An Approach to building an Online Data Mart: By GEORGE, I think we've got it!

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Institutional & Office Profile

USC Aiken

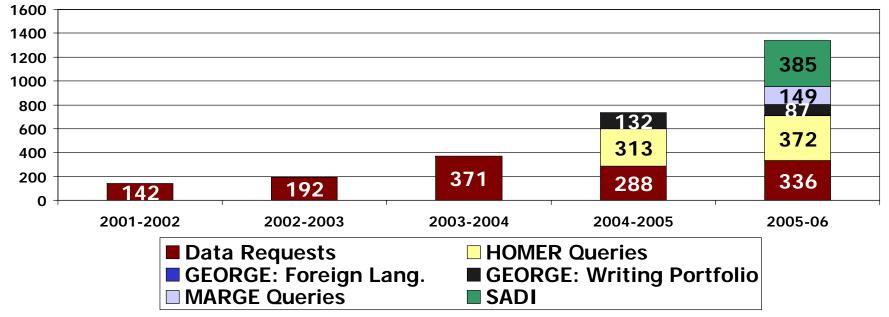
- 3,350 Headcount
- 150 Graduate students
- 680 Residential students
- Carnegie: Baccalaureate (diverse fields)
- NCAA Division II
- ERP = Custom system on IBM Mainframe (c. 1981)

Office of Institutional Effectiveness

- 1. External reporting & compliance
- 2. Internal reporting & operational data
- 3. Assessment
- 4. Research

The Problem: Ineffective Data Delivery

Sharpen your saw
 (Steven Covey's Seven Habits of Highly Effective People)



Data Requests Processed Over Time

Source: USC Aiken IE Office Program Review, 2005-06

The Idea

- 3 Things to take away from this presentation
 - Planning the hard part
 - Development documentation is the key
 - Implementation promotion and training

Plan, plan, plan

Journalism and Party Planning

Why Who What Where When How

Data Mart?

- Not synonymous with Data Warehouse or database.
- Think of it as a data storage closet.
- A step in the right direction with the outcome being a Data Warehouse.

Design Methodology

- Kimball vs. Inmon
 - Ralph Kimball
 - a collection of data marts
 - intention of delivering business objectives for departments in the organization
 - Bill Inmon
 - ground-up approach
 - subject-by-subject area, subject areas are added as the needs arise.

The usefulness of Data Marts in Institutional Effectiveness

- A Proactive, instead of Reactive, approach to data requests.
- Particularly useful for small IE/IR offices with frequent and/or routine data requests.
- Information at the users' fingertips

"Knowledge is Power"

- Know <u>who</u> to talk to
- Know <u>what</u> the users really want
- Know <u>where</u> the data should come from
 - Data reliability, data clean up
- Know <u>when</u> to set deadlines

The Key

- Start small
- Build upon a solid foundation
- At the starting line...
 - consultation with a representative from the user group
 - a needs analysis

What you'll need... technologically speaking

- Place to live: Server
- Security: Secure Channel (SSL), authentication
- Database: Access, SQL, etc.
- Languages: HTML, Script Language

What we used... technologically speaking

- Place to live: Windows Server 2003 backend
- Security: IIS6 (Internet Information Services)
- Database: MS SQL Server 2003
- Languages: HTML, ASP, VBScript, and SQL

Development

- Most important part of development is not what you might think
- Documentation
 - Not just what you did
 - Why you did it

About our Data Marts

- One big happy family...
 - HOMER: Helpful Online Multiyear Enrollment Reports
 - GEORGE: General Education Outcome Report GEnerator
 - SADI: Statistical Admissions Data Interface

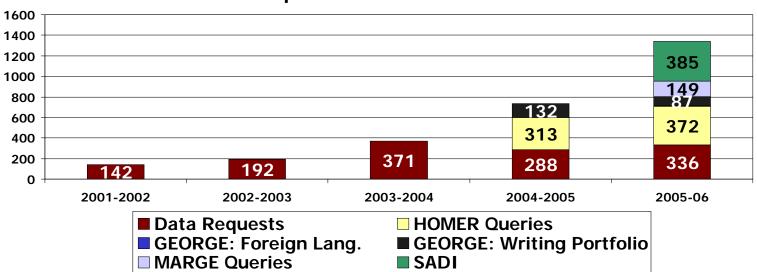
Demonstration

- By GEORGE, I think we got it!
- <u>USCA Office of Institutional</u>
 <u>Effectiveness</u>

Implementation

- A data mart is only useful if it's being used.
- Never ending process
- Promote from the top down
- Training should be provided on how to "ask" the interface the right questions

Success Measures



Data Requests Processed Over Time

Source: USC Aiken IE Office Program Review, 2005-06