

LONDON 2015



10th IOHA International  
Scientific Conference



# The need for international alignment of OH tools

And IOHA's role in this

*The most comprehensive database of OEL's and measurement methods*



[www.dohsbase.com](http://www.dohsbase.com)  
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# Agenda

- The jungle of OH Tools
- alignment needs
- Role of ICBW and IOHA



# The jungle of OH tools

<http://www.tsac.nl/websites.html>



- OELV
- Health hazard classification
- Control Banding
- CB based Models
- Compliance Statistics
- Handling Mixtures

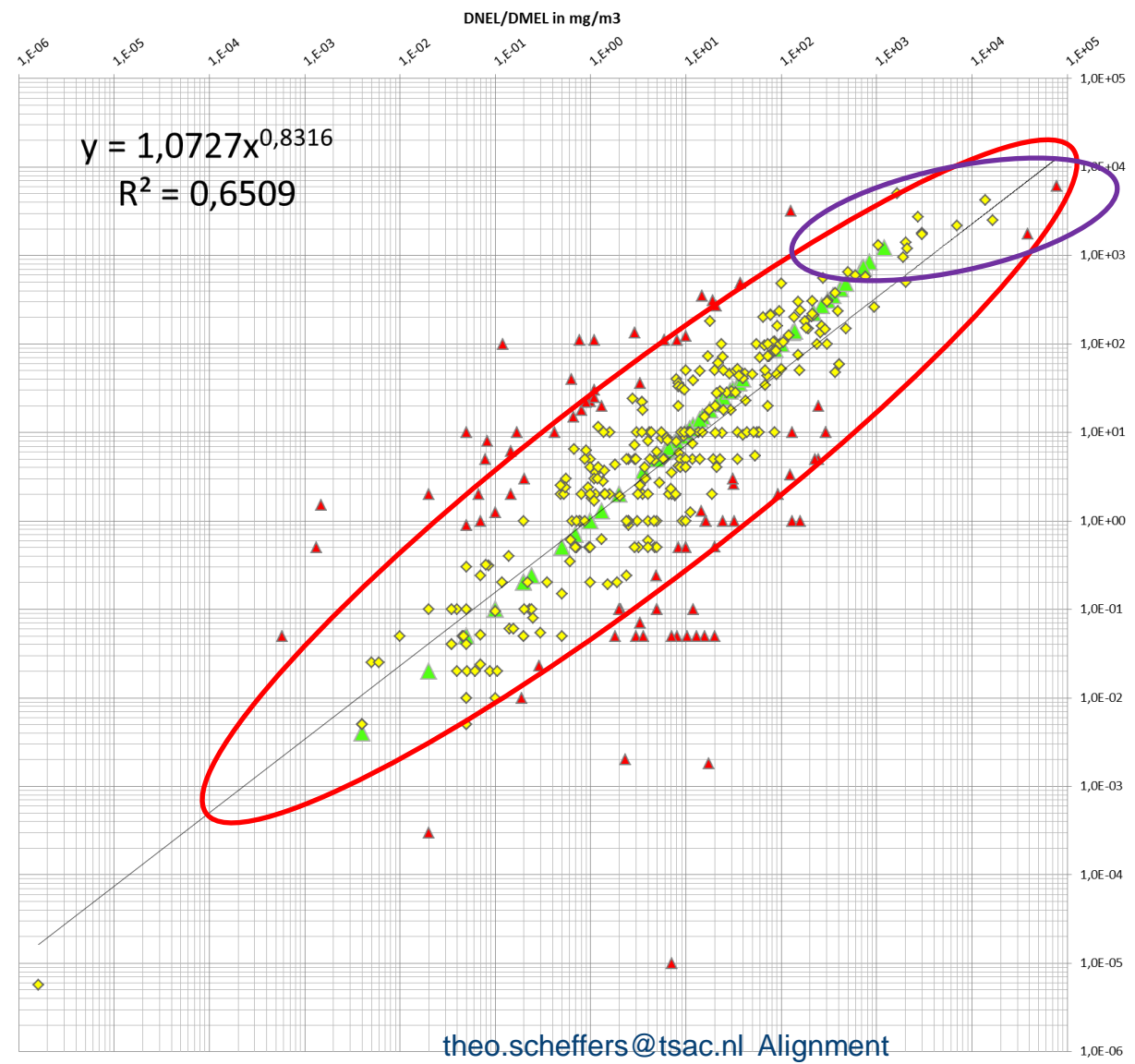


The Chartered Society for  
Worker Health Protection



# REACH DNEL

DNEL (May 2014) versus OELV, 475 datapoints



OELV

# *Substances professionally used*

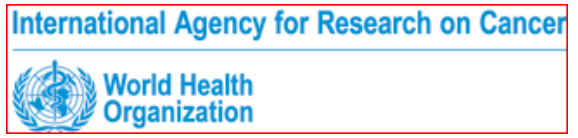
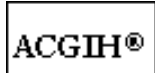


- DOHSBase collection: 260.000 CAS#/EC#/public#
- 110.000 EU notified as dangerous
- ~6000 with  $\geq 1$  OELV or DNEL (2500 and growing)
- 6 level hierarchy of OELV (see pres. Geert)
- Many substances with  $\geq 5$  different  $TWA_{8\text{ hr}}$  OELV at different levels of hierarchy

# Toys for boys & girls



- OELV
- HH classification
- Control Banding
- CB based Models
- Compliance Statistics
- Handling Mixtures

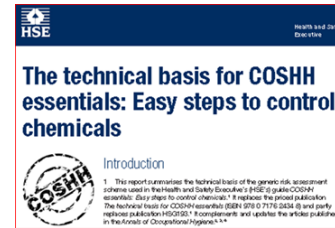


# HH based Control



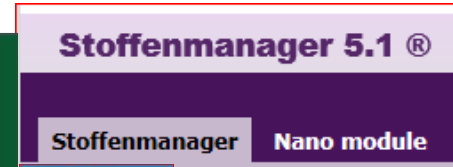
- OELV
- HH classification
- Control Banding
- CB based Models
- Compliance Statistics
- Handling Mixtures

EMKG



+ >11

IFA

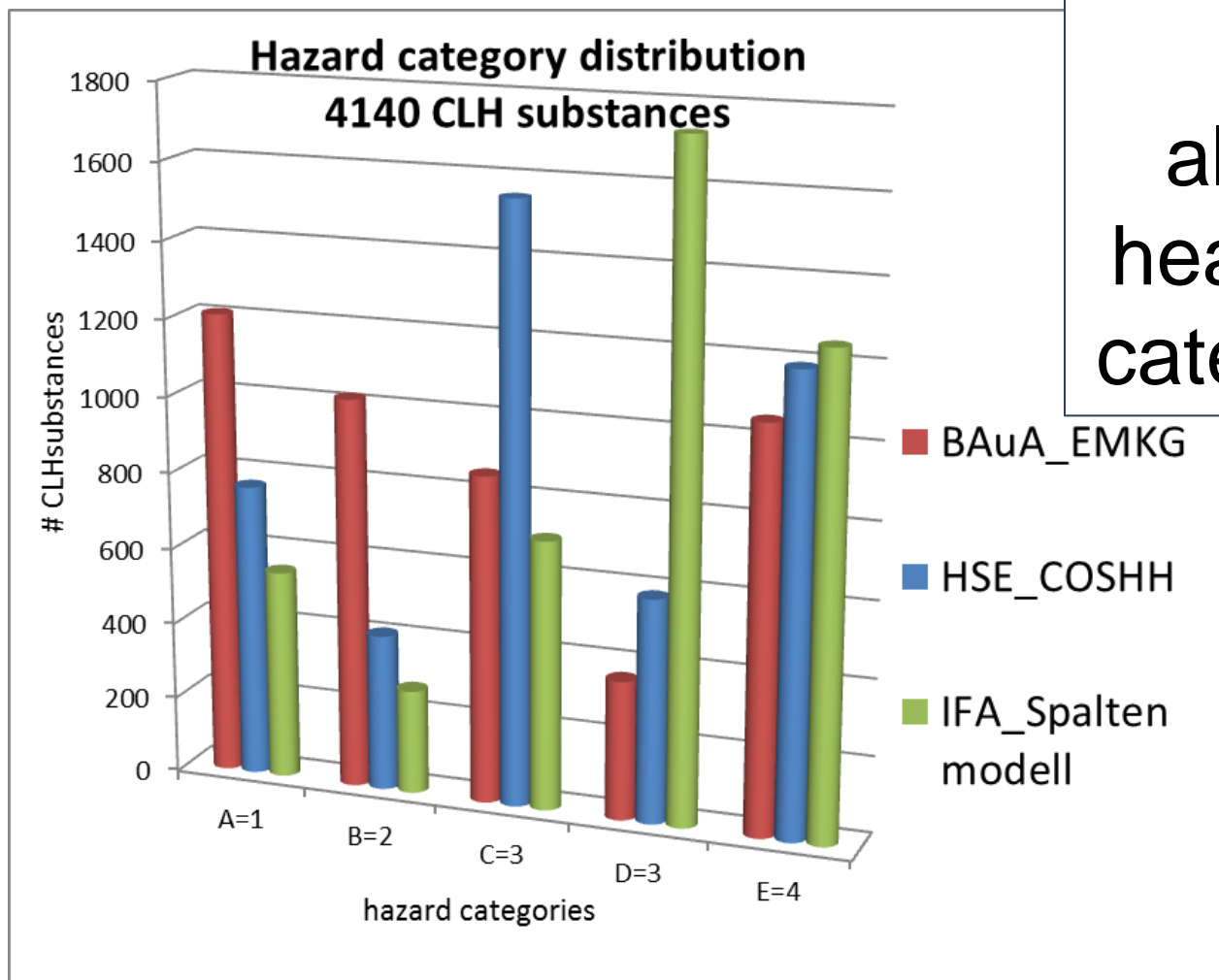


+ >3





# Comparing 3 Health Hazard Categorizations



Need for alignment in health hazard categorization



# Compliance testing tools



- OELV
- HH classification
- Control Banding
- CB based Models
- Compliance Statistics
- Handling Mixtures

BW  
stat

EXPOSTATS

**SPEED**

**HYGINIST**  
HYGINIST version 4.3.4

IHDataAnalyst

Altrex Chimie



**Multilingual IHSTAT+**



# Mixture tools



- OELV
- HH classification
- Control Banding
- CB based Models
- Statistics
- Mixtures

 <b>DOHS<sup>B</sup> SE</b> ((( COMPARE )))	$\sum_{i=1}^{i=n} \left( \frac{C_i}{OELV_i} \right) \leq 1$	Lead substance
		<b>XLUNIFAC</b>
<b>DPD+</b> Sum Score		

# Conclusion

- Different OH tools are doing the same
- Mixture tools need further development
- Stop support copycat tool development
- Alignment of Health Hazard Categorization high priority within ICBW
- Focus on mutual validation and alignment
- IOHA focus on tools “integration”

# Alignment recommendations



- 8ICBW item 2015-2020
- IOHA 2018 item
- Alignment Award ?
- Combine existing inventories of tools
- Criterion to receive international grants/subsidies
- Communicate and find support within WHO/OECD/ILO/EU/ECHA...

*Thanks!*  
*Questions & suggestions?*

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London Metropole Hotel



**IOHA & BOHS 2015**  
London: Building on Occupational Hygiene Together

[www.iohalondon2015.org](http://www.iohalondon2015.org)