

NANoREG

Grant Agreement Number 310584

Deliverable D 2.1

Establishment of primary MNM sample suite and web-based resource for sample order

Due date of deliverable: 2013/12/31

Actual submission date: 2014/01/22

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Work package/task:	WP2 / Task 2.1
Document status:	draft / <u>final</u>
Confidentiality:	confidential / restricted / <u>public</u>
Key words:	Core selection Nanomaterials, web-based ordering system

DOCUMENT HISTORY

Version	Date	Reason of change
1	2014/03/05	The nature of D2.1 is 'other'. In order to submit this achievement to the participants portal of the EC the template for a deliverable is simplified and used.
2	2017/03/07	Project Office harmonized lay-out
3		
4		

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*This project has received funding from the European Union
Seventh Framework Programme (FP7/2007-2013)
under grant agreement no 310584*



Lead beneficiary for this deliverable: Det Nationale Forskningscenter for Arbejdsmiljø, NRCW, partner number 4

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1 Description of task

Deliverable 2.1 is related to Task 2.1: MNM synthesis and procurement. The MNM suite and existing physico-chemical characteristics will be made available for ordering using an internal web-based interface.

1.1 Summary

A internet-based resource for ordering and retrieving the physicochemical characterization data on the NANoREG MNM was developed and fully established. This so-called NANoREG Nanomaterials Information and Web-Order (NIWO) system, can be reached directly at <http://www.nanoreg-materials.eu/> or uplinked from the partner area of the NANoREG homepage. The NIWO system concluding D2.1 contains all available physicochemical characterization data on both the 19 NANoREG core MNM and additional 49 MNM to be used for specific purposes.

1.2 Description of the work carried out.

1.2.1 Primary MNM sample suite

The decision on the core NANoREG MNMs was based on the outcome of a Workshop held at National Research Centre for the Working Environment in Copenhagen September 30 to October 1, 2013 and distributed by the NANoREG Coordinator Tom van Teunenbroek on November 20, 2013 to NANoREG-partners. The final selection of the core NANoREG MNM was chosen based on their industrial relevance, also considering their availability, and includes, among others, silicon dioxide, titanium dioxide, carbon nanotubes, zinc oxide, silver, and nanocellulose as reported in the following table.

Type of MNM	MNM Identification codes used by NANoREG
Titanium Dioxide	NM101, NM102, NM103
Silicon Dioxide	NM200, NM203
Zinc Oxide	NM110, NM111
Cerium Dioxide	NM212
Barium Sulphate	NM220
Silver	NM300K, NM302
Carbon Nanotubes (single and multi-walled)	NM400, NM401, NM410
Nanofibrillar cellulose	NFC Fine, NFC Medium-coarse, UPM Biofibrils AS, UPM Biofibrils NS, UPM Bleached Birch Pulp

Core set of MNMs chosen within NANoREG

1.2.2 Web-based ordering system

All selected NANoREG MNM are fully available from the NIWO system, which can be reached at <http://www.nanoreg-materials.eu/>. The web-order system displays the key physico-chemical characteristics of the MNM generated in various projects. These data will be updated periodically as new data and missing data becomes available due to the continuous effort of D2.2.

Web-based e-learning tools for partners who order MNM and the distributors are available from the menu "About" in the upper left corner of the web-page: <http://www.nanoreg-materials.eu/About>.

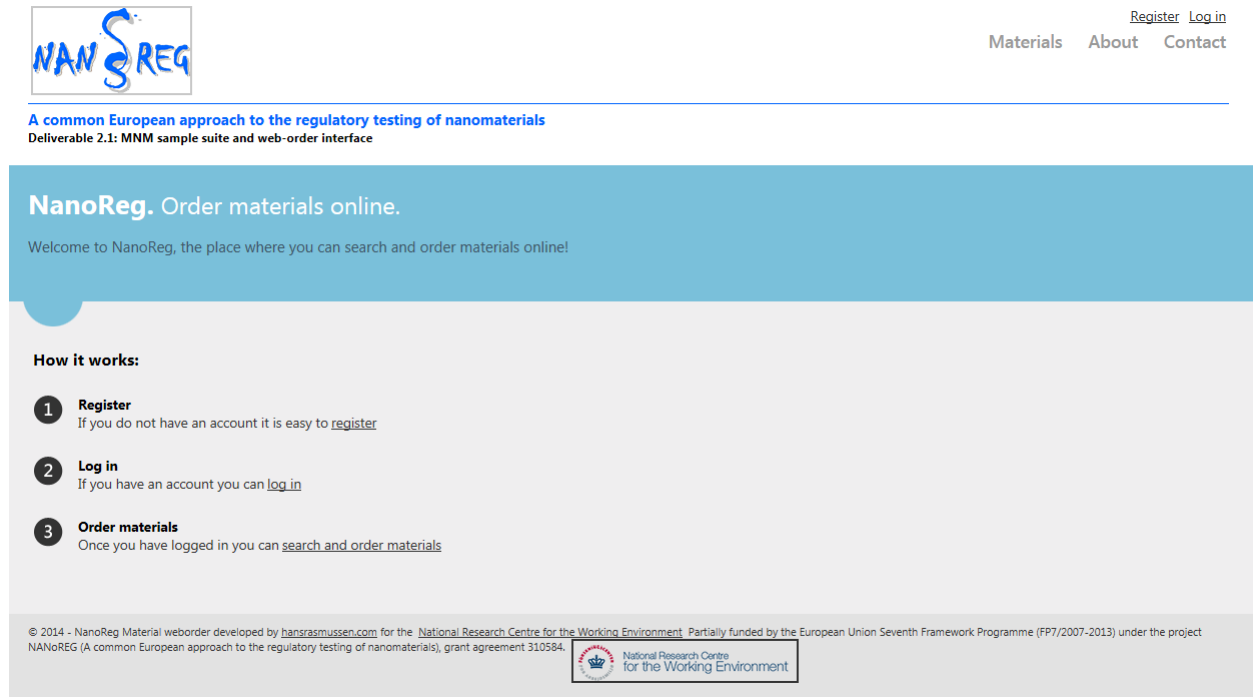
All "customer" contact, final billing (if necessary) and shipment is the responsibility of the distributors. Material distributors have to update their material status (availability) and customer contact on *no less than a weekly basis*. A stock warning is available in the system, so the distributor gets a warning when the stock reaches a self-defined critical amount. This is a trigger for the distributor that new series of subsampled MNM needs to be prepared.

Daily maintenance of the web-order system and helpdesk functions are offered by NRCWE as part of the NANoREG project.

The copyright to the <http://www.nanoreg-materials.eu/> software belongs to the web-designer Hans Rasmussen, Lindmätargatan, S-218 38 Bunkeforstrand, Sweden and is specified on the web-page. The material web-system has been developed and designed by Keld Alstrup Jensen at NRCWE in collaboration with Hans Rasmussen (web-designer). The basic design was approved by the D2.1 deliverable leader, JRC.

1.3 Results

A screen shot of the front page of the NANoREG NIWO-system



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A common European approach to the regulatory testing of nanomaterials
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NanoReg. Order materials online.
Welcome to NanoReg, the place where you can search and order materials online!

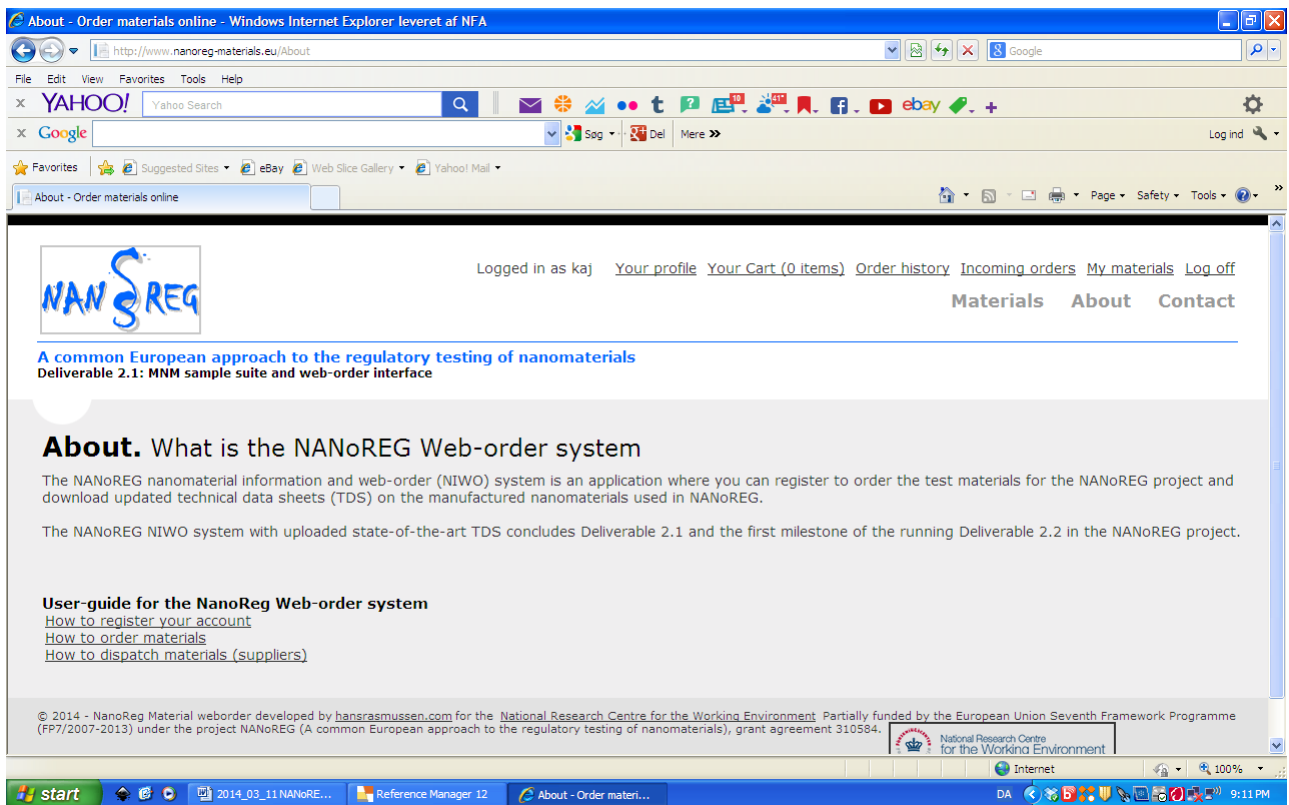
How it works:

- 1 Register**
If you do not have an account it is easy to [register](#)
- 2 Log in**
If you have an account you can [log in](#)
- 3 Order materials**
Once you have logged in you can [search and order materials](#)

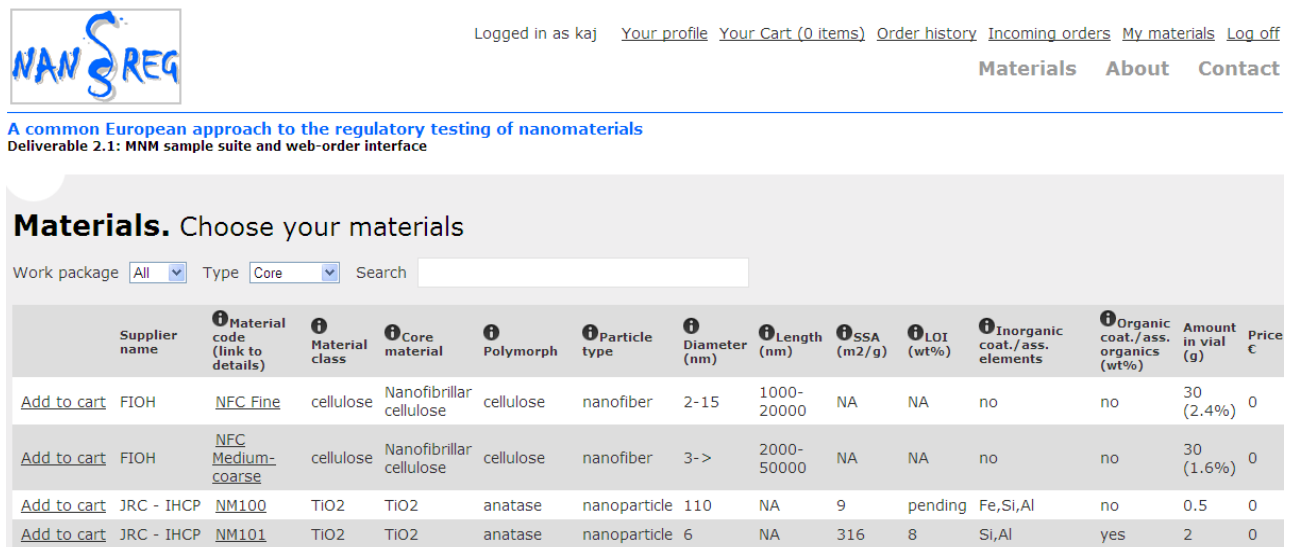
© 2014 - NanoReg Material weborder developed by hansrasmussen.com for the [National Research Centre for the Working Environment](#). Partially funded by the European Union Seventh Framework Programme (FP7/2007-2013) under the project NANoREG (A common European approach to the regulatory testing of nanomaterials), grant agreement 310584.



A screen shot of the online web-order and information system in the NANoREG NIWO-system.



A screen shot of the core MNM page of the NANoREG NIWO-system.



A screen shot of the nanomaterial information page in MNM page of the NANoREG NIWO-system.



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Material.

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Property	Value
Supplier	JRC - IHCP
Material code	NM100
Material class	TiO2
Core material	TiO2
Polymorph	anatase
Particle type	nanoparticle
Xrd size (nm)	56.7 to > 100 nm
Sigma xrd	

1.4 Evaluation and conclusions.

A suite of NM has been established. All selected NANOREG MNM are now available for order. This concludes D2.1.