

Brussels, XXX [...](2017) XXX draft

#### COMMISSION REGULATION (EU) .../...

TUROPEAN DIMESSION

of XXX

amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council and Projectuation, Evaluation, Authorisation and Restriction of Chemicals (DE Acouncil amending Regulation (EC) No 1907/2006 of the Extropective and on the Council and of the Council of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) of the Registration of LIII.VI. VII, VIII, IX, X, XI, and XII to address nanof. an the Registration, Evaluation, Authorisation and Activity of Concenticals (REACH is regards Annexes I, III, VI, VII, VIII, IX, X, XI, and XII to address nanoforms of substances (Text with EEA relevance)

**Revision of REACH Annexes to address** nanoforms of substances

+ Review of definition of nanomaterial (2011/696/EU)

NIA Workshop, April 2018

Andrej Kobe **European Commission** 



#### Content

- •REACH Process
- •Impact assessment & proposal
  - Main elements, with summary of comments
- Discussion to date
- •Review of definition
  - •Public consultation coming up 😐



#### Process

- 2012/13: Announcement of possible revision
- 2013-17: Proposal development, impact assessment
  Public consultation, discussions with stakeholders
- March 2017: Committee 1<sup>st</sup> presentation of main elements (non-paper)
- 9 October 2017: Commission draft proposal
- Oct, Dec 2017, Feb, Mar, Apr 2018: Committee discussion
- 2018 : EP and EC scrutiny, Commission adoption
- [1 Jan 2020] Mandatory application



### **IA Report in a nutshell**

- 61 pages (144 total), 16 Appendixes
- Context, Problem Definition, Objectives
- Policy Options
- Analysis of Impacts
  - Economic, Health, Environment, Animal testing
- Comparing the Options (incl. 'preferred option')
- Appendixes
  - Background (REACH, public consultations, nanoform concept) and procedural
  - Analysis of impacts
  - Details of measures, assumptions, cost methodology
  - Sensitivity analysis



# **POLICY OPTIONS**

1	No change (very specific interpretation used in cost analysis)*
2	Clarifying the existing information requirements (current requirements according to ECHA)*
3	Soft law measures
4	Scientific-technical recommendations tailoring information requirements
5	Reduced information requirements
6	Exhaustive information requirements

\* Some interpretation required : changes pre- & post- BoA Decision A-11-2014 in 2017



### **IA challenges and approach**

- Restricted scope of the exercise
- Baseline supported with the BoA decision A-011-2014
- Cost estimations are very sensitive to the underlying assumptions

Concepts of 'nanoform' and associated 'set of nanoforms' was used as principal element of the assessment. A large number of assumptions was made.

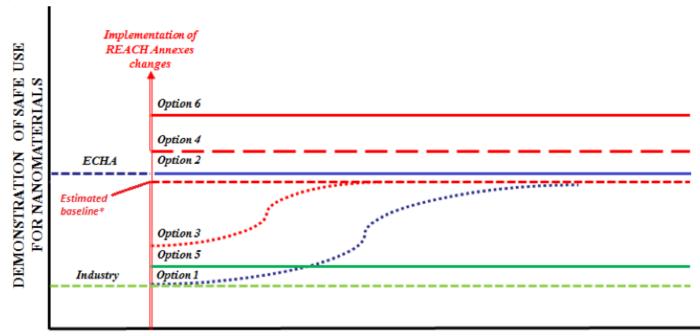


### **ASSESSMENT OF IMPACTS**

- Economic, Health, Environment, and animal use
  - Costs quantified
  - Benefits mostly qualitative- general findings on benefits of chemicals regulation on substances can be applied
- For options 2 to 6, 52 measures were identified and individually assessed (including cost and animal use)



#### **Description of options, evolution...**



TIME



#### **Preferred option**

- IA has led to a better understanding of the consequences of specific measures
- To increase efficiency of the solution, some measures have been slightly modified compared to what was proposed initially, and measures constituting the different options as set out originally have been combined.
- Preferred option is compiled as a mixture of all measures of option 2 and few measures of option 4 and 6.
- In discussions with MS in REACH committee, some measures are being modified/reconsidered



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### **IAR conclusions - preferred option**

- Most coherent with REACH and ensures legislation is fit for nanomaterials as for any other chemical
- Most cost-effective option that would attain the objective to ensure adequate demonstration of safe use for nanomaterials
- Animal use: option is "slightly above neutral" compared to baseline – subject to interpretation



#### **Elements**

- Transitional provision mandatory [1 Jan 2020]
- Fulfilling information requirements [Annexes VI, III & VII-XI]
  - Inclusion of 'definition' of <u>nanoform [NF]</u> and nanoform characterisation requirement
- Clarification statements [Annex I,XII]
  - If NF are covered by the registration, they must be addressed, assessment and conclusions documented and appropriate risk management measures identified
- Specific scientific-technical considerations [VI-XI]
  - Make the existing information requirements in Annexes VI to XI effective and applicable for NF 13



#### Annex VI (introductory guidance, nanoform)

# Fulfilling information requirements for substances with nanoforms (A VI-XI)

- Link the concept of nanoform, based on the Commission recommendation of the definition of nanomaterial\*, with the existing information requirements for substances
- Include minimum characterisation information on size, shape, surface treatment and surface area of the nanoparticles as part of substance identification for <u>nanoform or set of nanoforms</u>.

Also enables to establish relevance and adequate scope of the hazard information and chemical assessment

\*2011/696/EU. Review in progress. To be replaced by the revised Recommendation as soon as available

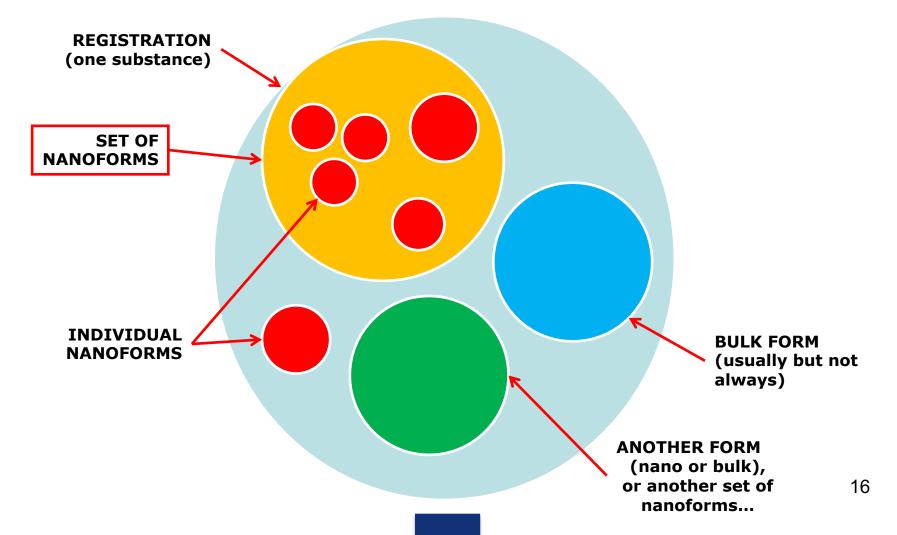


### **Discussions in the REACH committee**

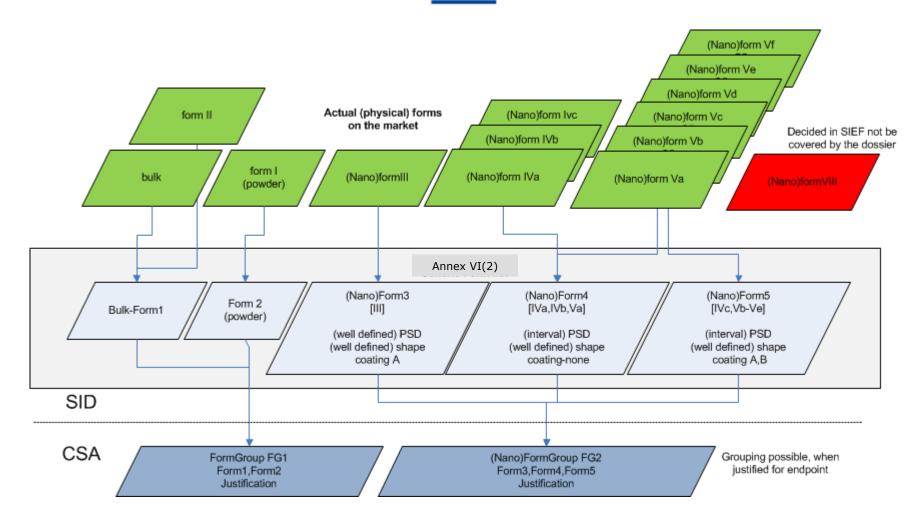
- Annex II (Safety Data Sheet)
  - Ensure consistency of provisions
- Clarity (Annex VI)
  - What is a nanoform? or Set or no set?
- Information requirements
  - Basic Physico-chem set of information Dissolution rate Agglomeration behaviour (dispersion stability)
  - Request relevant information
    - Acute toxicity / appropriate route Triggers/waivers/short-long term



#### **Nanoform concept**









# 2011/696/EU Review

- Delay in one step before last : public consultation
- After 12w consultation, analysis of feedback ->
  - Decision on revision and its individual elements
- Following Commission's adoption
  - Uptake in respective regulations (own processes)
  - Further conditions might still apply





# Principal elements to be consulted upon...

Similar but not the exactly the same...

- Materials, not products or components
- Definition based on (sizing of) <u>identifiable constituent</u> solid particles, external size 1-100nm
- Nanostructured materials excluded
- Particle number size distribution, 50% threshold (only)
- Supplementary definitions (particle, agglomerates, aggregates)





#### Further changes considered...

- VSSA
  - As way to exclude material as nanomaterial (<5 m<sup>2</sup>/cm<sup>3</sup>)
  - Guidance decision tree may include VSSA as a way to demonstrate material is a nanomaterial

#### • Materials explicitly included :

- Considering to replace existing derogation (fullerenes, graphene flakes and single wall carbon nanotubes ) with inclusion of counting also thin (1<nm) particles of elongated or plate-like shapes
- Views on this solution (or its alternatives) will be sought in the consultation, including
  - Identification of thus 'newly' included materials and their use
  - Impact of such inclusion, based on uptake

in the regulation (e.g. cosmetics)



European Commission