

UVG's Role in supporting the COVID-19 response in Guatemala

October 2020



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Who are we?

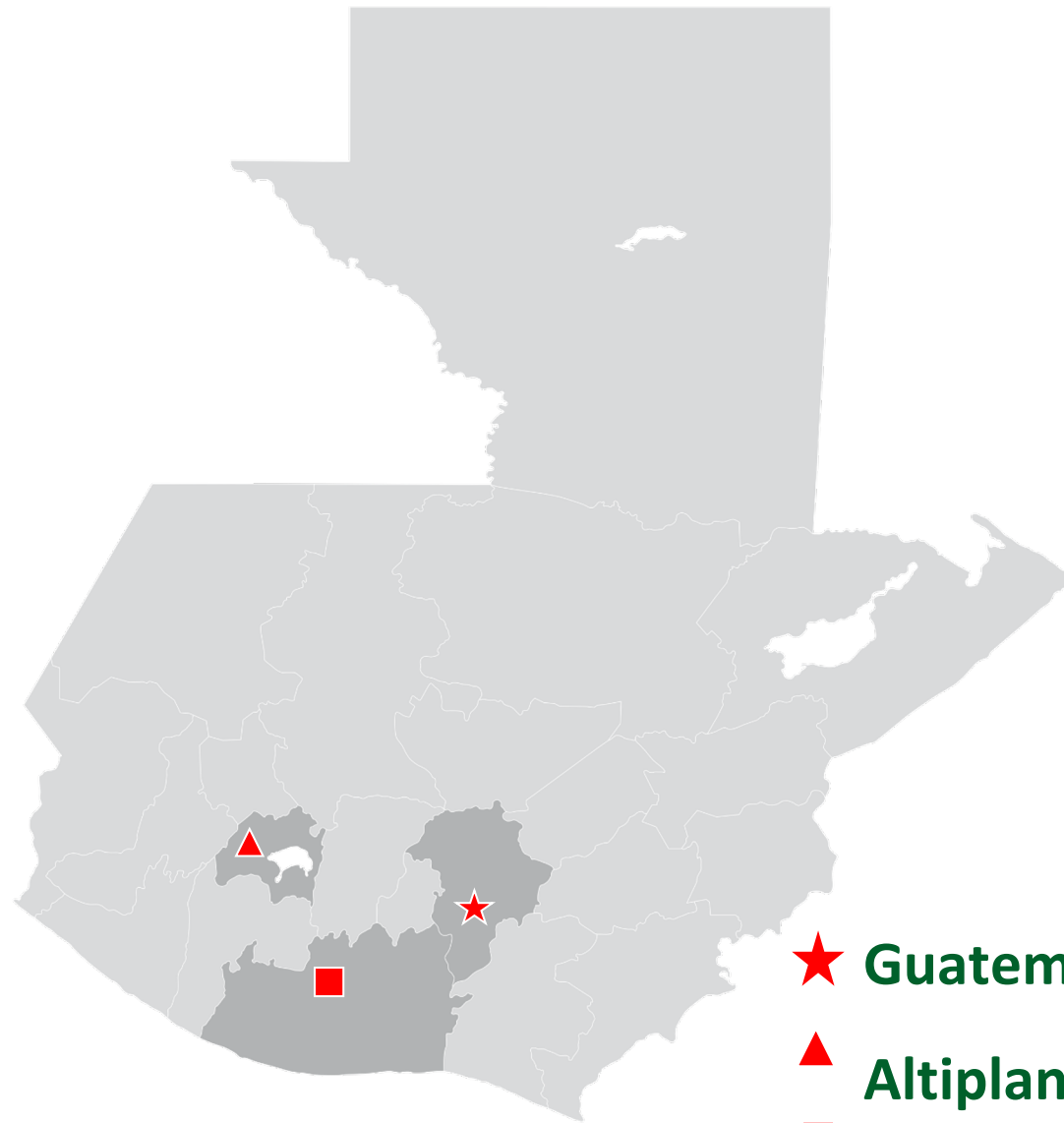


- **Non-profit**, private university
- Mission to **educate, research and transfer** in **service** to Guatemala
- Guatemala's highest **academic standards**
- Partner for **development projects**



Guatemala

- **15** million people
- **50%** under 25
- **24** linguistic groups
- **62%** live in poverty
- **5 years** of schooling (average)
- **50%** of children are malnourished
- **Less than 1%** get a college education



- ★ Guatemala City
- ▲ Altiplano Campus
- South Coast Campus

History

- **Founded in 1966**
 - Sister institution to American School of Guatemala
 - Original focus on Science and Education
 - Social Sciences, Humanities and Engineering added
- **Modeled after U.S. Liberal Arts institutions**
 - Non-discrimination, non-religious, apolitical
 - Need-blind admission
 - Common general requirements
 - Active student government and student life

UVG demonstrates that opportunity can be found at home instead of abroad

- 10% of UVG's budget funds the Research Institute
- 10% funds the financial aid program

Financial aid

- **50%** of students in the Central Campus
- **70%** of Students in the South Coast campus
- **99%** of students in the Highlands Campus



A success story on the Journey to Self-Reliance

- Over 70 academic programs in 3 campuses
- Over 14,000 graduates
- \$1.9 m in financial aid (internal funding) awarded yearly
- 20,000 people trained yearly through continuing education programs
- Model of U.S. best practices in education and technology

A leader in science and technology

- Highest scientific publishing rate in Guatemala
- Institution with the most National Medals in Science and Technology in the country
- Implementer and partner for USG-funded development programs



Supporting the Health System: Epidemiology and Surveillance

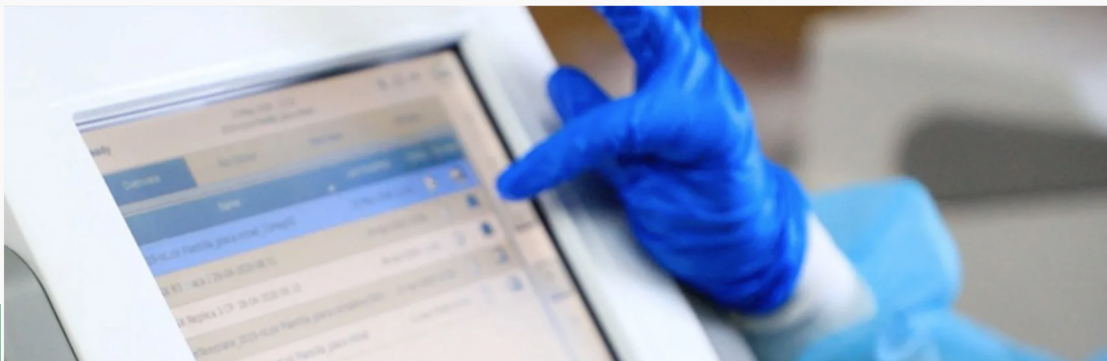
- Scaling up national COVID-19 testing capabilities
- App for self-reporting and monitoring
- Technical advice to government (COPRECOVID), municipality, and private sector (FUNDESA)
- \$1M USD COVID extension from CDC
- \$200K USD COVID redirection from ASHA for biotech-based solutions

Scaling up national COVID-19 testing capabilities

- Loaned 2 real time PCR machines and hired UVG graduates to operate them within the national health system
- UVG-mobilized testing represents 10% of tests in the country
- Now working on managing testing data electronically

UVG COLABORA CON USAC PARA APOYAR LA CAPACIDAD DE DETECCIÓN DE COVID-19

BRENDA SOSA • 19/07/2020 • CENTRAL, IMPACTO, INVESTIGACIÓN, UVG INSTITUCIONAL



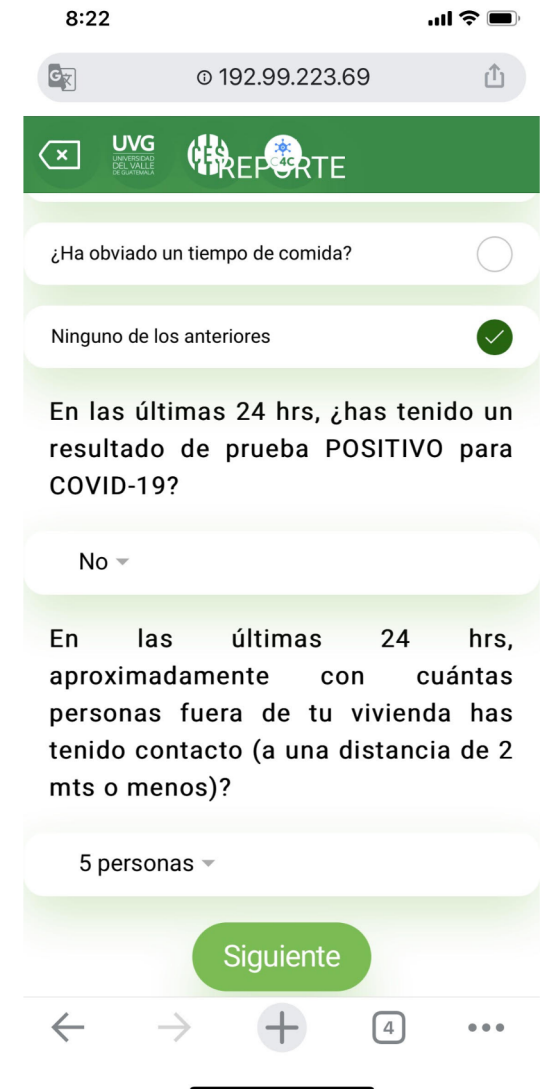
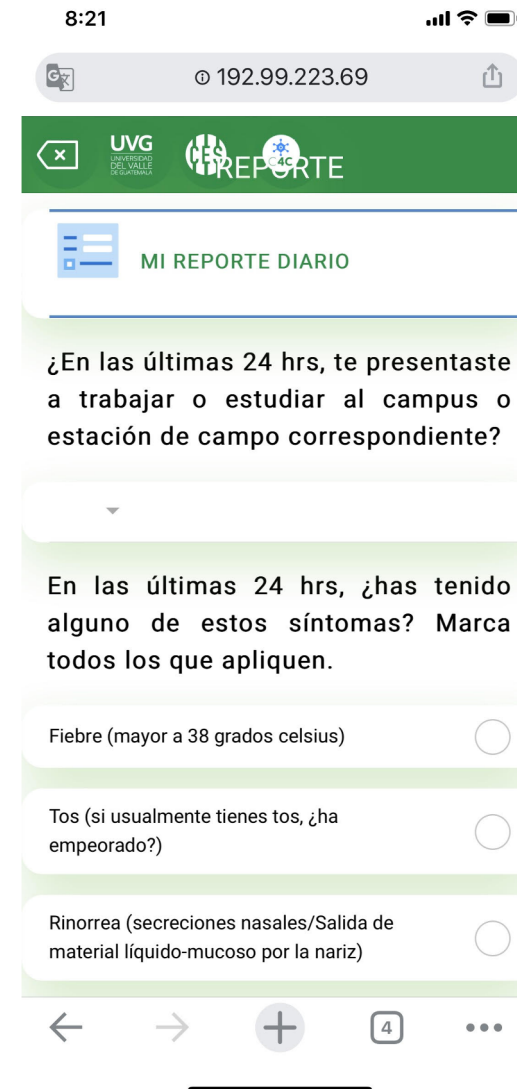
CONTRIBUIMOS PARA FORTALECER EL PROCESAMIENTO DE PRUEBAS EN QUETZALTENANGO

BRENDA SOSA • 21/06/2020 • CENTRAL, IMPACTO, INVESTIGACIÓN



App for self-reporting and monitoring

- Second pilot at central campus
- Now programming dashboards for decision making
- Key tool for a safe return to UVG campuses and schools
- Available to others



Hand sanitizer

- UVG is producing alcohol and hand sanitizer for all three campuses and local stakeholders.
- Weekly deliveries to national hospitals and health authorities near our campuses or projects (over 200 gallons so far)

“Health workers feel supported and taken care of, as several of them don’t have running water in their homes”



Photo: Anaité Diaz, Center for Health Studies

Face Shields

- UVG makerspaces at three campuses produced over 1,100 face shields for local stakeholders
- A collaboration with the local maker network facilitated the production of over 1,000 additional shields



Personal de Salud recibió caretas para reducir al máximo el riesgo de contagio del covid-19. ALFONSO GUÁRQUEZ

Sololá

CUIDAN AL PERSONAL

Alfonso Guárquez
REPORTAJERO

protección, para evitar que se infecten", comentó el director ejecutivo de la UVG-Altiplano, Juan Carlos Villatoro.

Wílder Bautista, director de Salud, manifestó que estas son de gran ayuda para

Face Masks

- **Students** from the product design major proposed a cloth mask design, with a buy one/donate one business model
- **Researchers** have built a UV-based N95 mask disinfection machine in collaboration with an **alumni** business
- Commercialization is underway for 14 units, costing \$800 each
- Costs for N95 masks in rural health clinics will be cut by 75%



Low-cost Ventilator

- **Professors and alumni** have built a low-cost ventilator, based on the Israeli Air Force open-source design
- Improvements to reduce heat generation and addition of control features have now been adopted by the Israeli design team
- Prototype has passed technical tests and is ready for animal testing
- <https://youtu.be/KY11WuucKO4>

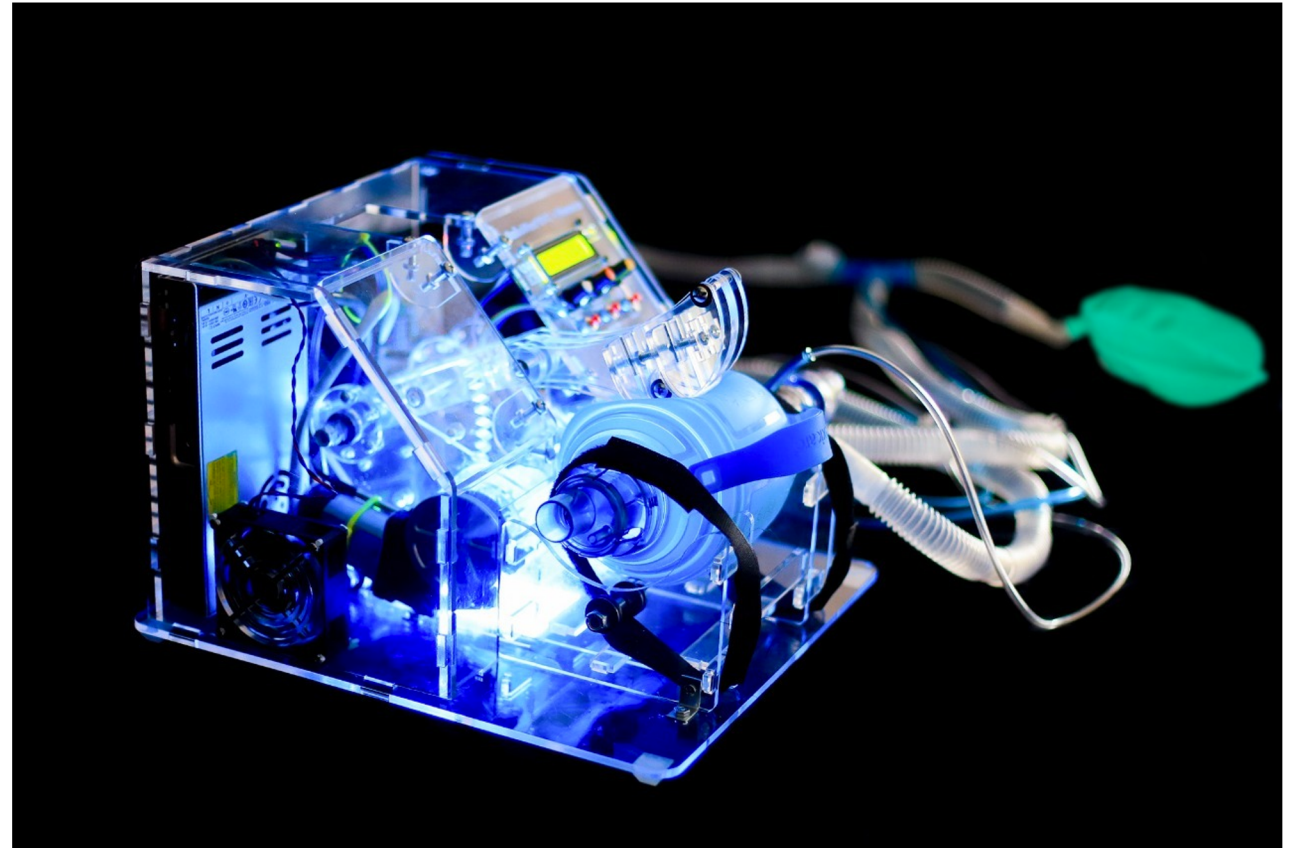


Photo: Andrés Ceballos UVG Media Office

UVG teaching and administrative response

- **Seamless transition to online distance learning and additional technical support via Zoom and Coursera**
- **Free mental health support for students and staff**
- **Campus safety and prevention improvements**
- **University sponsored program for access to computers and internet plans**
- **Increase in need-based financial aid**
- **Enrollment and teacher evaluations increased**

**We are
putting
Science,
Technology,
Innovation
and
Education in
the service of
society**



Photo: Andres Galvez, Center for Education Studies

Without leaving anyone behind

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