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the first time in team history, placing **8th** in the basic class and **5th** in the advanced class at the SAE Aero Design

Michigan Autonomous Aerial Vehicles (MAAV)

Michigan Aeronautical Science Association (MASA) earned **2nd place** overall in the advanced class at the International Rocket Engineering Competition, the only student-built hybrid rocket to make it off the launch pad, reaching an altitude of 13,830 ft and a maximum velocity of 480 mph

Baja Racing
Baja Racing
earned the Mike
Schmidt Memorial Iron
Team Award for placing
1st overall among all
US teams to compete in
all three SAE Mini Baja

Michigan Concrete Canoe Team

placed 3rd overall at the North Central Regional Competition (1st place required to qualify for nationals)

Michigan Engineering Student Teams Electric Motorcycle Racing set new 1/4 mile and 1/8 mile world records for the National Elec-

Michigan Hybrid
Racing finished 5th overall at the SAE Formula Hybrid competition

U-M Solar Car

finished **4th** overall in the World Solar Challenge in Fall 2015, and finished **1st** in the 2016 American Solar Challenge for the 6th consecutive time, by a margin of over 11 hours. Most notably they were the only team to complete the entire race on solar power alone.

U-M Supermileage

electric vehicle Acacia raced for 10 laps reaching **74 mi/kWh** or roughly **2,493 mpg** at the Shell Eco-Marathon Americas competition

Steel Bridge Team placed

legal class

2nd overall at the North Central Regional Competition, earning a trip to the National Student Steel Bridge Competition where they took 3rd in aesthetics and 9th overall

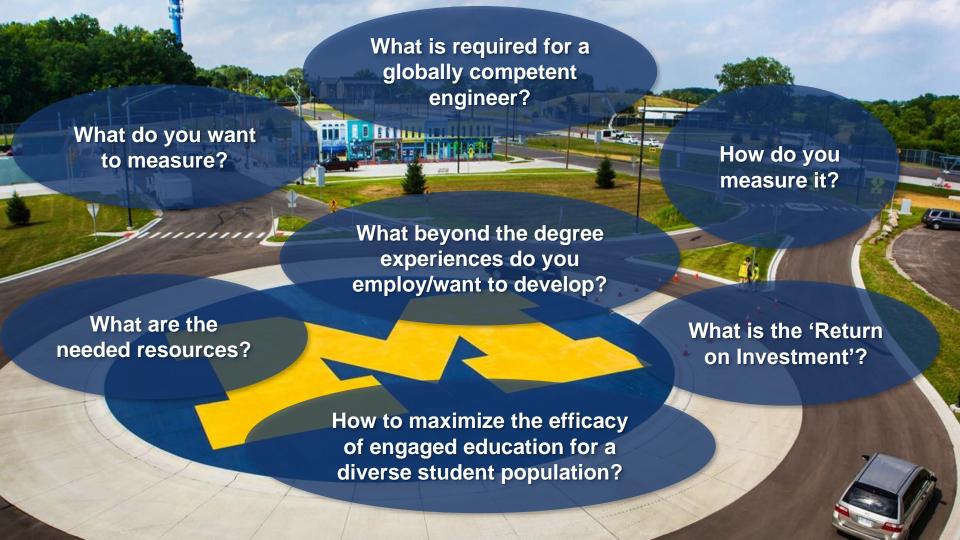
Mars

University Rover Challenge Are finals after a **3rd** place finish ir the semifinal round of competition. Autonomy fin-

tric Drag Racing Association 48-volt street

UM:: Autonomy finshed 6th in the AUVSI International RoboBoat Competition

120 Michigan Engineering Teams and Student Organizations



A Theoretical Framework

Inputs Socio Economic Status **Parental** Education Academic Preparation

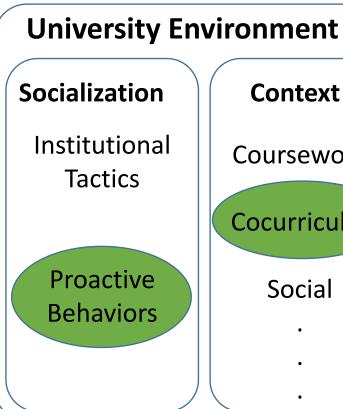
University Environment Socialization Institutional **Tactics** Proactive Behaviors

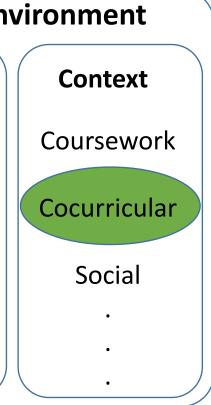
Context Coursework Cocurricular Social

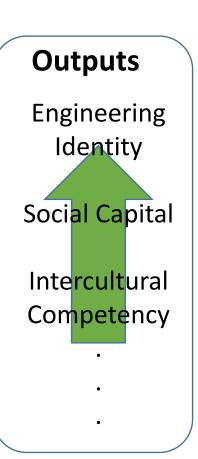
Outputs Engineering Identity **Social Capital** Intercultural Competency

A Hypothesis

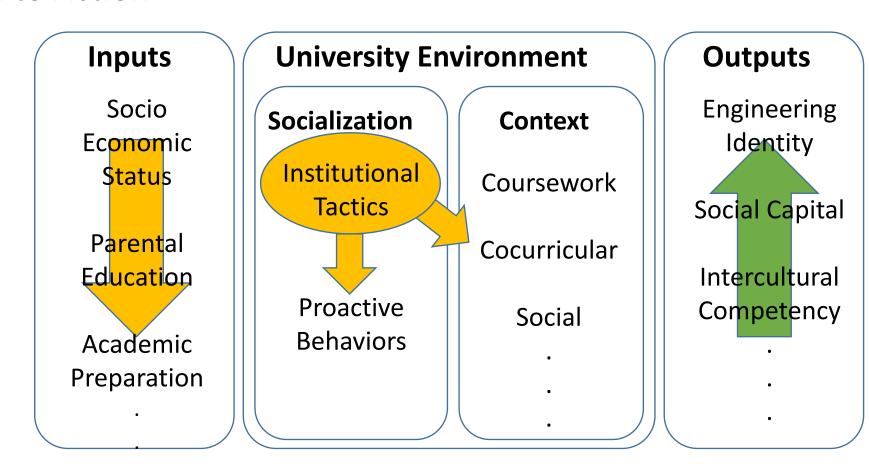
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A Call to Action



A Theoretical Framework

Inputs Socio Economic Status **Parental** Education Academic Preparation

University Environment Socialization Institutional **Tactics** Proactive Behaviors

Context Coursework Cocurricular Social

Outputs Engineering Identity **Social Capital** Intercultural Competency