



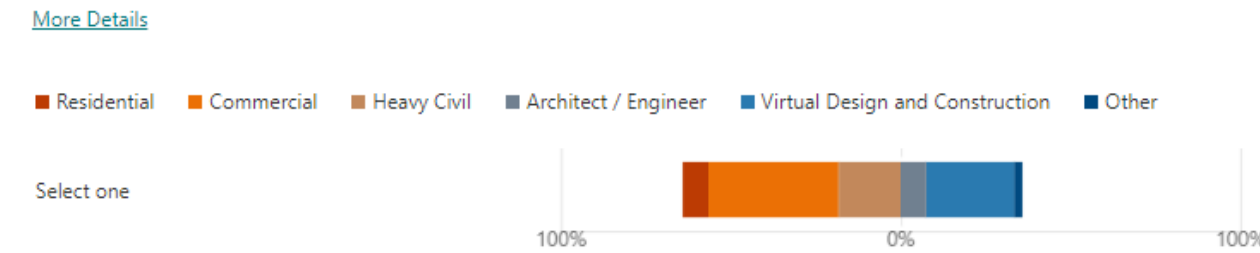
Proposal for Purchase of In-house Drone Technology for Cal Poly's Construction Management Department

By Angel Sanchez

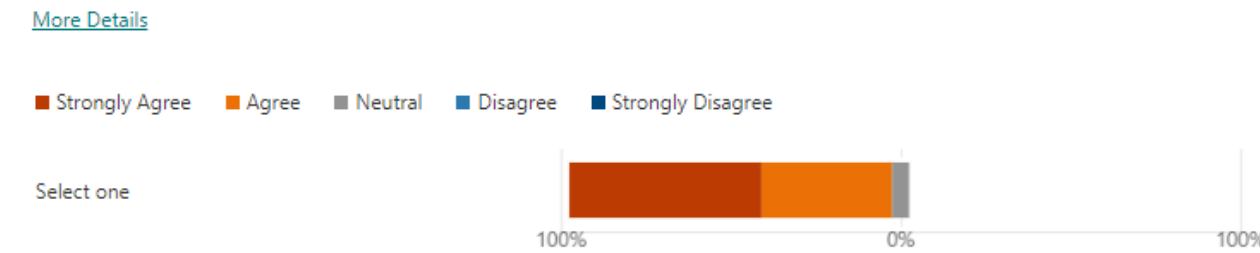
The Construction Industry is an industry that has experienced a technological revolution in the past decade consisting of an influx of innovative technologies that have altered the traditional way of doing things. Unmanned Aerial Systems (UAS) is one of these technologies that has been introduced into the construction industry and provides new opportunities to the industry in terms of job opportunities and opportunities to improve construction tasks. UAS technology entails many different aspects such as drones, photogrammetry capabilities, as well as the software that processes the field data to the analytic tools. The Cal Poly Construction Management (CM) Department has established itself as a program that year after year produces construction professionals that are ready to hit the ground running and challenge themselves with exciting challenges and projects. In order for the CM department to keep producing students that are ready to solve industry challenges, the department needs to be willing to invest in keeping the curriculum relevant to reflect industry trends. The purpose of this project is to come up with a proposal to encourage the CM department to purchase in-house UAS technology as a way to keep the curriculum relevant and continue to hold the department to its high standards.

Key Words: drone, UAS, photogrammetry, construction, technology

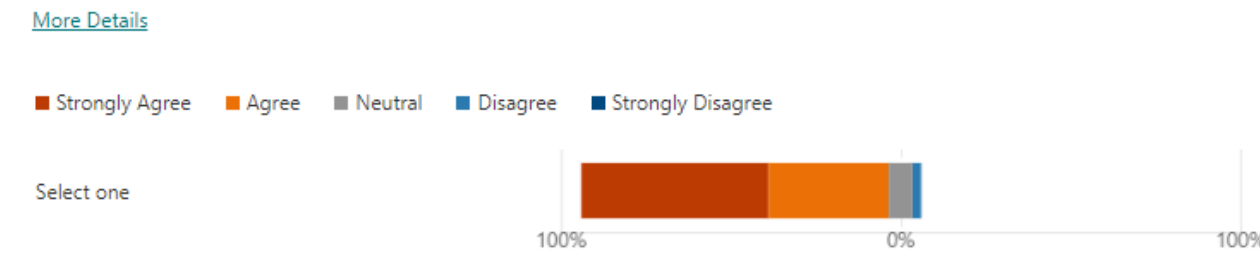
1. Select the primary industry you work in.



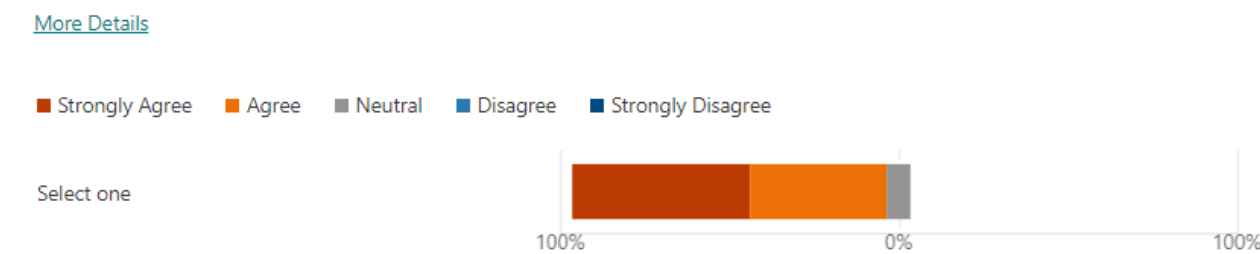
2. Learning about Unmanned Aerial Systems (UAS) and their many construction applications would provide value for Construction Management students.



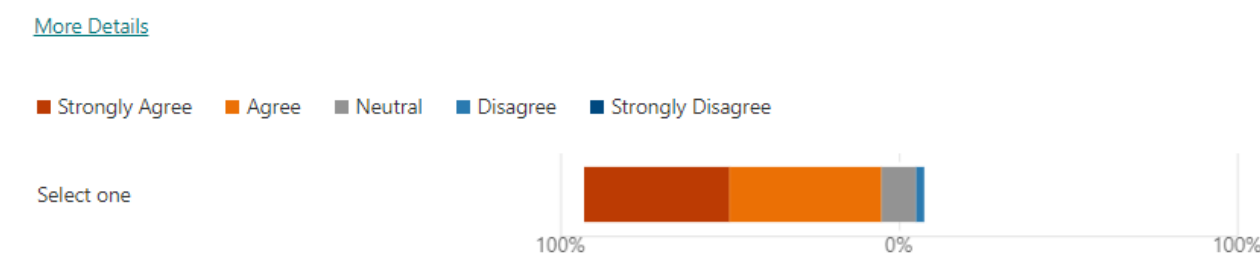
3. Incorporating UAS technology into the Construction Management curriculum would reflect current industry trends.



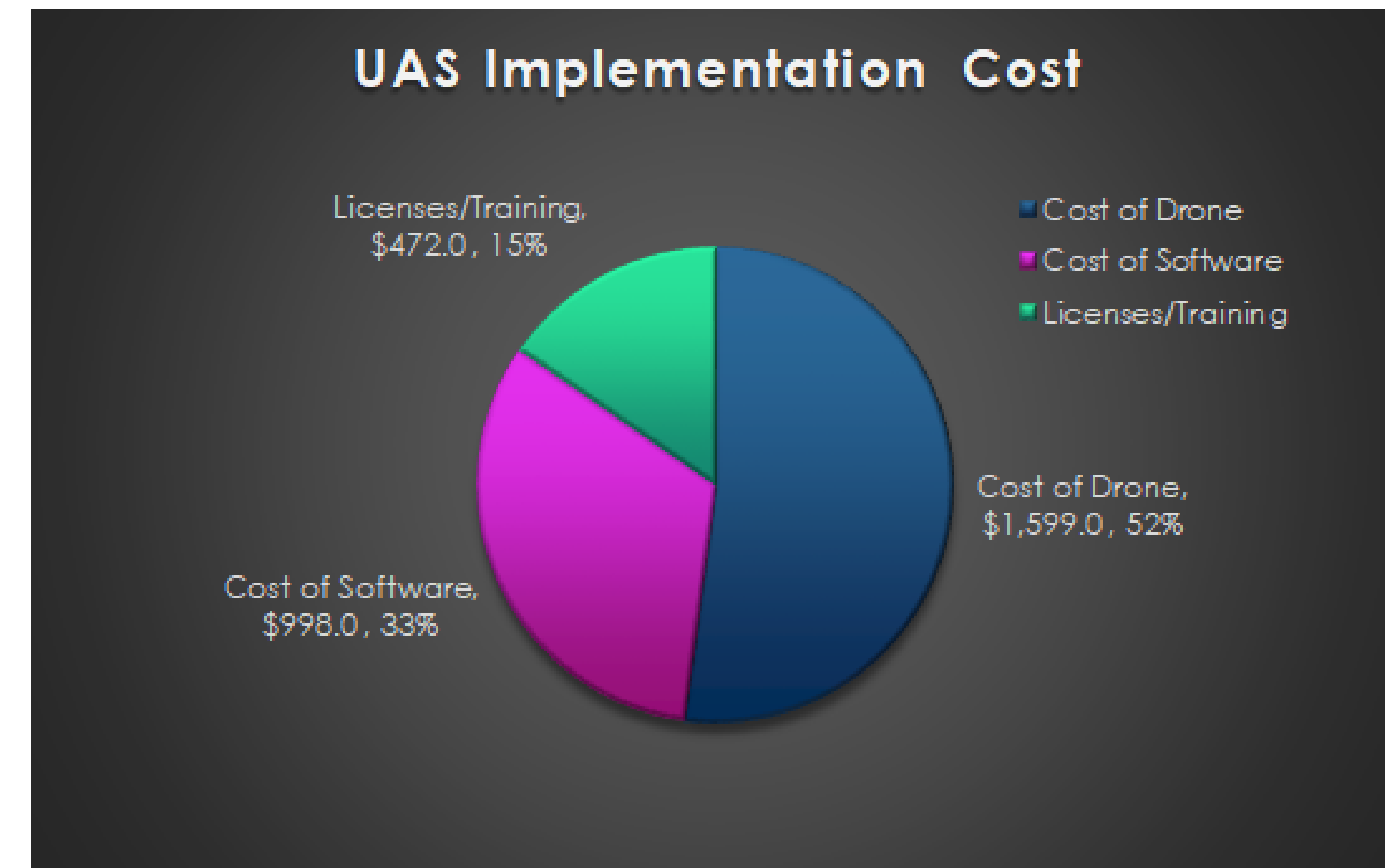
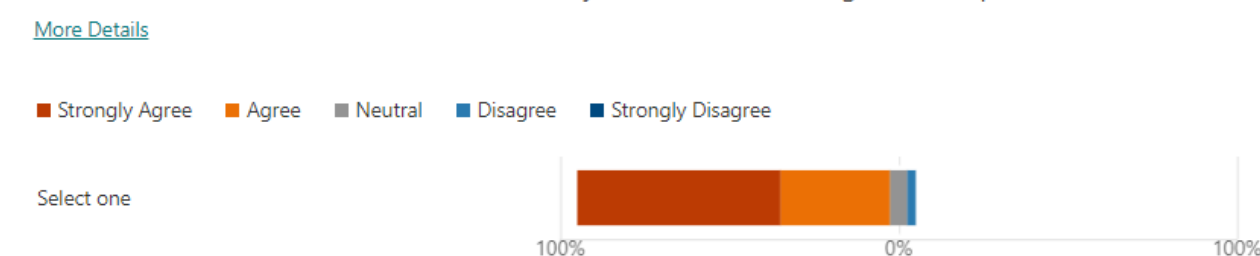
4. Investing in UAS technology may help the Cal Poly CM Department better prepare CM students for the opportunities presented by UAS in the construction industry.



5. Over the last decade, new/more job opportunities have become available in the construction industry that have to do with UAS technology.



6. The use of UAS in the construction industry has been increasing over the past decade.



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