

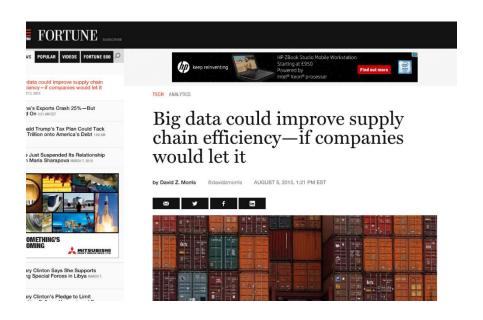


Carsten Maple, WMG Cyber Security Centre

Big Data and the Supply Chain WARWICK

Data and the supply chain will both be increasingly important

Big Data and the Supply Chain WARWICK





Got a supply chain challenge? There's an RFP for tha

We cure logistics headaches.



COMPANY PROFILES

April 2014 | Sponsored | Knowledge Base

JANUARY 2016 ISSUE PDF

Fusing Big Data and the Supply Chain: The Future is NOW

LOGISTICS PLANNER

By Jim Taylor









Tags: Logistics I.T., Transportation Management, Transportation

SEND RFP/RFI FIND SOLUTIONS

Only 8% of shippers and 5% of 3PLs surveyed have implemented Big Data initiatives involving the supply chain, according to the 2014 18th Annual Third-Party Logistics Study produced by Dr. C. John Landley and Canacmini Conculting





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Big Data is a buzzword often used this days, but is data that has variety, volume and velocity.

It is increasingly important in Supply Chains

Big Data and the Supply Chain WARWICK

The scale, scope and depth of data supply chains are generating today is accelerating, providing ample data sets to drive contextual intelligence.

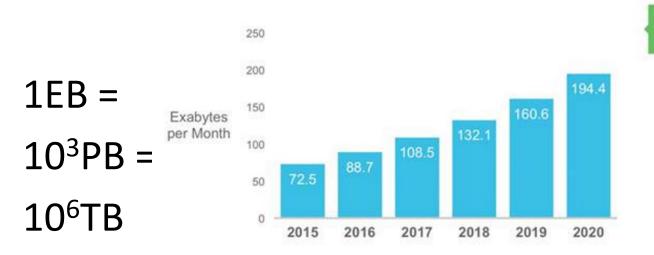
Big Data and the Supply Chain WARWICK

Enabling more complex supplier networks that focus on knowledge sharing and collaboration as the value-add over just completing transactions.





Figure 1. Cisco VNI Forecasts 194 EB per Month of IP Traffic by 2020



22% CAGR 2015–2020

Source: Cisco VNI Global IP Traffic Forecast, 2015–2020



Data Scalability

Is it possible/efficient for companies to keep growing their local storage?

Do companies have a need for elastic storage, processing and bandwidth?



Are Cloud Services Scalable?

Undoubtedly



Data Reliability

Having reliable data can be interpreted as having data replication or computation replication (generally in space rather than time)



Are Could Services Reliable?

Much more likely and cost effective than companies using local models to ensure their own data is reliable



What is Cyber Security?

We will restrict attention to

Confidentiality

Integrity

Availability



What is the cost of Information (Cyber) Security?



What is the cost of Information (Cyber) Security?

Intrusion detection

Server management

AV tools

Authentication services



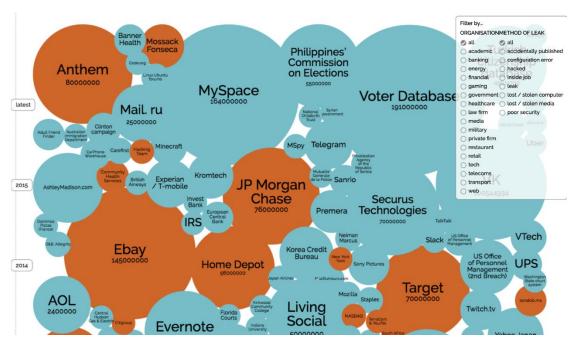
What is the cost of Information (Cyber) Security?

Upskilling and training

Threat monitoring

Vulnerability scanning

Are Cloud Services Secure?



http://www.informationisbeautiful.net/

Can we eliminate security risk?

Risk Management Strategies

Risk is commonly defined as the combination of the likelihood or probability of an event occurring and its impact or consequence. The classical model for risk can be defined as:

Risk = Likelihood * Impact

Risk Management Strategies

- Avoid. Action planned so no impact on the project or probability of occurrence is zero.
- Reduce. Reduce probability of risk occurring or the impact of the event should it occur.
- Contingency. Action is planned but only implemented should risk occur.

Risk Management Strategies

- ► Transfer. Reduce financial impact of threat (insurance or clauses in contract.)
- Accept. Take no action. Chosen because risk has low probability and/or low impact. Also if cost of action exceeds impact.

Are Cloud Services Secure?





Conclusions

- Cloud services, whether private, public or hybrid are clearly important now and in the future
- How you manage your assets is a decision for the business, but cloud will definitely be a part of the solution