

Common Definitions for Today

Data is information, everywhere. It comes in all kinds and shapes and sizes. It's not all digital, but most of it is.

Analytics are methods and tools to parse streams of digital bits and bytes into meaningful patterns that can be explored to help stakeholders make more effective decisions.

Learning analytics are methods and tools needed to parse the stream of digital bits into meaningful patterns that explore dimensions of cognition, instruction and academic experience, including student success.

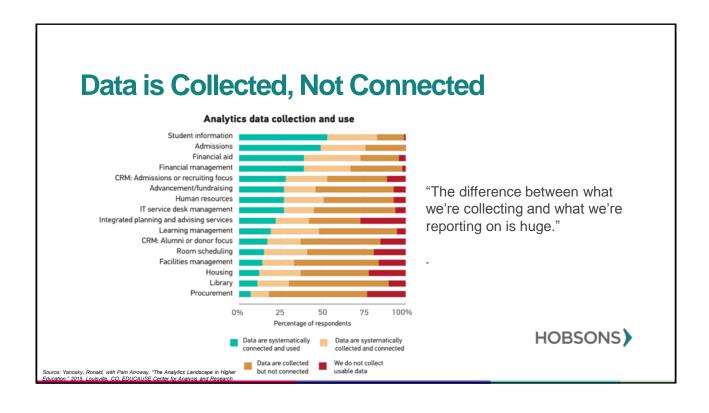
Data-readiness ranges from essential individual knowledge and skills to institutional capacity for creating a culture that values evidence-based decision-making.

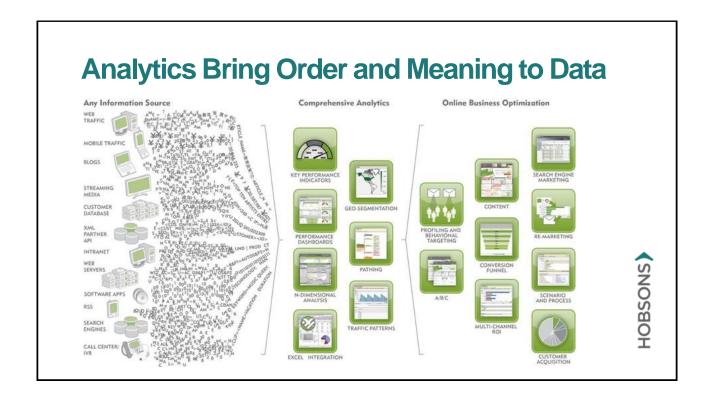
HOBSONS

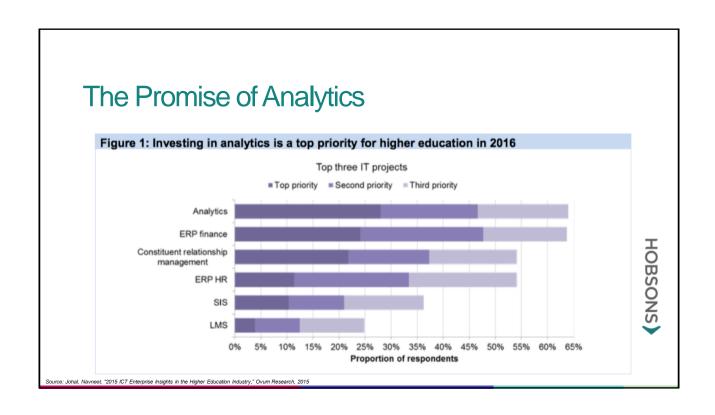
A Changing Landscape EXTERNAL PRESSURES ARE FORCING INSTITUTIONAL LEADERS TO MAKE STUDENT SUCCESS AND RETENTION A STRATEGIC PRIORITY INCREASING NUMBER OP STATES USING PERFORMANCE-BASED FUNDING IN HIGHER EDUCATION RETENTION IS INCREASINGLY SEEN AS A STRATEGIC ISSUE INCREASING ACCREDITATION RETENTION IS INCREASINGLY SEEN AS A STRATEGIC ISSUE DECLINING ENROLLMENTS MEANS INSTITUTIONS CAN PROPERTY OF THE PROPER

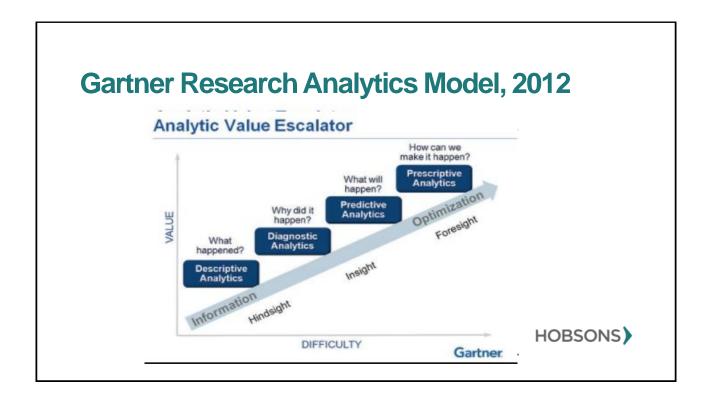
Data Have Changed Everything

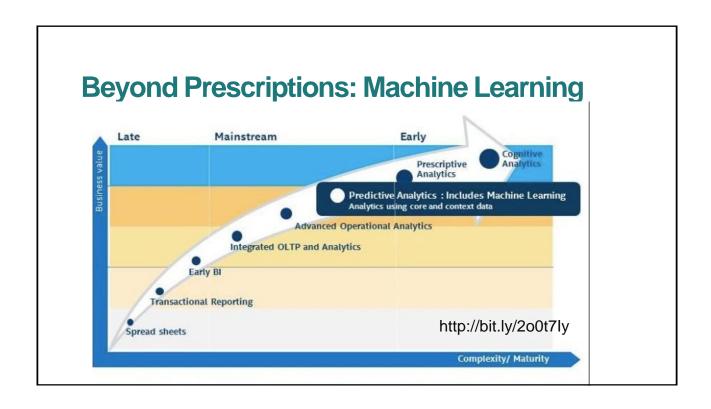
- Analytics have ramped up everyone's expectations of personalization, accountability and transparency.
- Academic enterprises cannot live outside the institutional focus on tangible, measureable results driving IT, finance, recruitment, content and other mission critical concerns
- In the past 8 years, the conversations about data readiness have migrated from (1) completion to (2) retention to (3) gainful employment to (4) personalization to (5) quality

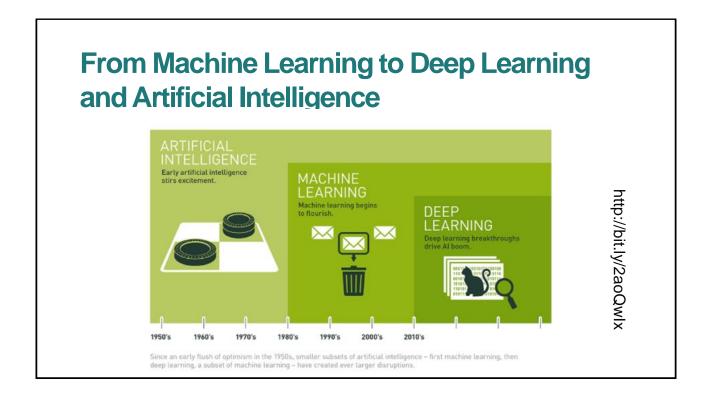












HOBSONS)

From Research to Practice The Evolution of PAR Framework 2016 2011 2012 2013 The PAR Framework PAR openly licenses PAR became fully Hobsons acquired the PAR developed the was founded as a and publishes data independent, not-forassets of PAR as part of Student Success its portfolio of Student Gates Foundation definitions and profit software as a Matrix as a common project within WICHE Student Success service membership Success solutions (which way to classify includes Starfish). as part of WCET. interventions. Matrix collaborative. PARFRAMEWORK

PAR Framework Research Questions

- Can predictive analytics find students at risk with the data we have in hand?
- Can risk differences between and among student sub-populations in an institution be discerned?
- Will students from anomalous institutions be discernable?

PAR Framework Common Data Definitions

Student Demographics

- Gender
- Race
- Prior credits
- Permanent resident zip code
- High school information
- Transfer GPA
- Student Type

Lookup Tables

- Credential types offered
- Course enrollment periods
- Student types
- Instructor status
- Delivery modes
- Grade codes
- Institution characteristics

Course Information

- Course location
- Subject
- Course number
- Section
- Start date / End date
- Initial grade / Final grade
- Delivery mode
- Instructor status
- Course credit

Student Financials

- FAFSA on file
- FAFSA file date
- Pell received / awarded
- Pell date

Course Catalog

- Course number Subject (long)
- Course title
- Course description
- Credit range

Student Academic Progress

- Current major / CIP
- Earned credential / CIP

HOBSONS)

A Decade of Student Success



Pioneered early alert and case management

First to integrate multi-source data into common view Added our 200th higher education institution

Joined Hobsons in 2015

by HOBSONS)

Funded by Bill and Melinda Gates Foundation

Led development of analytics-as-aservice

7

First open source inventory of interventions

Joined Hobsons in 2016

04/17



Evidence is Essential

"This work has allowed us to eliminate the duplication of services by multiple departments and streamline our programming to offer first class interventions to our student population. The Student Success Matrix has the potential to serve as our hub for academic support."

Michelle Wiley, Student Support Specialist, **Penn State World Campus**



Evidence is Essential

"In order to achieve the goals in our strategic plan, it's absolutely essential that we approach student success in a holistic way, with good data to drive decisions. Starfish has been an important partner in that endeavor."

Mark Askren, CIO, University of Nebraska -Lincoln

Connections are Critical

"We can't just throw data at faculty and expect them to embrace it – and understand it – unless they realize that there's a problem they're trying to solve."

Larry Dugan, Director of Instructional Technologies, Monroe Community College (SUNY)





Action is Imperative

"I believe that as an institution of higher education, we have a moral obligation to offer all that is possible to assist with a student's success.

Dr. Francis L. Battisti, Executive Vice President and Chief Academic Officer, **SUNY Broome Community College**

Mission Alignment

Priorities

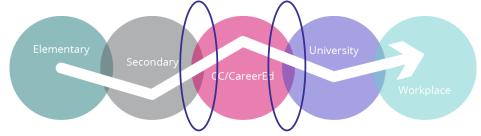
 $\quad \longleftarrow \quad$

PAR Research Includes

- First-year student success
- Adult and posttraditional learners
- BMI and other programs to support underrepresented students
- Transfer students (up, down, lateral) and pathways

- "An Empirical Look at Intervention Effectiveness for Improving First Year Experiences," Presentation by PAR's Ellen Wagner, PhD., Oct 2015
- "Expansion for Evaluation of CAPL 101/Jumpstart UMUC Student Success," Report by PAR's Ellen Wagner, Ph.D., Scott James, and Cassandra Daston. June 2015
- "Retention, Progression, and the taking of Online Courses," Online Learning peer-reviewed study by Dr. Karen Swan (UIS) and PAR's Scott James and Cassandra Daston. June 2016
- "Predicting Transfer Student Success," whitepaper by Scott James, PAR Data Scientist. May 2015
- https://www.hobsons.com/resources/entry/improving-post-traditionalstudent-success

Data Awareness Has Highlighted Misalignments in the U.S. Education System



- Points of transition typically represent points of loss in the system.
- What can we do to optimize digitalization to increase student success, improve institutional effectiveness and efficiency and reduce cost?

HOBSONS)

Discussion and Questions

HOBSONS)

Thanks for your Interest!

HOBSONS)