BALTIMORE COUNTY PUBLIC SCHOOLS

DATE: October 5, 2004

TO: BOARD OF EDUCATION

FROM: Dr. Joe A. Hairston, Superintendent

SUBJECT: TECHNOLOGY UPDATES

ORIGINATOR: Gregory R. Barlow, Executive Director, Department of Technology

RESOURCE PERSON(S): Vicki Sappe, Liaison to the Superintendent

RECOMMENDATION

That the Board will be informed of the status of the Technology updates, including the Cognos project.

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Attachment I – Data Warehouse Technology Update
Data Warehouse Technology Update

Baltimore County Public Schools Board Presentation

October 5, 2004
Data Warehousing and Data-Driven Decision Making
BCPS Infrastructure

- Student Information
- HR System
- Financial System
- Other Data

BCPS Network

Internet

Router

Firewall
Secure Environment

Diagram:

- Secure Environment
- BCPs Network
- Internet
- Router
- Firewall
- Student Information
- HR System
- Financial System
- Other Data
- Security
Data Reliability and Consistency

- Data cleansing and accuracy
- Superintendent’s approval of data requests
- No rogue data
- Security
Data Warehouse Reporting Strategies

TestTrax

DataTrax

Cognos

Student Information

HR System

Financial System

Other Data

BCPS Network
Production Environment

Enrollment:
- September 30, Quarterly, EOY
- FARM, GT, LEP, Special Education

Testing:
- Advanced Placement
- MSA, SAT, PSAT, HSA, CTBS, MFT,
- Alt MSA, ACT, IPT

Personnel:
- Highly Qualified Teachers
- Highly Qualified Para-Professionals
- Certification, Teacher Tenure

Other:
- AYP
- Attendance
- Dropout
Cognos

- Suite of Business Intelligence tools
- On-Line Analytical Processing-OLAP
- Military Level, Roles-Based Security
- Confidentiality-FERPA
Cognos

Data Warehouse Reporting strategy for:

- Blueprint for Progress
- Master Plan
- NCLB
- Adequate Yearly Progress
- Data-Driven Decision Making
Cognos Definitions

- **Cognos Cube**
  - A view of the data that can be manipulated.

- **Cognos Report**
  - Predefined report that can have prompts.
**NewsBox** = Your view of the Cube and your reports can be stored at this location.

**Public Exchange Reports** = Reports that the Administrative Team has approved for general viewing.
Click on MSA Cubes and Reports.
Question

④ What is the percentage of Basic Reading Grade 8 students in your school by Gender?

④ Create a Split View Chart of this result.
<table>
<thead>
<tr>
<th>Test Taken as % of row total</th>
<th>Basic</th>
<th>Proficient</th>
<th>Advanced</th>
<th>All Performance Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2002-2003</strong></td>
<td>41.31%</td>
<td>33.12%</td>
<td>25.07%</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>2003-2004</strong></td>
<td>32.47%</td>
<td>48.05%</td>
<td>19.48%</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>All School Years</strong></td>
<td>36.68%</td>
<td>41.17%</td>
<td>22.15%</td>
<td>100.00%</td>
</tr>
</tbody>
</table>
Where To Go From Here?

- Continuing Development of Reports
  - Special Education Cube
  - Link Advanced Placement Test Scores to Class Grade
  - Link HSA Test with Class
  - Increase Availability of Personnel Data
End of Presentation