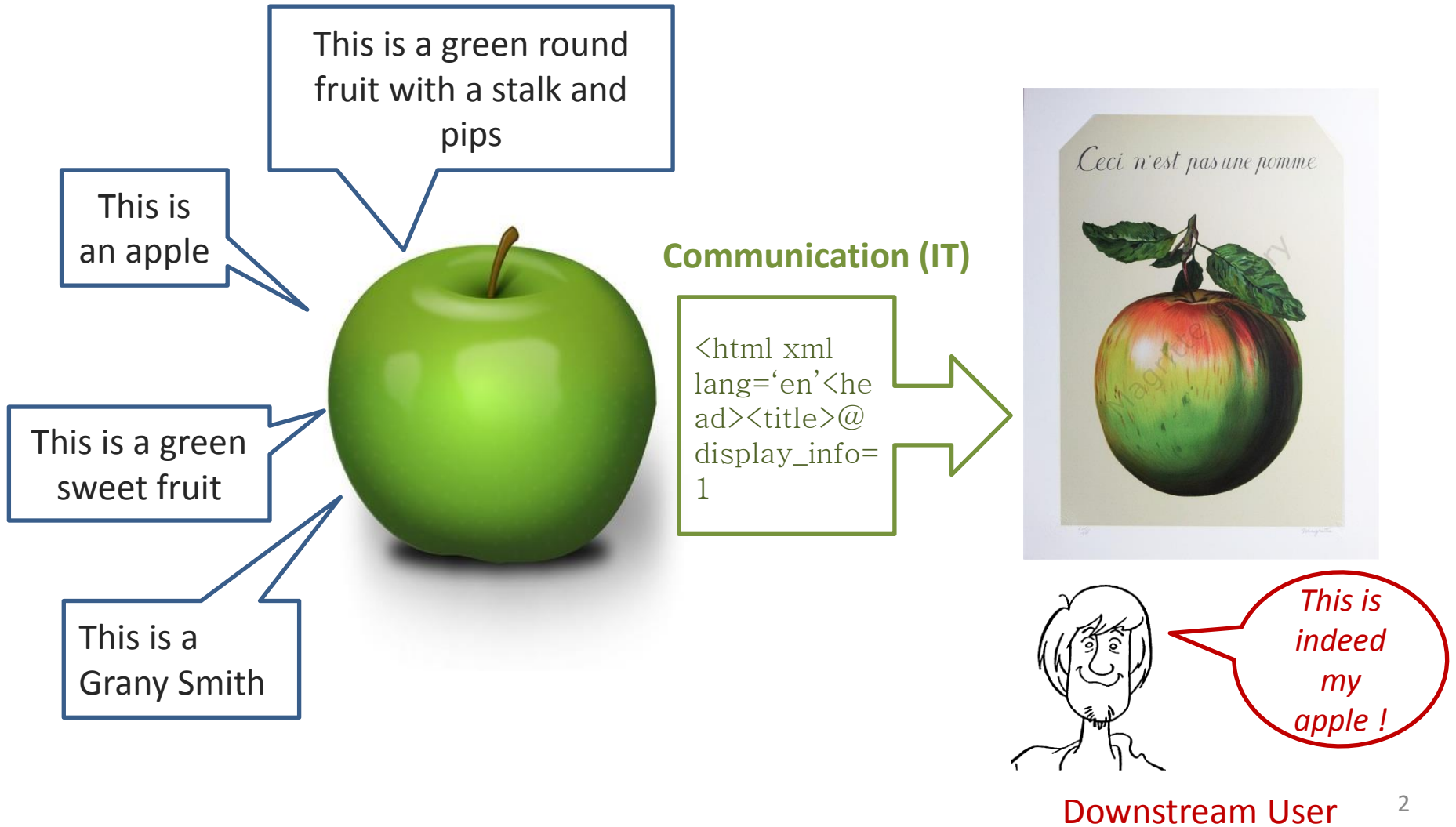


Harmonisation of ES Short Titles


Sylvie Lemoine / Dirk Henckels
on behalf of : **Cefic, DUCC, ECHA, ESCOM**

ENES5 meeting
21 November 2013

Why harmonisation?



ENES4 outcome

-  Action 4.2: *‘Agree and promote a harmonised layout-format for the ES for communication in order to support human readers in navigating through the ES annex of SDS, including **short titles**, main sections and **table of contents**’.*
- ENES4: proposal for structure and rules of ES Short Titles presented
 - Comments received by ENES4 participants
 - **Follow-up:** workshop to address ENES4 feedback and refine the rules based on more examples (12 September 2013)

Principles agreed, reconfirmed at the workshop : ES Short Titles should...

- **Be readable by humans + aim for IT-processability**
- Allow DU to choose relevant ES from the extended-SDS
 - *Unambiguous*
 - *As short as possible*
- Consist of standard phrases
- Be concise and clear: not contain long lists of use descriptor phrases
- Include market description as a core element
- Use information extracted from the ES
- Be composed of a selected number of identifiers (and terms)
 1. *Life cycle stage*
 2. *Market sector information*
 3. *Additional relevant information*

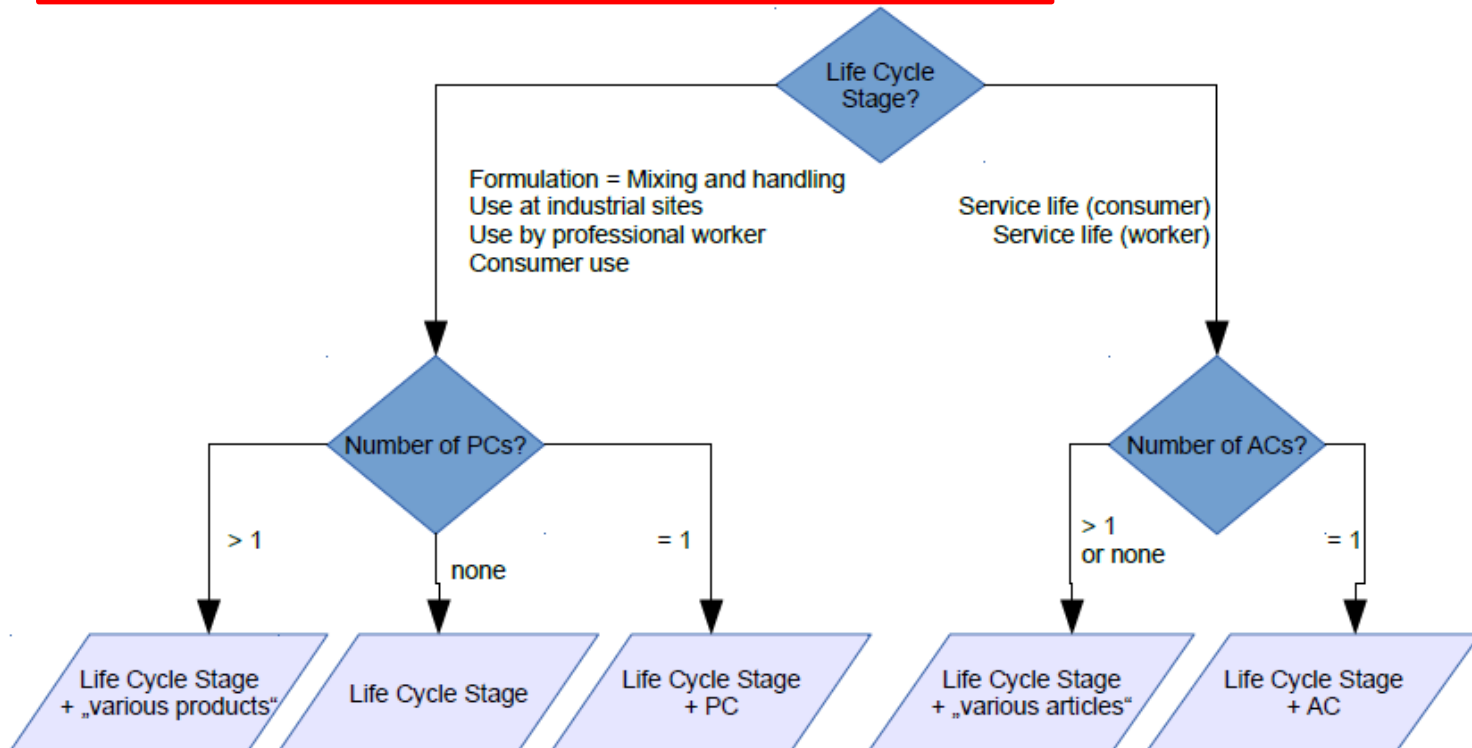
The Identifiers and 'Terms' of the Structured Short Titles

- 1. Life cycle stage** (pick list: 6 items)
- 2. Market information** from the use descriptor, only based on PC, AC and SU*
- 3. Additional information**
 - 3.1. Technical function**, e.g. 'bleaching agent'
 - 3.2. Technical process**, e.g. 'solvent-based process'
 - 3.3. Containment**, e.g. 'closed process'
 - 3.4. Physical form**, e.g. 'spray'

* Not SU3, SU10, SU21, SU22 (these are life-cycle stages)

A rule-based approach for structured short titles

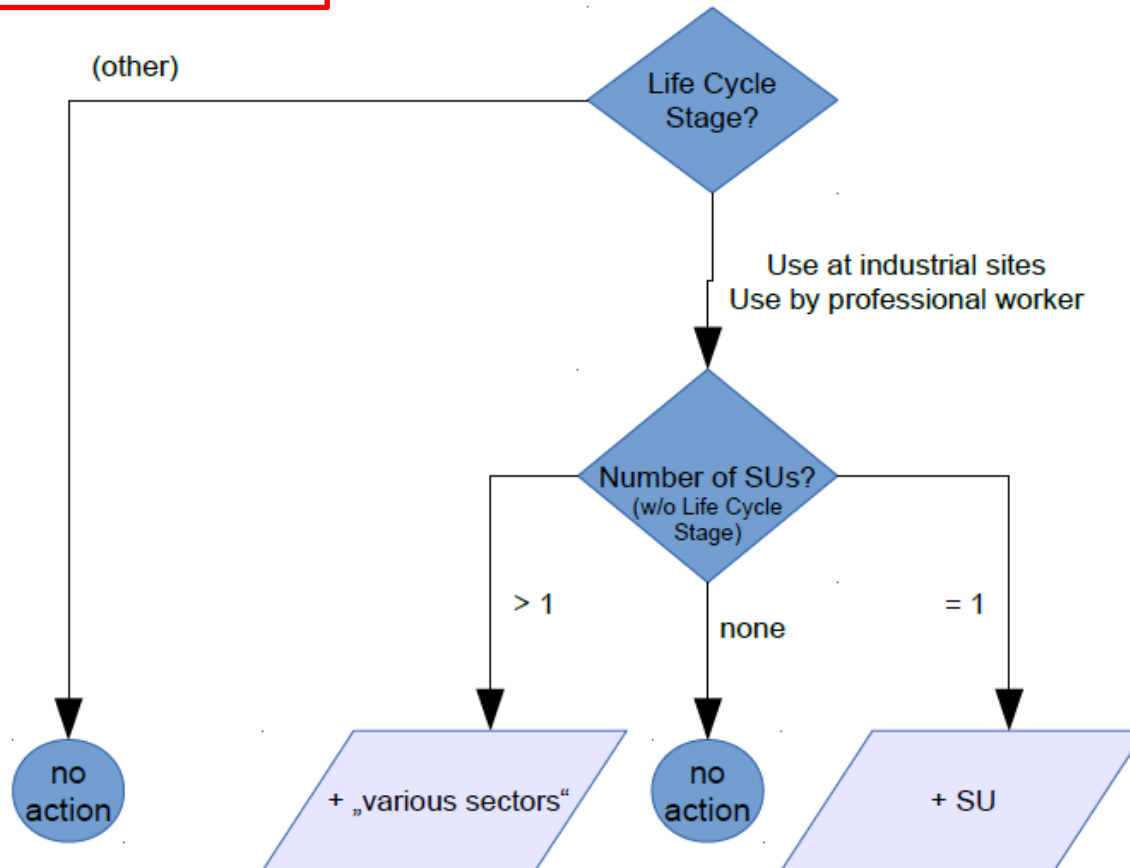
Rule 1: Life cycle stage and PC/AC⁴ (mandatory)



4 For PC or AC, the user can decide whether to print the codes of the use descriptors in addition to the names (when PC=1, AC=1). In the case of PC>1, AC>1, the user also has the option to add the list of codes in brackets, for example 'Various products (PC3, PC27, PC35)' if this information is deemed relevant

A rule-based approach for structured short titles

Rule 2: SU⁵ (mandatory)



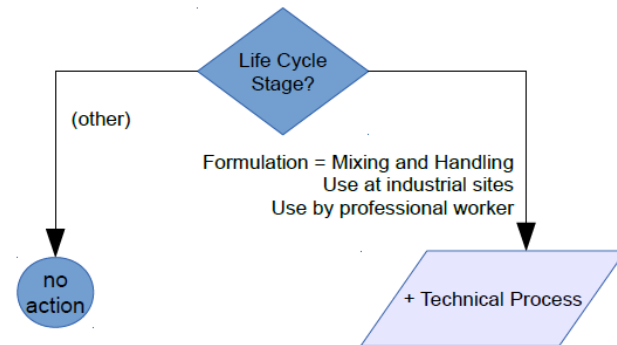
A rule-based approach for structured short titles

Additional Information: Optional

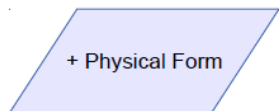
Rule 3: Technical Function



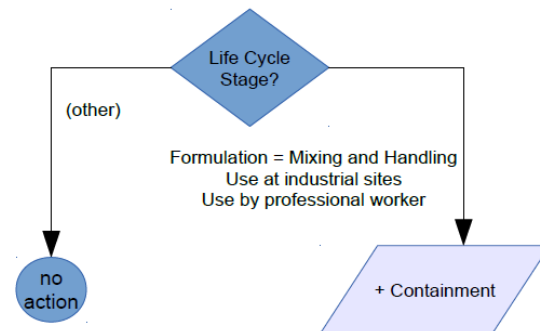
Rule 5: Technical Process



Rule 4: Physical Form



Rule 6: Containment



RULES TO BE FURTHER ASSESSED

Structuring ES Short Titles

- Algorithm: iterative process applies a series of rules that add a 'Term' to the Short Title
- Stop when all Short Titles are unique after application of Rules 1 and 2.
- Interim: 'manual' override in case uniqueness is not achieved or in case uniqueness is at the expense of 'human-readability'

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES		
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage <i>Identifier 2:</i> market sector <u>Identifier3:</u> function, process, containment, physical form	Comments / Follow-ups	
2	Industrial use as a fuel additive	PC13	Use at industrial sites, fuels <i>Or</i> Use at industrial sites, fuels <i>(PC13)</i>	Application of Rule 1 (+2)

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage Identifier 2: market sector Identifier 3: function, process, containment, physical form	Comments / Follow-ups
1 Formulation and (re)packing of substances and mixtures (industrial) (washing and cleaning products, fragrances...)	SU3,10 PROC 1,2,3,5,8a,8b,9,19 ERC2 No PC No AC	Formulation <i>Or</i> Formulation, various products	Application of Rule 1 (+2)

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage <i>Identifier 2:</i> market sector <u>Identifier3:</u> function, process, containment, physical form	Comments / Follow-ups
3 Use of Chemical X as an electrolytic solvent in small batteries and capacitors	SU21 AC3	Consumer use, Electrical batteries and accumulators Or Consumer use, Electrical batteries and accumulators (AC3)	Application of Rule 1 (+2) for article.

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage <i>Identifier 2:</i> market sector <u>Identifier3:</u> function, process, containment, physical form	Comments / Follow-ups
4	Use as a co-formulant in plant protection products, spray applications by consumers	PC27 SU21, SU1	<p>Consumer use, <i>plant protection products</i>, <u>spray</u></p> <p><u>Or</u></p> <p>Consumer use, <i>plant protection products (PC27)</i>, <u>spray</u></p> <p>Application of Rule 1+2.</p> <p>Rule 4 applied manually ('spray': physical form). With Rule 1 and 2 only, two ES would have the same title: spray and granules.</p>

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage Identifier 2: market sector Identifier 3: function, process, containment, physical form	Comments / Follow-ups
5	Formulation in batch processes with multistage and/or significant contact	SU10 PC0, PC4, PC5, PC8, PC9, PC29, PC35, PC39	<p>Formulation, <i>various products</i>, <u>batch process</u></p> <p>Application of Rule 1 (+2), and Rule 4</p> <p>Follow-up: Re-assess the Formulation Life cycle stage to make its scope clearer e.g. 'Formulation and Distribution', 'Handling and mixing'</p>

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage Identifier 2: market sector Identifier 3: function, process, containment, physical form	Comments / Follow-ups
6 Cleaning Use in detergents in industrial settings	SU3,9 PROC1,4,7,10,13 ERC4,6b PC35	<p>Use at industrial sites, washing and cleaning products (including solvent based products)</p> <p>↓ (with proposed follow-up)</p> <p>Use at industrial sites, cleaning products</p> <p>Or</p> <p>Use at industrial sites, cleaning products (PC35)</p>	<p>Application of Rule 1 (+2).</p> <p>Follow-up: shorten PC name in Use Descriptor System.</p> <p>SU9 not relevant (this is not manufacturing of a substance).</p>

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage Identifier 2: market sector Identifier 3: function, process, containment, physical form	Comments / Follow-ups
7	Paint strippers. Drain deblockers Wide dispersive indoor and outdoor use of paint strippers and drain deblockers by professionals	SU22 PROC10,11,13 ERC8a,8b,8d,8e PC9a, 35	Use by professional workers, various products(PC9a, PC35) Application of Rule 1 (+2). Multiple PC case: here, the PC codes provide additional useful information.

Examples

CURRENT ES TITLE		STRUCTURED ES SHORT TITLE FOLLOWING PROPOSED RULES	
ES title:	Use descriptors reported in title section	ES short title proposed Identifier 1: life-cycle stage Identifier 2: market sector Identifier 3: function, process, containment, physical form	Comments / Follow-ups
8 Intermediate Manufacture of bulk large scale chemicals, fine chemicals, inorganic and organic chemicals. E.g. potassium salts, fertilisers, de-icers, pesticides, pigments, detergents, pharmaceuticals, food, products, additives, cosmetics, etc.	SU3,8,9 PROC 1,2,3,4,8a,8b ERC6a PC19	<p>Use at industrial sites, <i>Intermediate, various sectors</i></p> <p><i>Or</i></p> <p>Use at industrial sites, <i>Intermediate, various sectors (SU8, SU9)</i></p> <p>↓ (with proposed follow-up)</p> <p>Use at industrial sites, <i>intermediate, manufacturing of chemicals</i></p>	<p>Application of Rules 1 + 2. SU8 + SU9 means 'various sectors'</p> <p>Follow-up: combine SU8 and SU9 into one SU descriptor: 'manufacturing of chemicals' (it is not always clear what is fine or bulk large scale).</p>

Follow-ups

- ENES5: Testing of IT-rules on a large number of ES for the generation of Tables of Content

CANDIDATES?

- **3rd Identifier (Rules 3 to 6)**
 - Which 'terms'/fields from the ES are relevant as 3rd Identifier
 - Define rules (order of terms)
- **Some PCs need further assessment:** intermediates, various PC
- **Automation / algorithm:** when to stop iteration? Do all rules have to be systematically applied in a given order?

Follow-ups

- At which level should ES Short Titles be agreed and assess for ambiguity? Gradually,
 - **Substance/company level**
 - **DU sectors: use mappings, GES titles**
 - Registrants: Joint CSR
- **ESCOM standard phrases** update process
- **Shortening of use descriptor names**
- Update of Use Descriptor System: mid-term

ES short titles – additional remarks

- Chesar will gradually implement the concept and rules for building ES short titles
- ES short titles only include information already present in the ES → Where to extract information for Third identifier on product or process characteristic?
- If an element is included in the Short title, it must be applicable to all Contributing scenarios e.g. Third identifier = 'closed process' => ALL processes are closed, consistency with operational conditions
- Suppliers must make conscious decision on scope i.e. avoid short titles giving the impression that ES has wide coverage where it is in fact limited to certain products/sectors and vice-versa

ES short titles – further developments

- Building of ES short titles may lead registrants to re-consider the original scope
 - ✓ improvement of CSA/ES scopes over time is expected
 - ✓ consistency needed between registration dossier – information in the supply chain
- ES short titles elements: further development of
 - ✓ ESCOM standard phrases catalogue (industry-led initiative)
 - ✓ Use descriptors Guidance (ECHA-led initiative under regular Guidance update process)

ES short titles – further developments

- **Short term:** companies may start to apply Short titles rules to their ES (unambiguity achieved at 'document' level i.e. each extended SDS)
 - **Long term:** ES short titles developed at Consortia / DU association level:
 - ✓ harmonisation achieved at industry-wide level
 - ✓ easy-to-recognise short titles
 - ✓ training and awareness raising in parallel
- **Further exemplification is crucial to clarify some issues and further demonstrate feasibility**