

# Agricultural all-terrain vehicle safety

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## Problem

All-terrain vehicle (ATV) rollovers are one of the leading causes of injury and death in the agriculture industry. The ATV death rate is reportedly 100 times higher in the agriculture industry than in other U.S. industries. However, there is no practical solution for ATV rollover in the U.S.

## Project overview

This project aims to decrease the likelihood of injuries in agricultural ATV rollover incidents by preventing rollover incidents and protecting operators in rollover crashes. Therefore, this project will assess the static and dynamic stability of ATVs used for agricultural purposes and the performance of different designs of crush protection devices on agricultural ATVs

## Anticipated project outcomes

This study is the first step toward improving the static and dynamic stability of agricultural ATVs and establishing interventions to reduce the likelihood of ATV rollover injuries and fatalities in the agriculture industry. The study's results will also help researchers to develop standard tests for evaluating performance and optimizing the design of ATVs, roll bars, and attachments commonly used in agriculture.



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