



SITOWISE

Death to PDF?

Making Contaminated Site Reports Visual, Interactive and Useful

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The report paradox

OUR DATA IS DIGITAL. OUR REPORTING STILL BEHAVES AS IF PAPER WERE THE FINAL DESTINATION.

What is wrong with current reports?

Information
is
fragmented

Map on page 40.
Interpretation on page 12.
Lab results in Appendix C.

Information
is hard to
find

Different readers look
for different answers.

Information
disappears

Reports are archived.
Data becomes difficult
to re-use.



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How do people actually think about contaminated sites?

- Where is contamination?
- How severe is it?
- What is nearby?
- What changed after remediation?
- Is risk acceptable?

These are spatial questions



What if the map was the report?

HAKU

AINEISTOT

VIE, JAA

TULOSTA

LATAA

MINUN KARTTANI

SEPPÄ



Kerroksen tiedot

Tunnus: VAH1

Kerrosnumero: 4

Ylitys: Zn: 348 (=Alempi ohjearvo) Zn_kentta: 324
(=Alempi ohjearvo) As: 23.1 (=Kynnysarvo) As_kentta:
24 (=Kynnysarvo) Bentso_a_pyreeni: 0.242
(=Kynnysarvo) Pb_kentta: 76 (=Kynnysarvo)

Syvyys: 1.6 - 2.1

Taso: 14.6 - 14.1

antraseeni: 0.077

antraseeni_sed:

as_as: 23.1

as_kentta: 24

asenaftteeni: 0.015

asenaftyleeni: 0.013

bentseeni: <0,02

bentso_a_antraseeni: 0.222

bentso_a_antraseeni_sed:

bentso_a_pyreeni: 0.242

bentso_a_pyreeni_sed:

bentso_b_fluoranteeni: 0.33

bentso_ghi_peryleeni: 0.13

bentso_ghi_peryleeni_sed:

bentso_k_fluoranteeni: 0.107

bentso_k_fluoranteeni_sed:

c5_c10_bensiini: <8,8

KARTALLA NYT

- Mutku pimatulokset raja-arvot
- Mutku_pimatulokset
- Ortoilmakuva (MML)

LÄHESTYMISKARTTA

A digital reporting framework



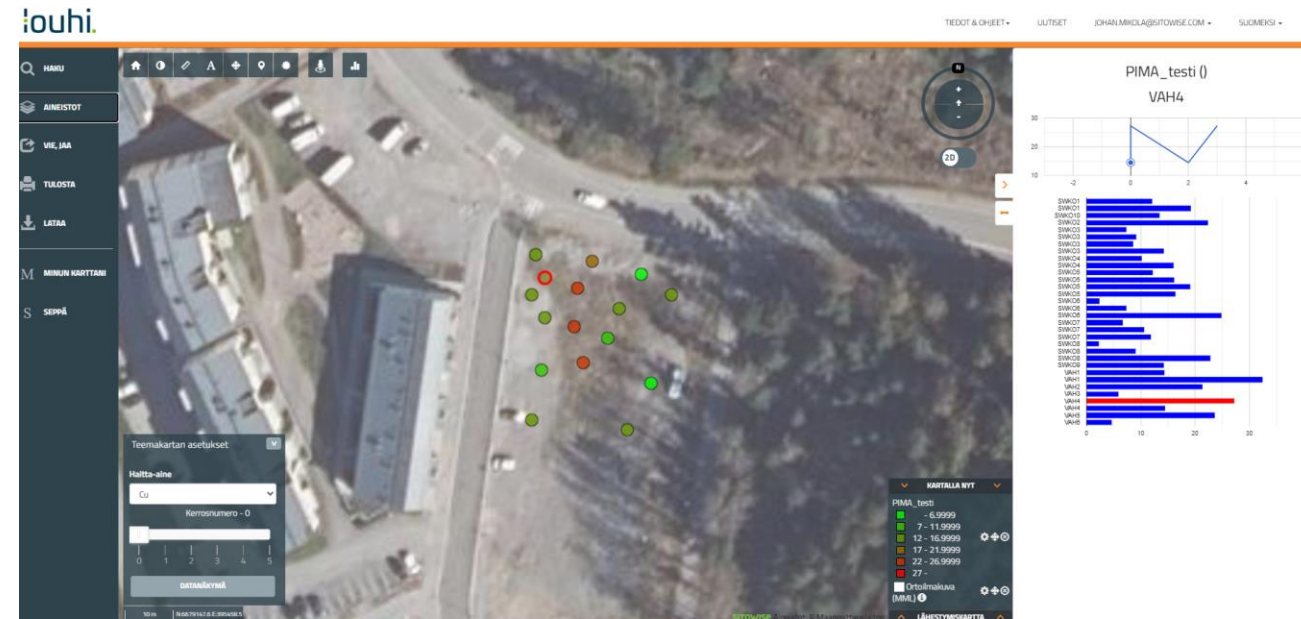
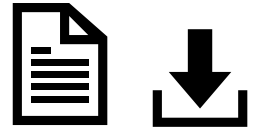
- Environmental data are already collected digitally, yet the final product is still typically a static document.
- An interactive map can connect analytical results, risk assessments and site information within a single environment.
- Users can move seamlessly from a site-wide overview to detailed sample-level information.



One glance, one understanding

- Traditional remediation reports often require readers to combine information from maps, tables and appendices before they can understand the overall outcome.
- The most important findings should be visible immediately, while detailed supporting information remains available when needed.
- Interactive visualizations can communicate remediation success, remaining risks and key conclusions at a glance.

Expert analysis (the traditional documents) can be downloaded



The key finding should be visible within seconds, not after reading fifty pages.

Different users, different questions

Regulator



"Is there still a risk and does the site comply?"

- Are remediation targets achieved?
- Are legal requirements fulfilled?
- Is additional action required?
- Is there remaining risk to people or the environment?

Consultant



"What does the data tell us?"

- Where are remaining hotspots?
- Which contaminants drive the risk?
- Which remediation actions were successful?
- How do different datasets relate to one another?

Client



"What does this mean for my project?"

- Can development proceed?
- What risks remain?
- What are the cost implications?
- Will the project schedule be affected?

Same report. Different views.

What can be filtered?

Examples:

Exceedances only

Groundwater area samples only

Dissolved contaminants only

Before remediation

After remediation

Specific compounds

Human health risks

Environmental risks



The hidden benefit: better data stewardship



The report is no longer the final product. The data becomes the asset.

- Traditional reports are often archived as documents that are difficult to search, compare and reuse.
- A spatial reporting platform preserves information in a format that remains accessible long after project completion.
- Environmental knowledge becomes part of a continuously growing and searchable information resource rather than an isolated report.



Does this replace traditional reports?

NO

Traditional reports can still be generated on demand

- Export PDF
- Export tables
- Generate regulatory attachments

Barriers



Regulatory acceptance



Standardization



Long-term hosting



Data governance



User adoption



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A vision for the future

We have already digitized data collection. We have already digitized laboratories. Perhaps it is time to digitize the report itself.



Death to the PDF?

Maybe not. But perhaps the PDF should become an export format, not the primary way we communicate remediation outcomes.

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Want to see your project data in a new way?
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