



# The Predictive Analytics Reporting Framework Proof of Concept

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# The Predictive Analytics Reporting (PAR) Framework



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- Large N statistical tests and analyses to identify factors affecting retention, progression and completion.
- Focused on federating and aggregating data from more than 640,000 de-identified student records and 3 million course records contributed by six institutional partners.
- Project Launched Jun 6, 2011. Federation completed in October, 2011. First results reports at WCET Annual meeting on October 27 and 28, 2011.
- Moving toward Phase 2, where we are adding another 12 – 14 institutions to add another 2 million student records to the master data set.

# PAR Framework Questions



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- What factors influence student loss/retention and momentum/completion?
- How do the factors affecting loss differ from indicators of completion?
- Are there unique demographic, pedagogical or institutional factors affecting loss/retention and momentum/completion?

# PAR Institutional Partners

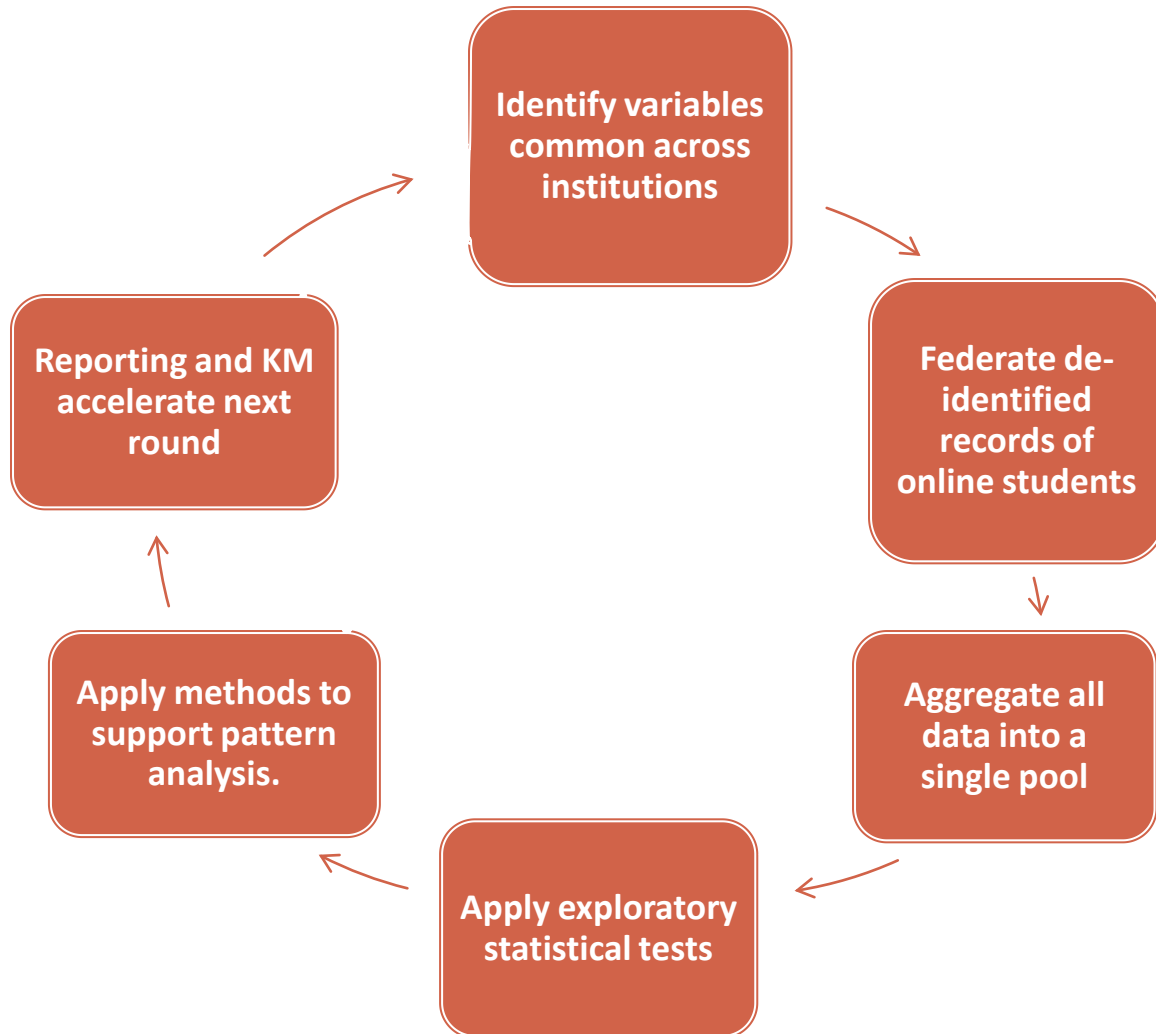


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- WCET, Managing Partner
- American Public University System
- Colorado Community College System
- Rio Salado College
- University of Hawaii System
- University of Illinois – Springfield
- University of Phoenix



# PAR Framework Process Model



# Variables Defined at June “Boulderado Summit”



Institution Identifier	Total Course Extensions	Gender	Veteran
PARStudentID	Total Degree Extensions	Non ResAlien Status	Transfer Credits
DegreeType	Previous Term Mean GPA	Race	Program Changes
AcademicLevel	Prior Term Withdrawals	Ethnicity	Prior Degree Completions
CIPCode	Degree Hours Attempted	Course Start Date	CourseGrade
MultipleMajor	Degree Hours Completed	Course End Date	DevEd Courses Attempted
Academic Status	Course Size	DOB	DevEd Courses Completed
Institution Student Course Completes	Concurrent Credit Bearing Courses	Military Classification	Degree Start Date

# PAR Dataset- Before & After



## Before

(June 7, 2011)

29 variables

Agreement  
on definition

600+ email  
exchanges

1 day-long data  
meeting

12 weekly  
meeting  
discussions

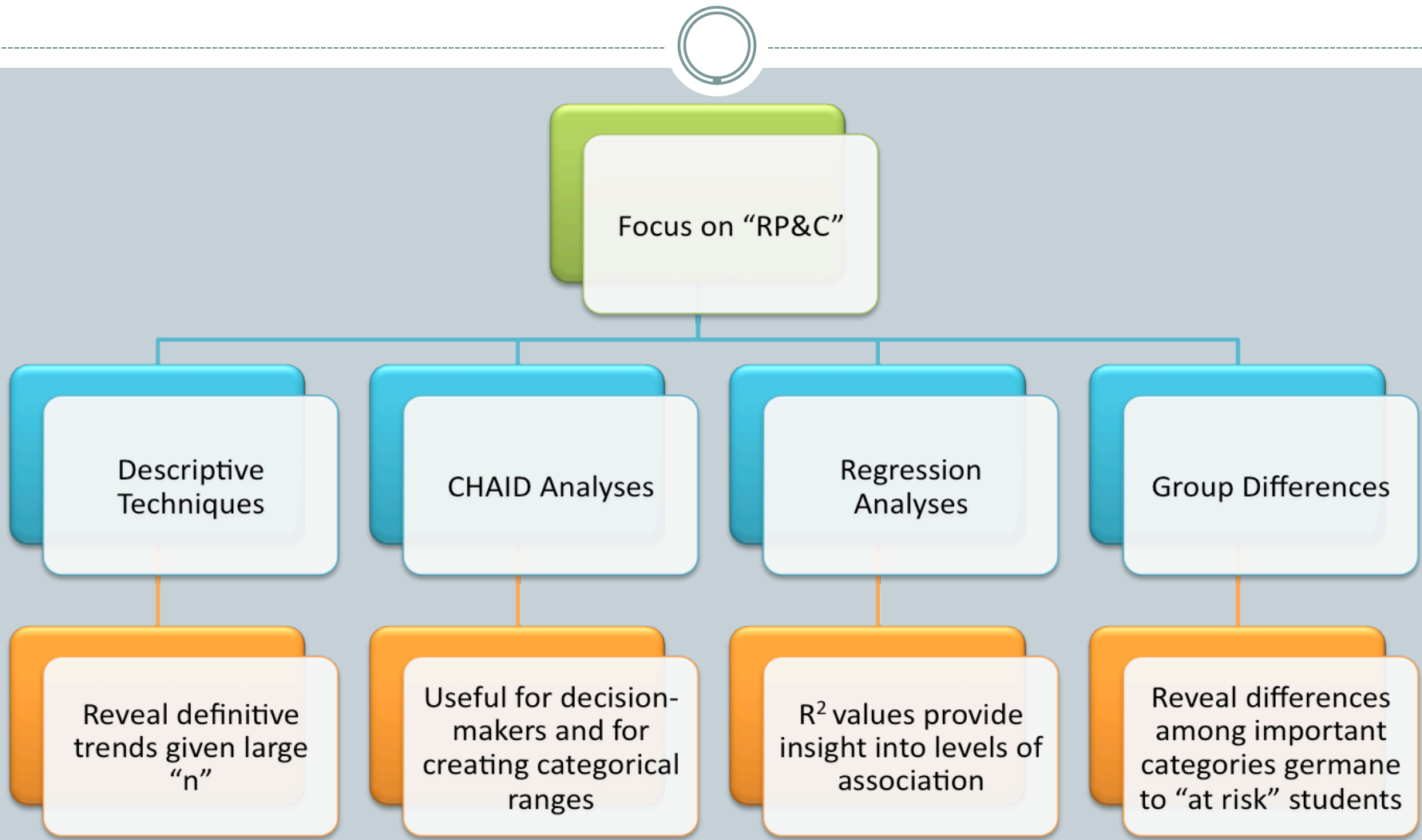
## After

(Sept 6, 2011)

33 variables

40 codebook  
updates

# Analysis Protocols



\* RP& C = Retention, Progress and Completion

# View from an Institutional Partner Perspective

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THANK YOU

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