

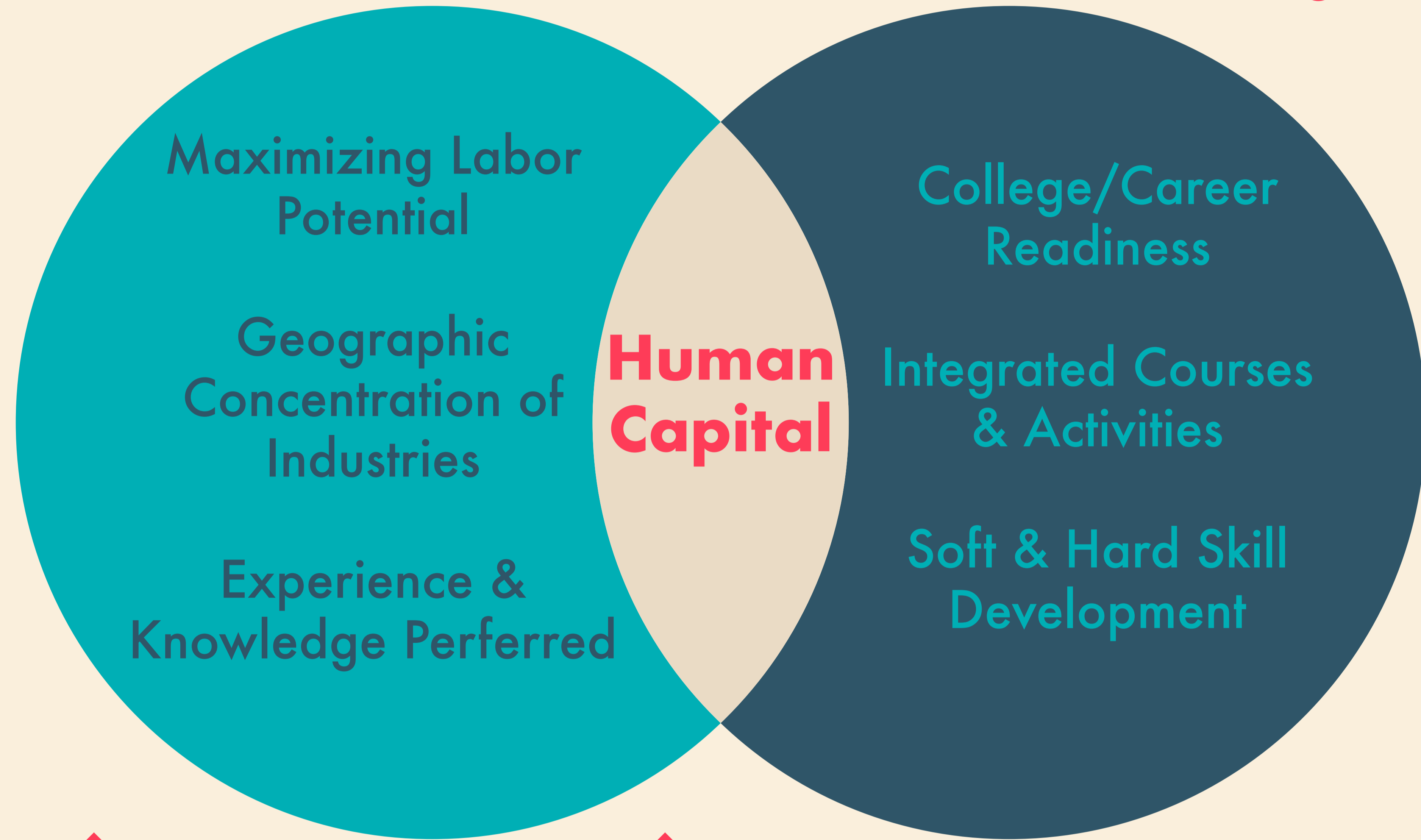
# MISMATCH? The Alignment Between Local AFNR Labor Markets and California Central Valley SBAE Program Components

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## Introduction

### AFNR Labor Markets

### School-Based Ag Ed



## Methods

- Purposive Sample → n=172 Ag Program Department Chairs
- Modified Curriculum/Congruence Instrument<sup>4</sup> → AFNR Subject Rated by Level of Presence 0-100% Scale
- Calculated AFNR Location Quotients (LQ) by County<sup>5</sup> → LQ >1.0 = High Concentration of Industry Jobs
- "Aligned" Program Components with AFNR Labor Markets → LQ >1.0 & AFNR Presence in Program >10% OR LQ <1.0 & AFNR Presence in Program <10%

## Major Findings

- Plant Sci. - 12.6 LQ (Highest), 75% Alignment (Highest Class)
- Animal Sci. - 5.7 LQ, 94% Alignment (Highest SAE)
- Biotech - .73 LQ (Lowest), 75% Alignment (Highest FFA)
- Power, Tech - 1.45LQ, <50% Aligned (All Components)
- Food Sci. - 4.6 LQ, <30% Alignment (All Components)
- Ag Bus. - 7.1 LQ, <30% Alignment (All Components)

## References

- <sup>1</sup>Becker, G. S. (2009). Human capital: A theoretical and empirical analysis, with special reference to education. University of Chicago press.
- <sup>2</sup>Hout, M. (2012). Social and economic returns to college education in the United States. Annual Review of Sociology, 38(1), 379-400.
- <sup>4</sup>Moser, E. M., & McKim, A. J. (2021). Exploring Curriculum Congruence and Connectivity within School-Based Agricultural Education. Journal of Agricultural Education, 62(1).
- <sup>3</sup>National Council for Agricultural Education. (n.d.). Agricultural Education. Retrieved July 7, 2022, from <https://thecouncil.ffa.org/ageducation>
- <sup>5</sup>U.S. Bureau of Labor Statistics. (2011). OES data highlights—Using Location Quotients to Analyze Occupational Data. [https://www.bls.gov/oes/highlight\\_location\\_quotients.pdf](https://www.bls.gov/oes/highlight_location_quotients.pdf)

## Conclusions

- Plant and Animal System Pathways high LQ is aligned with its popularity among SBAE programs.
- <1/3 of SBAE components are not aligned with Agribusiness and Food Products System Pathways.
- Despite Biotech's low labor market prospects, FFA activities are highly aligned.
- SBAE programs should prioritize local industries to remain relevant in their communities.

Central Valley

