

# **NSC WG4 on Databases**

Syracuse, 7 October 2014

# Community Building

- regular monthly telcons
  - typically 5-10 people on the call
- three joint tasks
- 91 people on the mailing list



## Tasks

1. **2013-1** [Updated list of \(NSC\) Databases](#)
2. **2013-2** [Overview and recommendation of data quality](#)
3. **2014-1** [Publisher needs for repository storage of nanosafety supplementary data](#)

# Database Survey Results

## Summary of the Spring 2014 NSC Database Survey

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### **Abstract**

The NanoSafety Cluster Database working group organized in Spring 2014 a survey for the community to summarize the current state of databases and including questions of a more

# What did the survey ask?

1. general info (website, owners, ...)
2. type of content
3. how can data be looked at
  - a. HTML, PDF, Excel, ...
4. Application Programming Interfaces (APIs)
  - a. REST, SOAP, ...
  - b. Format standards
5. Semantics
  - a. ontologies, ...
- 6.

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5. Semantics
  - a. ontologies, ...
6. Licensing
  - a. *is the licensing clearly stated?*

# Parallel session today

- introduction round
- eNanoMapper demo by Nina Jeliazkova
  - see also talk on Thursday!
  - see <http://data.enanomapper.net/>
- discussions
  - interoperability, linking databases
  - ISA-TAB(-Nano) templates
  - figuring data rights at the end

Name (Institute)	NSC Project(s)	WG4 Tasks	Interests
Christoffer Åberg (University College Dublin)	NanoTransKinetics	<a href="#">2013-2</a>	Modelling of nanoparticle-cell interactions
David Carlander (Nanotechnology Industries Association)	MARINA, NanoEIS, NanoLyse, NANoREG, Scaffold		Risk assessment, legislation, regulatory toxicity, applications, innovation, SME support
Barry Hardy (DouglasConnect)	eNanoMapper		
Sonja Hartl (BioNanoNet Forschungsgesellschaft mbH)	NANoREG		Regulatory and Standardization Aspects of ENM; Risk assessment, Toxicity; Innovation, Communication & Dissemination
Nina Jeliazkova	eNanoMapper		databases, ontologies, APIs, prediction, toxicology, QSAR
Richard Marchese Robinson (Liverpool John Moores University)	NanoPUZZLES		chemoinformatics, QSAR, data models,
Axel P. Mustad (NQCG)	MARINA, NANoREG, eNanoMapper	<a href="#">2013-1</a>	Ontology learning, Databases, Semantic Web Technologies, Nanotechnology, Standardisation, e-Infrastructures, Technoeconomics, Risk Assessment and Transfer
Willie Peijnenburg (RIVM)			
Robert Rallo (Universitat Rovira i Virgili)	MODERN		nano-QSAR, Machine learning, databases
Hubert Rauscher (JRC)			
David Vorgrimmler (In Silico Technologies)	Mod-Nano-Tox, eNanoMapper		
Egon Willighagen (Maastricht University)	eNanoMapper		Machine learning, Toxicity Pathways, Computational Representation