

Future is smart, open and green?

30.10.2015

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Smart Is The New Green



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*I write about Mega Trends
and Future of Mobility*

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As an electrical engineer, I feel I spent the first half of my career working on green and renewable energy solutions. However, now my career's focus is on smart solutions. I feel that a lot of my time spent working on green solutions was more for corporate social responsibility and image, and there wasn't really a strong return-on-investment (ROI) business case.

Organizations and governments that invested in solar and wind power have seen limited or delayed returns. In contrast, "Smart" products—like smart grids, smart meters, and smart buildings—have a ROI of three to five years and provide higher-efficiency returns than green products. Therefore, I predict that the Mega Trend of the past decade—green products—will be replaced in this decade by Smart products and services.

There are several Smart concepts already in the market today, like Smart cities, intelligent buildings, Smart homes, Smart energy, Smart cloud computing, Smart citizens, Smart governance, Smart businesses, Smart cars, Smart materials...the list is long.

There are several definitions of "Smart" floating around, and the definition has evolved over time from a device connected to the Internet, to a product that has an embedded intelligence in the form of a microprocessor. Most

Summary: UK in regions

Pioneering, diverse companies produce products and services that fill social, environmental and economic gaps.

We have identified and analysed data as part of their business, through their experiences. The open data market is worth over £92bn, and over 500k em, data's potential value in business.

You can explore the different summary.

What is open data?

Open data is data that anyone considered 'open', it must be public. It permits anyone to access, use and

“ *Open data goes at the heart of*

Tekes



Opening up on 'Open Data'

STEVE HULSE | 17 MAR, 9:55 AM | 1

TECHNOLOGY | APPLICATIONS | DATA MANAGEMENT

Open data initiatives being embraced by governments around the world will generate major economic and social benefits, but the process must extend beyond simply releasing gigabytes of raw data.

Each year, governments collect vast quantities of information as a by-product of programs undertaken and services provided. The resulting data sets cover everything from population demographics and health records to business and trade trends.

As part of a growing belief in the benefits of open data, these massive data stores are being made available to the private sector and general public. It's been shown that such openness can lead to insights and advances that would previously have been impossible.

Business consultants McKinsey & Co estimate open data initiatives could unlock more than \$US 3 trillion of economic value through stimulation of innovation and improvements in decision making.

In Australia, the Federal Government is pursuing an open data agenda. Communications Minister Malcolm Turnbull has acknowledged that, to be useful, data released must be free to use, easily discoverable and machine-readable.

Just last week the Minister launched a study, The Open Data 500, to explore how Australian organisations are using government data sets to generate new business, develop new products and services, improve business operations or create social value.

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Compared to the US, China's steel and aluminium production is very high. This has led to considerable energy and

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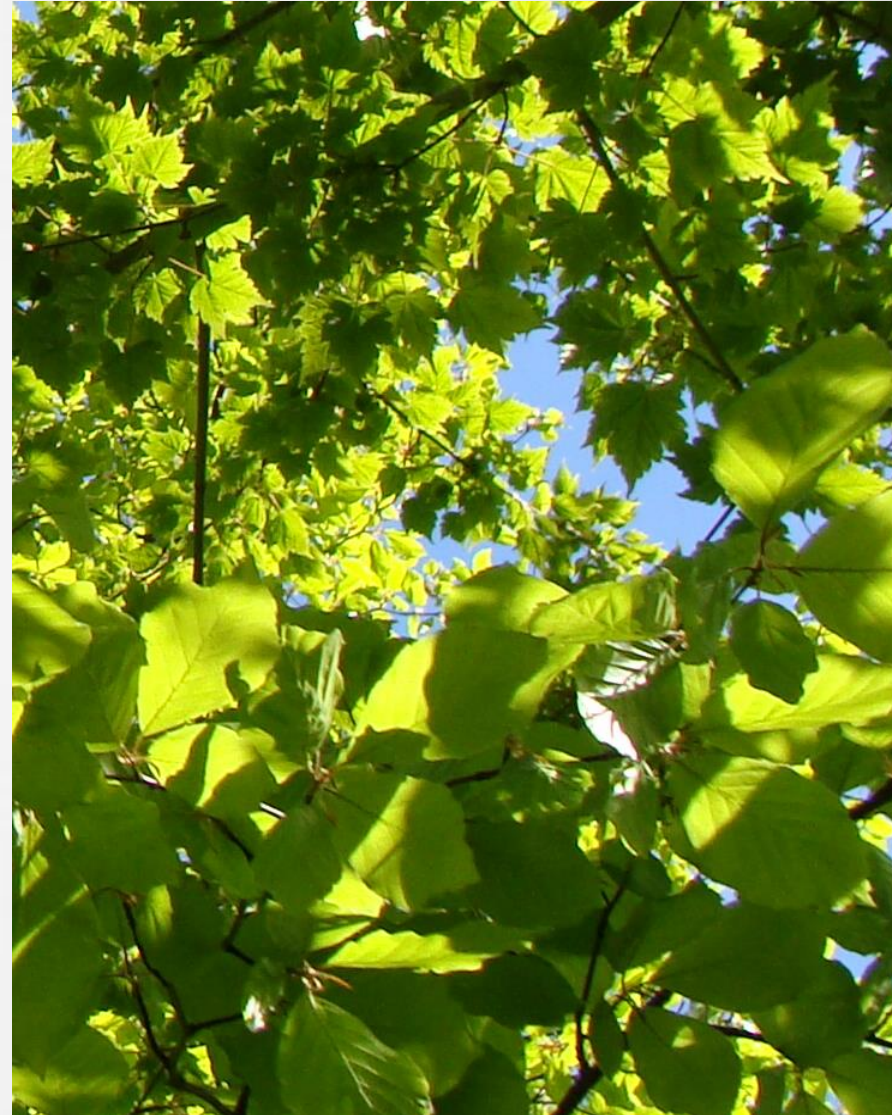
Miksi avointa dataa pilveen?

- rakentaa digitaalista liiketoiminnan kasvuympäristöä
- edistää innovaatioalustan syntymistä sekä
- tuo mahdollisuuden hyödyntää tietovarantoja uusille liiketoimintaideoille



Avoin ympäristötieto

- perustamis- ja ylläpitokustannukset?
- teollisuuden kiinnostus panostaa hankkeeseen?
- perustamisen ja ylläpidon organisointi?
- taloudelliset hyödyt – kustannukset?



Avoimesta datasta hyödyn saaminen edellyttää tiedon integrointimahdollisuuksia



Research

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Webinars

Ten Ways Data Integration Provides Business Value

May 18, 2011

By Philip Russom, Director, TDWI Research, Data Management

The results of data integration surround us, enabling highly valuable business activities in our organizations. Yet, we don't always look past those activities to see data integration as the indispensable, behind-the-scenes enabler that it is.

If you need to corroborate the business value of data integration—which is a common prerequisite for the funding, sponsorship, or implementation of data integration—then you need to explain to your colleagues the enabling role that data integration plays for many data-driven business practices. Furthermore, if you want to keep data integration solutions fully aligned with business goals, then you need to be forever mindful of the specific types of business value that result from data integration's teams, tools, and techniques.

This article provides a checklist of 10 ways that data integration provides business value. The discussion mentions numerous real-world use cases, illustrating the different kinds of business value that data integration provides. The checklist should help you express data integration's business value to your peers and management, as well as plan and design data integration solutions that deliver the greatest business value possible.¹

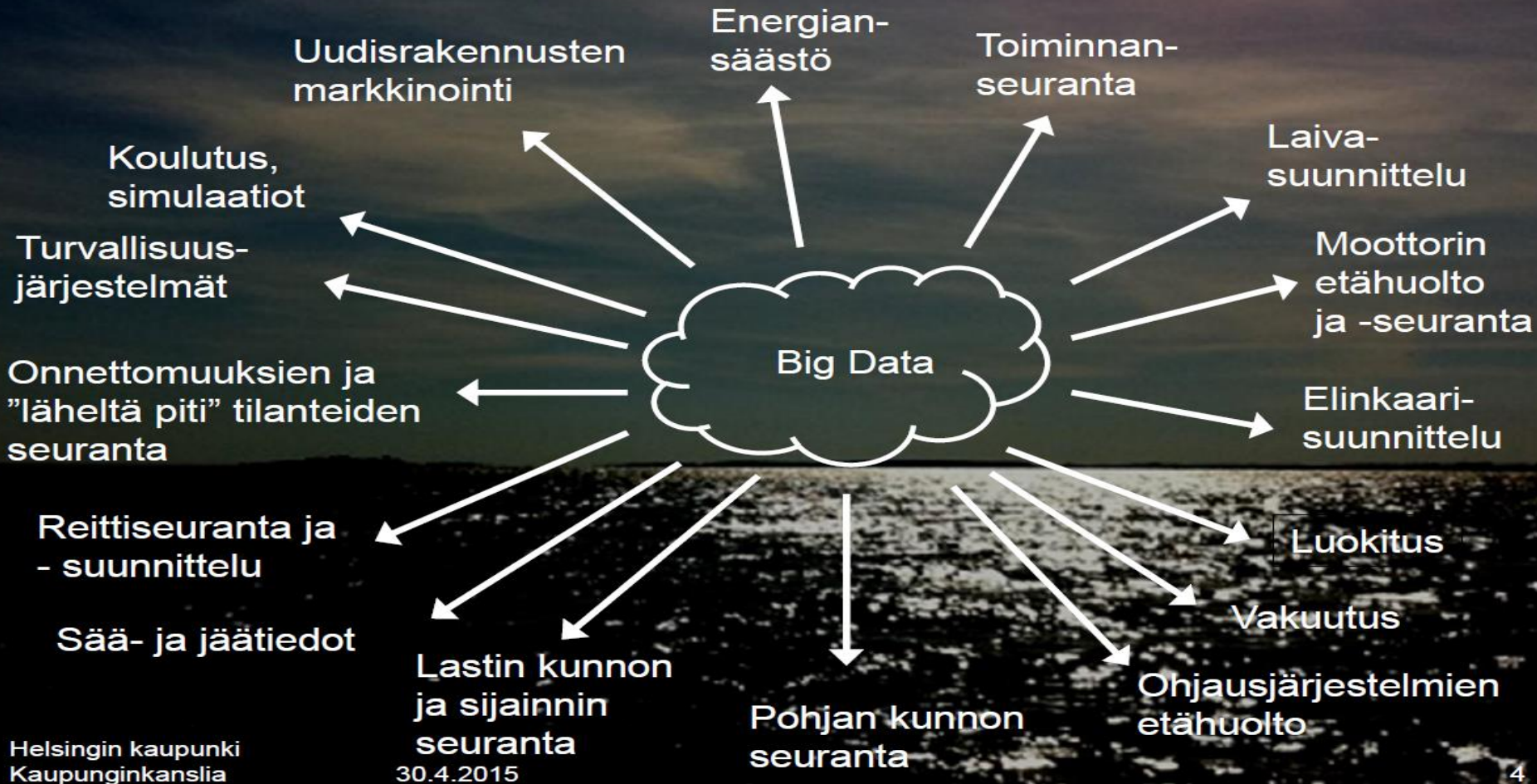
1. Data Integration Increases the Value of Business Practices

Let's start with an overview. Many valuable data-driven business practices depend on one or more forms of data integration (DI). In fact, some business practices aren't possible without DI:

Esimerkki laivan "big datasta"

(lähde Helsingin kaupunki, MerIT-hanke)

Laivan "big data"



Helsingin kaupunki
Kaupunginkanslia

30.4.2015

The HyperGlobal - based on the absorption of electromagnetic radiation, and innovative gas sensors



Idea: Establish innovative and cost-effective instruments and solutions for the monitoring of global maritime emissions with a value network approach.

Impact: Enabling the authorities to establish a level playing field for maritime emissions, and providing tools for industry-level transparency.

“The HyperGlobal project builds a bold, forward-looking value network to address one of the greatest challenges of maritime transport in our time.”

Tapani Stipa, Adjunct professor, Finnish Meteorological Institute

Saa jututtaa!

www.tekes.fi/arcticseas

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