

Empowering Girls through ICT Education: Where Do We Stand?

Lafifa Jamal

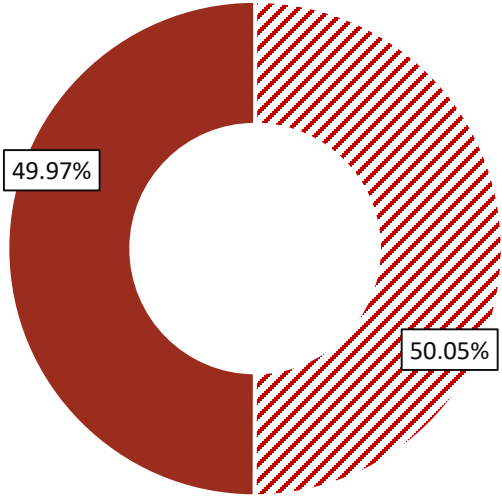
Professor, Dept. of Robotics and Mechatronics Engineering, University of Dhaka

President, Bangladesh Women in Technology

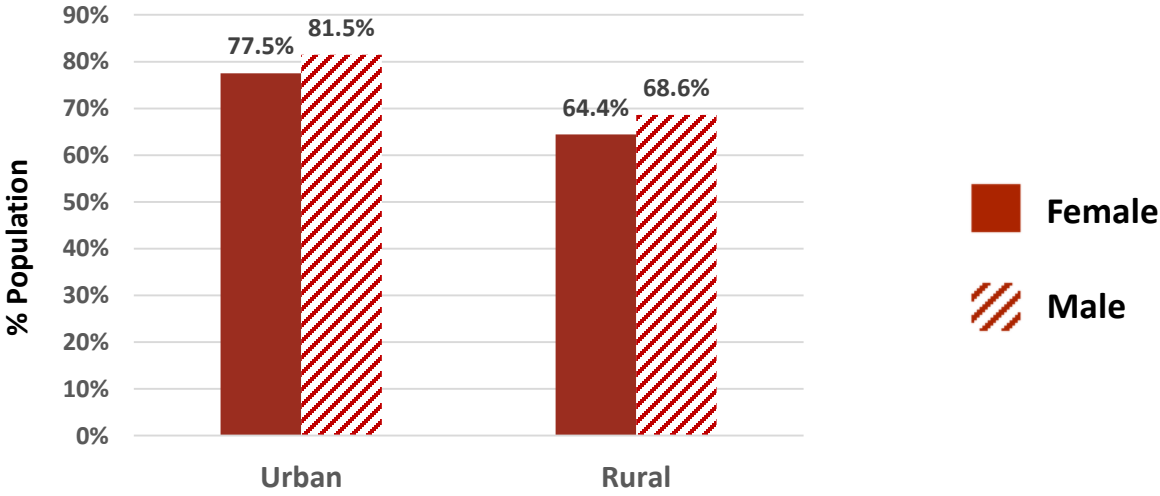
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Introduction

Gender Based Population Ratio



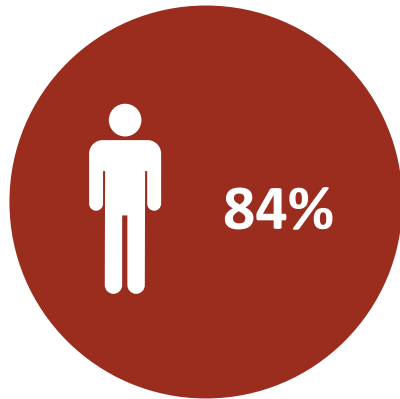
Education and Literacy Level



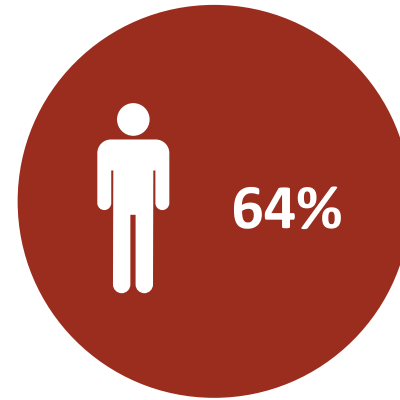
Source: Gender Statistic Report of Bangladesh 2018

Labor Force of Bangladesh

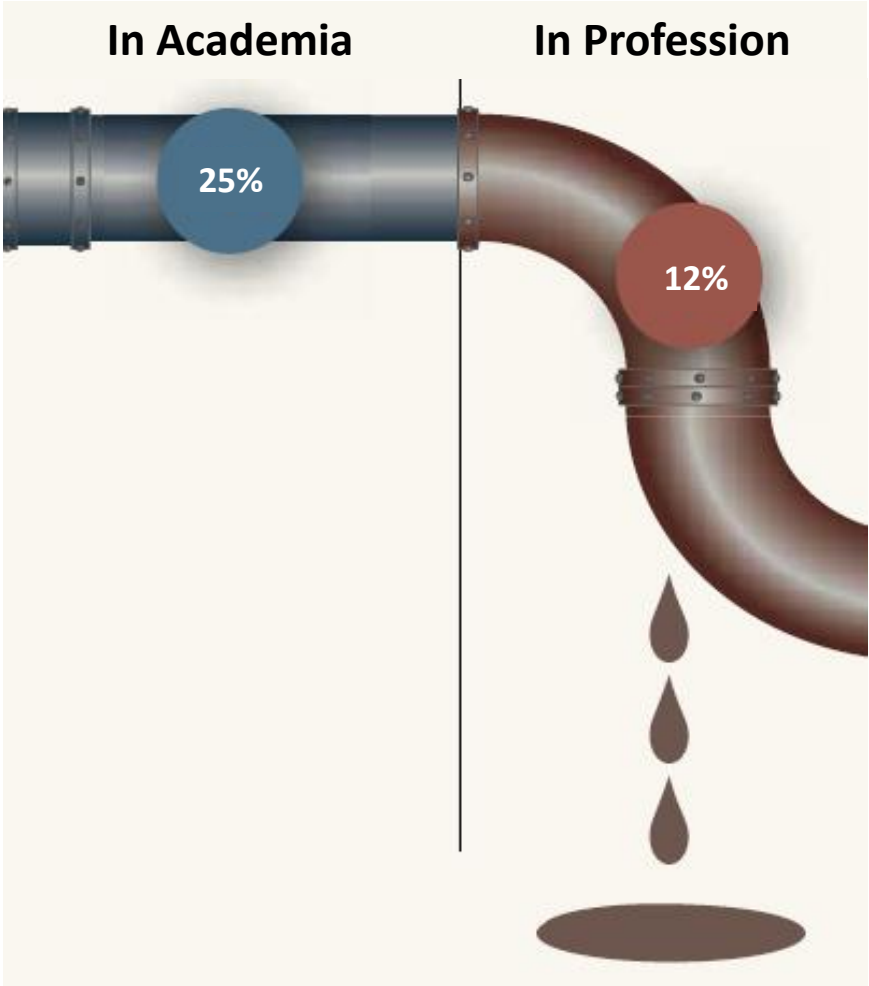
In 2006



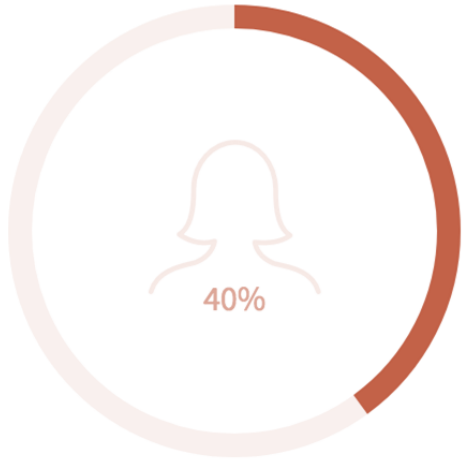
In 2019



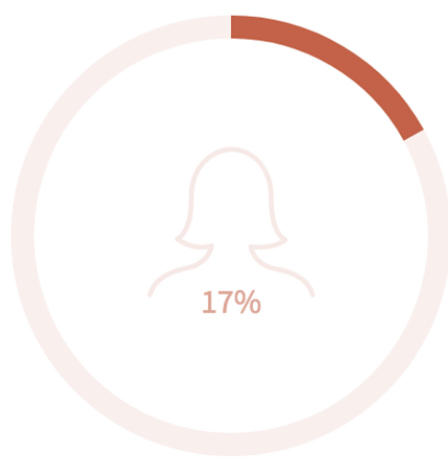
Leaky Pipeline of Tech Women in Bangladesh



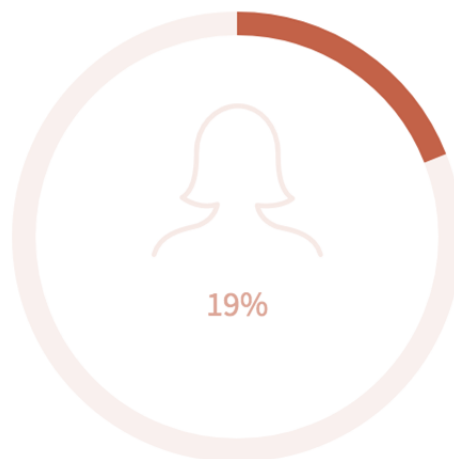
Global Workforce



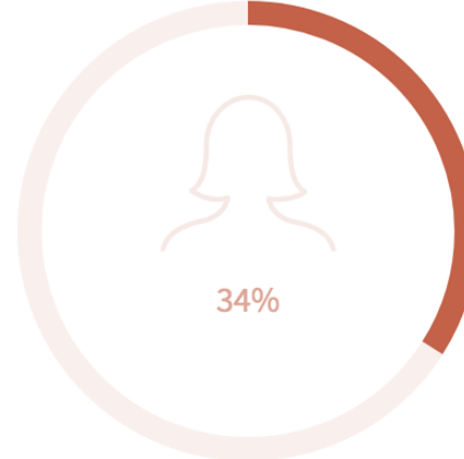
Women in Tech



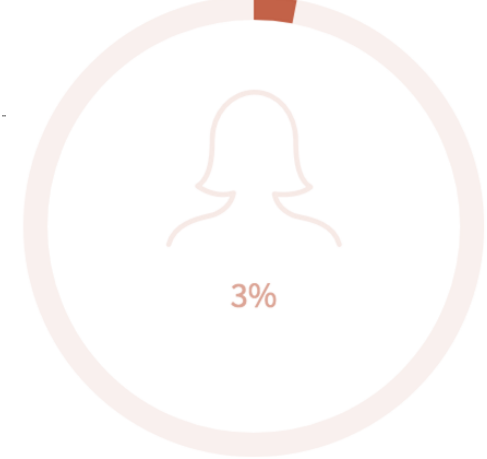
Pay Gap



STEM Graduates



Tech Career 1st Choice



At the current pace of change it will take

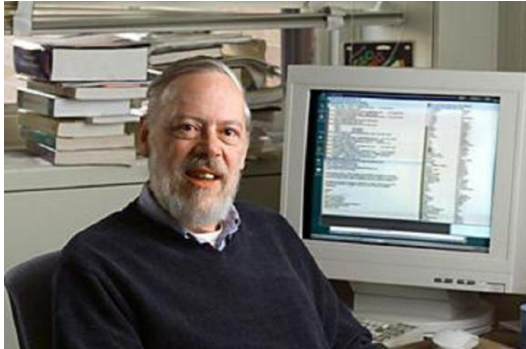
73152 **18** **03** **48**

DAYS HOURS MINUTES SECONDS

until the economic gender gap is closed.

Source: <https://www.womentech.net/women-technology-statistics>

ICT Giants



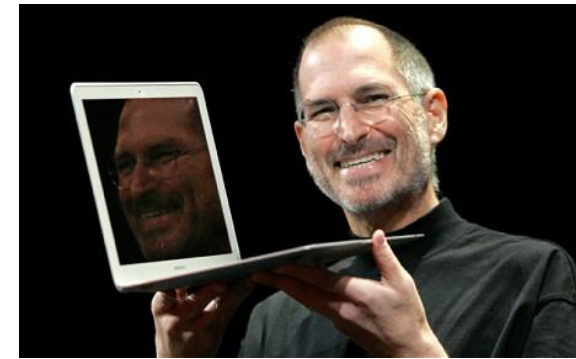
Dennis Ritchie, Creator of C



Linus Torvalds, Creator of Linux



Tim Berners-Lee, Inventor of WWW



Steve Jobs, Co-founder of Apple



Bill Gates, Principal Founder of Microsoft



Mark Zuckerberg, Co-founder of Facebook

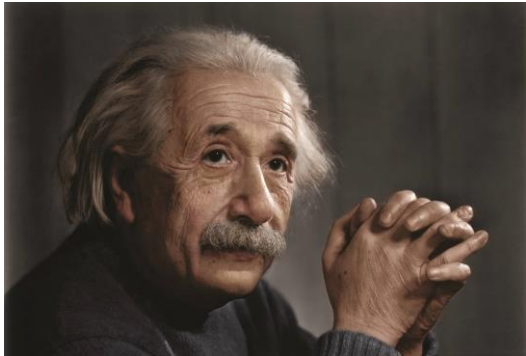


Larry Page, Co-founder of Google

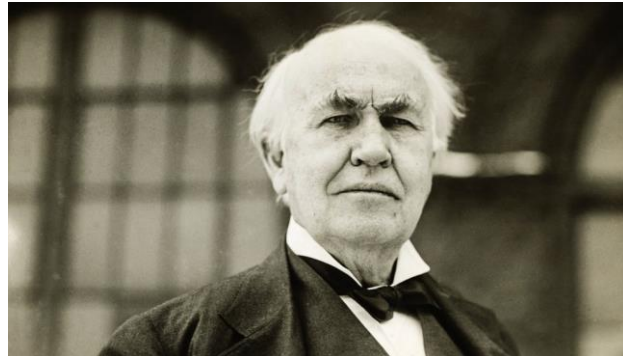


Sundar Pichai, CEO of Google

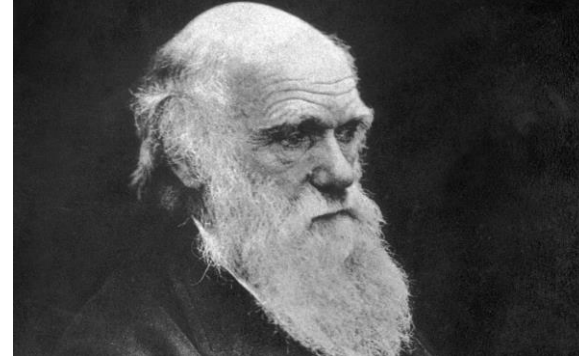
Eminent Scientists



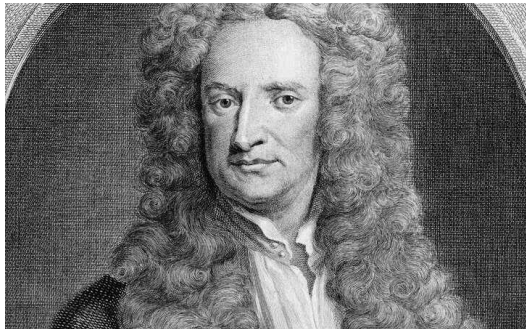
Albert Einstein



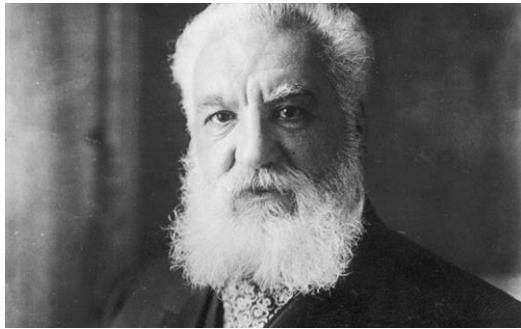
Thomas Edison



Charles Darwin



Isaac Newton



Alexandar Graham Bell



Stephen Hawking

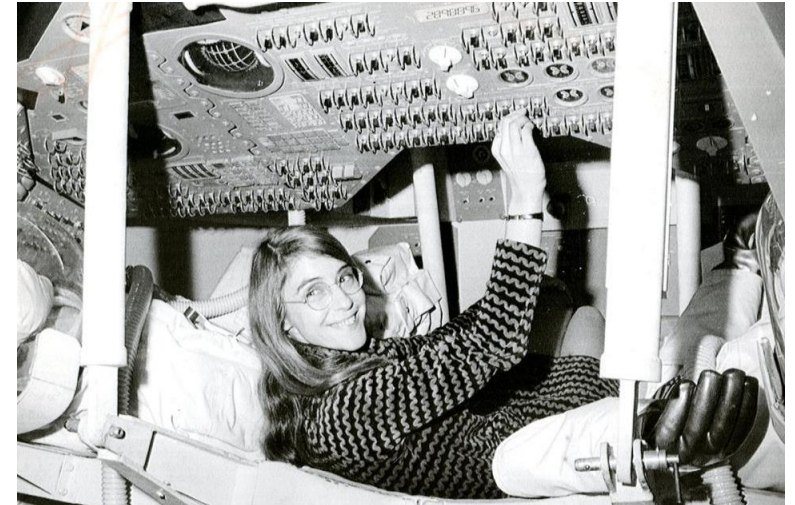
Inspiring Women in Technology



Ada Lovelace, First Programmer



Grace Hopper, Creator of COBOL



Margaret Hamilton, NASA Software Engineer



Marie Curie, Noble Prize Winner



Rosalind Franklin, Discovered density of DNA



Anita Borg, American computer scientist



Sheryl Sandberg, COO of Facebook

➤ Technology in its various forms, including ICTs, continues to redefine and revolutionize the way we all live and work.

➤ Access to technology plays a large part in cementing gender inequality, especially in developing countries.



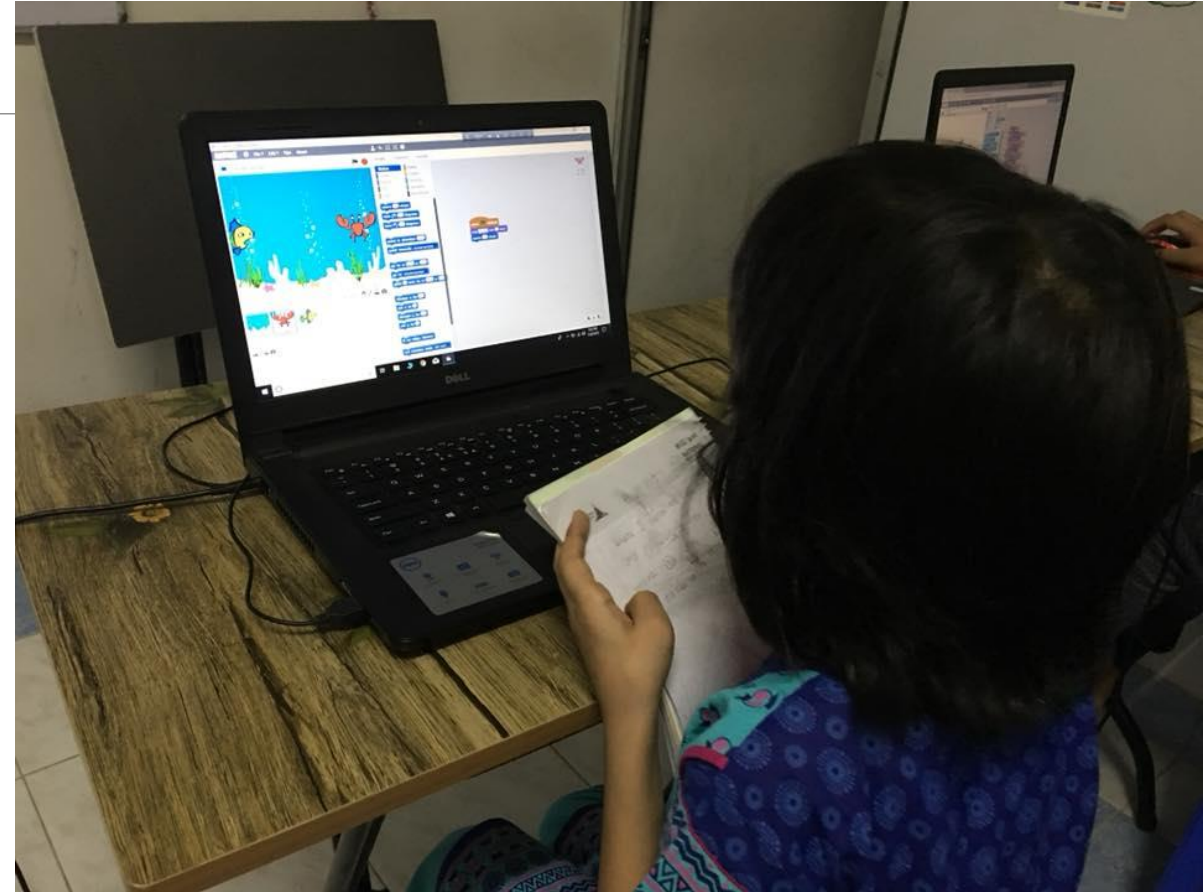
Reasons of Women's Underrepresentation

- Gender bias in selecting undergraduate studies
- Social and structural barriers such as a dominant male culture
- Difficulties in balancing work and family responsibilities
- Discriminatory organizational practices
- Intimidated by technology
- Lack of role models
- Lack of mentoring
- Lack of networking opportunities

Some Recommendations

- Change girls' and young women's self-concept
- Widen girls' and young women's aspirations to consider a career in ICT
- Training for education providers and teachers to change the gender stereotypes
- Connect with female role models
- Connect students and young professionals with mentors
- Organize special seminars for Secondary and Higher Secondary students
- Make the internet safe
- Introduce scholarship for women in STEM
- Ensure safety and security in workplace
- Policy level change in organizations

Our Initiatives to bring more girls in STEM



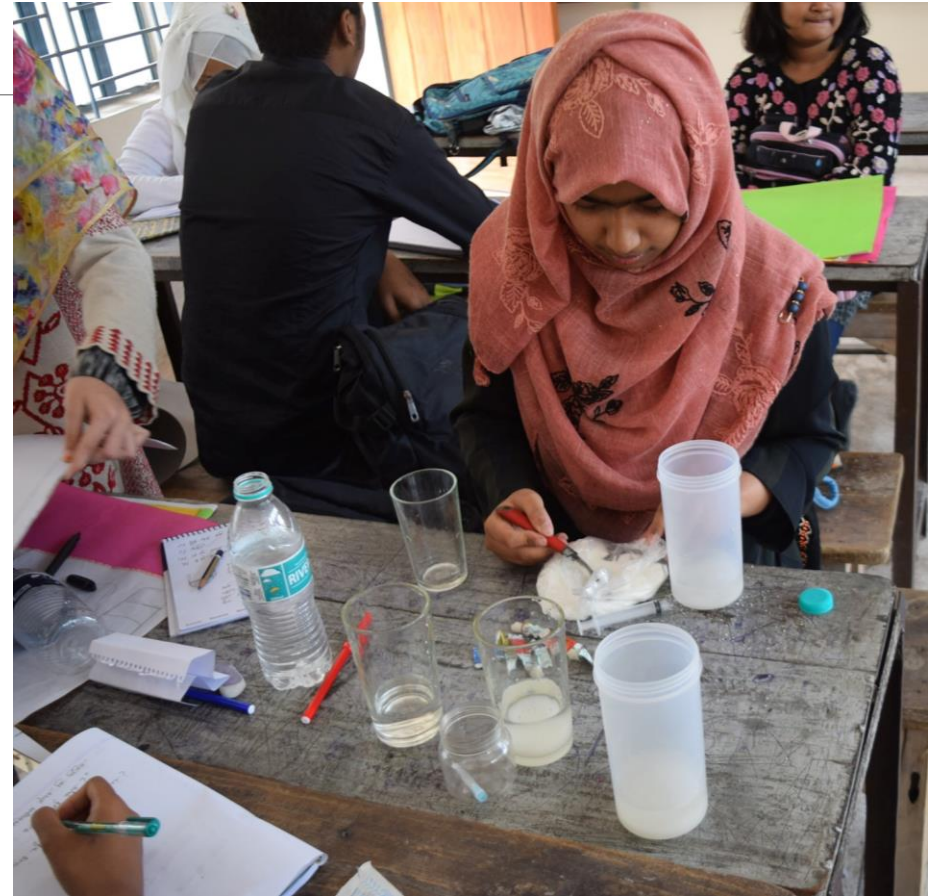
Scratch Programming for Kids

Our Initiatives to bring more girls in STEM



Activity on Robotics

Our Initiatives to bring more girls in STEM



Science Congress

Our Initiatives to bring more girls in STEM



High School Programming Contest

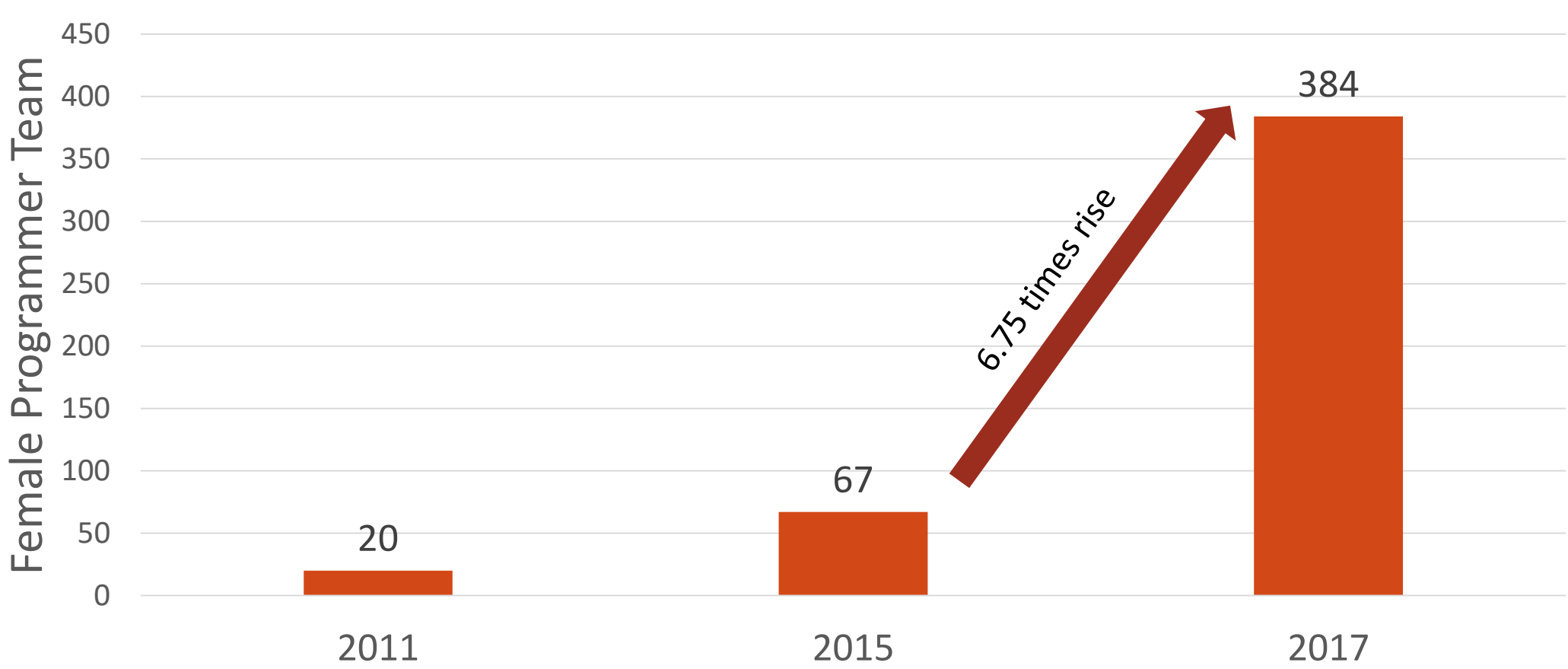
Our Initiatives to bring more girls in STEM



National Girls' Programming Contest

Performance after our #missingdaughter Program

National Girls Programming Contest





Any Question?

THANK YOU

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