The Data Whisperers
IEBC Analytics Products and Services

)IEBC(

INSTITUTE *for* EVIDENCE-BASED CHANGE

IEBC can merge your data sets within and across pre-K, K12, community college, university and the labor market into single data warehouses where student cohorts can be tracked and reported on from the start of their education through their employment.

The Data Whisperers
IEBC Analytics Products and Services

Helping you paint an accurate picture - tell the story - make your case

Improving student outcomes requires a good understanding of where your students are succeeding and where they are challenged. Having this understanding enables you to make data-informed adjustments to policies, practices, and programs.

IEBC products and services help educators to understand the data, tell the important story, and use it to support needed changes. Our data systems produce information that is useful, useable, and actionable. Our data displays are easily understood by all educators—not just information technology and research staff—because they address the important questions with simple visual impact. Please contact us at info@iebcnow.org or 530-204-7129 if you would like a demonstration.

Full-Service Data Projects

Stand-Alone Data Reporting Solutions Deployed at Your Organization

Data Quality Consulting

Metric, KPI development and Dashboard Consulting

Full-Service Data Projects
Capturing the entire student experiences

To better target your efforts, educators need to understand the student experience before the students come to our institutions and after they leave.

With its numerous products and tools, IEBC can merge your data sets within and across pre-K, K12, community college, university and the labor market into single data warehouses where student cohorts can be tracked and reported on from the start of their education through their employment.

With deep roots and skills in cross-segment data work across the nation, IEBC has been implementing solutions for our clients for nearly two decades.

- **Refining research questions**
- **Defining data collections**
- **Loading file submissions**
- **Ensuring data quality**
- **Producing metrics**

- **Running analyses and providing reports**
- **Developing web-based tools and dashboards**
- **Providing technical assistance and support**
- **Offering customization features - limitless combinations of filtering, display methods and exports**

Many institutions want to control, house and manage their own data and improve their reporting.

Under your control: localize your data solutions

IEBC data analysis and reporting solutions can be deployed and operated at your site. Training is provided. Ongoing customization and maintenance can be added. Below are three popular examples of systems that IEBC has developed and can deploy for you:

Data warehouse

We help develop your data warehouse, collecting the data you need and leveraging IEBC work with state data collection systems, the National Student Clearinghouse (NSC) and other standard files. This work allows for adding data over time and operates in a Microsoft SQL environment. The data warehouse provides:

- **Summary reporting of a wide array of student metrics**
- **Student progress tracking**
- **Disaggregated reporting by program, pathway, demographic or other characteristics**

In-SITES™ tools and dashboards

Some common student cohort definitions used in research may inadvertently leave out information about the very students you are trying to include. IEBC presents multiple approaches that address this situation by offering user-designed filters to enable metrics that can be displayed in reports and dashboards disaggregated by user-defined categories. The result: a more complete student picture.

Program review In-SITES™ tool

In this solution for California community colleges, the IEBC data loader is coupled with a data visualization tool that assists with program review. The system supports:

- **Loading standard CCCCO files into a data warehouse**
- **Processing these data into a multi-dimensional reporting solution**
- **Presenting student outcomes via the exclusive IEBC In-SITES™ tool**

Data Quality Consulting

Inaccurate data leads to inappropriate policy and practice changes. You want the best quality data to make the best decision at the right time.

Large databases are never perfect and are often problematic. Changes to underlying systems, standards or staffing—along with manual data entry—can lead to an introduction of errors, gaps, inconsistencies and inaccurate reporting over time.

IEBC has been collecting student level, unitary data for almost two decades. Our experience has given us a deep understanding of where data quality problems exist, what may be causing them and how to correct them.

Consultation can include:

- Comprehensive data quality reporting on students, course enrollments, awards, career/technical education (CTE), pathways, assessments, and other types of data as requested, such as NSC Student Tracker or work-based learning

- Identifying issues such as referential integrity between systems, duplication, or data issues resulting from system conversions

- Comprehensive recommendations for correcting data problems – assessing what needs to be fixed and what does not.

Metric and Key Performance Indicator (KPI) Development and Displays

Data is more than numbers. It's students. Having a few key indicators focused on what you care about can make the difference in improving students' lives. For example, lagging indicators such as graduation rates are not helpful in understanding how to improve completion. On the other hand, leading indicators, defined by what you have control over that influence lagging indicators, are critical KPIs to be included in dashboards.

IEBC has been working with researchers, faculty, program staff and administrators to:

- identify meaningful research questions
- Understand which questions can be effectively answered with the available data
- Develop metrics and KPIs
- Design data displays that are user-friendly and look great on any device
- Develop, and make use of, leading and lagging indicators

)IEBC(

INSTITUTE *for* EVIDENCE-BASED CHANGE

IEBC is a nationally-recognized nonprofit organization helping education stakeholders use data and information to make informed decisions, improve practice and increase student success.

The IEBC Analytics department includes in-depth knowledge and skills in Microsoft, MySQL, and other relational data-base management systems; complex cross-segment student data matching processes; development of P-20 metrics and KPIs; and Dundas, Microsoft, and other business intelligence development and publishing environments.

For a demonstration of IEBC products and services, please contact us at info@iebcnow.org or call John Watson, Senior Director, Information Technology & Analytics, at 530-204-7129.

Institute for Evidence-Based Change
171 Saxony Road, Suite 108, Encinitas, CA 92024
760-436-1477 Fax 760-632-1854 www.iebcnow.org

Brad C. Phillips, President/CEO
bphillips@iebcnow.org