Can you guess who conducted these research projects?

- The environmental impact of cryptocurrency
- The costs and solutions to homicides in Chicago
- Analysis of environmental conditions and driver behavior on the severity of car accidents in California
- Mitigating the risk of wildfires in California
- The risk of melanoma screenings for insurance companies

Would you believe us if we told you it was high school students?
The Modeling the Future Challenge is a competition for high school students combining math modeling, data analysis, and risk management into one exciting challenge! To compete, students conduct their own research project modeling real-world data to analyze risks and make recommendations to companies, industry groups, governments, or organizations.

Teams are also provided an Actuarial Process Guide to help them define their project and understand the details of how to conduct a real-world risk analysis and are linked with an actuary mentor to answer questions and share how they might approach a problem.

We believe that students who master the actuarial process will be successful at identifying, characterizing, and managing risks in all aspects of their life as well as in their career. Student participants are highly skilled in math and are interested in learning more about math-related careers, including actuarial science.

Let’s partner together!

Sponsors of the FY2022-2023 Modeling the Future Challenge will have the opportunity to:
+ Share information about their company and actuarial team with an engaged audience of students and teachers
+ Provide your actuaries to mentor teams throughout their project
+ Serve as judges for the semi-final and final rounds of the competition

For more details about the various sponsorship levels, see page 7.
Let’s expand diversity in the Modeling the Future Challenge!

This year we are expanding our efforts to bring more students from diverse backgrounds into the Challenge. Following a successful pilot last year, we’ve added dedicated training, mentoring and other resources for teachers and students through our Quest Track. This track is for teams who first want to learn actuarial fundamentals in order to prepare for future competitions.

### 2022-23 Challenge Track Timeline & Milestones

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<th>AUG</th>
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<th>OCT</th>
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<tr>
<td>Reg + Scenario Phase 1</td>
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<td>Project Phase 2</td>
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<td>Finalist Phase 3</td>
<td>Eval.</td>
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- **Challenge Launch Webinar** (Aug. 25)
- **Scenarios & Proposals Due** (Dec. 2)
- **Project Reports Due** (Mar. 3)
- **Finalist Presentations Due** (Apr. 7)

- **Teams Meet Virtually with Actuarial Mentors**

- **Registration Opens** (Sep. 12)
- **Registration Closes** (Nov. 11)
- **Semi-finalists Announced** (Dec. 12)
- **Finalists Announced** (Mar. 22)
- **Symposium & Awards** (Apr. 24-28)

- **Quest Track Registration Opens** (Nov. 28)
- **Project Phase begins** (Jan. 2)
The Challenge keeps on growing...

The FY2021-2022 Modeling the Future Challenge saw a record 197 teams register, and we anticipate even more teams in this year’s Challenge.
Participation by Type of Organization

The Modeling the Future Challenge welcomes teams from public, charter, and private schools as well as from extracurricular organizations across the country.

- **Public Schools**: 65.6%
- **Title 1 Public Schools***: 19.7%
- **Private Schools**: 9.8%
- **Extracurricular Organizations**: 4.9%

* Title 1 is a federal program that provides supplemental funds to school districts to assist schools with the highest student concentrations of poverty to meet educational goals.

Semifinalist Project Topics

Since the 2020-21 season, the Modeling the Future Challenge has adopted an open theme, allowing student teams to choose their own topic for their Project Report.

- **Environment & Climate Change**: 18%
- **Healthcare & Injury**: 19%
- **Flooding, Drought, & Natural Disasters**: 7%
- **Pandemics & Diseases**: 9%
- **Business & Finance**: 9%
- **Mental Health & Addiction**: 3%
- **Crime**: 3%
- **Wildfires**: 3%
- **Agriculture**: 3%
- **Social & Community Needs**: 28%

Social & Community Needs: 28%

Pandemics & Diseases: 9%

Healthcare & Injury: 19%

Flooding, Drought, & Natural Disasters: 7%

Business & Finance: 9%

Mental Health & Addiction: 3%

Crime: 3%

Wildfires: 3%

Agriculture: 3%

Environment & Climate Change: 18%

Since the 2020-21 season, the Modeling the Future Challenge has adopted an open theme, allowing student teams to choose their own topic for their Project Report.
### Modeling the Future Challenge FY2022-2023 Sponsorship Levels

| Event name recognition: "(Your Company) Presents the Modeling the Future Challenge Symposium" | Presenting Sponsor of Virtual Symposium ($100,000) | Pioneer Level Sponsor ($50,000) | Pathfinder Level Sponsor ($25,000) | Pacesetter Level Sponsor ($10,000) | Builder Level Sponsor ($5,000) | Regional Level Sponsor ($2,500) |
| Company featured in Finalist Announcement Webinar | ● | ● | ● | ● | ● | ● |
| Opportunity to speak during Closing Ceremony when winners are announced | ● | ● | ● | ● | ● | ● |
| Featured logo on finalist gifts or opportunity to provide a branded gift to finalists | ● | ● | ● | ● | ● | ● |
| Logo on MTFC website and during Semi-finalist/Finalist Announcement Webinars, and the Virtual Symposium | ● | ● | ● | ● | ● | ● |
| Company featured in Semi-finalist Announcement Webinar | ● | ● | ● | ● | ● | ● |
| Opportunity to host/participate in a live activity during the Virtual Symposium | ● | ● | ● | ● | ● | ● |
| Opportunity to participate in a live activity at the virtual symposium | ● | ● | ● | ● | ● | ● |
| Number of employees who can volunteer for the Challenge (mentors, semi-final judges, symposium judges) | 15 | 15 | 15 | 10 | 5 | 3 |
| Video clips about your work shared with participating students | ● | ● | ● | ● | ● | ● |
| Press release | ● | ● | ● | ● | ● | ● |
| Opportunity to participate in a MTFC webinar that reaches both students and teachers | ● | ● | ● | ● | ● | ● |
| Logo on MTFC newsletter | ● | ● | ● | ● | ● | ● |
| Social media recognition | ● | ● | ● | ● | ● | ● |
| Opportunity for a Zoom meeting with teams in your region | ● | ● | ● | ● | ● | ● |
“After talking to many actuaries, including students that are still getting certified, I feel as though I have a good idea of what being an actuary will entail, which is very important when considering my future career choices.”

—Modeling the Future Challenge participant