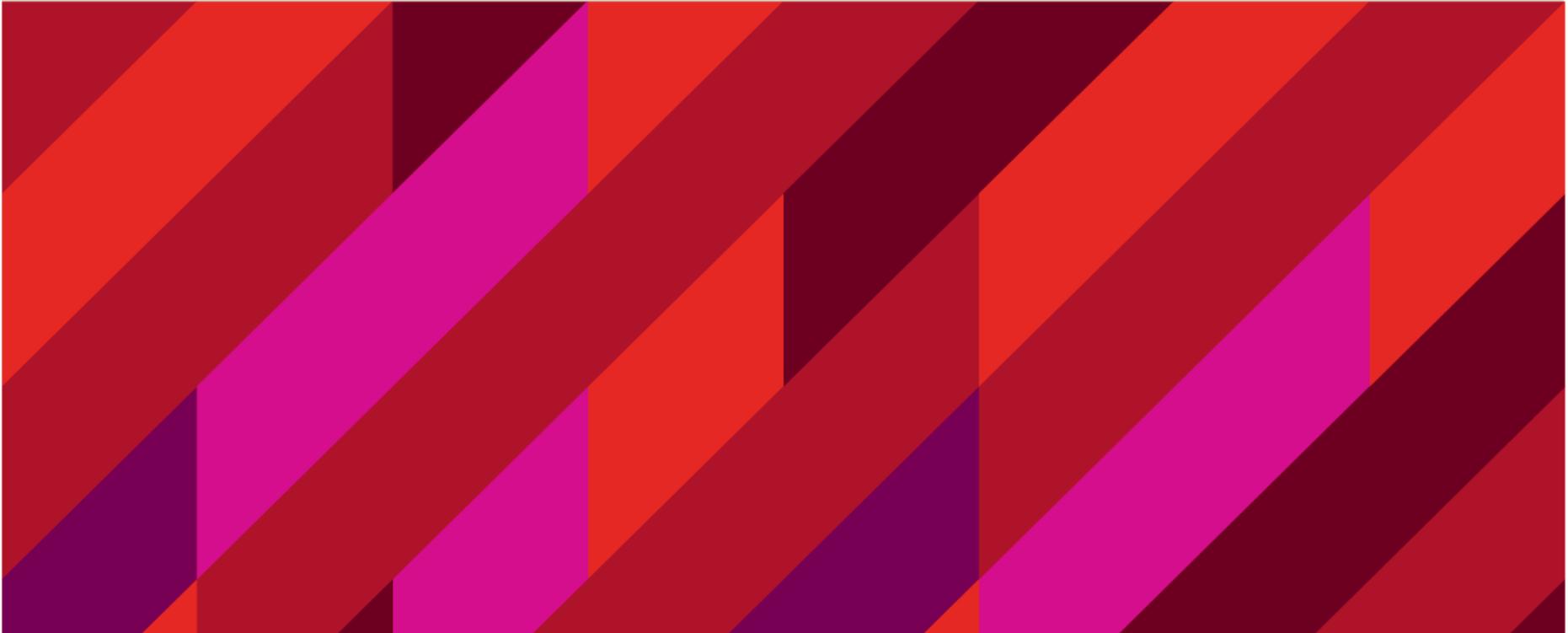

DEPARTMENT
OF ENGINEERING

*Faculty of Science and
Engineering*

FIRST Australia at Macquarie University

12 Oct 2016



What is *FIRST*?

For Inspiration and Recognition of Science and Technology

- **SPORT FOR THE MIND**
 - The excitement of a sports competition
 - The smarts of a science fair
- **GRACIOUS PROFESSIONALISM**



Started in 1992 by Segway inventor and MIT professor



The *FIRST* Progression



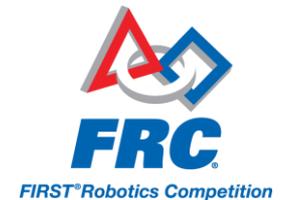
Ages 5-9
Up to 6
Students



Ages 9-16
Up to 10
Students



Ages 14-18
Up to 15
Students



Ages 14-18
Unlimited
Students



FIRST Robotics

ENGINEERING “START-UP”

- Work alongside technical professionals
- Controls, Systems, Mechanical, Electrical



MORE THAN JUST ROBOTS

- Business
- Media
- Animation
- Web
- Marketing
- Finance

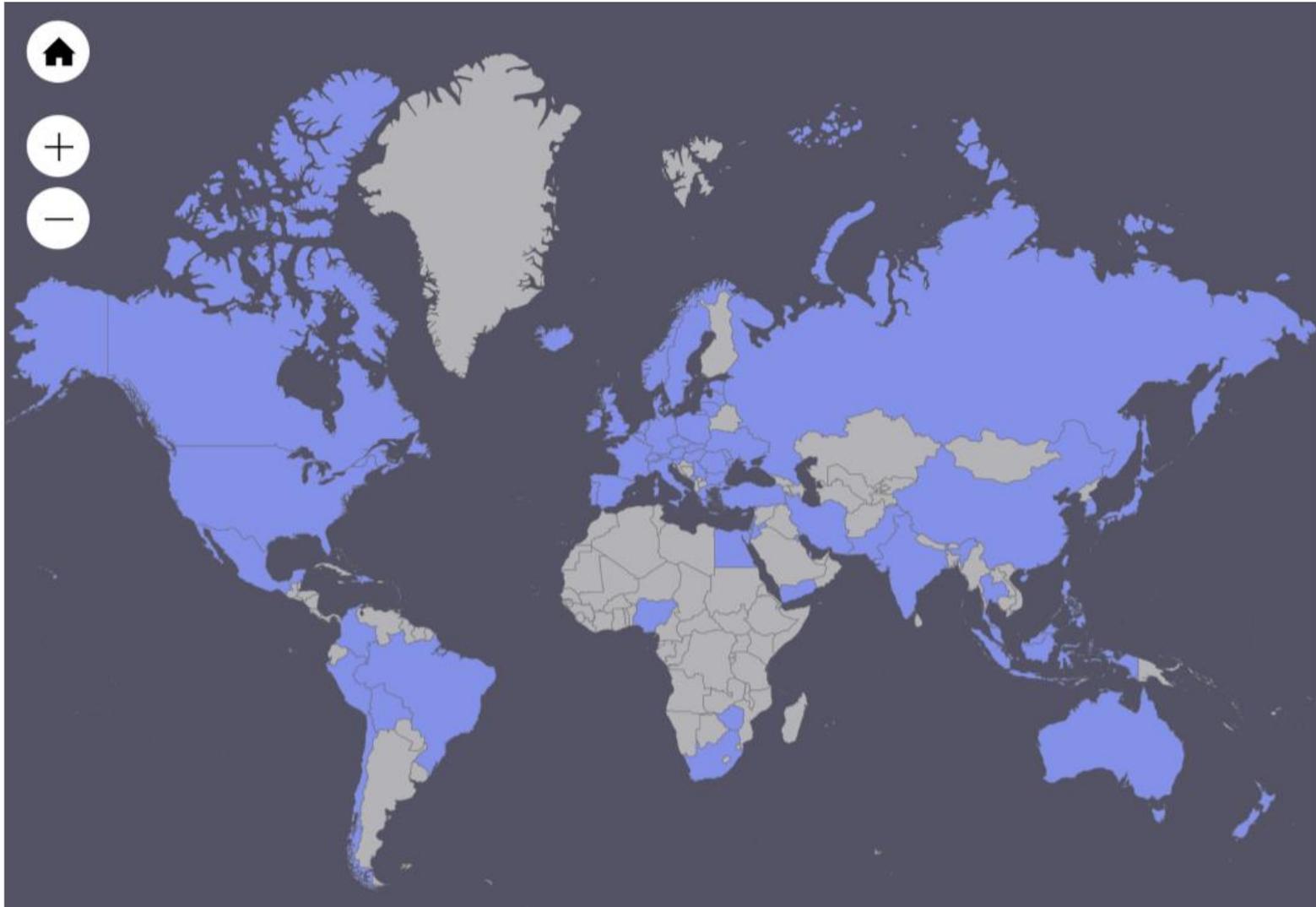


Results

- **TWICE** as likely to attend **UNIVERSITY**
- **10x** more likely to study **ICT/STEM**
- **3x** more likely to major in **ENGINEERING**
- **WOMEN** are **4x** more likely to pursue **SCIENCE / ENGINEERING** in University

* Brandeis University study

Where in the world?



***FIRST* at Macquarie**

- **Australia**
 - 600 schools, 50+ events
 - FRC Regional (China, Taiwan, Singapore, India, US)
 - Asia Pacific Invitational (25+ countries)
 - Corporate Partnerships (Google, Ford, LEGO Education....)
 - ** FRC Team 3132, The Thunder Down Under
 - ** FRC Team 5573, Ivanhoe
- **All International – Platinum Scholarship Provider**

***FIRST* at Macquarie**

- **China**
 - Partnership with Semia
 - Macquarie scholarships
 - Student mobility (World Adolescent Robotics Conference)
- **United States**
 - Scholarship Row
 - World Championship
- **Others?**
 - India, Malaysia, Vietnam, Africa, Pacific Islands, ...

