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# Introduction: Engineered Nanomaterials and Public Health

- The Nano Scale
- Product Lifecycle
- Data Gaps and Uncertainties
- Summary and Opportunities



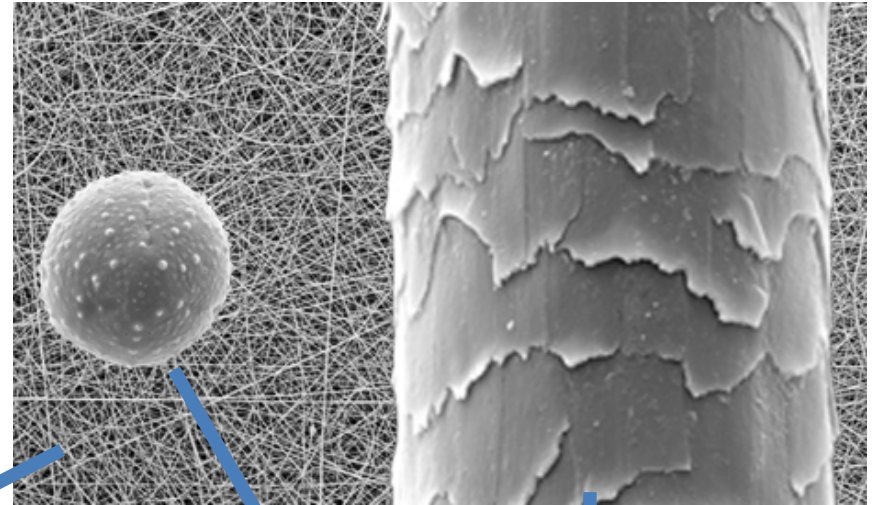
## Presenter Disclosure

Gabriele Windgasse, Dr.PH

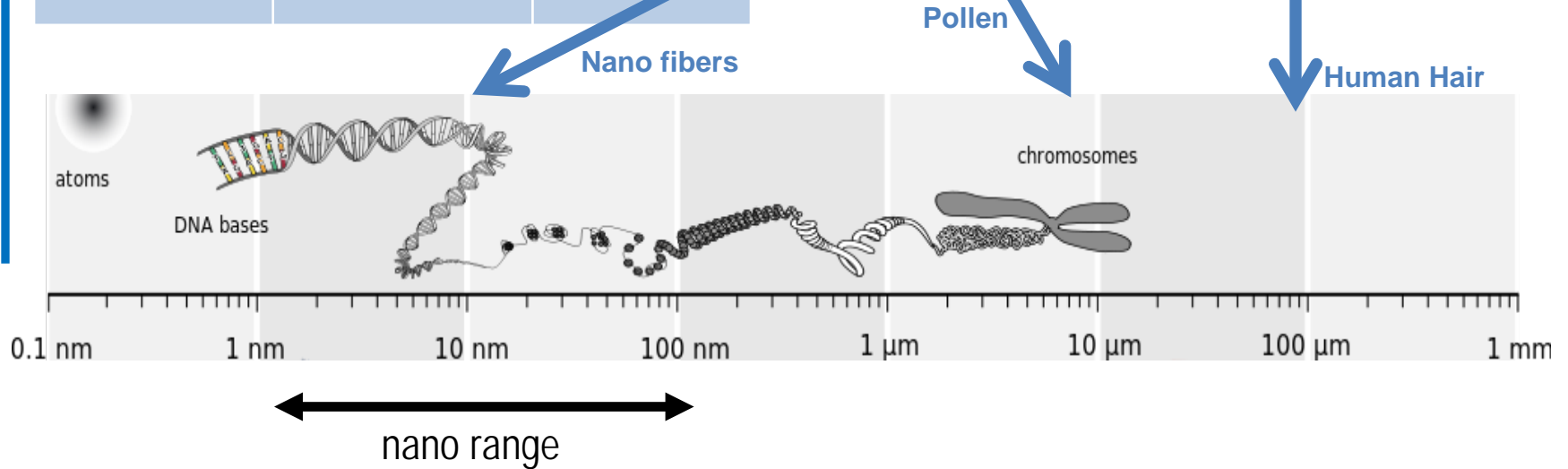
“No relationships to disclose”

# The Nano Scale

Nano Materials (Ultrafine PM: < 100 nm)		
Naturally occurring	Incidental	Engineered
ocean spray friction erosion	combustion laser printers welding fumes	designed properties/ functions

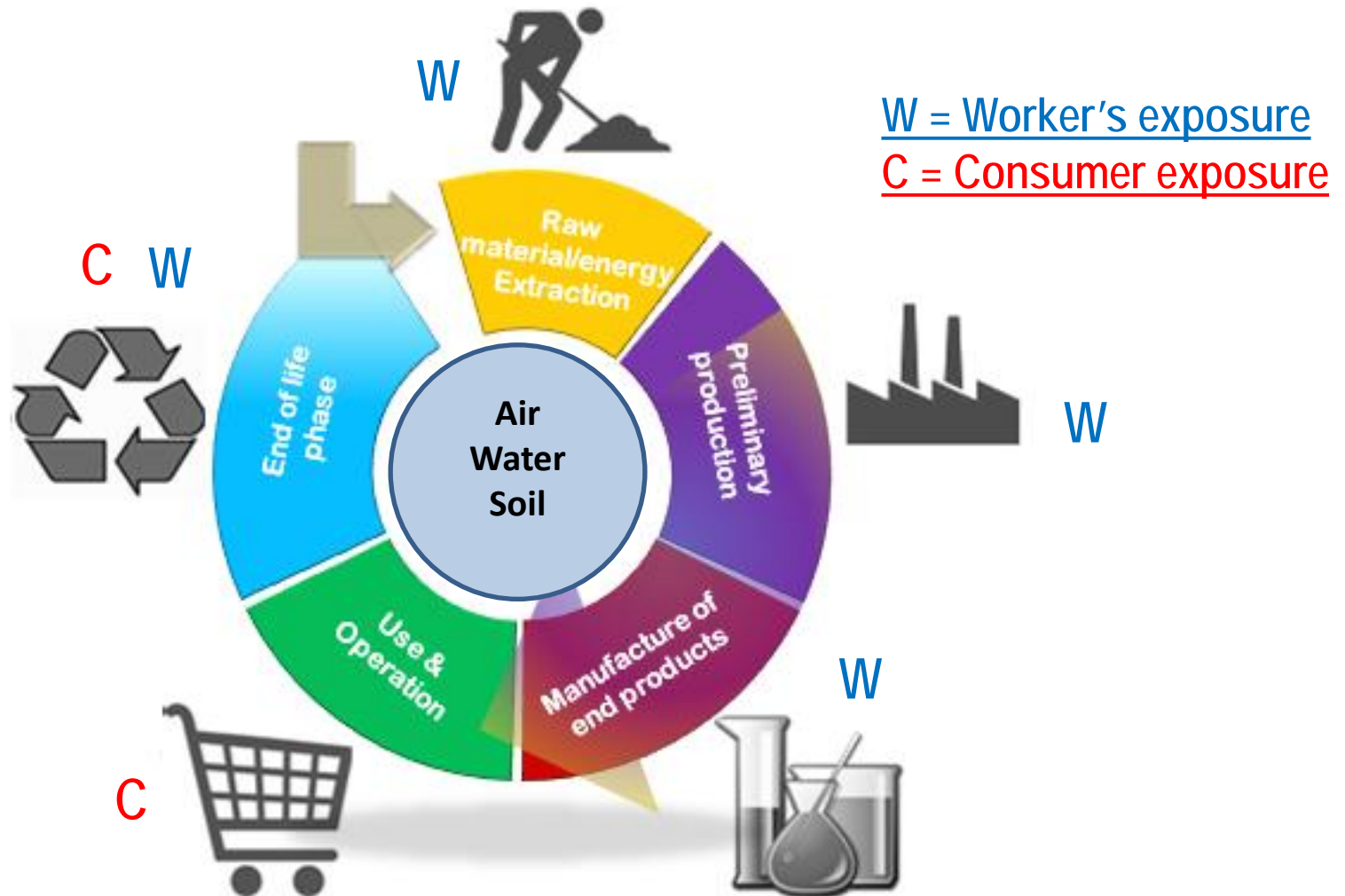


[www.elmarco.com](http://www.elmarco.com)

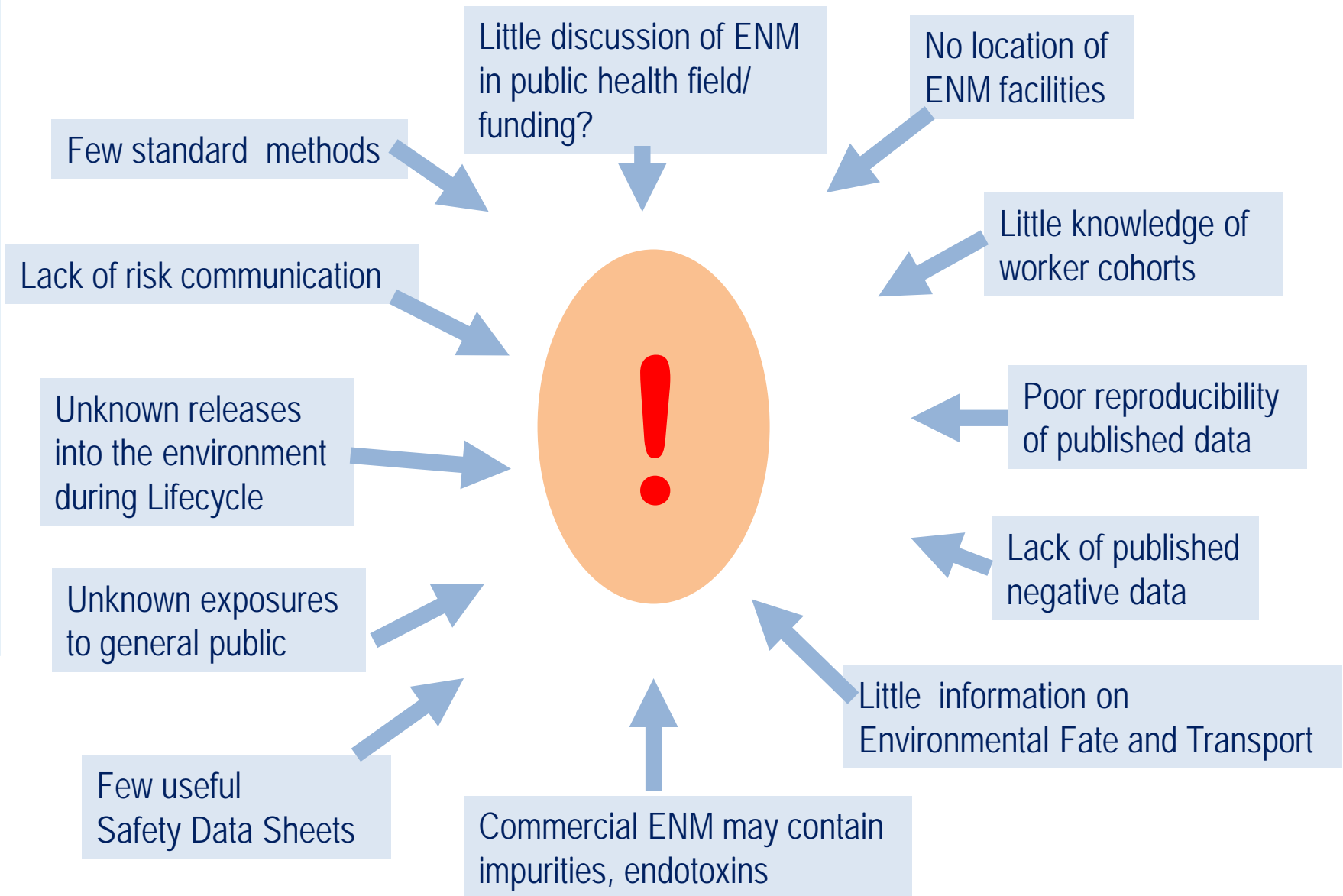


# Product Lifecycle: ENM

Exposures to humans & releases into the environment: UNKNOWN !



# ENM: Data gaps and uncertainties !



# Summary and Opportunities

- Great potential for beneficial uses!
- Large gaps in data, knowledge and infrastructure, especially related to toxicology
- Increasing number of products
- Unknown exposures to consumers and workers
- Unknown releases into the environment

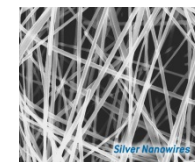
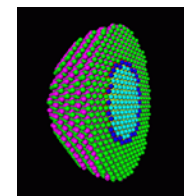
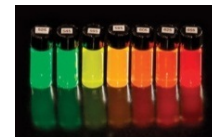
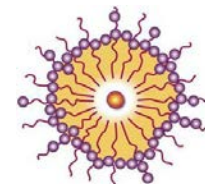
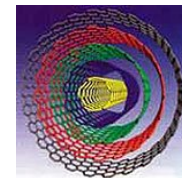
Unknown consequences for Public Health

## Opportunities:

- 7 Forums for EHS of ENM: [www.us-eu.org](http://www.us-eu.org)
- France: EpiNano
- DoE: Registry for nano workers (DoE O 456.1)

# Thank you!

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