BCPS Infrastructure

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

BCPS Network

Internet

Router

Firewall
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

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

BCPS Network
Data Warehouse Reporting Strategies

TestTrax

DataTrax

Cognos

Data Warehouse

Student Information

HR System

Financial System

Other Data

BCPS Network
TestTrax

Target Data:

- Teacher Data:
  - Elementary: CTBS and MSA
  - Middle: CTBS, MSA, MFT and HSA
  - High: CTBS, MSA, MFT, HSA, PSAT and SAT

Target Audience:

- Teachers
- Principals
- Executive Directors
Cognos

- **Target Audience:**
  - Teachers
  - Executive Level
  - Guidance Counselors
  - School Improvement Teams
  - Curriculum Offices
  - Phase in all potential customers
Cognos

- **Target Uses:**
  - Teacher Data:
    - Elementary: CTBS and MSA
    - Middle: CTBS, MSA, MFT and HSA
    - High: CTBS, MSA, MFT, HSA, PSAT and SAT
  - Pre-defined reports
  - Ad-hoc reports
  - Individual specific data
DataTrax

- **Target Audience:**
  - Director Level and Up
  - Principals
  - School Improvement Teams
  - Curriculum Offices
  - Specifically Identified Individuals
DataTrax

● Target Uses

✓ “Frequently Asked Questions”
✓ Pre-defined flexible reports
✓ Blueprint for Progress indicators
✓ Annual Results Report data
✓ NCLB Data
Data Warehouse Data

  - ESOL, Free and Reduced Meals, Gifted and Talented, Magnet, Special Ed, Title I
Data Warehouse - Achievement Results

- CTBS – Grades 2, 4 and 6 (1999 – 2003)
Data Warehouse - Curriculum

  - Exam and Final Grades

- Courses Offered at the Middle and High School Level (1999 - 2003)
  - Course Name, Level, Credit, and Section
Data Warehouse - Personnel

Data Warehouse - Facilities

  - Name, Address, and Type of Facility

  - Principal’s Name and Grades in School


The Utility of Datatrax

A comprehensive and flexible system supporting data driven decisions resulting in positive outcomes for the Baltimore County Public Schools.
Flexibility of Drilling-Down

BCPS
Area
Schools
Classroom
Students
Classification Variables

- Grade Level
- Race/Ethnicity
- Gender
- FARMS
- LEP
- Gifted and Talented
Dependent Variables

Test Data

SAT Scores
MSA Scores
HSA Scores
Advanced Placement Scores
DATATRAX EXECUTIVE INFORMATION SYSTEM

Welcome BCPS Demo. Your authority level is DataTrax Administrator.

The DataTrax Executive Information System has been developed to enable you to track, analyze, and report on a wide variety of data important to the decision-making process of a school system. You can easily select and move between the available modules within the program by clicking the 'Modules' link at the top of every page and selecting the desired location, or use the links below. The following modules will be available in phase one:

**Students**
- Enrollment and Withdrawal Statistics, Gender, Ethnicity, Special Programs, Residency, etc.

**Facilities**
- Building Demographic Statistics, Physical Plant and Financials Analysis

**Testing**
- Score Analysis for CTBS, AP, MFT, SAT, PSAT, etc.

**Personnel**
- Demographics, Employment, Salaries, Staff Development, Certification, Education Level, etc.

**Curriculum**
- Academic and Diploma Track Analysis, Grade Statistics, Placements, etc.
Data Consolidation (Vertical Axis)

1. Navigation Method: <Click to Select> 
2. Starting Level: 
3. Time Method: <Click to Select> 
4. Time Constraint: <Click to Select> 
5. Date (MM/DD/YYYY): / / 

Data Correlations (Horizontal Axis)

6. Primary Analysis: <Click to Select> 
7. Secondary Correlation: <Click to Select> 
8. Disaggregation Level: <Click to Select>

Click to proceed >> Generate Or Start Over >> Clear
My Pre-Defined Reports (BCPS2003):

- Board Presentation SAT

System-Defined Reports:

- Board Presentation

Data Consolidation (Vertical Axis):

1. Navigation Method: Dynamic (drill-down enabled)
2. Starting Level: System (BCPS)
3. Time Method: Prior School Year (01-02)
4. Time Constraint: End of Year
5. Date (MM/DD/YYYY):

Data Correlations (Horizontal Axis):

6. Primary Analysis: SAT Scores
7. Secondary Correlation: Grade Level
8. Disaggregation Level: Academic Course Enrollment

Click to proceed >> Generate | Or Start Over >> Clear
**Testing Report Results**

Tuesday, September 09, 2003

**Report:** Board Presentation  
**Run Time:** 09/09/2003 1:31:35 PM  
**Current Path:** Subset  
**Time Method:** Prior School Year (01-02)  
**Time Constraint:** End of Year (2002-06-14)  
**Drill-Down Target:** Area

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### Testing Report Results

Tuesday, September 09, 2003

- Report: Board Presentation
- Run Time: 09/09/2003 1:33:23 PM
- Current Path: Subset >> District >> BCPS
- Disaggretation: Academic Course Enrollment 2001-2002
- Time Method: Prior School Year (01-02)
- Time Constraint: End of Year (2002-06-14)

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**Student Profile**

**ID Number:** ****9569  
**Name:** WALKER, ANTONIO  
**Gender:** Female  
**DOB:** 5/20/1984

### Student Enrollment History

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<th>WdrCd</th>
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<th>Abs</th>
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<th>NonRes</th>
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### Student Program Participation

**Year**  | **Description** | **EnrDate** | **WdrDate**  
---       | ---             | ---         | ---          
No Program Data Found

### Student Grade History

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**Testing - Teacher Analysis**

**Tuesday, September 09, 2003**

**Report:** Board Presentation SAT  
**Run Time:** 09/09/2003 3:15:34 PM  
**Current Group:** District - BCPS  
**Disaggregation:** Course Enrollment - CALCULUS HONORS  
**School Year:** 2001-2002  
**Time Constraint:** End of Year

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