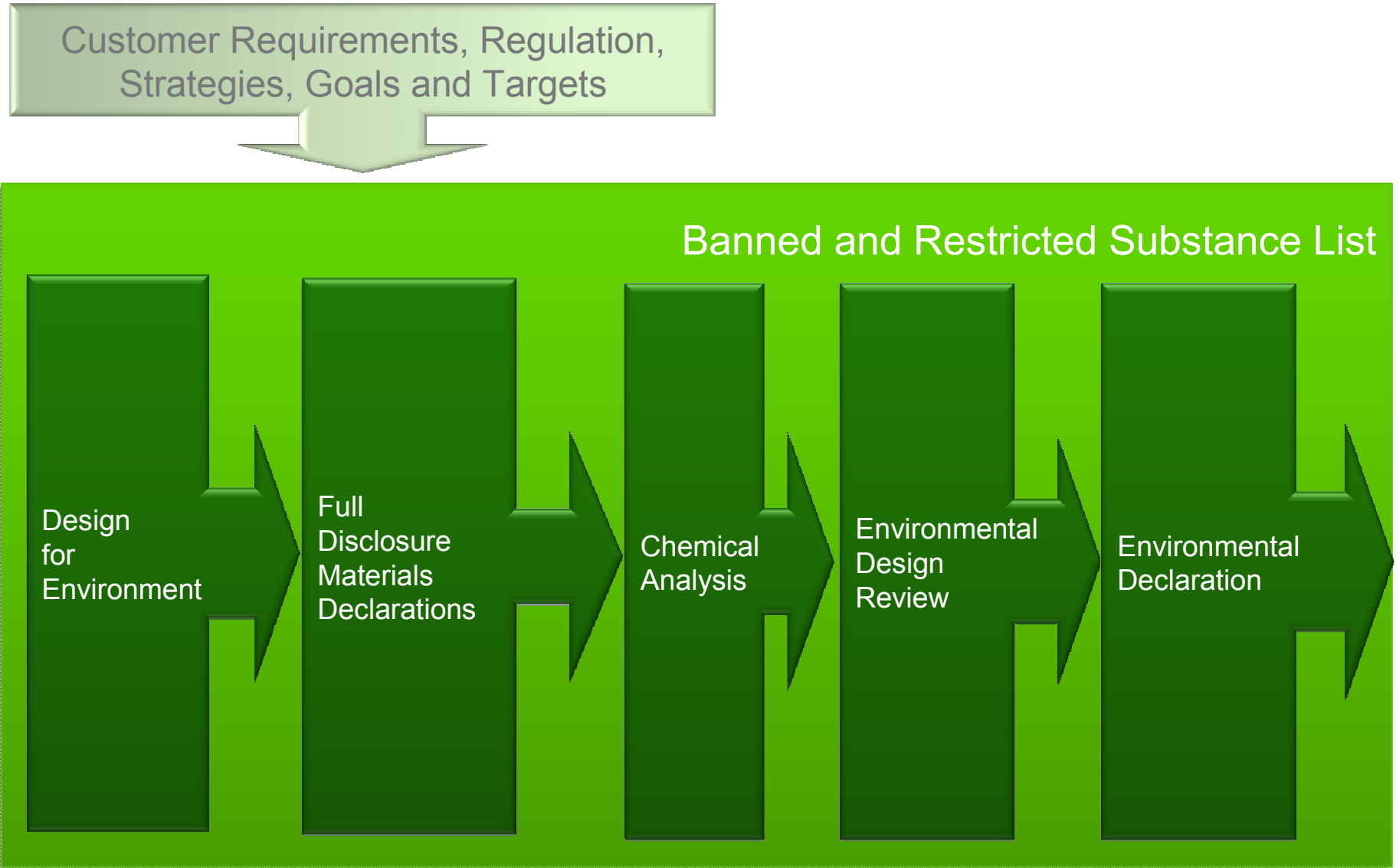
- Distinguishing brands
 - Competitive advantage
 - Be ahead of the legislator
- Make a difference
 - Change to the better
- Customer requirements

Legal compliance

- Substances (RoHS, REACH)
- Waste (WEEE)
- Energy (Energy Efficiency directive)



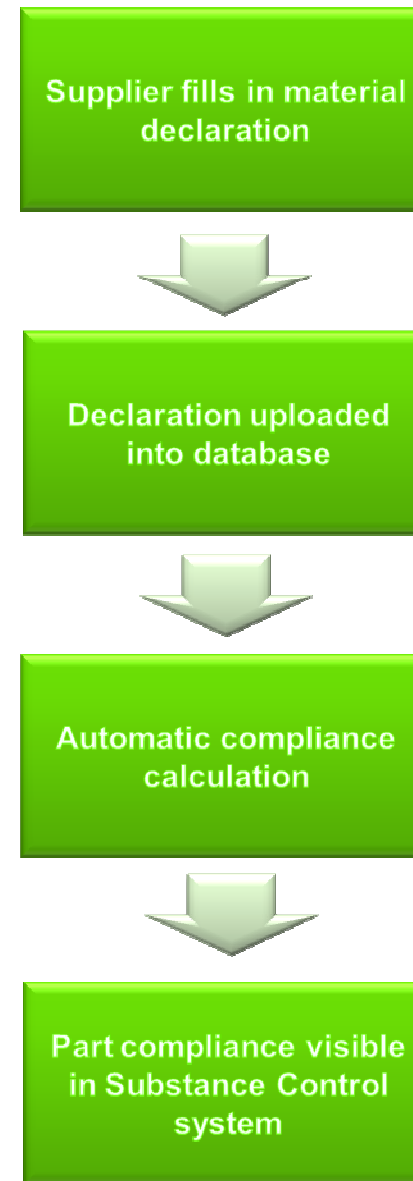
Compliance verification process



Material declarations

- Material declaration with full disclosure of substances and materials
- Industry standard template (IPC1752:2 → IEC 62474)
- Automatic compliance calculations
- Aggregated compliance for entire product

IPC = Association Connecting Electronics Industries®
IEC = International Electrotechnical Commission



Conclusion

- OEMs need material data (Full Material Declaration) in order to assess compliance and improve environmental performance
- Tools to manage the supply chain communication for tracking and disclosing chemicals in products.
- This requires a global approach, using a single platform and format.
- IEC 62474 Standard provides platform, format and an international consensus.
 - Drivers: Compliance and beyond compliance
 - Solutions: builds on existing activity within industry, creating a global standard

Two directions using material declaration system

Material declaration:
Only the “Critical substances” included in specific “Chemical list”

Material declaration:
Full Material Declaration on homogenous level

Advantages

- Material raw material manufactures doesn't need to disclose all the specific substances
- Could be a “fast track” to get results. Lot of different stakeholders with different agenda

•If suppliers upload FMD of approx. 100% they do not have to update their regulatory compliance declaration, every time national chemical authorities and regulators restrict substances. If they do not have FMD they will need to update the declaration in the regulatory compliance tool continuously (monthly/yearly).

•Declaration of content of the products can be done by the OEM's