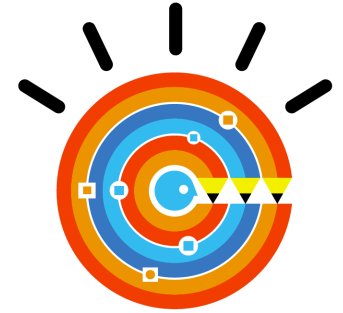
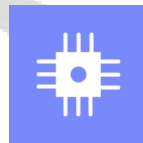


Predictive Risk Modeling and its importance to NEET prevention



A smarter planet

- Today, IBM is helping clients **change the way the world literally works** - to make the planet not just smaller and “flatter,” but **smarter**.
- IBM is applying its expertise, global scope and creativity to build the backbone of 21st century industries and public institutions.



Our world is becoming

INSTRUMENTED



Our world is becoming

INTERCONNECTED



Virtually all things, processes and ways
of working are becoming

INTELLIGENT

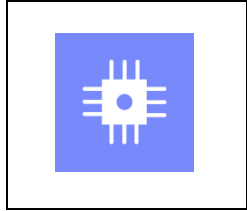
A smarter planet requires smarter education.

Smarter education = an opportunity to nurture students, our most valuable resource



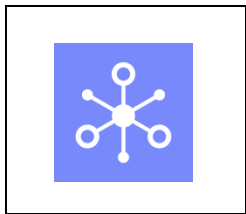
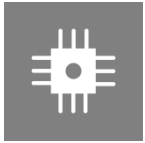
- Taking a systemic view of education systems
- Providing school leaders with tools and data for better decision making
- Creating shared services models
- Equipping students for higher achievement

When education systems are instrumented, they ...



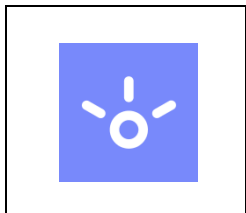
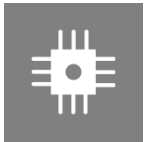
- Assist day-to-day monitoring of student achievement and mastery of homework, quizzes, etc.
- Gain real-time perspective into how a student or school is doing
- Help determine intervention needs; what is working across institutions and throughout student lifetimes
- Create shared services centres for consortia or regions saving precious finances
- Provide teachers and students with innovative tools to help accelerate both teaching and learning
- Enable individualized learning
- Remove classroom isolation

When education systems are interconnected, they ...



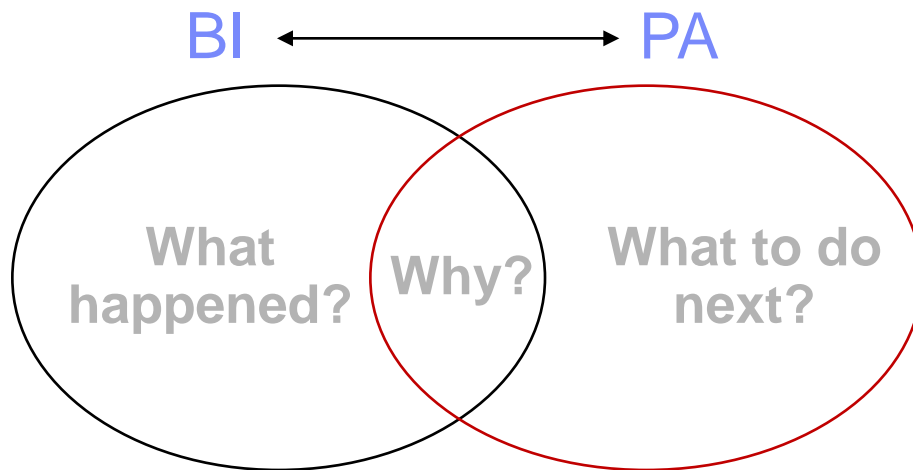
- Allow teachers to access high quality lesson plans and innovative professional development opportunities – anywhere, anytime.
- Empower teacher collaboration across classrooms, schools and systems around the world, sharing best practices to meet student needs
- Allow students to easily collaborate for new learning opportunities.
- Connect to nonprofit agencies, providing child and family services, as well as after-school programs offering science and technology enhancements and arts and cultural opportunities
- Enhance partnerships with the private sector for resources, ideas, and new approaches to old problems

When education systems are intelligent, they ...

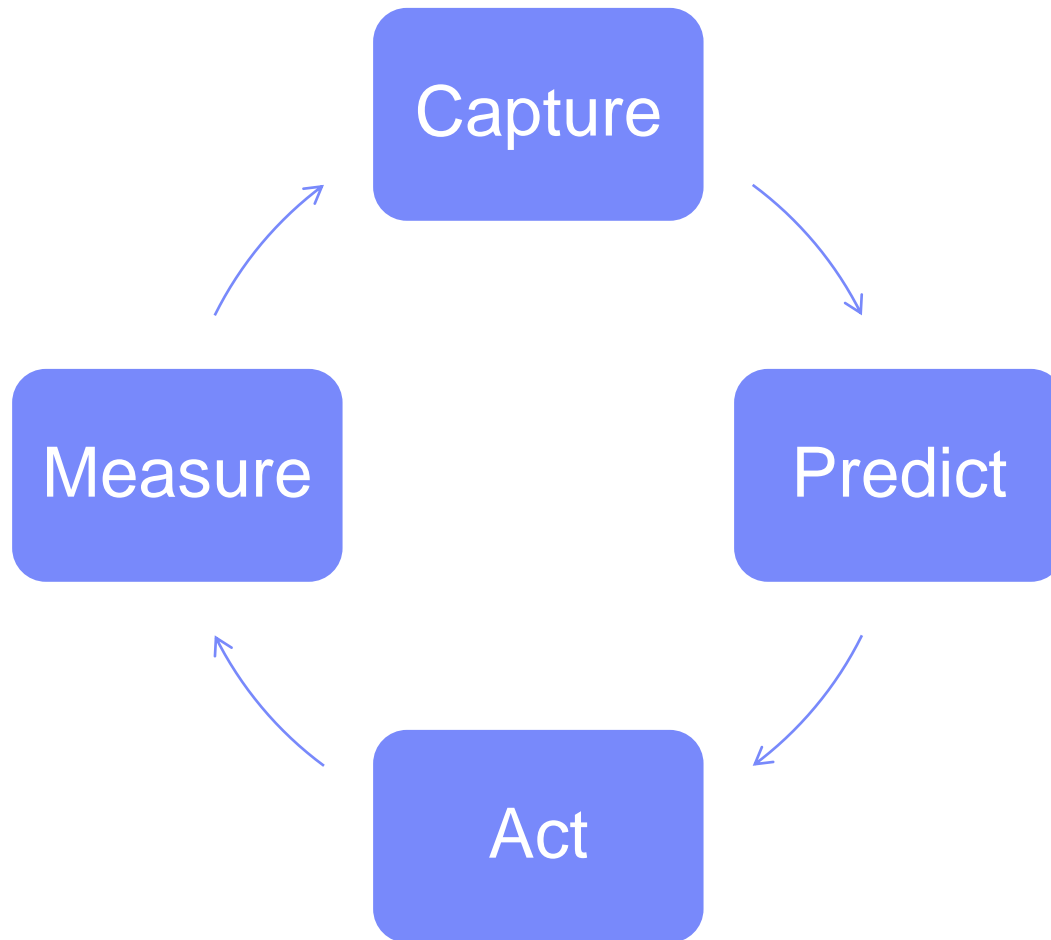


- Provide leaders with tools and insights to make smarter system level decisions
 - Gather, integrate, analyze and present information about key performance factors such as demographic trends, program effectiveness, benchmarks
 - Data to inform decisions on resource allocations
- Give teachers data necessary to:
 - spot troubling trends earlier and take action
 - make better decisions on instruction and assignments
 - meet each child's individual learning needs
 - ensure all children achieve at highest level
 - instill a sense of common purpose in working toward goals

Business Analytics



Predictive Analytics – The Approach

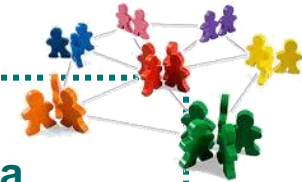


Where's the data?



Social data

- E-Mail / chat transcripts
- Call center notes
- Web Click-streams
- In person dialogues



Attitudinal data

- Opinions
- Preferences
- Needs & Desires

360 degree



Student View

Descriptive data

- Attributes
- Characteristics
- Self-declared info
- (Geo)demographics
- 3rd Party data
- Data aggregations

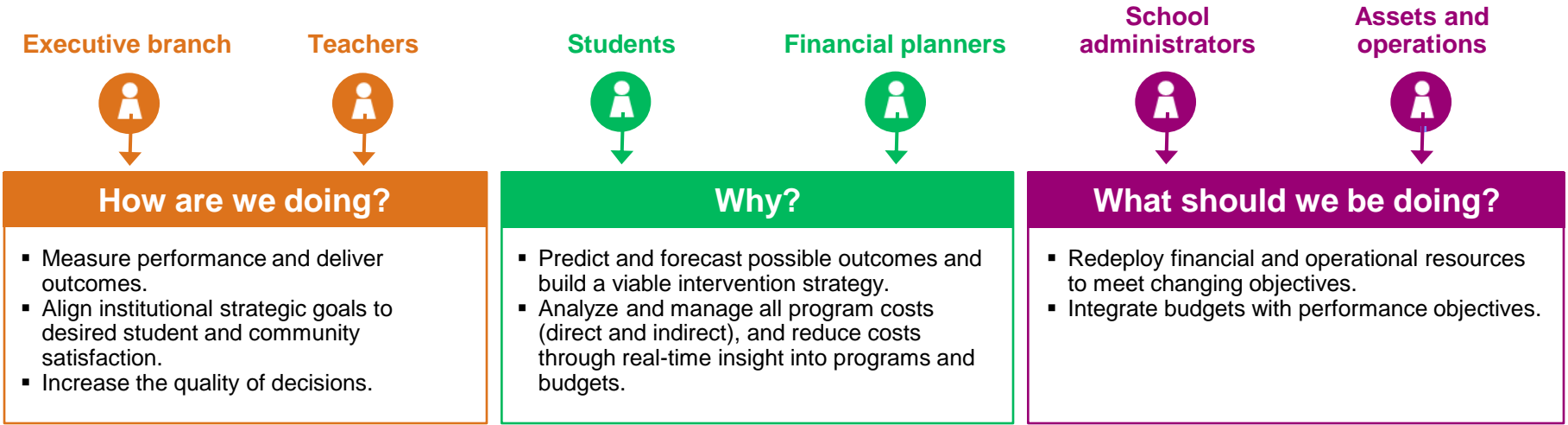


Behavioral data

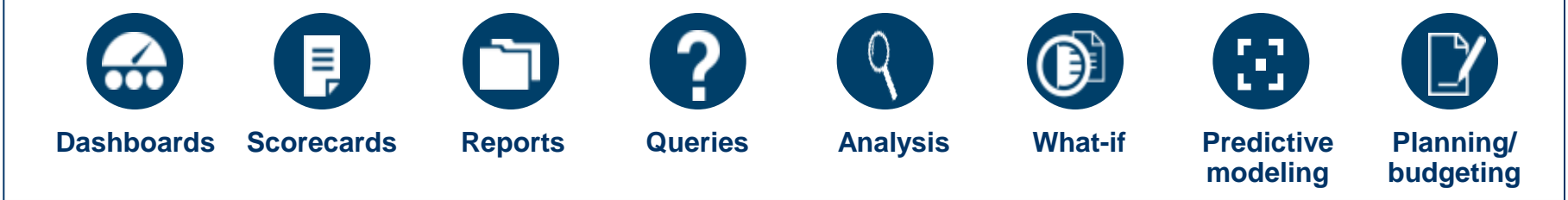
- Attendance
- Enrolments
- Test history
- Exam history



The IBM Business Analytics portfolio and platform for education



IBM Business Analytics capabilities



IBM Business Analytics platform



Predictive Analytics in Education

[Wichita State University \(Teaching\)](#)

[Wichita State University \(Institutional Research\)](#)

[Baruch College](#)

[Babson College](#)

[Penn State](#)

[Hamilton County Department of Education](#)

[New York University](#)

[Washington-Saratoga-Warren-Hamilton-Essex Board of Cooperative Educational Services](#)

[Kent State University](#)

[Saint Anselm College](#)

[Universite des Sciences et Technologies de Lille](#)

[Aix-en-Provence \(IAE\)](#)

[l'Ecole des Dirigeants et des Créateurs \(EDC\)](#)

[University of Ulster](#)

[American Public University System \(APUS\)](#)

[Israeli Ministry of Education](#)

[Bournemouth University](#)

Predictive Analytics in Education – Predicting NEET

Medway's NEET Prevention Strategy

Graham Clewes, Chief Executive, Medway Youth Trust

Data Collection, Development and RPA

Gill Cowan, Post-16 Participation, Department for Education

1110-1130 Refreshments Break

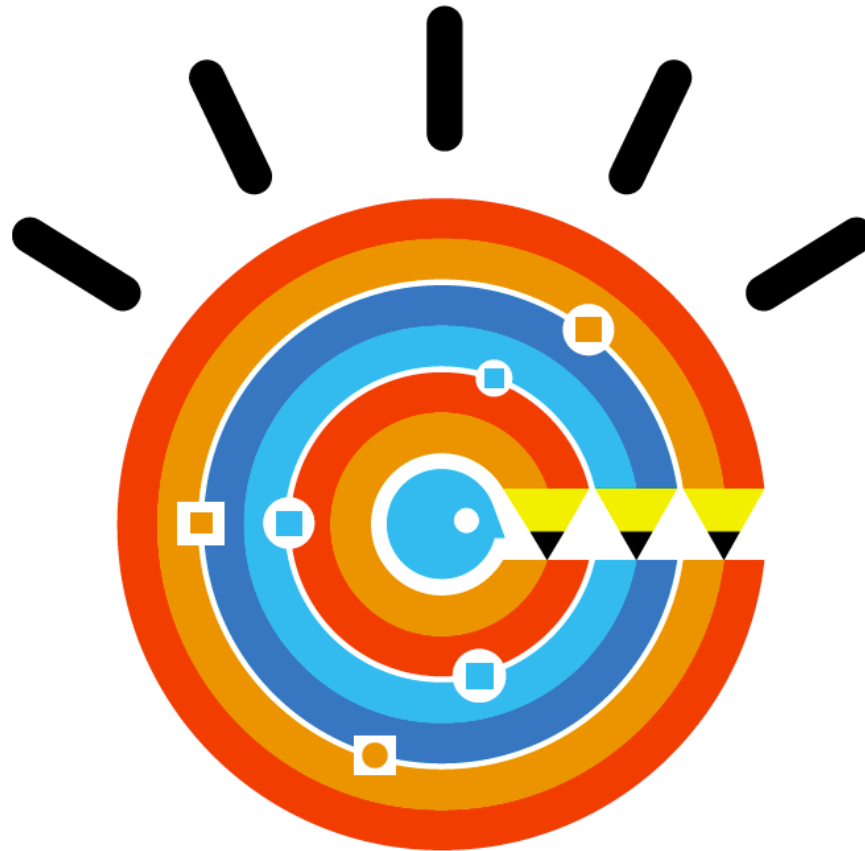
Case Study and Demo

Gary Seaman, Medway Youth Trust

Panel Discussion

Graham Clewes, Gill Cowan, Gary Seaman

1245 Lunch and Networking



Visit [IBM's smarter education](#) and [philanthropy](#) sites for more information