



COLIBRI OPEN BI APPLIANCE

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LONG LIVE THE SPREADSHEET!

- A **spreadsheet** is for **analysis** of Data in tabular form / pivot tables
- Spreadsheets are 2-dimensional **projections** from multidimensional cubes.
- Operates on huge Data **stored centrally** in an OLAP system.

DATA NORMALLY IS.....

HARD TO ANALYSE

- Distributed across systems
- Various formats / interfaces
- Missing constraints and relationships
- Different levels of aggregation

EXTRACTS - TRANSFORMS - LOADS

THE JOURNEY BEGINS

- Organisation in Dimension Trees
- Hierarchy represents Aggregation Levels
- Leaf Nodes form a unique address vector
- Cubes are fact-tables consisting of an address vector and a single value column

DATA NOW IS...

READY TO BE ANALYSED

- Centralised
- Consolidated and integrated
- Accessible fast, flexibly, easily
- Available in different levels of detail

COLIBRI

UNDER THE HOOD

- ETL - J2EE Web Application
- Model Driven Component Editor
- Java Libre Office Calc OLAP Connector
- Postgres database backend, websocket support,...

CHALLENGES

...NOT NEEDED BECAUSE

- simple spreadsheets are more than enough.
- people love Excel, not Libre / Open Office.
- nobody loves Java, least Libre Office developers.
- BI customers do not care about OS at all.

HOW IT ALL GOT STARTED

THE STORY OF MY LIFE

- 2001 EU research project on adaptive web applications
- Need for cognitive user modelling
- Neuronal Networks - hybrid approaches
- OLAP models - how to populate?

ABOUT BI-PROJECTS

HOW THEY WORK

- Customer is operating / controlling department
- Domain knowledge has to meet implementation expertise
- Competent Contact Person is key success factor
- IT-Services desire moderate involvement

THE NEED FOR A ROLLOUT

TO KEEP IT-SUPPORT HAPPY

- Build environments: svn, hg, maven
- Compilers: java(jdk), c++ (and dependencies)
- Services: tomcat, palo, R, postgres, libreoffice
- Data: samples, documentation, storage, ...

WHY COLIBRI?

FOR INFORMATION SOCIETY

- 100% Open Source (no open core, etc.)
- Web based, fast and furious
- OLAP centric, relational affine
- Spreadsheet friendly, data science orientated

THANX!

FOR SPENDING YOUR TIME

- To the audience
- To all supporters and contributors
- To all FUTURE sponsors, supporters and contributors :-)