

Building and maintaining shared key resources/tools
in industry
ENES workshop
24 – 25 Nov 2011, Brussels



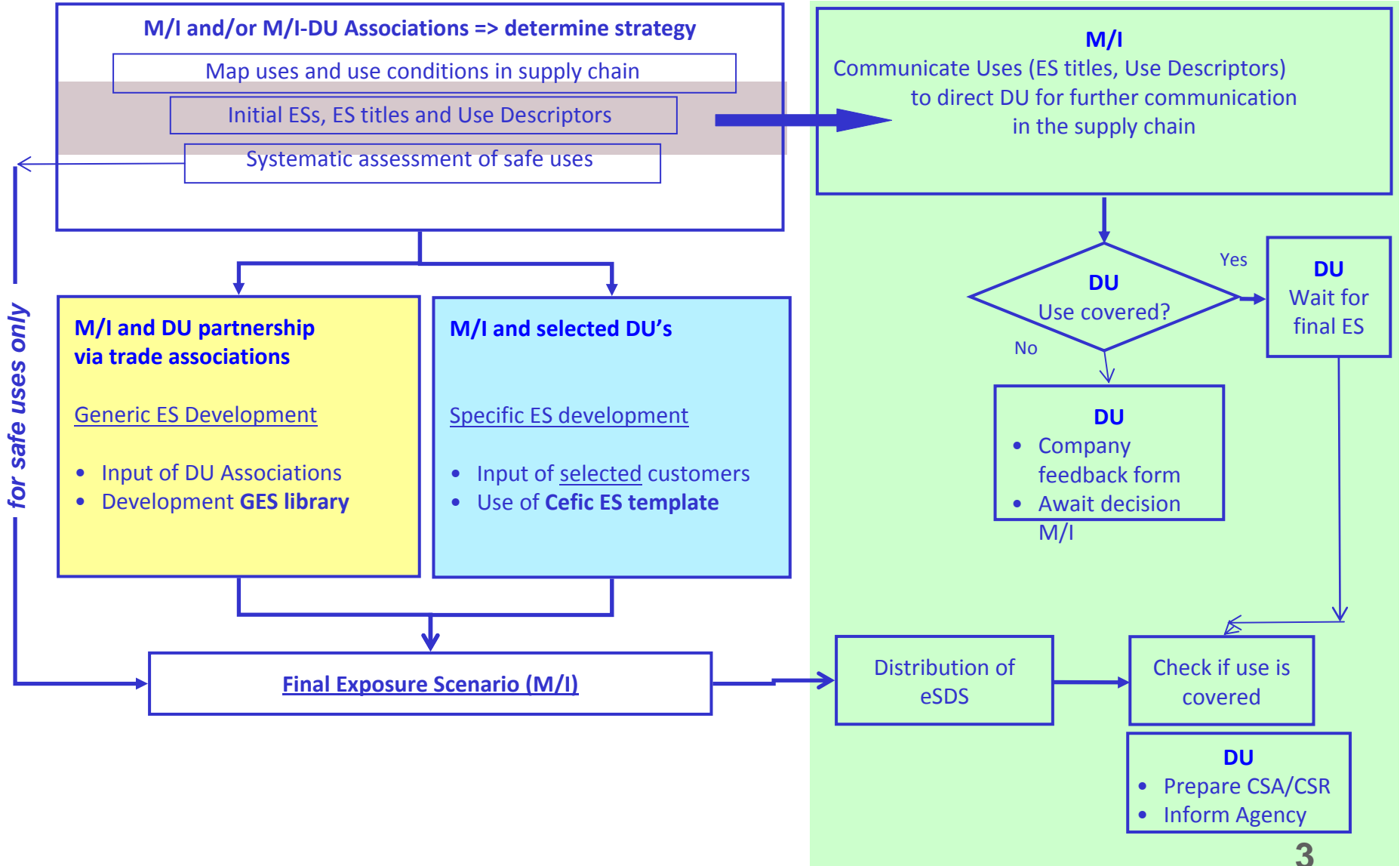
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Content



- **Industry model for ES development and supply chain communication**
- **Tools and guidance's developed by industry**
- **Practical guide**
- **SpERC's**
- **ESCom package**
- **Industry vision on harmonized ES development and communication**
- **Next activities**
- **Projected timeline**

ES Development & Communication model



Available tools on Cefic web



Downstream Users of Chemicals Co-ordination group



- **Newsletter: guidance on Use and ES development and Supply Chain Communication**
- **VCI Practical Guide on Exposure Assessment and Communication in the Supply Chains**
- **Libraries use mappings**

Preparation phase

- **Use communication holding letter**
- **UseR template**

- **Guidance on GES process + templates**

- **Guidance on SES process + templates**

SpERCs

ESCom phrases

Use and ES communication

- **IT tool requirements**

ES for preparations, DPD+
ESCom XML

VCI Practical Guide on Exposure Assessment and Communication in the Supply Chains



Package include:

Part I: Introduction, Chemical Safety Assessment, Obligations of Downstream Users, Existing Knowledge

Part II: Exposure Scenarios and Communication in the Supply Chains

Part III: REACH and Mixtures

Part IV: Supplement Exposure Estimation

Specific Environmental Release Categories



- First level Environment Assessment under REACH based on ERC's (R16)
- Release defaults set for ERC based emission estimates are worst case assumptions

Chapter R.16: Environmental Exposure Estimation			Version 2 – May 2010		
Table R.16-23: Default parameters to derive the environmental release rate					
Note	No	ERC	Default worst case release factors resulting from the conditions of use described in the ERCs. Grey cells indicate release factors which are used for the regional release estimation only (and not for the local one).		
			to air	to water (before STP)	to soil
3, 7	4	Industrial use of processing aids	100%	100%	5%

- This may lead to overly conservative results
- An approach applying more realistic values while keeping standardization appears reasonable

What is a SpERC?



- **refinements** of the ERC-based emission estimation.
- define **realistic default values** (based on good practice information supplied by sector groups, trade associations).
- are **documented** in **SPERC fact sheets**, deposited in ES library.

- **More than 170 SPERCs** are available for the time being
- SPERCs have been **extensively used** for generating the dossiers of the 2010 REACH registrations
- However, only a **limited public discussion** on development and scope of SPERCs has taken place so far
- All published on the Cefic web site



Further development of SpERC's



- Refinement of the fact sheets
 - SPERC coverage
 - Representation of RMMs in SpERC release factors
 - Documentation of rationale for choice of release factors
 - Define relationship between operational conditions, risk management and release factors
- Making SPERCs available to the stakeholders
- Harmonized and structured format
- Guidance on derivation of SPERCs
- Promote efficient generation, processing and transfer of SPERC information in/between IT applications, e.g. CHESAR

EsCom: Exposure Scenario Communication Package



Aim of the EsCom is to have standardised phrases and an harmonised IT standard for ES communication between companies IT systems in the supply chain.

The EsCom package products:

ESCom XML 1.1 – The Container for ES Info

- XML Schema-definition
- ESCom XML guidance document
- Technical documentation
- Example of an XML-File

ESCom Standard-Phrases - The Content for ES Info

- Master-File with standard-phrases (incl. phrase-codes)
- Guidance document for phrase development

Objectives for the ESCom Package



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- **ESCom shall be applicable for the downstream communication over the whole supply chain of the SDS.**
 - **Made available for free in the English language**
 - **Being aligned with BDI EuPraC phrase system for SDS**
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- **Will only work if all players in the supply chain apply XML and phrase standards.**
 - **Should be used for the entire ES, no possibility for free text**
 - **Will take some time to implement in the supply chain and to have all IT systems upgraded**

ESCom Status Development



ESCom XML implementation:

- Significant demand: > 900 downloads
- Data Model: dependencies to be reviewed / revised
- Mapping ES (printed) format to ESCom XML
- Need for more extended examples, also for Mixtures
- Validation tool needed ('Is our XML file correct?')
- Testing of ESComXML: send / receive with other companies
- No possibility to exchange free text, but 160 'standard' fields foreseen

ESCom ES Phrases:

- > 1900 ES Phrases
- Adding Metadata has started
- Inconsistencies / finetuning in ES Phrase data (e.g. spelling, dots, capitals)
- Duplicate Phrases (approx. 80) to be resolved
- Missing Phrases,
- Metadata not complete yet
- How apply / implement ES Phrases metadata in IT systems

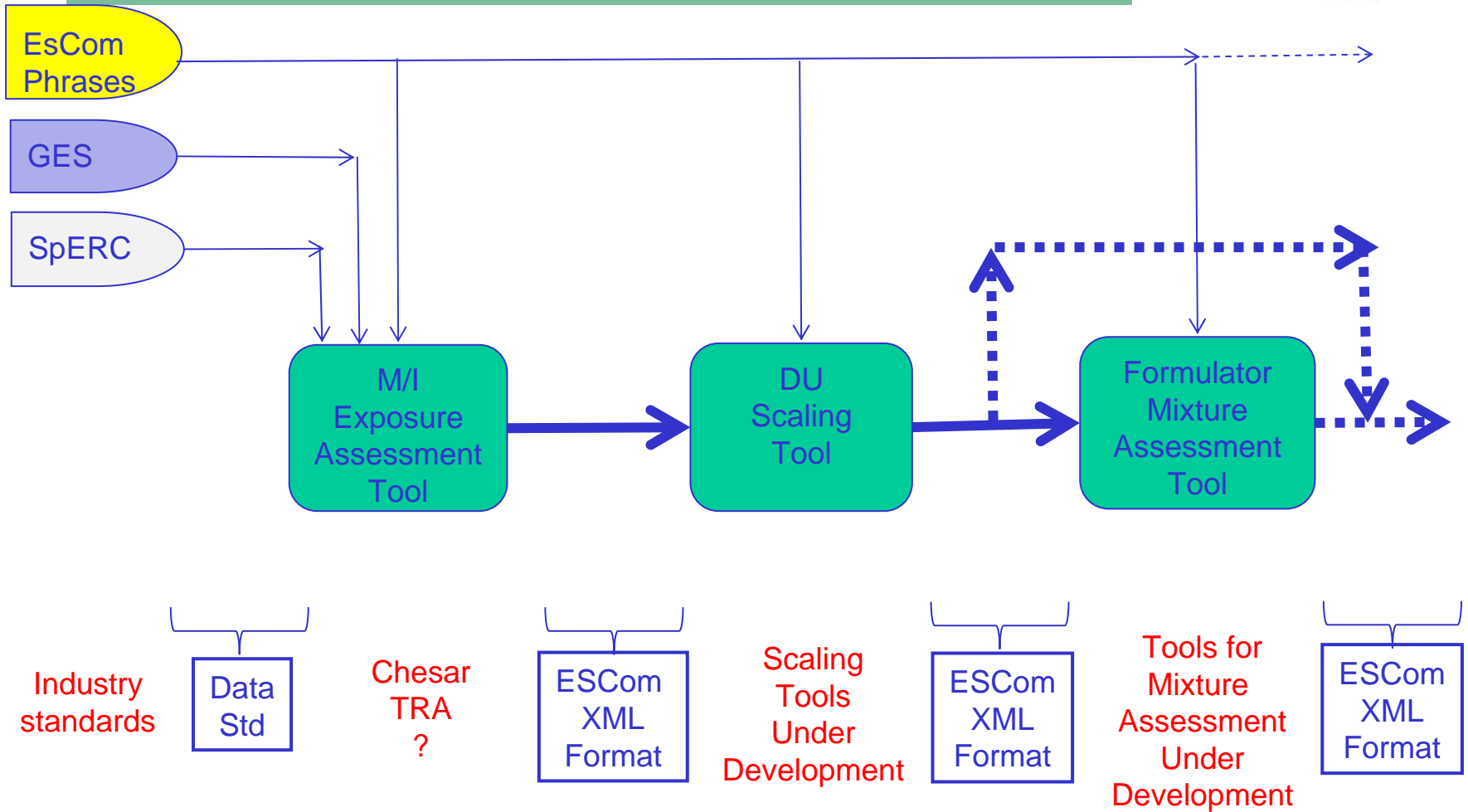


Make industry Developments/Tools available in / for CHESAR

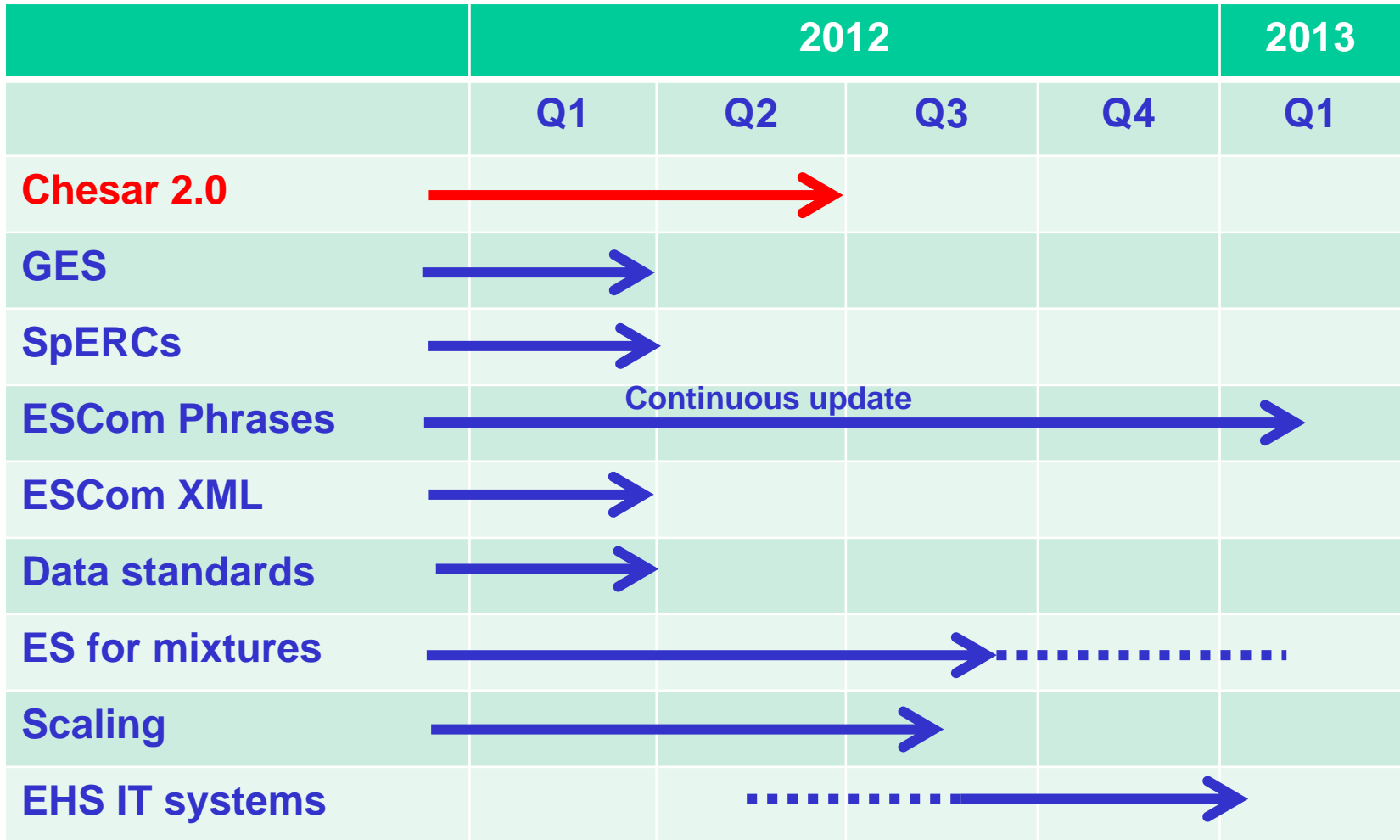
- **GES**
 - **SPERCs**
 - **ESCOM phrases**
 - **ESCOM XML – aligning with CHESAR XML**
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- **ECETOC TRA**

CEFIC-DUCC
Coordination

Our vision



Timeline



•The given timelines are indicative and depend on voluntary contributions of company experts

Summary and conclusions



- **There are major contributions from industry to set up the ES development and communication process**
- **We are not there yet**
 - **Harmonisation and standardisation is key**
 - **Exposure Scenario information for mixtures**
 - **Scaling tools**
 - **Further development of ESCom and harmonisation with assessment tools like Chesar**
 - **Define standards for industry tools to apply them in IT systems**

Useful links



- **CSA/CSR/ES tools:**

<http://www.cefic.org/Industry-support/Implementing-reach/Guidances-and-Tools1/>

- **Use libraries:**

<http://www.cefic.org/Industry-support/Implementing-reach/Libraries/>

- **ESCom package:**

<http://www.cefic.org/Industry-support/Implementing-reach/IT-Tools/>

Thank You!

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