
New or increasing occupational exposure to chemical and biological agents

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Emerging occupational health risks

- Risk
 - Complexity: chemical mixtures
 - Ambiguity: nanotechnologies and nanomaterials
 - Uncertainty: endocrine disruptors, low doses
- Research → Risk assessment → Decision
 - Take into account knowledge and uncertainties
 - Research on methods for risk assessment (i.e. chemical mixtures)
 - Qualify and quantify dimensions of the risk
→ recommendations
 - Research on exposure assessment

OE to chemical and biological agents

- CMR and sensitising substances
 - Bio-metrology for occupational exposure (development of appropriate biomarkers)
 - Exposure factors (variability in exposure measurements)
- Research on substitution
 - CMR
- Burden of diseases
 - Cancers attributed to occupational factors
 - Long term health effects of chemical agents
 - Cancer and respiratory diseases : diesel exhausts, asphalt products, pesticides...

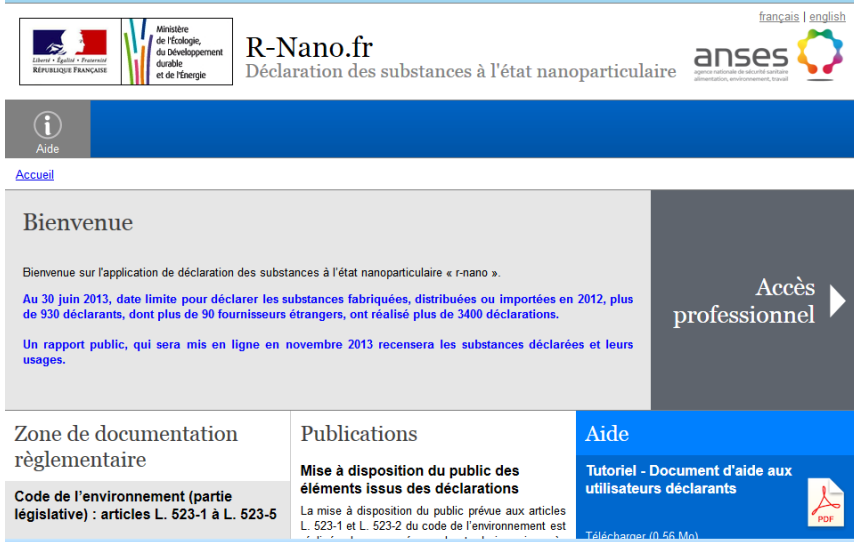
Endocrine disruptors : French strategy

- Prioritization of substances
- Research : specific program
 - To improve knowledge on occupational exposure to products containing endocrine disruptors or reprotoxic substances
 - Vulnerable populations → Prevention
- Expert assessment : recommendations for risk management (i.e. Bisphenol A)
 - REACH, CLP regulation
 - OEL (atmospheric, biological)
 - Substitution

Nanomaterials : uncertainties and needs

- Definition and common terminology
- standard protocols for toxicological testing
- Development and standardization of techniques and measurement instruments
- Calibration protocols and certified reference materials to validate the testing instruments
- Relevant and complete exposure scenarios...

French compulsory declaration



français | english

Ministère de l'Écologie, du Développement durable et de l'Énergie

R-Nano.fr
Déclaration des substances à l'état nanoparticulaire

aneses
agence nationale de sécurité sanitaire
alimentation, environnement, travail

Aide

Accueil

Bienvenue

Bienvenue sur l'application de déclaration des substances à l'état nanoparticulaire « r-nano ».

Au 30 juin 2013, date limite pour déclarer les substances fabriquées, distribuées ou importées en 2012, plus de 930 déclarants, dont plus de 90 fournisseurs étrangers, ont réalisé plus de 3400 déclarations.

Un rapport public, qui sera mis en ligne en novembre 2013 recensera les substances déclarées et leurs usages.

Accès professionnel

Zone de documentation réglementaire

Publications

Aide

Code de l'environnement (partie législative) : articles L. 523-1 à L. 523-5

Mise à disposition du public des éléments issus des déclarations

Tutoriel - Document d'aide aux utilisateurs déclarants

La mise à disposition du public prévue aux articles L. 523-1 et L. 523-2 du code de l'environnement est

Télécharger (0,56 Mo)

<https://www.r-nano.fr/>
(FR/ENG)

Public Report (November 2013)
provided by Anses :

- ☞ Name of the substances declared
- ☞ Use of the substance

>3,400 declarations

- June 30th 2013 : End of the declaration for year 2012

☞ > 930 registrants,

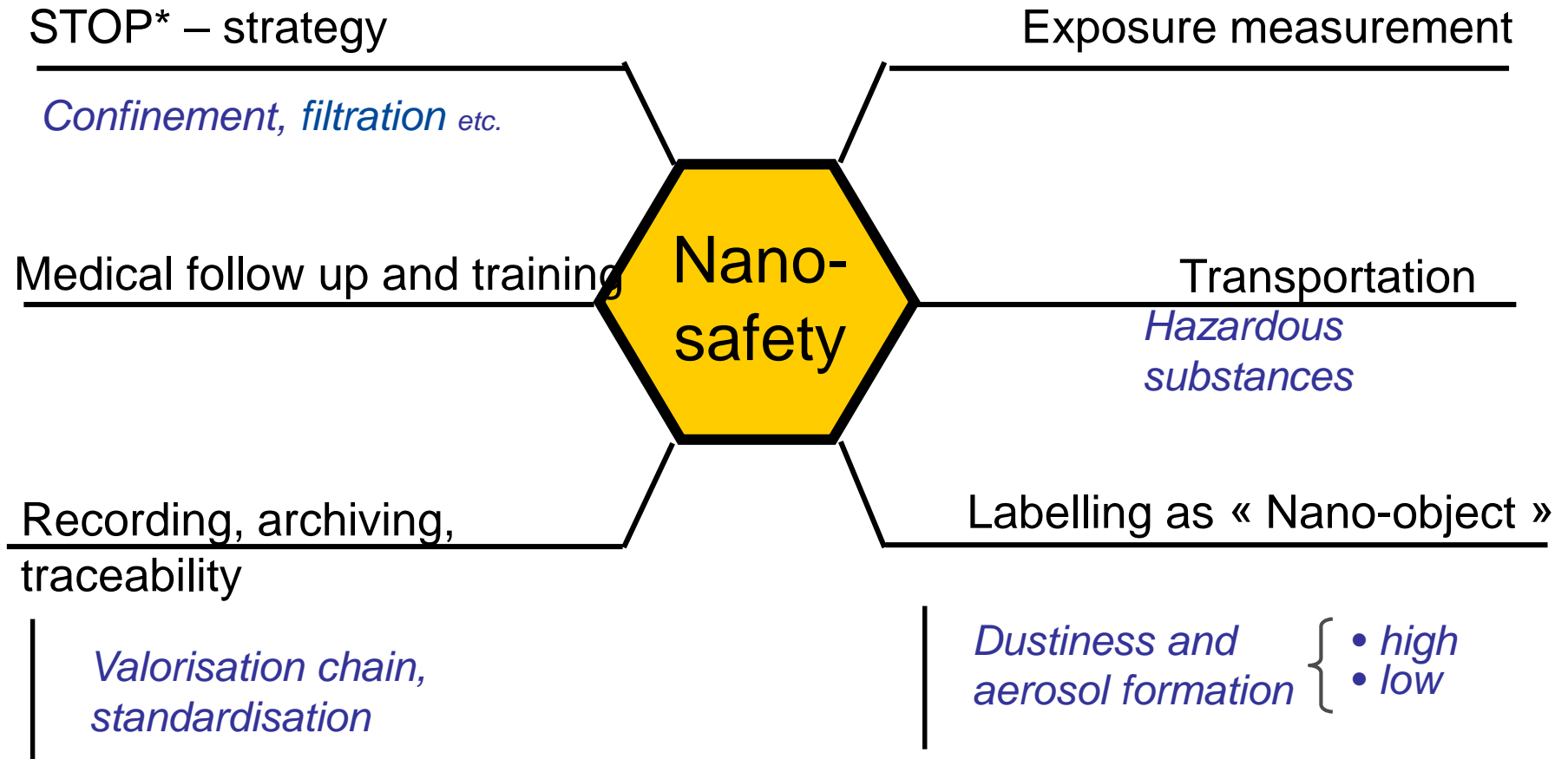
☞ > 90 importers to France

French compulsory declaration

- The information to be declared
 - Identity of the declarant
 - Identity of the substance at the nano-scale :
Chemical composition, distribution, size, aggregation, agglomeration, shape, crystalline state, specific surface, surface charge, surface chemistry, coating
 - Quantity
 - Uses
 - Identity of professional users.

OSH : Use of Good Practices

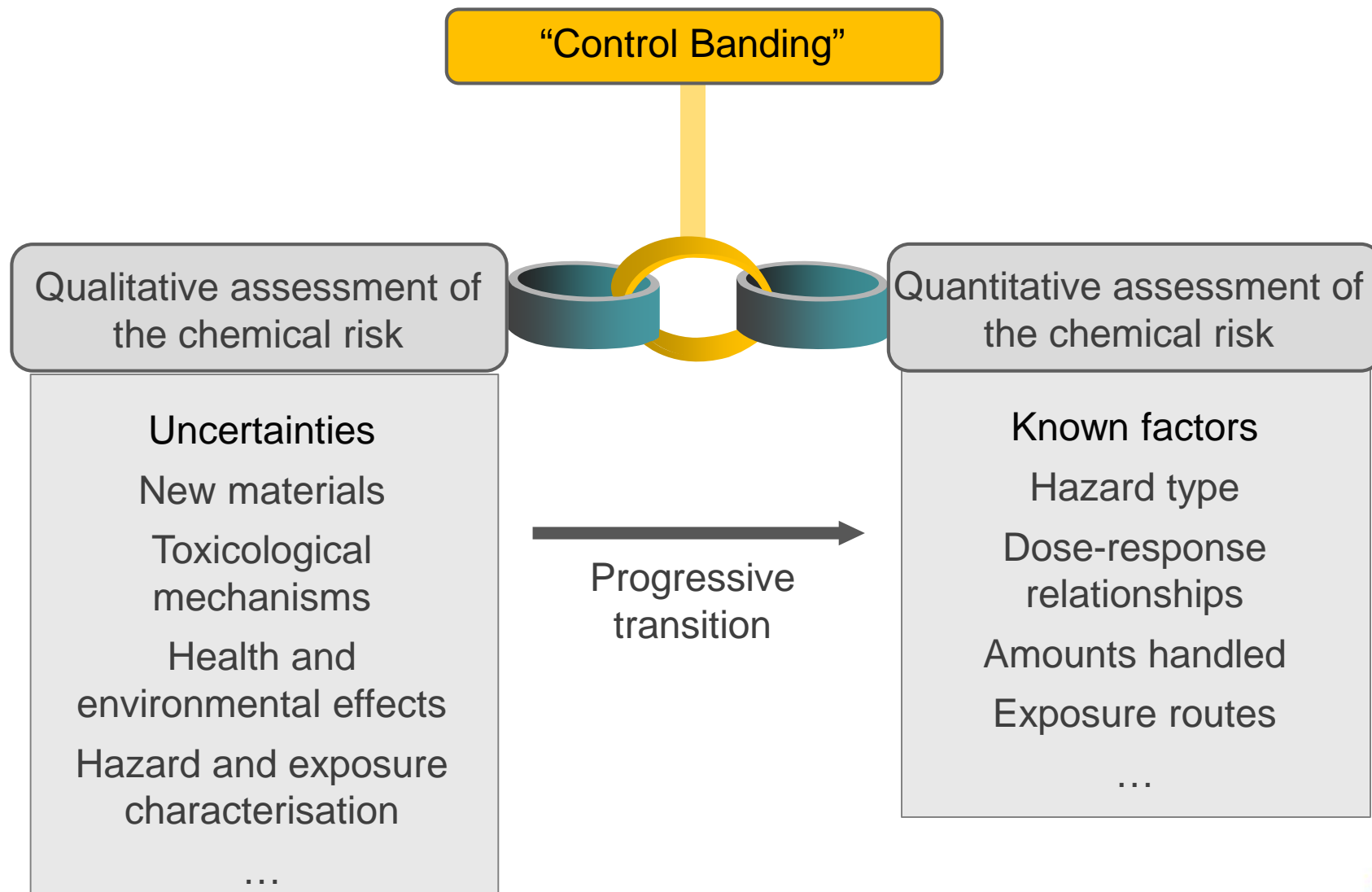
Anses' Recommendations



STOP* – substitution, technical, organizational, personal

A risk assessment in a context of uncertainty

Anses (2010)



Biological agents

- To document hazard by new methods : detection techniques including quantitative approaches, molecular tools, indicators
- To document the actual worker exposure to bioaerosols and different biological agents
- To determine the impacts of emissions from processes used in the development of recovery of waste and by-products

Thank you for your attention

<http://www.anses.fr>