

How often do students have a voice...



*...in making STEM
connections in
THEIR communities*

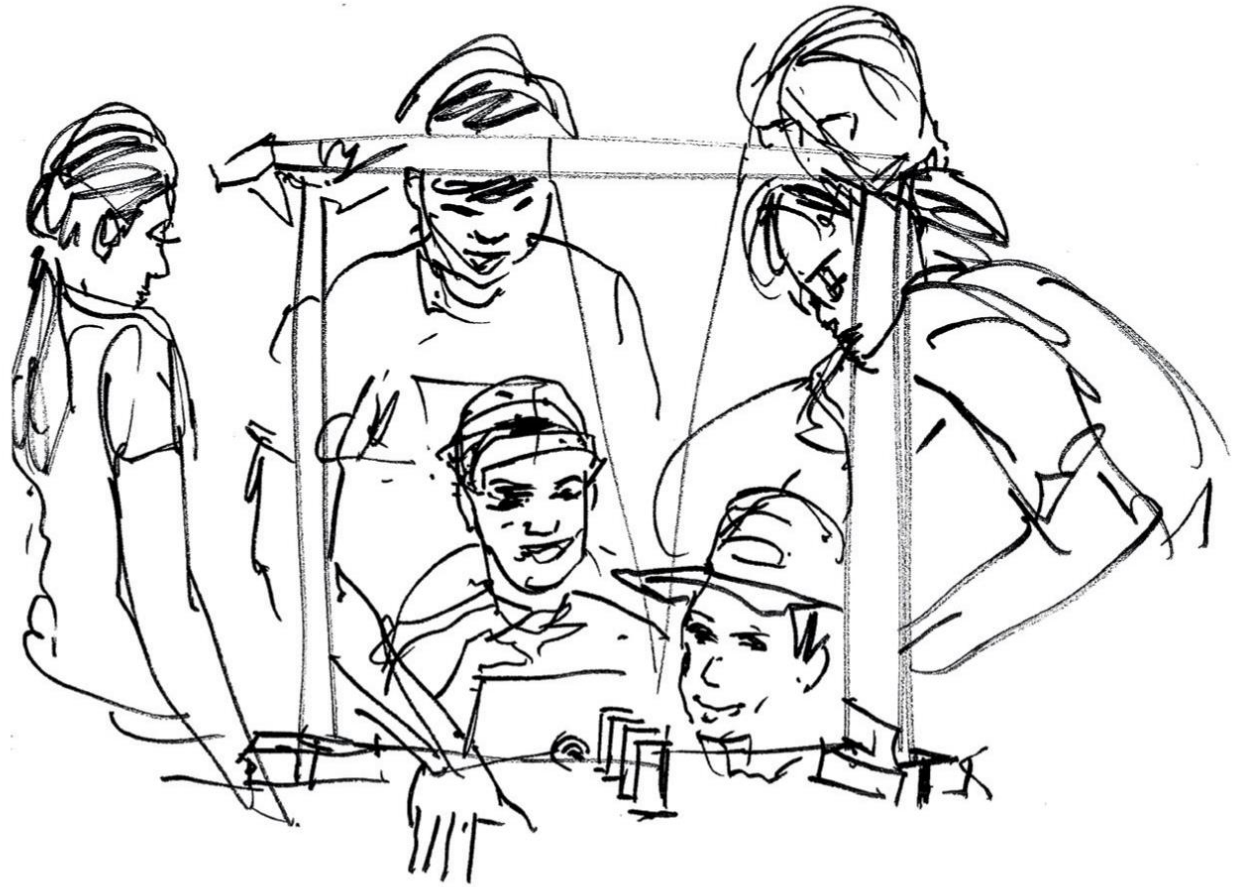
**How often do
students have
a voice...**

*...in advocating
for STEM in
THEIR schools*

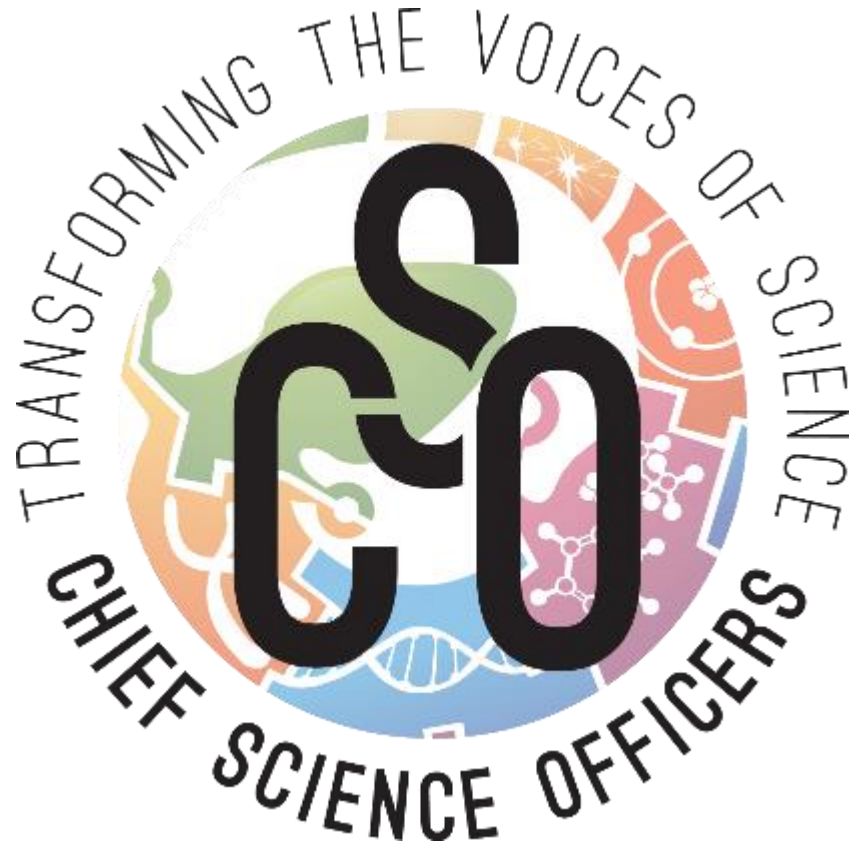


How often do students have a voice...

*...in planning
the jobs of
THEIR future*



Introducing the Nation's First Chief Science Officers!



Chief Science Officers: Who are we?

- 6th to 12th grade student that demonstrates interest in STEM & Innovation
- **Elected** by their peers
- Year 2 - 250 elected from 110 schools



“Inspire Children to take up careers in STEM”

Marie

CSO Michael Anderson School



“ Show everyone that STEM is fun and a promising field of work to pursue”

Jonathan

CSO Metro Tech High School

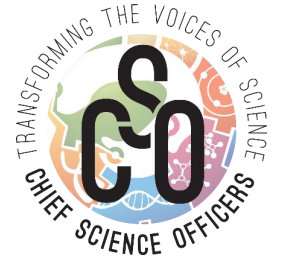


“Science is cool & exciting, & it's certainly proof that magic exists”

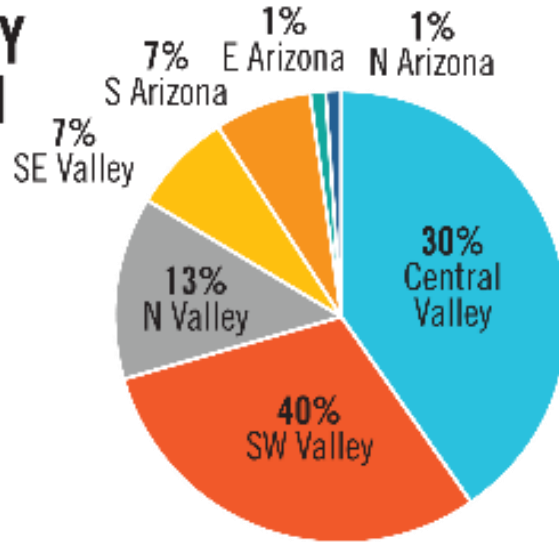
Sierra

CSO Northpoint Expeditionary Learning Academy

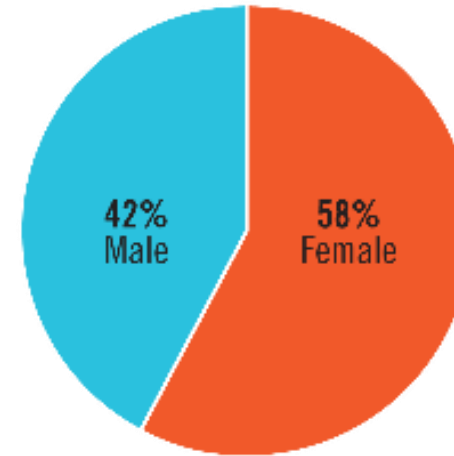
A Diverse Representation Across Arizona



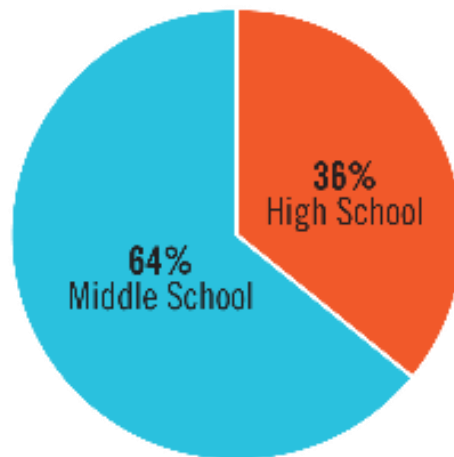
CSOs BY REGION



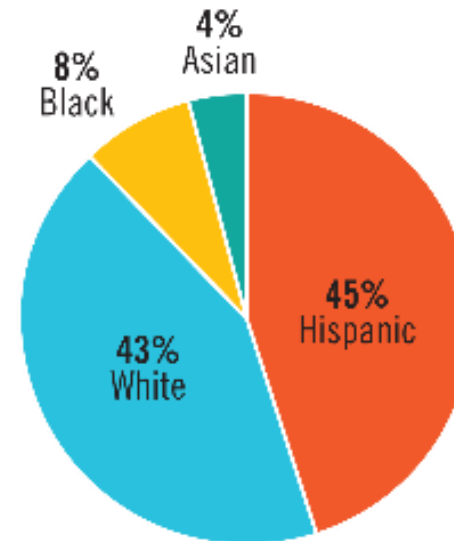
CSOs BY GENDER



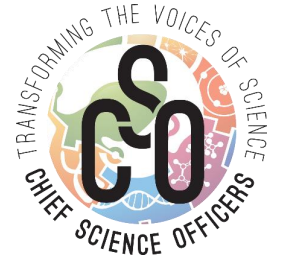
CSOs BY EDUCATION LEVEL



CSOs BY ETHNICITY



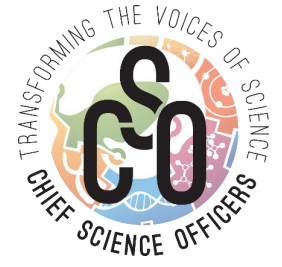
What are our goals?



1. Increase **student**
“voice” in **STEM**
conversations at schools
and in the community



What are our goals?



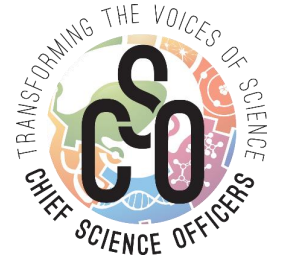
2. Enhance the **workforce and employability skills** of student CSOs

3. Cultivate the pipeline of **diverse STEM leaders**



7/11/15

What are our goals?



4. Enrich middle and high school **STEM** culture and career awareness



What are our goals?



5. Increase the **engagement of STEM professionals** and community partners with STEM education
6. Build a **coalition** of schools across Arizona and the Western USA



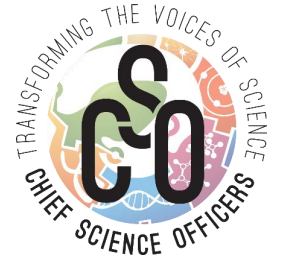
What does a year in the life of a CSO look like?



1. School elections
2. Training institute
3. Year round activities
 - On campus events & activities
 - Community events
 - Cabinet meetings (State Capitol, Honeywell Airplane Hangar)
 - Arizona SciTech Festival
4. End of year debrief and celebration



Why type of training to CSO get in summer?



teamwork



strategic planning

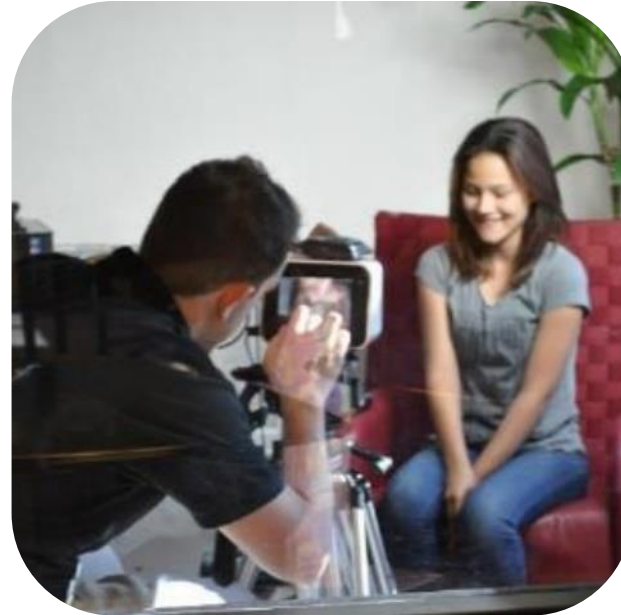


networking

Why type of training to CSO get in summer?



public relations

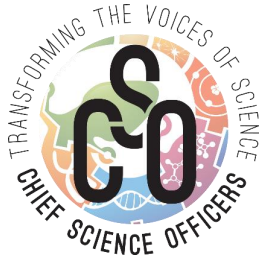


on camera



blog writing

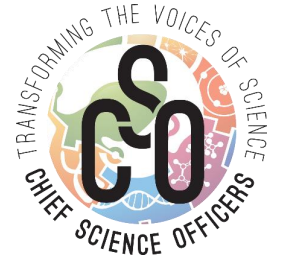
Why type of training to CSO get in summer?



STEM Explorations



What does a CSO do... in the community



- Ensure the student voice is heard

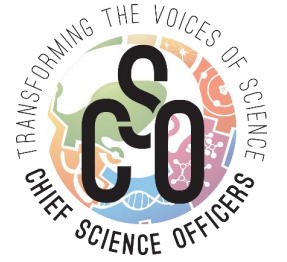


What Science Means to Me session at the Innovation Arizona Summit in Scottsdale



CSO panel at Change the Equation AZ community leader discussion

What does a CSO do... in the community



- Advocate for STEM opportunities for their school and in the community

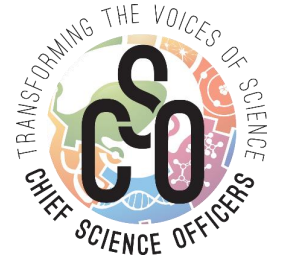


*CSO Panel & site tour at
Orbital ATK*



*ASU day hosted by Teachers
College*

What does a CSO do... at their school



- Serve as the school's student voice for STEM
- Encourage STEM with their peers
- Connect STEM professionals with their school
- Support existing or new STEM opportunities on campus such as science nights, clubs, speakers, STEM dances



CSO Jacob presenting his STEM exploration to classmates at Sonoran Science Academy in Tucson

What does a CSO do... as a cabinet member

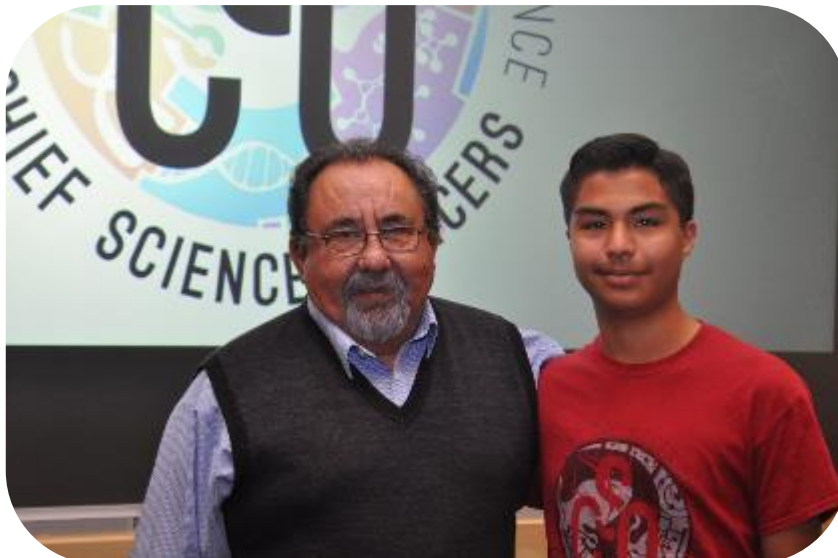
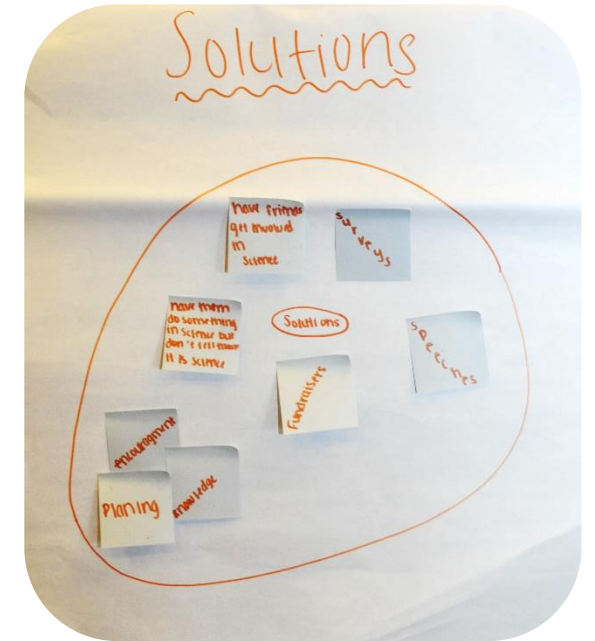
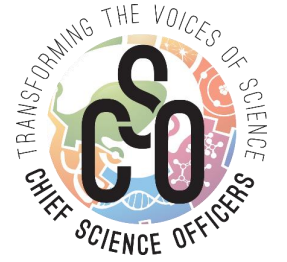


- Team with fellow CSOs on collective action projects
- Form a unified student voice for STEM in Arizona
- Learn, connect & have fun with fellow CSOs



Statewide strategy session at the summer CSO institute at Tonto Creek Camp, Payson

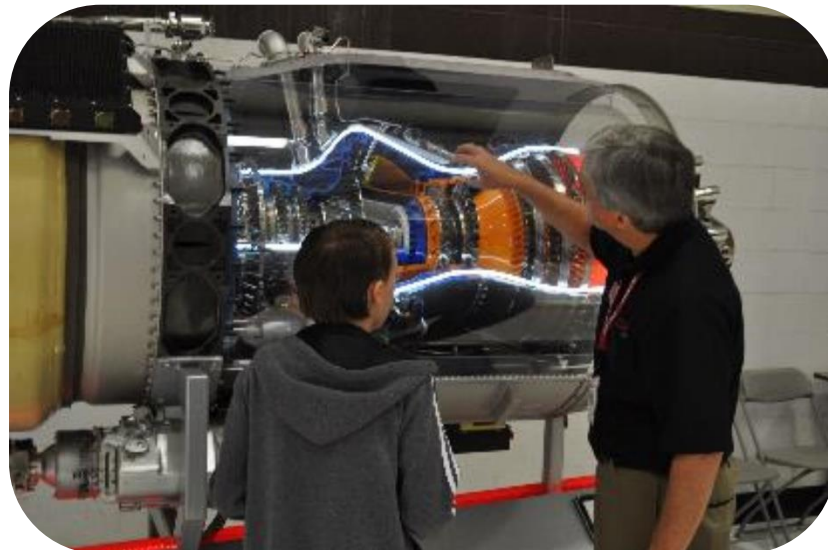
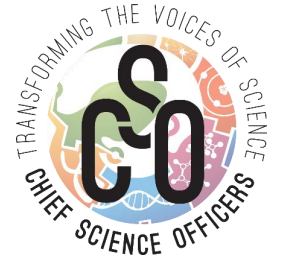
Regional Cabinet with Congressman Grijalva



Students worked in teams to develop a brief of barriers and solutions to engaging in STEM careers

Had the opportunity to work directly with US Congressman Grijalva

State Cabinet at Honeywell Airplane Hangar



Town Hall led by Dawn Wallace, the Governor's Education Policy Advisory

8 interactive Honeywell stations showcasing their innovations

2 Energetic talks from Honeywell Engineers

Where do student engage with “SciTech Jedi”



- Summer institute sessions
- School events and activities
- Cabinet meeting discussions
- Company tours
- Community discussions



Where do the Jedi come from?



- Arizona Central Credit Union
- Arizona State University
- Castelazo Content
- Cox Communications
- Drury Design
- Flying Overtime
- Flinn Foundation
- Freeport McMoRan
- Grand Canyon University
- Honeywell Aerospace
- Intel Corp.
- Local First
- Maricopa Community Colleges
- Orbital ATK
- PADT Inc.
- PerfOpt
- Pinnacle Transplant Technologies
- SRP
- State Farm
- TGen
- University of Advancing Technology

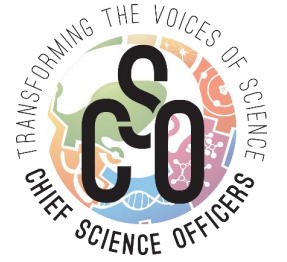
2015/16 numbers



- 138 CSOs, 78 schools, 25+ districts
- 50+ SciTech Jedi Mentors
- 33 community events
- 41 school based events
- 250+ CSO authored blogs
- 15+ News and media stories
- 3,500 students directly impacted by CSOs
- 40,000 students represented by CSOs



Anticipated Growth



- Arizona

- Year2 - 250 from 110 schools
- Year3 - 450
- Year4 - 700
- Year5 - 1000

- Western Regional

- Oregon
- California (Orange County, Bay, San Diego)
- CO / NY / PN / MI

