

# Identifying and Monitoring the Factory Damages

[BenchMarkData.MedDataXtract.com](http://BenchMarkData.MedDataXtract.com)

*Data comparison and benchmarking solutions*



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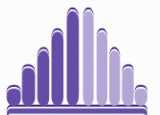
# Case study

In IBANX-HSE, people in over 100 factories are relying on UniteT to carry out their operational processes as efficiently as possible, resulting in the least

- a. possible damage to humans,
- b. nature and
- c. the environment

Using the comparison tool of BenchMarkData, one can setup a scheme to measure the damages to human, nature or the environment by recording the outcome of a **measure or an analyte**. This helps simplifying the entire monitoring process and provides analytical knowledge on the data for future improvements.

Measure/Analyte : a measurable factor in quantitative or qualitative outcomes.



# Identify scheme matrix

Step 1: Identify what needs to be measured (specific to the industry).

In this case study, we create 3 method groups

		Method Group 1: Possible damage to humans	Method Group 2: Nature	Method Group 3: Environment
scheme matrix	Method group			
	Method	Instrument: No. of accidents <b>Measure/Analyte: count</b>  Instrument: Diseases <b>Measure/Analyte: count</b>	Instrument: Air quality <b>Measure/Analyte: carbon monoxide (CO), nitrogen dioxide (NO2), ozone (O3), particulate matter (PM2.5 and PM10), sulphur dioxide (SO2), and hydrogen sulphide (H2S)</b>  Instrument: Water quality <b>Measure/Analyte: Temperature (C), Dissolved Oxygen (DO) and pH (acid/base)</b>	Instrument: Environmental pollutants <b>Measure/Analyte: Carbon dioxide (CO2 level), Zinc (Zn), Copper (Cu), Chromium(Cr), Arsenic (As), Cadmium (Cd) ,Lead (Pb) and Dioxins</b>

# Scheme setup

Step 2: Scheme matrix is translated into the comparison tool.

The screenshot displays the 'benchmark setup options' interface, which is divided into three main sections: 'analytes', 'method specifications', and 'methods'. Red arrows indicate the flow of data from the 'analytes' and 'method specifications' sections to their respective data tables.

**analytes**

delete	analyte	symbol	type	target	sorter
<input type="checkbox"/>	Carbon dioxide	CO2	quantitative	± 0 % 0	units/references
<input type="checkbox"/>	Zinc	Zn	quantitative qualitative qualitative images / movies	± 0 % 0	units/references

**method specifications**

instrument Environmental pollutants

company Ibanx-HSE environment device

delete	analyte	manufacturer	method group	principles	reagent	calibrator
<input type="checkbox"/>	CO2		Environment	...		

Zn

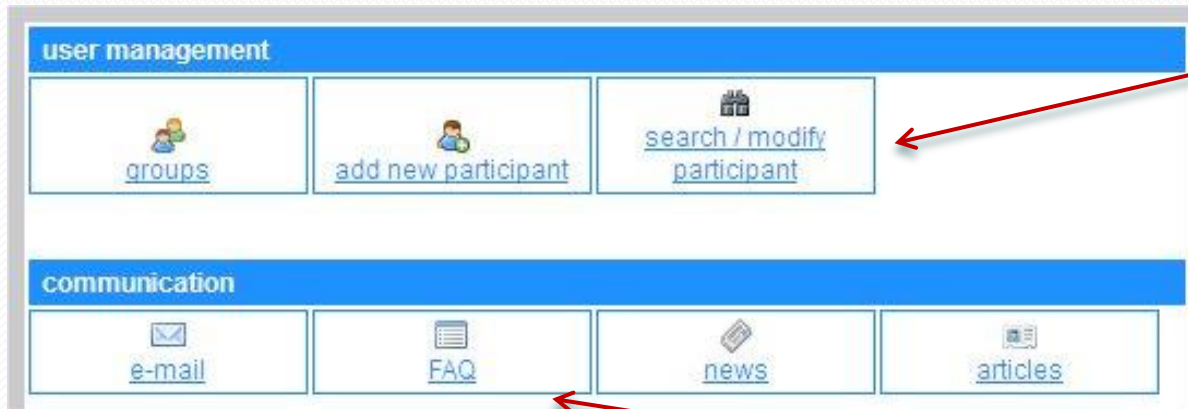
Zn  
all

**methods**

delete	method group	sorter
( total: 3 )		
<input type="checkbox"/>	Possible damage to human	1
<input type="checkbox"/>	Nature	2
<input type="checkbox"/>	Environment	3

# Participant

Step 3: Define groups and add participants.



Factories added into the scheme as participants

Communication options within the tool.

# Data and reporting

Step 4: Input data and get periodic reports.

Factories enter their data either manually or through automated import routines.

# instrument	result ID	performed by	date	C02	unit	delete
default	ID	unknown	25 sep 2013		result	

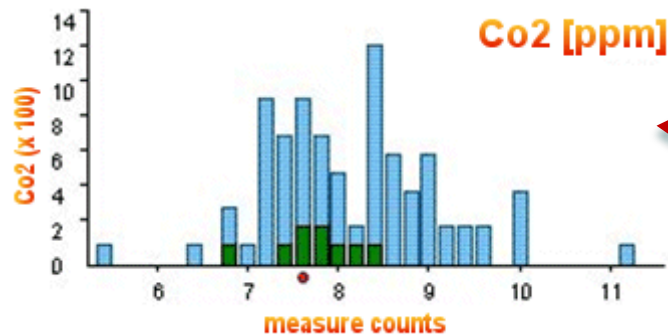
1 Ibanx-HSE environment device - Environmental pollutants

ID

C02       ppm

comment

log-out | participant | methods | results | reports | preferences



Customized comparison reports between factories and also against the best data sets (=benchmarking).

# Conclusion

Quick and easy approach to complex data comparison and benchmarking within the peer group.

Applicable to any industry as long as the measure or an analyte has Quantitative or Qualitative outcome.