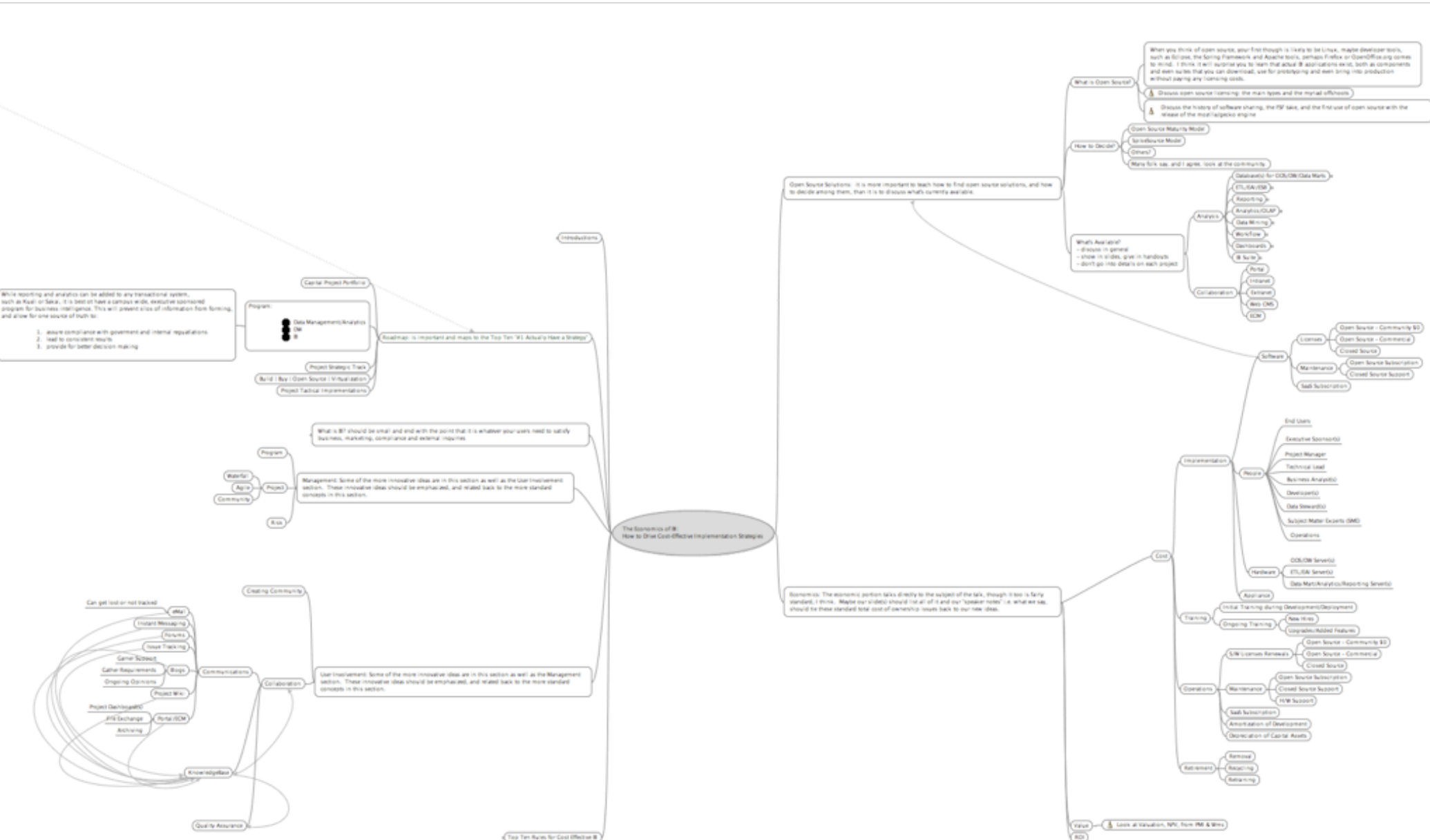


The Economics of BI: How to Drive Cost Effective Strategies

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Joseph A. di Paolantonio

Mind Map



What is BI?

- The first use of the term is by H.P. Luhn in 1958: IBM Journal, vol. 2, no. 4, p.314, “A Business Intelligence System”
 - ⊗ <http://www.research.ibm.com/journal/rd/024/ibmrd0204H.pdf>
- Our definition: Business Intelligence is the process of gathering data, turning that data into information, and sharing that information such that it is useful for increasing top-line efficiency and bottom-line value

Some Universities Actively Investigating or Using Open Source BI

- University of Nebraska
- University of Milano
- Indiana University
- Padova University
- University of Chicago Press
- Bologna University
- La Scuola Superiore ISUFI (SSI); Università degli Studi di Lecce
- Open Source Projects often don't know who use their products

Where to find Open Source Solutions

 SourceForge

 <https://sourceforge.net/>

 JavaForge

 <http://www.javaforge.com/>


 ObjectWeb OW2

 <http://www.objectweb.org/>

 JasperForge

 <http://jasperforge.org/>





 GoogleCode

 <http://code.google.com/>

 SugarCRM

 <http://sugarexchange.com/>

OSS BI Suites

-  The Bee Project
-  JasperSoft BI Suite
-  Openi
-  Pentaho

OSS DB for DW

-  Bizgres
-  LucidDB for DW
-  MonetDB

OSS RDBMS & Embedded Databases

 BerkeleyDB

 Derby

 Firebird

 Ingres

 MCOBJECT Perst

 PostgreSQL

OSS ETL/EAI/ESB

 Pequel ETL

 Apatar

 Celtix

 Clover ETL

 CpluSQL

 Enhydra Octopus

 JasperETL

 JetStream

 KETL

 KETTLE

 MiniETL


 Mule


 openDigger

 ServiceMix

 SnapLogic Open Source DI

 Spagic

 Talend Open Studio

 Tuscany Proposal

OSS Tools to Roll Your Own

 Eclipse BIRT

 EFEU

 JpGraph

 PostgreSQL MDDDB

OSS Reporting Tools

 Agata Report

 DataVision

 iReport

 JasperReports

 jFreeReport

 OpenReports

 OpenRPT

OSS OLAP

 Cubulus

 jPivot

 Mondrian

 OpenOLAP for PostgreSQL

 PALO

 pocOLAP

OSS Data Mining

 CPAS

 Rattle

 Weka

OSS Portals & Dashboards

 MarvellIT Dash

 Liferay

 Pentaho

 Openi


 Jetspeed

 Alfresco ECM

 Joomla! CMS

 Drupal CMS

 b2evolution

 Pages and pages of others -
search on the forges

Top Ten Countdown

BI on a Budget

Campus Technology published a version of the following as
"BI on a Budget," Campus Technology, 4/1/2007
http://www.campustechnology.com/articles/46571_1/

10. Rapid Prototyping for fun and profit

- Prototyping is an example of where the process is as important as the results
- Build the team while helping users understand what is possible while understanding users daily process, needs and desires
- Use Open Source tools to deliver quick wins in as little as a week

9. What is BI anyway?

- Analysis?
- Reporting?
- Data Mining?
- Predictions?
- It doesn't matter how the rest of the world defines BI; what matters is how you and your users define it

8. Architecture, Architecture, Architecture

- In Real Estate it's location, location, location
- for BI, it's matching the data flow to the business processes to the enterprise data models
- Information Architecture | Business Architecture |
Program Architecture

7. Don't bite off more than you can chew

- Break the overall data warehousing/BI program into a series of small projects providing quick wins
- Involve the users in each step of each project to alleviate the learning curve
- Discover, Define, Design, Develop, Deploy, Determine the next steps, test along the way, Repeat
- Continuous Improvement in Tactics Iterating with Adjustments in the Strategy

6. Rigorous Project Management

- Many think that modern application development methods are antithetical to "traditional" project management, but each needs the other to rapidly achieve business advantages without scope creep
- The eXtreme Programming sport of Agile-ly riding the Waterfall

5. Involve the users every step of the way

- The least cost-effective project is the one that never gets used
- Projects don't lead to useful applications if they take so long as to no longer be relevant, don't deliver on current needs, don't fit well with business and IT procedures and standards, and/or are too hard to learn
- By involving users from the very beginning and at each step along the way, none of that will happen to you

4. Buy-in

- Sustainable BI projects that show results over the years can't exist in a vacuum
- They must be part of an overall enterprise data strategy
- BI programs always fail if there isn't buy-in from all organizational leaders who have reporting and analysis needs

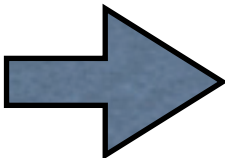
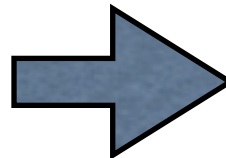
3. Data Stewardship Matters

- The quality of the source data is very important, it all goes back to GIGO [garbage in, garbage out]
- Assign a data steward to work with both the users and the source system experts to verify data integrity

2. Try Open Source

- Open Source Projects, Open Source Companies, Open Source Licenses - it can all get pretty confusing, but open source tools, such as the two mentioned under "10. Prototyping", as well as full BI Suites like Pentaho, JasperSoft, and SpagoBI have matured into true competitors to the proprietary vendors
- We track over 45 open source projects related to BI, including RDBMS & MDDDB, ETL, ESB, OLAP, Reporting, Analysis Tools, Data Mining, Dashboards and full BI suites

1. Actually have a STRATEGY

- The most cost-effective BI strategy is to actually have a strategy
- Prepare an over-arching plan with a strategic track and a tactical track; as each project within the tactical track completes, iterate the strategy with lessons learned
- Architect  Design  Implement

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