

Press kit

Kartotrak 2014 – June 2nd, 2014

Worldwide leader in Geostatistics, Geovariances enables its clients involved with mapping, resource estimation or risk analysis to benefit from more than 25 years' experience in marketing geostatistics software solutions and expertise to Oil & Gas, Mining and the Environmental sectors.

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Geovariances
Where no one has gone before

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B. Press release



Avon, June 3rd, 2014 - Kartotrak 2014 perfects results rendering



Geovariances has launched the **latest release of Kartotrak 2014**, the fourth version of its software solution designed for contaminated site characterization. This release includes features which **enhance information visualization**. It also allows the quantification of contaminated soil volumes for **multi-pollutant scenarios**.

Kartotrak aims at professional involved in environmental **site characterization** projects who need to **locate and estimate contaminated soil volumes** confidently.

"**Kartotrak** has proven its relevance on hundreds of sites, having delivered accurate contamination maps and having helped understand the contamination origin", said Ophélie Lemarchand, Kartotrak product manager. "The software, which offers a **GIS and a 3D viewer**, is an excellent tool for **data QC and visualization**", she added.

Kartotrak 2014 lets users enrich their maps with information coming from digitized maps or aerial photos. It allows efficient image geolocalization through simple interactive tools. This enriched visual information can in turn be exported in geoTIFF format to facilitate its display in other systems using the appropriate coordinates.

In the context of a site contaminated with several pollutants, **Kartotrak 2014** improves contaminated surface or volume estimation by delivering results which take into account the respective pollutant thresholds. The software even derives the corresponding soil masses if required.

Another feature of **Kartotrak 2014** useful for radio-contaminated site sampling surveys is that it facilitates the integration of new sensors. In particular, all **Ortec** "connections" products are now supported in addition to the already supported **Canberra germanium** detector and **Saphymo DSP** detector.

Geovariances consultants will present and make demos of **Kartotrak 2014** at EnviroNord from June 11 to 12, 2014 at the Grand Palais of Lille, France.

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C. Kartotrak technical features

Kartotrak, integrated software solution for contaminated site characterization

Born out from several years' partnership between CEA and Geovariances, **Kartotrak** brings an efficient solution to all those – industrials, local authorities or consultancies - who need to locate and estimate the surfaces or the volumes of contaminated soils or facilities confidently.

Kartotrak increases the understanding of the contamination and allows to better anticipate the management of contaminated soil, and thus to reduce remediation-related costs.



Kartotrak facilitates contaminated soils study

Kartotrak is an innovative software solution. Easy to use, the software offers an integrated workflow which guides the user through each step of his project, from data loading and contamination mapping to contaminated soil volume estimation and uncertainty assessment. On-the-fly reporting is also proposed all along the workflow.

Kartotrak helps in:

1. Placing the contamination in its environmental context

Combining the power of a GIS and a 3D Viewer, Kartotrak integrates and displays any spatial information on the contamination vicinity - aerial photos, maps, historical data, geophysical data - and allows the visualization of the measurement points or boreholes and the calculated maps.

2. Reducing the investigation costs

Kartotrak offers tools to design sampling plans in an optimal way, from sampling over a regular grid to statistical tests-based random sampling. The software also proposes statistical tests from the **MARSSIM** American guidebook (Multi-Agency Radiation Survey and Site Investigation Manual), the usage of which is recommended in the USA to check the site compliance with the cleaning objectives. Besides, Kartotrak identifies areas where uncertainty is high from a first mapping and spots out relevant locations where additional measurements should be collected.

3. Getting precise contamination maps

Kartotrak is built on Geovariances geostatistics expertise to offer a proven geostatistics process, fast to use by most people. Kartotrak delivers accurate interpolated maps as well as uncertainty maps providing additional information on result quality and reliability.

4. Estimating the contaminated soil volumes and evaluating the risks

Kartotrak delivers a reliable estimation of the contaminated volumes from kriging or geostatistics simulations results. The software allows classifying the soil surfaces or volumes according to the acceptable probability of leaving pollution in place.

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D. Geovariances

Created in 1986, **Geovariances** is a French independent software vendor and the world leader in Geostatistics.

With its constant investment in R&D, Geovariances offers innovative methodologies and expertise to answer its customers' challenges in mapping, resource evaluation, volumetric estimation, risk analysis. The company provides the most complete solution in geostatistics: software packages, training and consulting.

Geovariances develops and sells two software packages: **KARTOTRAK** dedicated to contaminated site characterization, and **ISATIS**, the industry benchmark geostatistics software solution.

Geovariances headquarter is based in Fontainebleau. The company has also an office in Brisbane (Australia) and a representative in Brazil.

Key events

- **1986**: Geovariances was created by three engineers from Mines ParisTech.
- **1993**: Launch of the first version of ISATIS, the most complete solution in geostatistics on the market.
- **2000**: Yves Touffait is nominated CEO of Geovariances.
- **2000**: Partnership agreement with Mines ParisTech for ISATIS development.
- **2001**: Geovariances consultant Nicolas Jeannée presented his PhD thesis: "Geostatistics applied to soil pollution characterization".
- **2001**: First application of ISATIS for air quality mapping.
- **2002**: Development of the software team at Geovariances, speeding up ISATIS development.
- **2005**: Development of the marketing and sales team. The company turnover doubles in less than 3 years.
- **2009**: Partnership agreement with CEA for KARTOTRAK development, software solution for polluted site and soil characterization.
- **2010**: Geovariances consultant Yvon Desnoyers presented his PhD thesis: "Geostatistical characterization of radiological contaminations in former nuclear facilities".
- **2010**: Launch of the first version of KARTOTRAK, new software solution dedicated to radio-contaminated site and soil characterization.
- **2011**: Opening of Geovariances office in Brisbane, Australia.
- **2012**: Launch of the 2012 version of KARTOTRAK including 3D processing to characterize deep chemical and radiological contaminations.
- **2013**: Launch of the 3rd version of KARTOTRAK including exclusive tools for sampling survey optimization.
- **2014**: Move of the Brisbane office to Perth, WA, Australia - Launch of the 4th version of KARTOTRAK offering the possibility of image geolocalization and of contaminated surface/volume calculation in the presence of several pollutants.

Key figures:

- Number of employees : **40**
- **1 subsidiary office** in Australia
- Turnover : **+5 M€**
- International turnover : **4 M€**
- **+500** company customers over the world
- **+3500** software users over the world

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E. Geovariances vision

❖ **To offer our customers the leading-edge technologies in geostatistics**

Based on a research and partnership strategy

While independent software vendor, Geovariances invests in R&D via consortia and partnerships with research centers world leaders in Geostatistics or their respective industries, to provide even more innovative solutions and closer to the needs of its customers.

❖ **To provide the most complete solution in geostatistics**

To answer any kind of expectations, from the beginner to the expert in geostatistics

With its highly qualified human resources in geostatistics, mathematics, geology and software development, Geovariances can offer the expertise industrials, consultancies or local authorities who need to apply geostatistics in response to their specific problems expect.

The service as a priority

Geovariances is well aware of the strategic challenge conducted studies or software computing results mean for its customers. The company builds on its partners' and own expertise to answer its clients' challenges and to provide solutions on which they can rely confidently. That is why Geovariances is committed to offer quality and accuracy to the users of its software packages.

Whether its customers encounter a technical problem or they need to be guided in the software use, Geovariances' aim is that software users come back to their productive task as quickly as possible.

Geovariances Technical Support, consisting of specialists, is in direct contact with the users to respond quickly their questions and is committed to keep in touch with them as much as they need. That is why **Geovariances Technical Support** is recognized and praised by all its beneficiaries.

❖ **To be the first geostatistics sponsor**

And develop new markets

Geostatistics is essential in a world where needs in raw material are constantly growing and natural resources are everyday scarcer and deeper and complex to extract, and where environmental risk control becomes compulsory. Advanced geostatistics allow better estimation of resources or better characterization of pollution and enable an improved risk assessment. Geostatistics is the essential tool for a better waste management and a better cost control.

So that everyone can benefit from geostatistics added value, Geovariances offers a large portfolio in geostatistics training and helps everyone who need to go further in their projects by offering specific mentoring services.

Geovariances' aim is to keep its leadership in geostatistics after more than 25 years' experience worldwide.

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F. Priority targets and a few customer references

❖ **Priority targets**

Consultancies, safety authorities, owners of industrial sites, geologists and geostatisticians, ordering parties (districts, counties, municipalities...).

❖ **Some customer references**

In France

- ARCADIS,
- AREVA,
- CEA,
- DEKRA,
- EDF Ciden,
- IRSN,...

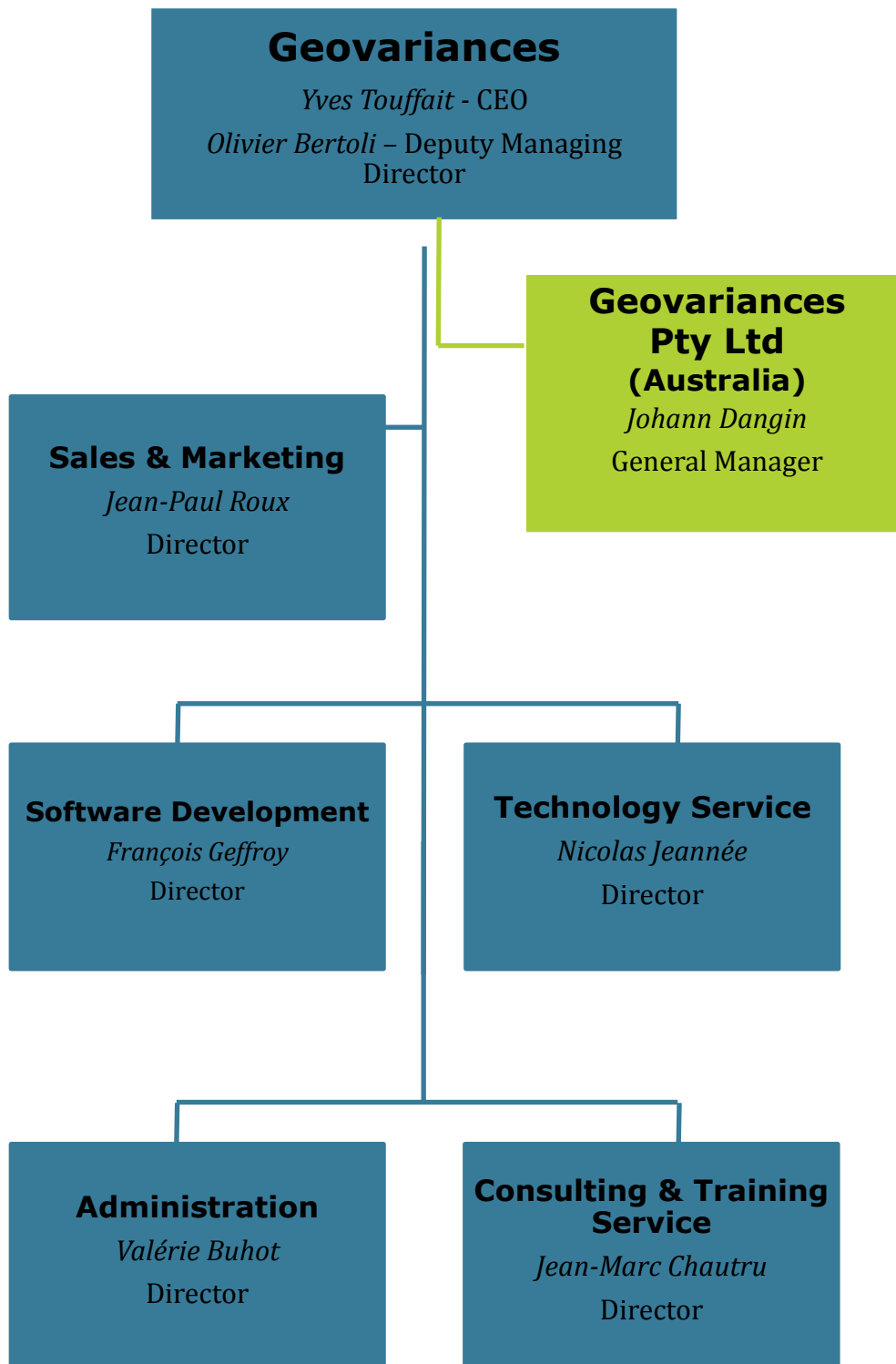
To international

- AECL,
- KAERI,...

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G. Organization chart



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