

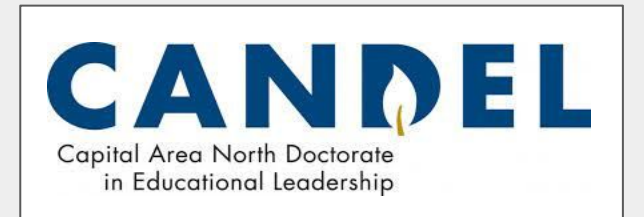
Decoding CA Community College Identity

AI and Human Approaches to Extracting Identity Themes from the ISER



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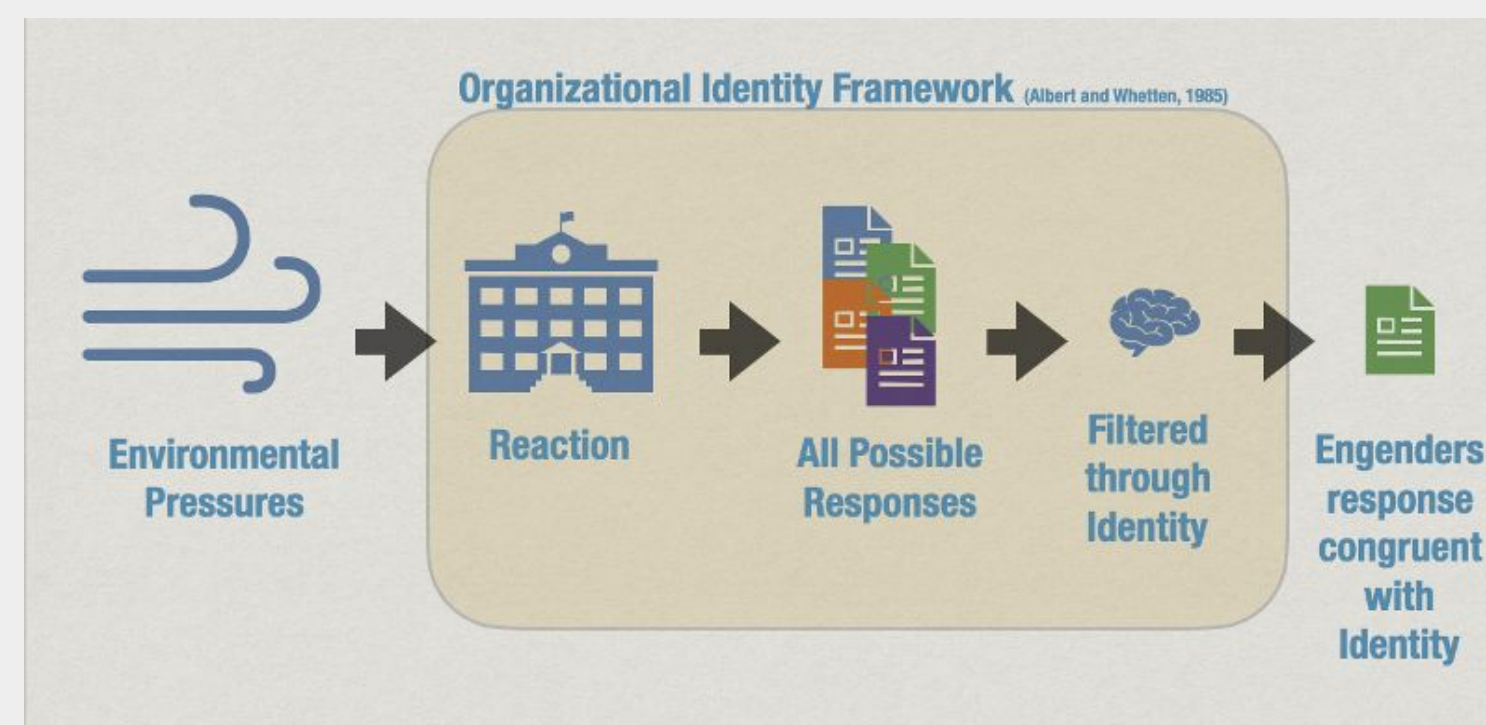
Introduction

An increasingly dynamic college environment makes Community College administration more challenging than ever.

1 Change efforts often fail.

3 Yet how do we know what those elements are?

2 But, incorporating elements of college identity improve success.



Study Objectives

Will components of college identity appear in the ISER?

Can automated and manual methods extract those components?

What are the differences and similarities between automated and manual methods?



Methods

Mixed Method Study

Latent Dirichlet Allocation (LDA)



In-vivo coding with Dedoose



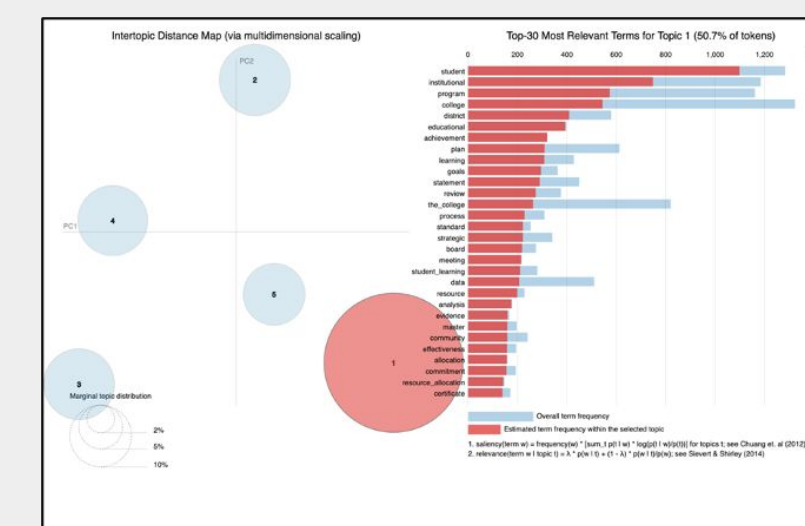
Standard I.A. only



N = 25

Data Analysis

LDAvis was used to examine the LDA results space. Terms were ranked according to how likely the algorithm calculated they belonged together.



Term	Posterior Probability	Lift	Term Prevalence
student	0.0925		✓
institutional	0.0922		✓
program	0.017		✓
college	0.0161		✓
district	0.0121		✓
educational	0.0116	✓	
achievement	0.0095	✓	
plan	0.0092		✓
learning	0.0091		✓
goals	0.0087		✓
statement	0.0086		✓
review	0.0081		✓
the college	0.0078		✓
process	0.0068		✓
standard	0.0066		✓
strategic	0.0066		✓
board	0.0065		✓
meeting	0.0064	✓	
student learning	0.0062		✓
data	0.0061		✓
resource	0.0059		✓
analysis	0.0052	✓	
evidence	0.0047	✓	
community	0.0047		✓
master	0.0047		✓
effectiveness	0.0047		✓
allocation	0.0046	✓	
commitment	0.0046		✓

The list of terms for each topic was then analyzed to determine how strongly it fit within a given topic.

Manual themes were extracted using the researcher as a lens to identify thematic phrases. For example, components of Topic I, Student Success:

"we promote access, success, and equity to meet each student's goals of skills development, certificate, associate degree, transfer, or personal enrichment." (Irvine Valley College, 2017, p. 86)

"The mission underscores the college's commitment to broad forms of student success ... in terms of completing transfer pathways, degrees, and or certificates" (Butte-Glenn Community College District, 2021, p. 42)

"College of the Sequoias is ... focused on student learning that leads to productive work, lifelong learning, and community involvement" (Sequoias Community College District, 2018, p. 98).

Themes

Automated LDA Themes

LDA Topic No.	Theme Label	Distinctive LDA Terms
1	Student-Centered Educational Process	student, institutional, program, college, district, educational, achievement, learning, goals, review, process, standard, board, meeting, student_learning, analysis, evidence, allocation
2	Deliberate Degree Delivery Process	college, program, student, counsel, learning, data, emp (educational master plan), the_college, college_council, report, minutes, development, faculty, developed, baccalaureate, handbook, activities, model, agenda
3	Stakeholder Coordination of Strategic Planning	institutional, college, data, program, plan, statement, campus, pathways, metrics, trustees, planning_committee, senate, requests, strategic_planning, office, budget, initiatives, guided, board_trustees, academic_senate, facilities
4	Strategic Planning for Institutional Goals	the_college, college, program, institutional, district, course, statements, degree, curriculum
5	Institutional Planning and Assessment	program, institutional, district, process, college, faculty, prioritization, cpc (college planning council), apo (assessment of planning outcomes committee), integrated_planning, manual, identified

Manual Themes

Latent Theme (#)	Central Concept/Scope/Boundaries
Student Success (41)	The college values the achievements and accomplishments of its students. This is broader than learning. These elements map to a binary state (achieved success/ did not achieve success).
Principles of Social Justice (28)	The college values the ideals of Social Justice.
Common Good (24)	The college encourages the development of skills for the common good and community.
Character Values (15)	Behavior and experiences which foster and honor positive character values.
Innovation Valued (14)	The college encourages the development and expression of new ideas.

Results

- Some elements of identity can be extracted from the ISER.
- Automated and manual methods are effective.
 - Automated methods may be more process oriented.
 - Manual methods may be more thematic.
 - Both methods did **NOT** yield the same results.