# Identifying and Monitoring the Factory Damages

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*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.

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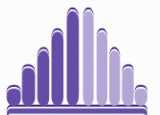
# Identify scheme matrix

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

In this case study, we create 3 method groups

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

scheme matrix

# Scheme setup

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

# Participant

Step 3: Define groups and add participants.
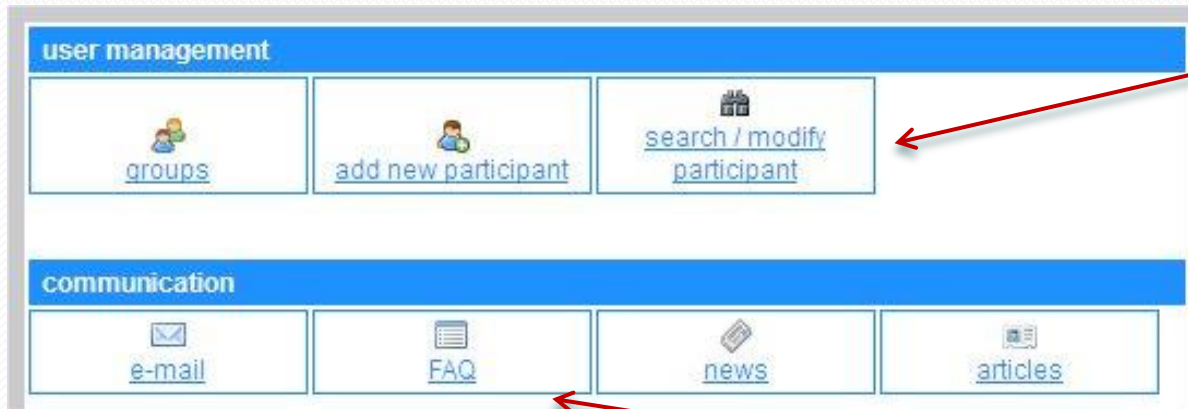


Factories added into the scheme as participants

Communication options within the tool.

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# 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 [_____]

update   print

| 🔒 log-out | 👥 participant | 💻 methods | 📊 **results** | 📊 reports | 🪄 preferences |
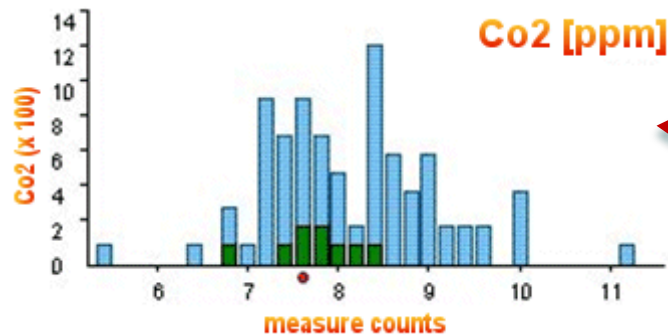
Customized comparison reports between factories and also against the best data sets (=benchmarking).



Co2 [ppm]

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# 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.

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