Proposing a Roadmap and a European policy for the nano-safety in the construction sector

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Benoît Hazebrouck, Íñigo Larraza Álvarez, with the Scaffold consortium

1 EU-VRI, bh@eu-vri.eu
2 Acciona, inigo.larraza.alvarez.EXT@acciona.com
Objectives

Highlight main Barriers to a plainly satisfactorily solutions
Propose concrete & realistic Objectives and Actions

Method

Review

Feedback from project

Extensive stakeholder consultation:
• Workshops, meetings, surveys, interviews, document reviews
• Construction Industry: federations, OHS Managers
• Manufacturers of construction products / of PPEs
• Policy makers, OSH agencies (EU, national)
• Experts in nanosafety ...

Your feedback is welcome!
**Innovative strategies, methods and tools for occupational risks management of manufactured nanomaterials in the construction industry**

## OSH information down the user chain

<table>
<thead>
<tr>
<th>Issue</th>
<th>Objectives</th>
<th>Actions</th>
<th>Ordering</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>Better transmission of OSH information down to final products</td>
<td></td>
<td>1. <strong>Initial check</strong> of MSDS of construction products =&gt;&lt;br&gt;- feedback to individual producers&lt;br&gt;- <strong>guide</strong> for producers</td>
<td>Ind. OSHAs Adm.</td>
<td>2015-16</td>
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<td>2. <strong>Routine control</strong> of some MSDS of construction products</td>
<td></td>
<td>2017-</td>
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<td>Notification of products containing nanos</td>
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*Ind.: industry; OSHAs: OSH Agencies; Adm: administration: EC, national ministries*
### Exposure and risk assessment

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<tr>
<td>Establishment of OELs</td>
<td>1. Hierarchize the needs (compounds), function of hazard, exposure potential,... 2. Support on-going works on OELs for priorities, incl. background research</td>
<td>OSHAs Adm.</td>
<td>Now</td>
<td></td>
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<tr>
<td>Better adequation of measurement capacities for assessment needs</td>
<td>1. <strong>Optimize use of current devices:</strong>  - clarification for each device  - objective-based measurement strategies: f(compound, OEL,..) 2. Identify &amp; <strong>hierarchize remaining gaps</strong> 3. R&amp;D focusing on the priorities</td>
<td>OSHAs Adm., Device manufact.</td>
<td>Now</td>
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| Availability of typical exposure data in some activities | Support the development of and access to the PEROSH or other exposure database for ENMs  
Launch **study on typical exposure** for certain activities: drilling, demolition,...: 1. Review 2. Pilot studies if/where relevant | OSHAs Adm. | 2015-16 | |

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## Awareness and best practices

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|       | Raise awareness, disseminate best practice, increase the culture of safety | 1. Disseminate Scaffold, incl. at nat. level   
2. Develop the **Technical Specification** (TS) for the management of occupational nano-risk in construction   
3. **Translate**, integrate Scaffold in national tools (e.g. OSH factsheets)   
4. Develop a **professional training** and certification of competencies for occupational nanosafety at EU scale, with developments for the construction sector   
5. Keep scaffold toolkit & co **up-to-date Information** campaign: NPs in products, exposure, solutions; websites, prof. journals, trade fairs, OSH authorities,... | Scaffold | 2015-16 |
|       |            | Explicite inclusion of nanosafety in the **proof of compliance for OSH**   
ENM specific best practice at the workplace   
Prescribe exact PPEs for construction   
ENM specific OSH regulation | OSHAs Adm. | Now |

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Final thoughts: who can do (part of) the work?

Studies, measurement strategies, training & certification, updates...

Expertise: # scientific/academic science
• Transferring science into operational tools for the market
• Connected to science, industry, administrations
• Ready for compromises, pragmatic approaches

Sustainable, for continuity in the approach, regular updates
European, for homogeneity of approach, representativeness of solutions
Pluri-disciplinary

➡ Suggestion:

European structure gathering expertise institutes
Acknowledgement

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