



## Project Proposal to the African Elephant Fund (AEF)

### COVID 19 related evaluation criteria:

1. The project should address priority objectives 1, 2 or 3 as set out in the African Elephant Action Plan (AEAP);
2. The project should start its activities within 3 months of its approval by the steering committee and completed in no more than 12 months from its inception;
3. The project should be subject to at least one or many of the following criteria:
  - a) Secure small / vulnerable populations that are faced with an immediate threat;
  - b) Address prosecution and criminal investigations;
  - c) Prevent immediate human-elephant conflicts;
  - d) Address a site that is experiencing an escalation in poaching;
  - e) Address a site that is experiencing a decline in law enforcement capacity.
4. Funding request should not exceed 50,000 USD.

**1.1: Country: Kenya**

**1.2: Project title: Reducing Human Elephant Conflict in Northern Kenya**

**1.3: Project location: Laikipia County, Kenya**

**1.4: Overall project cost (USD): 83,732.50**

Amount Requested from African Elephant Fund (USD): 49,062.50

Co-funding source and amount (if applicable) in USD: 34,670.00

**1.5: Project duration: 6 months**

**1.6: Project proponent: Space for Giants**

**Other project partners (if any)** (please submit or attach an endorsement letter from national government entity responsible for wildlife):

**1.7: Name and institution of project supervisor:** Maurice Schutgens, Space for Giants

**1.8: Address of project supervisor:** Cape Chestnut, Nanyuki, Laikipia County, Kenya

**1.9: Telephone number:** +254 712 722 509

**1.10: Email:** maurice@spaceforgiants.org

**1.11: Date of submission:** 06/07/2020

**2.0: Project summary** (overall rationale, objectives of the project, expected outputs and expected results maximum 1 page) (How is this project addressing COVID 19 related challenges that are hampering elephant conservation?)



### Overall Rationale

Human-elephant conflict (HEC) is an enormous challenge in rural Africa wherever people and elephants share space, resulting in huge social and economic costs in the form of crop destruction, property damage and killing of humans by elephants. Laikipia County supports approximately 42% of Kenya's second largest African elephant (*Loxodonta africana*) population (2017 census estimated 3,407 in Laikipia). HEC in Laikipia County, especially West Laikipia, has historically been amongst the worst in East Africa.

Since 2018 Space for Giants has been working with the Laikipia County Government and the United States Fish and Wildlife Service (USFWS) to deliver a county-wide electric fencing strategy to combat escalating levels of HEC. In this partnership, the Laikipia County Government is responsible for the purchase of all electric fencing equipment while Space for Giants has been responsible for securing funding and delivering all construction work. The ongoing maintenance of fences has been the responsibility of the respective large-scale landowners on whose property the fences have been constructed but with oversight from Space for Giants.

As of June 2020, there is one remaining gap in the county-wide alignment that urgently needs to be completed. Elephants are exploiting this gap on a daily basis to crop raid. In April 2020 SFG approached the USFWS for additional funding to urgently complete this work, in light of the Covid-19 pandemic. Unfortunately this request was declined due to administrative changes within USFWS. SFG is urgently looking for funds to complete this work at a time when smallholder farmers are most at risk due to the Covid-19 pandemic.

### Goal & Objectives

The overarching goal of the project is to reduce HEC in West Laikipia by 90%, thereby directly improving food security for smallholder farmers during the Covid-19 pandemic.

The strategic Objectives are:

1. Conduct Electric Fence Construction;
2. Move elephants "behind" the fence;
3. Implement a monitoring framework;
4. Engage community members living alongside the fence;

### Expected Outputs

1. Construction of 6.2km of short electric fence;
2. 1 x Comprehensive Elephant Drive (using helicopter);
3. Deployment of 3 elephant collars on known crop-raiding elephants;
4. Deployment of critical monitoring kit and equipment;
5. Real-time fence monitoring system through SMARTConnect;
6. Conduct 3 elephant drama performances;

### Expected Results

1. 90% reduction in crop-raiding incidents in West-Laikipia;
2. 50% improvement in food security for smallholder farmers;
3. 10-20 (estimated) elephants driven to the correct side of the fence;
4. Collar data (based on hourly fixes) of collared elephants;
5. Improved understanding of elephant behaviour in relation to fences.

**3.0:** Which **priority objectives, strategies and activities of the project** (there may be more than one) are related to the African Elephant Action Plan (AEAP)?



### Overall Goal

The overall project predominantly addresses **Objective 3** of the AEAP by reducing conflict between elephants and people. In doing so, as well as engaging proactively with farmers, more positive attitudes will be fostered amongst neighbouring communities which will contribute to the wider goals of **Objective 7**. Furthermore by conducting the electric fence construction the project will also contribute a degree to **Objective 2** by ensuring that elephant habitat is not encroached upon further. Finally, by reducing conflict, improving livelihoods and improving attitudes to elephants, the project will contribute to **Objective 1** - through a reduction in retaliatory killing of elephants in the landscape.

### Priority Objectives

1. Conduct Electric Fence Construction; - **Objective 3, 2, 1 and 7**;
2. Move elephants "behind" the fence; - **Objective 3**;
3. Improve monitoring and maintenance of fences; - **Objective 3**
4. Engage community members living alongside the fence; - **Objective 7**

AEAP objectives: (For reference)

*Objective 1: Reduce illegal killing of elephants and illegal trade in elephant products;*

*Objective 2: Maintain elephant habitats and restore connectivity;*

*Objective 3: Reduce Human Elephant Conflict (HEC)*

*Objective 4: Increase awareness on elephant conservation and management of key stakeholders that include policy makers and local communities among other interest groups;*

*Objective 5: Strengthen range States knowledge on African elephant management;*

*Objective 6: Strengthen cooperation and understanding among range states;*

*Objective 7: Improve local communities' cooperation and collaboration on African elephant conservation;*

*Objective 8: African Elephant Action Plan is effectively implemented.*

**4.0: Project Rationale** – why is this project necessary? What threats face this elephant population (for example, what information you have regarding population details, trends in population (downward or upward), ivory seizure information, details about levels of poaching, human/elephant conflict, habitat loss etc.) (2 pages maximum)

#### Why is the project necessary?

Laikipia County, located in north central Kenya, covers a 10,000km<sup>2</sup> landscape and contains higher populations of large mammals than any protected or unprotected landscape in Kenya, outside of the Maasai Mara National Reserve. The Laikipia landscape supports approximately 42% of Kenya's second largest African elephant (*Loxodonta africana*) population (2017 census estimated 3,407 in Laikipia).

Historically HEC in Laikipia County has been amongst the most severe in East Africa with several thousands of incidents being recorded annually. Data collected by Space for Giants has shown that between 2006 and 2007 there were 6,770 crop-raiding incidents recorded in West Laikipia, resulting in 2,105,581m<sup>2</sup> of maize destroyed, valued at KES 86,328,821 or US\$ 1,079,785. Between 2008 – 2014 an average of 1,462 crop raids took place annually. On average Laikipia experiences 5-10 human deaths per annum as a result of conflict with elephants.



Led by Space for Giants, in support of the Laikipia County Government and Kenya Wildlife Service, extensive work has been performed to resolve this situation. Space for Giants with support from USFWS and other funders have helped construct over 100km of electric fencing, collared elephants to understand movement patterns and helped support monitoring of fence performance.

As illustrated in Fig. 1 this project is critical to “plug” the hole in the current countywide fencing strategy and push elephants to the correct side of the fence. Failure to do so would lead to the following consequences that we have seen in the past:

1. Undermine food security and community livelihoods for smallholder farmers in West Laikipia (not only Mathira Community because elephants stray further into community territory when crop-raiding);
2. Undermine the goodwill of local communities, living alongside elephants, towards the Kenya Wildlife Service, Non-Governmental bodies and the Laikipia County Government. In turn this will lead to increased resentment towards elephants and lead to increasing levels of retaliatory killings;
3. Build resentment towards large-scale wildlife compatible properties that “host” elephants and support the USD 20m wildlife tourism industry in Laikipia. In the past resentment has led to political demands for the subdivision of these properties as well as extensive property damage;

The greatest concern at present would be the impact on food security of smallholder farmers in West Laikipia during this Covid-19 pandemic. Nationally, smallholder farmers make up 80% of the agricultural sector and contribute 26 percent to the country GDP. The emergence of Covid-19 has impacted smallholder farmers in a number of ways:

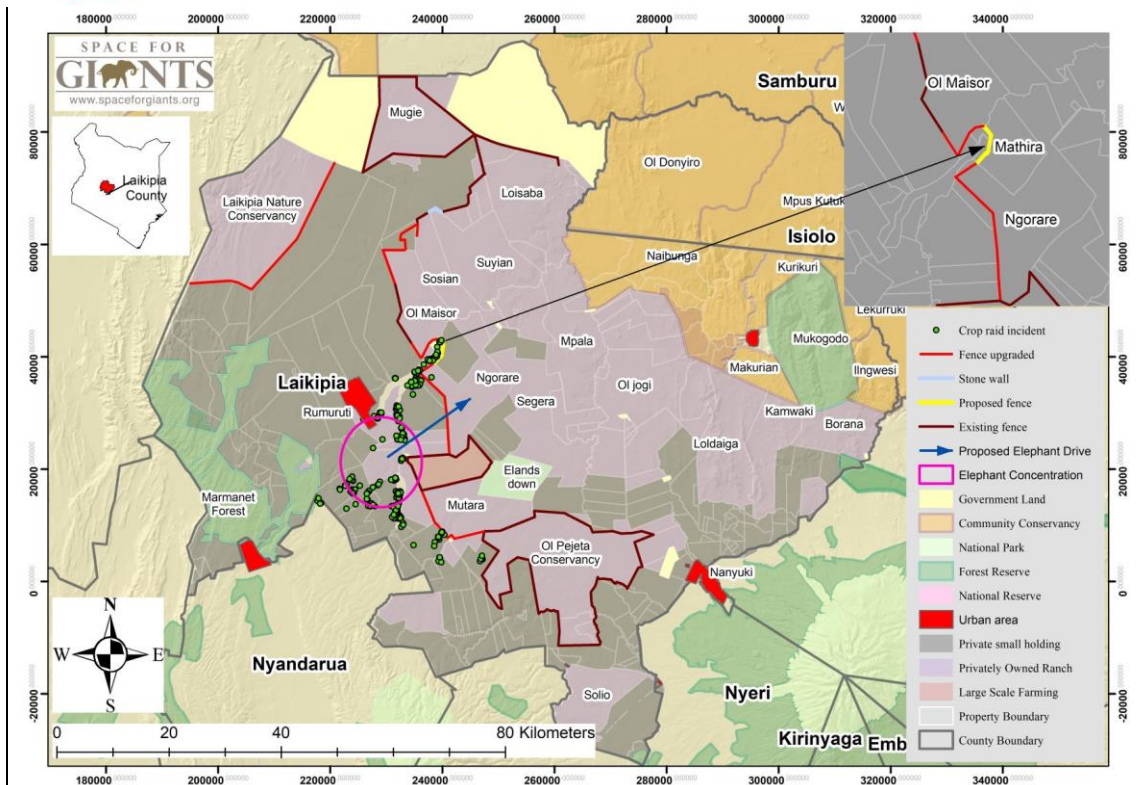
1. Disruption of supply chains meaning produce cannot reach markets;
2. Inability to purchase/receive fertilisers and other agricultural products;
3. Lack of available labour and capital;

All of these are exacerbated by the daily challenge of crop-raiding elephants that are capable of destroying entire seasonal harvests in a single night.

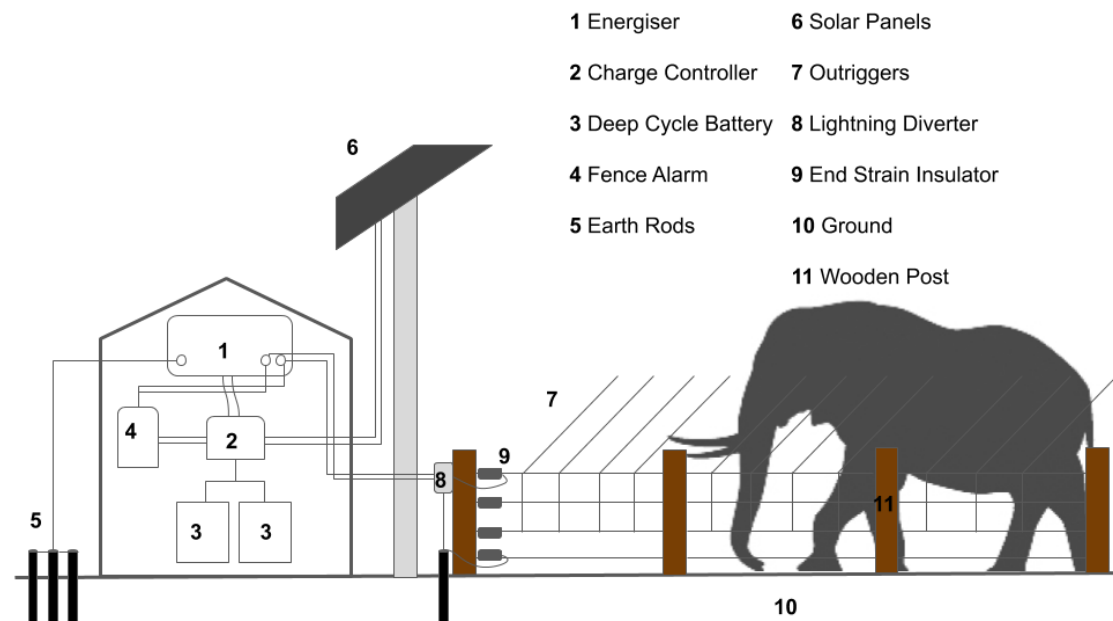


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**Figure 1:** Current state of electric fence construction, distribution of current crop-raiding incidents and location of elephants on the “wrong” side of the fence.



**Figure 2:** Schematic of electric fence design being constructed





### What are the threats facing this population?

In the past, poaching for ivory was the leading cause of elephant mortality in Laikipia County, especially during the poaching crisis of 2011 - 2012. In more recent times Space for Giants has seen a steady increase in elephant mortality as a result of HEC. As of 2019, HEC is six times more common than poaching in Laikipia County. It is likely that this trend will continue unless some of the above mentioned interventions are put in place.

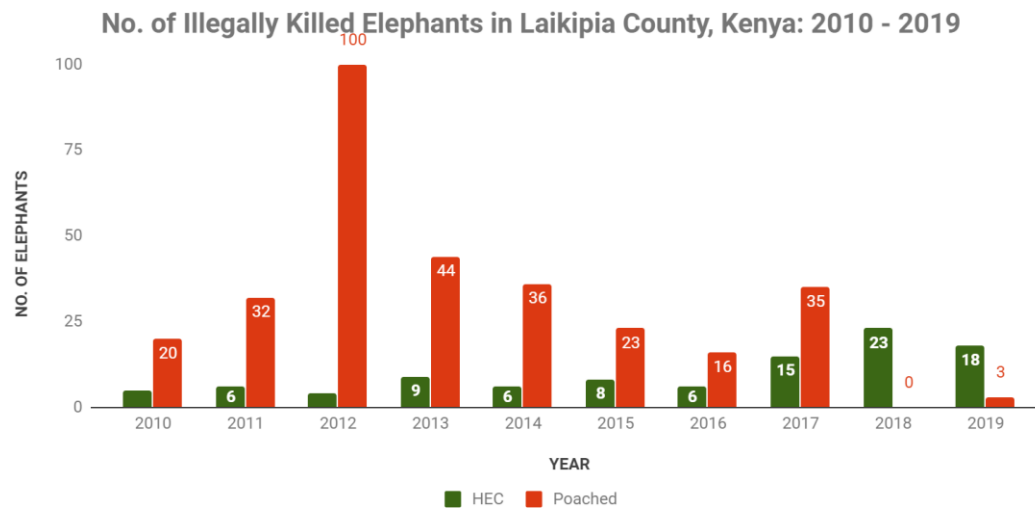


Figure 3: Number of illegally killed elephants in Laikipia County, 2010 - 2019

**5.0: Detailed Proposal** – including activities to be carried out, anticipated milestones), timelines, reporting channels and procedures, etc. (3 pages maximum).

*In responding to this section, it would be helpful if you could divide it into five phases (see below tables):*

#### Planning

Space for Giants has had extensive discussions with the Laikipia County Government and Kenya Wildlife Service on the delivery of this project and is ready to deliver this project the moment funding is secured.

#### Procurement

Space for Giants has regular suppliers for all the items requested, some of which will need to be imported e.g. camera traps. While the Laikipia County Government has supplied all the necessary fencing materials there are a few additional items that are required for optimal performance of the fence.

#### Implementation, Activity Plan, Timeline

1. Conduct Electric Fence Construction;
  - Recruit fence contractor;
  - Conduct construction;
  - Handover fence to the county government;
2. Move elephants “behind” the fence;
  - Conduct a recce to locate elephants by plane;
  - Host inter-stakeholder meeting to discuss delivery of drive;



- Carry out sensitization process to inform people of upcoming elephant drive;
- Conduct elephant drive;

**3. Implement a monitoring framework;**

- Purchase monitoring equipment (smartphones, GPS collars, camera traps);
- Train fencers and supervisors on data collection;
- Deploy camera traps and elephant collars;
- Conduct monthly reports & review meetings

**4. Engage community members living alongside the fence;**

- Conduct drama performances

**Monitoring and evaluation measures of the project**

Space for Giants has a number of measures in place that will help to accurately monitor impact of this intervention. Please see the detailed section below.

**Technical and financial reporting**

Space for Giants has sufficient capacity in place to report on this grant.

**5.1.1: Planning**

Statement of the objectives	Activities	Timeframe  *Assuming Project Start 01/08/20	Anticipate d milestones	Indicators	Channels or process Consultation with stakeholders/ partners
1. Fence Construction	1.1 Recruit fence contractor	Week 1	Contract signing	Contract with contractor	<i>Independent</i>
	1.2 Conduct construction	Week 2	Completion of the fence	Monthly fence construction reports	<i>Independent but shared with stakeholders</i>
	1.3 Handover fence	Week 12	Handover meeting	Community meeting	<i>In collaboration with LCG &amp; KWS</i>
2. Move elephants "behind" the fence	2.1 Conduct a recce to locate elephants by plane	Week 13	Recce flight	Invoice	<i>Independent</i>
	2.2 Host inter-stakeholder meeting to discuss delivery of drive	Week 13	Stakeholder meeting	Meeting Minutes	<i>KWS primarily</i>
	2.3 Carry out sensitization process to inform people of upcoming elephant drive	Week 13	Stakeholder meeting	Meeting Minutes	<i>Local area chiefs</i>
	2.4 Conduct elephant drive	Week 13	Elephant Drive	Report	<i>KWS involvement in operation</i>
3. Implement monitoring framework	3.1 Purchase monitoring equipment	Week 4	Equipment purchase	Invoices	<i>Independent</i>
	3.2 Train fencers and supervisors on data collection	Week 12	Training of fencers	Training Report	<i>Independent</i>
	3.3 Deploy camera traps and elephant collars	Week 12	Deployments of cameras & collars	Deployment report	<i>Independent (camera traps) KWS heavily involved in collaring</i>



	3.4 Conduct monthly reports & review meetings	Week 16	Month Reports	Reports & meeting minutes	<i>Independent but inclusion of local chiefs and LCG as necessary</i>
4. Engage community members	4.1 Conduct drama performances	Week 8, 12, 16	Delivery	Report/images	<i>Independent but inclusion of local chiefs and LCG as necessary</i>

**5.1.2: Procurement** (goods, services, equipment, travel, workshop, accommodation etc)

*(Please explain what goods and services you will be procuring and for what purpose)*

1 x Sum Additional Fencing Equipment (e.g. gates, solar panel stand, JVZM1 monitor)

1 x Contractor Costs: To construct 6.2km of electric fence;

3 x Smartphone & phone credit: To allow digital fence data collection by fence attendants and supervisors via SMARTConnect;

10 x Camera Traps & batteries: To monitor elephant interactions with fences and identify, where possible, problem elephants that challenge the fences;

1 x Motorbike & running costs: To allow a fence supervisor to monitor the fence line on a daily basis;

3 x Elephant Collars (+ data costs): To allow us to monitor crop-raiding elephants;

5 x Plane Hours: To scope out location of elephants on day prior to elephant drive (to save cost on helicopter hours);

15 x Helicopter Hours: To conduct a large scale elephant drive (10 hours) to move elephants to the “correct” side of the fence and to deploy 3 elephant collars (5 hours);

1 x Veterinary Officer + assistant (+ 3 x Immobilization Drugs): To conduct an elephant collaring exercise to deploy 3 elephant collars on known crop-raiding individuals;

3 x Drama Performances: To hire a local team of Kenyan actors to conduct “elephant drama” performances to educate and engage local community members;

**5.1.3: Implementation: activity plan, timeline**

Activities	Outputs	Delivery Date
1.1 Recruit fence contractor	1 x signed Contract	Week 1
1.2 Conduct construction	6.2km constructed	Week 2
1.3 Handover fence	1 x meeting held	Week 12
2.1 Conduct a recce to locate elephants by plane	1 x recce	Week 13
2.2 Host inter-stakeholder meeting to discuss delivery of drive	1 x meeting	Week 13
2.3 Carry out sensitization process to inform people of upcoming elephant drive	1 x sensitization exercise	Week 13
2.4 Conduct elephant drive	1 x elephant drive	Week 13
3.1 Purchase monitoring equipment	3 x phones, 1 x motorbike	Week 4
3.2 Train fencers and supervisors on data collection	2 x fencers & 1 x supervisor trained	Week 12
3.3 Deploy camera traps and elephant collars	10 camera traps deployed & 3 collars deployed	Week 12
3.4 Conduct monthly reports & review meetings	6 x monthly reports	Week 16
4.1 Conduct drama performances	3 x drama performances conducted	Week 8, 12, 16





#### 5.1.4: Monitoring and evaluation measures of the project

*(Please explain how the monitoring and evaluation of the project will be conducted)*

Monitoring and Evaluation will be conducted as follows:

1. Daily Fence Data: This data includes information on fence voltage (a minimum of 7,000 volts is usually required to repel elephants) & fence breakages (i.e. this will help inform the location and frequency of elephants breaking the fence).
2. Camera Traps: Footage (both still images and videos) placed at strategic locations (i.e. likely fence breaking locations) will help to monitor elephant/fence interactions (e.g. how elephants try to overcome fences, individuals involved, etc.) similar to work conducted in the past (<https://www.youtube.com/watch?v=C9gzAcekEdA>);
3. Elephant Collar Data: Hourly GPS fixes from known collared individuals will help us understand the efficacy of this fence section (and other fence sections). Experience has shown that crop raiding individuals/problem elephants tend to patrol fence lines looking for areas of weakness (e.g. access gates, rivers, road crossings etc.). The data will help confirm a) whether the fence manages to keep elephants at bay, b) where the weak areas are within the fence alignment. Collaring will be carried out as per the following video: <https://www.youtube.com/watch?v=a6iFA5tz2RU>
4. Space for Giants employs two existing Mobile Elephant Scouts (on motorbikes) to monitor the landscape (outside the fence) and to record all crop-raiding incidents (or other HEC incidents) to understand the severity of HEC. This data will help to determine the reduction in HEC as a result of this fence and associated elephant drive.
5. Space for Giants has implemented a system of monthly reporting for all fence sections in Laikipia that we monitor. Data on fence performance and other notable activities are duly recorded and shared with a forum of stakeholders. This will be implemented for this project as well.
6. Space for Giants will conduct a baseline HEC survey to understand the severity of HEC in the Mathira community before and after fence completion in order to measure impact.

#### 5.1.5: Technical and financial reporting

*(You will be expected to submit interim and final reports for this project in the UN standard template: Please provide details of the responsible officer/entity who will be responsible for preparing these reports and please confirm your capacity to comply with these requirements)*

##### Technical Lead

Maurice Schutgens  
[maurice@spaceforgiants.org](mailto:maurice@spaceforgiants.org) / +254 712 722 509  
Conservation programme Manager  
Space for Giants



Extensive experience reporting to a number of major institutional funders including USFWS, INL, USAID, DEFRA, European Commission.

**Financial Lead**

Marc Collins

[marc.collins@spaceforgiants.org](mailto:marc.collins@spaceforgiants.org) / +254 729 314 795

Grants Manager

Space for Giants

Experience accounting for grants from USAID, European Commission, Defra ranging from USD 250,000 to 1.75m.

**6.0: Please explain long term measures to ensure sustainability of the project.**

Space for Giants' has over 15 years of experience in HEC mitigation in the north Kenya landscape and has invested over USD 1m in the landscape. Space for Giants has demonstrated repeatedly its ability to fundraise for this project (both through institutional funding and private donors) and we are confident we will continue to do so in future. Furthermore Space for Giants has worked on a model of handing over completed fences to the respective landowners on whose boundary the fences have been constructed. With respect to this particular fence section Space for Giants is working on an agreement which will see the Laikipia County Government take on the long term maintenance of this fence.

**7.0: Will this project receive any other funding other than AEF? Give all relevant details (for example, amount in USD, source of funds, any restrictions? Please specify.**

**United States Fish and Wildlife Service**

The USFWS, who has supported Space for Giants since 2018 on HEC mitigation work in Laikipia, will provide restricted funds to a value of USD 15,000.00 that will cover 50% of the core costs as well as a dedicated vehicle for this project.

**Private Donors**

Since 2014 Space for Giants has worked with a single major support of our HEC mitigation work in Kenya. This funder will provide matching funds to cover 50% of the core costs of the organisation in relation to this project (i.e. salaries of key management & field staff) to a value of USD 19,670.

**Laikipia County Government (LCG)**

While the LCG will not provide direct monetary assistance to this project the LCG have already delivered the materials for this project in line with our existing relationship since 2014 to combat escalating levels of HEC in Laikipia. The value of these materials is estimated at USD 25,000.

**7.1: Please provide a detailed proposed activity-based budget for this project (in USD) as per table below:**



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(N/B: Expenses that fall under incidental procurement\* which amounts to 20,000\$ or above, or 15% of the total budget (whichever is lower), will require that the implementing partner be subject to the UN procurement assessment.)

\*Incidental procurement: equipment, vehicles, travel, furniture, supplies, commodities and materials.

Budget						
Activity	Quantity	Unit	Unit Cost (USD)	Total Cost (USD)	AEF budget	Co-funding (Non-AEF Budget)
<b>Activity 1: Conduct Electric Fence Construction</b>						
Contractor Fees	6.2	km	1,500.00	9,300.00	9,300.00	0.00
Fence Equipment	1	Sum	1,500.00	1,500.00	1,500.00	0.00
Transport Costs	2,250	km	1.00	2,250.00	0.00	2,250.00
SFG Core Staff	6	month	5,000.00	30,000.00	0.00	30,000.00
<b>Sub-total</b>				<b>43,050.00</b>	<b>10,800.00</b>	<b>32,250.00</b>
<b>Activity 2: Move elephants "behind" the fence</b>						
Plane Hours	5	Hours	375.00	1,875.00	1,875.00	0.00
Helicopter Hours	10	Hours	900.00	9,000.00	9,000.00	0.00
Meeting with stakeholders	1	Meeting	150.00	150.00	150.00	0.00
Support Vehicles	2	Vehicle	150.00	300.00	300.00	0.00
KWS Per Diems	10	Pax	20.00	200.00	200.00	0.00
<b>Sub-total</b>				<b>11,525.00</b>	<b>11,525.00</b>	<b>0.00</b>
<b>Activity 3: Implement a monitoring framework</b>						
Smartphones	3	Pcs	200.00	600.00	600.00	0.00
Data Bundles	3	Months	50.00	150.00	150.00	0.00
Motorbike	1	Pcs	2,750.00	2,750.00	2,750.00	0.00
Motorbike Running Costs	1,350	Km	0.25	337.50	337.50	0.00
Elephant Collar	3	Pcs	3,500.00	10,500.00	10,500.00	0.00
Collar Data	3	Collars	650.00	1,950.00	1,950.00	0.00
Camera Trap	10	Pcs	350.00	3,500.00	3,500.00	0.00
Batteries	40	Pairs	15.00	600.00	600.00	0.00
Helicopter Hours	5	Hours	900.00	4,500.00	4,500.00	0.00
KWS Vets	2	Pax	100.00	200.00	200.00	0.00
Immobilisation Drugs	3	Sum	250.00	750.00	750.00	0.00
Support Vehicles	2	Vehicle	150.00	300.00	300.00	0.00
Mobile Scouts	2	Pax	1,210.00	2,420.00	0.00	2,420.00
<b>Sub-total</b>				<b>28,557.50</b>	<b>26,137.50</b>	<b>2,420.00</b>
<b>Activity 4: Engage community members living alongside the fence</b>						
Drama Team	3	Performances	200.00	600.00	600.00	0.00
<b>Sub-total</b>				<b>600.00</b>	<b>600.00</b>	<b>0.00</b>
<b>Total Cost</b>				<b>83,732.50</b>	<b>49,062.50</b>	<b>34,670.00</b>

The following budget items are not funded by the AEF, as agreed by the rules of procedures of the AEF Steering Committee:



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1. Salaries, excluding experts/consultants hired for specific activities related to project implementation;
2. Daily subsistence allowances and accommodation, unless it is part of training or activities in remote/rural areas;
3. Flights, purchase of vehicles, excluding bicycles and motorbikes;
4. Educational programmes including bursaries & interns.

Please submit the completed project proposal to: [mamadou.kane@un.org](mailto:mamadou.kane@un.org) and [dorris.chepkoech@un.org](mailto:dorris.chepkoech@un.org); with a copy to: [unep-africanelephantfund@un.org](mailto:unep-africanelephantfund@un.org)

You should receive acknowledgement of receipt of your proposal within 14 days. If you do not receive such an acknowledgement, please call: +254 719744186 / +254 710602646.

Additional information on the project proposal may be requested by the Steering Committee of the African Elephant Fund.

N/B: The full project proposal should be translated into a two-page executive summary in the other working languages of the AEFSC (English/French and vice-versa).  
For more information, please visit our website: [www.africanelephantfund.org](http://www.africanelephantfund.org)