Geospatial Enablement in Addressing Climate Change among the Youth in Kenya











RCMRD













SERVIR Project Goal

Improve capacity of national and regional institutions to apply geospatial technologies, in order to improve **resilience** and **adaptation** to the impacts of climate change and promote *sustainable development*.



Food security & Agriculture; Water & related Disasters, Weather & Climate; Land Use/Land Cover

Applied Science Team















Partnerships



GLOBE - Kenya

esri









Trans-African Hydro-Meteorological Observatory

https://school2school.net/









Esri Eastern Africa











4-H Kenya



RCMRD Space Challenge

Goal: Equip students with skills in environmental degradation, climate change and its drivers. Contribute to STEM - Science, Technology, Engineering and Math, SDG's.

Mode: Obtain reading from automatic weather stations (AWS) installed by TAHMO, GLOBE.

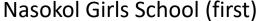
Partners: GLOBE, TAHMO, 4-H Kenya, KMD, KNATCOM, Esri

Video: https://www.youtube.com/watch?v=8v5WTv8J79M&t=1s





Orientation of teachers









SERVIR Fastern & Southern AFRICA

RCMRD Space Challenge

CHALLENGE: 7 schools,10 students each = 70 students - Kenya Nyandarua High school, Homa Bay High School, Thome Boys High School, St. Scholastica Catholic School, Nasokol Girls, Moi Forces Academy Lanet and Moi Forces Academy Nairobi.

4-H Kenya schools: Murema primary school and Mathare Old Primary



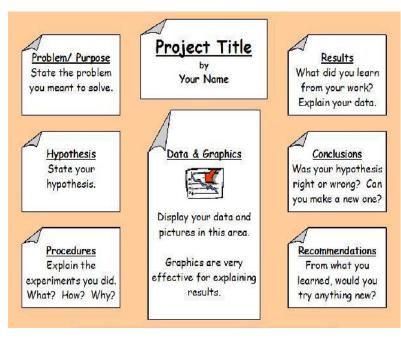


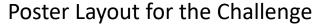




RCMRD Space Challenge - Task

TASK: use TAHMO Automatic Weather Stations (AWS) normalized atmospheric data provided by GLOBE, TAHMO, RCMRD Compute graphs: temperature, precipitation and humidity; relationships, trends





















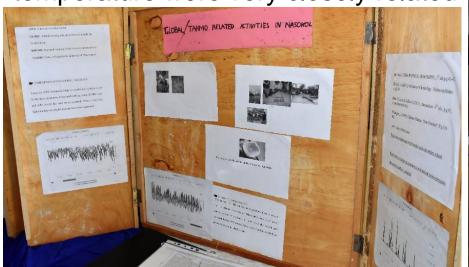


RCMRD Space Challenge



PRESENTATION: The three parameters, humidity, precipitation and

temperature were very closely related.



Nasokol Girls Secondary School



Nyandarua High School



Moi Forces Lanet









RCMRD Space Challenge – Awards





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STEMS

St. Scholastica Primary School (second)

Nasokol Girls School (first)



Moi Forces Nairobi (third position)



Homabay High School (fourth position)

7th July 2017



https://youtu.be/8v5WTv8J79M







RCMRD webinar



GODAN: Sharing open data and capacity development experiences from RCMRD



GODAN Action webinar: Sharing open data and capacity development experiences from RCMRD

Join us for a webinar on Nov 29, 2017 at 4:00 PM CET.

Register now!

Earth observation data plays a critical role in building resilience to climate change as well as reporting on sustainable development goals (SDG's). There are new opportunities to use open data in earth observation such as Landsat and the Sentinel data. Modern day farming relies on weather information in order to plan ahead of extreme weather conditions such as drought and floods. In addition, there is need to invest in hydromet services to build resilience to climate change and help citizens with accurate weather forecasts.

https://attendee.gotowebinar.com/register/826669 2853814829058

7th July 2017



https://youtu.be/8v5WTv8J79M







Way forward



- ☐ RCMRD Space challenge bi-annual/annual, East Africa
- ☐ Public Private Partnerships (PPP)
- ☐ Capacity building: youth & gender in STEM, resilience
- ☐ Link to SDG's: science & policy
- ☐ Innovation workshops e.g. hackathons
- Outreach
- ☐ IMPACT services, sustainability

























