



WaSH IMPROVEMENTS

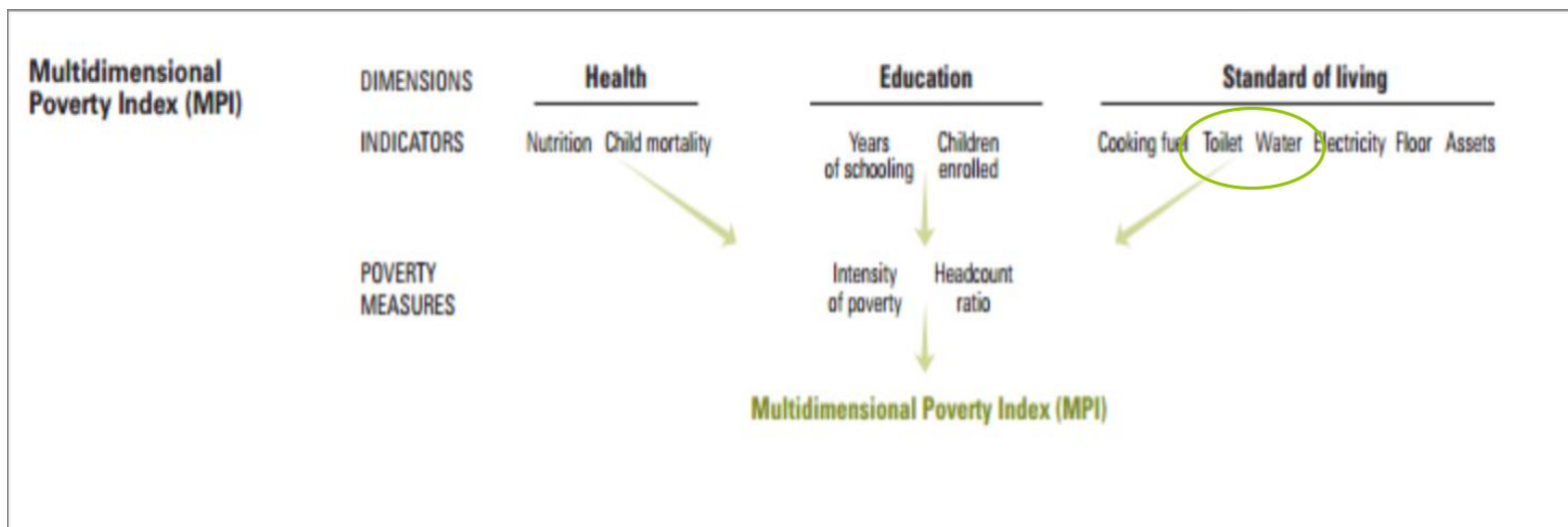
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CESAPU

VILLA LOS ANGELES,
HUANCHACO
PERU

PHILOSOPHY OF CESAPU

- To reduce multidimensional poverty through public health interventions



OUR PARTNERS



HEALTH IMPACT OF WaSH INTERVENTIONS

- One of the biggest preventable health burdens in the world, water-borne diseases, is due to insufficient access of safe-drinking water and inadequate sanitation.
- The lack of safe water, sanitation and hygiene is the cause of 88% of diarrheal disease cases worldwide, resulting in 1.5 million deaths each year

(Chepchirchir et al., 2015).



CLEAN WATER

33 BUCKETS
(Arizona, US)

STUDENTS FOR INTL
DEVELOPMENT
(Canada)

PARTNERSHIP WITH 33 BUCKETS TO BRING CLEAN WATER TO VLA

2017-2018

- Conducted 4 water tests and found unacceptable levels of fecal coliform & E. Coli in drinking water
- Hosted community meetings to inform the residents of VLA of their water status

2018

- Collaborated with Students for International Development (SID) to purchase 110 water filters Sawyer Point 1
- Cost: \$1200 (\$600 by 33 Buckets & \$600 by SID)

CONTINUED....

2018 & 2019

- Community public health intervention – door to door education on handwashing, proper food preparation, distribution of soap, and education of water filter for 90 families in VLA

CONCLUSION:

- Distributed 18 water filters for 25 soles each water filter (accepted money in installments)
- Market value of each water filter is about \$35 soles or 116 soles
- Cost of bucket for bucket filters is 6 soles

BARRIERS!

- The main barrier for non-compliance to the water filter was cost (25 soles)
- In 2020, we conducted follow-up surveys with those who had the filters to improve method of implementation
- In 2020, we altered the payment method and gave 5 sol discount for each nutrition class attended (as a part of our community public health nutrition program “Lady Lunes”)

2020 - IMPLEMENTATION

- In January-February 2020, we implemented 18 more water filters for 36 more families and included the cost of the bucket in our implementation costs
- The goal is to finish distribution of all water filters by June 2020, although efforts were halted by Peruvian quarantine due to COVID-19.

OTHER POINTS OF DISTRIBUTION

- Water filters have been distributed to 10 homes outside of CESAPU, as well as 1 being put to use inside CESAPU for our dental program.

CLEAN WATER FAIR – INTRODUCTION OF SAWYER WATER FILTERS (17 Nov 2018)









HYGIENE

Collaboration with
STUDENTS FOR
INTERNATIONAL
DEVELOPMENT (SID),
Canada

“AGUA SALUD”

- Collaboration with SID to host water, health & hygiene classes in 2017 & 2018 for 15 children



FOOD PREPARTION EDUCATION



HAND SOAP DISTRIBUTION

- We've distributed over 200 bottles of liquid hand soap in 2019 & 2020 to our families for free, and charge 10 cents for a refill.





SANITATION

SOLIDARINSA

France

SANITATION

- In July 2019, HOP established partnership with Solidarinsa – an engineering organization from INSA LYON UNIVERSITY, FRANCE
- We hosted 8 engineering volunteers for 30 days to **build 6 bathrooms, directly impacting 52 people and 8 families.**

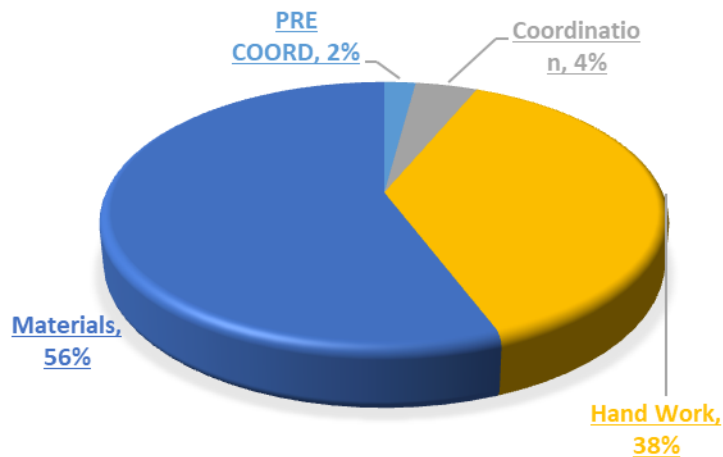


IMPROVED SANITATION BENEFITTING 8 FAMILIES



COST

GLOBAL CHART



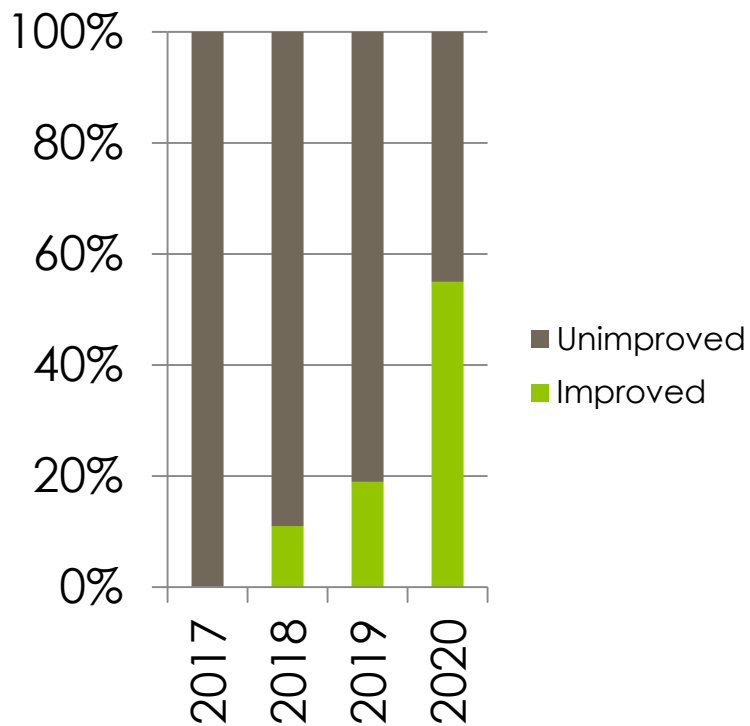
GLOBAL CHART

PRE COORD	\$175.38	2%
COORDINATION & RUNNING PROJECT		
Coordination	\$347.17	4%
Hand Work	\$3,138.46	38%
Materials	\$4,621.70	56%
TOTAL	\$8,282.71	

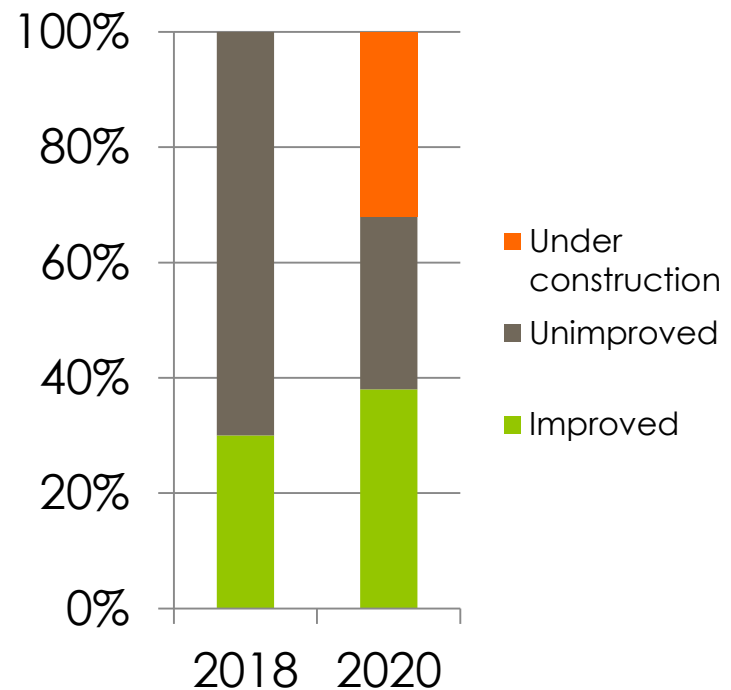


OVERALL HEALTH IMPACT

Population in VLA with improved water

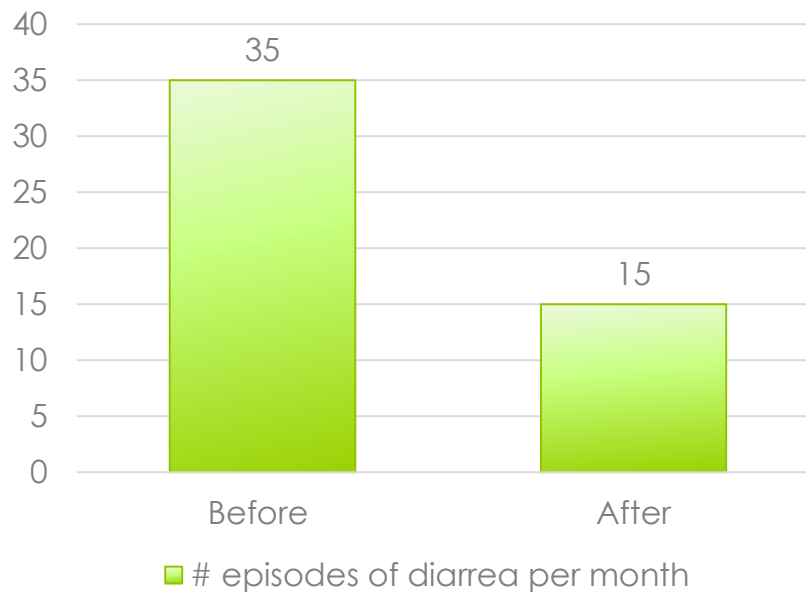


Population in VLA with improved sanitation

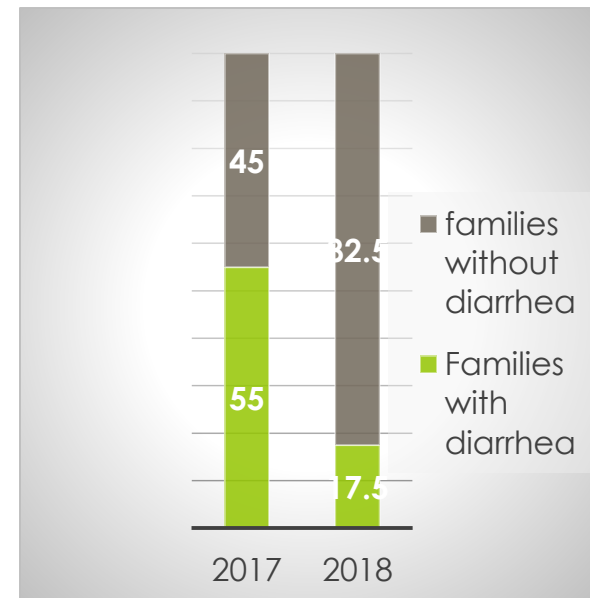


Diarrheal disease

episodes of diarrhea per year (sanitation)



DIARRHEA AND FILTERS





COST- BENEFIT ANALYSIS

For future investment &
collaboration

Cost Analysis

Topic	\$ per family	\$ per person	Health Outcome
Sanitation	\$ 1380	\$ 172	57% decrease in diarrhea
Water	\$ 15	\$ 2	69% decrease in diarrhea
Hygiene – hand soap	\$1.25	\$ 0.15	undetermined
Coordination in prevention & education	\$300 / month	\$ 0.38 / month	Increase in knowledge of healthy behaviors

- Families are based on 8 average members per household.

Our Goals

- 100% improved water & sanitation for VLA
- Conduct investigative research on health impact (diarrheal disease, helminth infections, etc.) which will include hiring a lead investigator (Dr. Cabrejo)
- Implement consistent good hygiene habits in the population



ADDITIONAL RESOURCES

LINKS:

- SANITATION RESEARCH:

https://drive.google.com/open?id=1WsLlc_qhLGWiZJ_VluaQilsKDnkaLHi

- WATER RESEARCH:

<https://drive.google.com/open?id=12GhDwEr6ES0hQd9I2677cKJEB3dMdScq>

- MUNICIPALITY WATER PROYECT:

http://www.proinversion.gob.pe/snip/consulta_snip.asp?codigo=298307