

Nexus Environmental Assessment Tool

**Food Security Focus** 

# The Nexus Environmental Assessment Tool (NEAT+)

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<u>neatplus.org</u> <u>eecentre.org/resources/neat/</u>



Humanitarian crises are increasingly driven by environmental emergencies.

# **UNEP/OCHA Joint Environment Unit (JEU)**

**Environmental Dimensions of Emergencies** 



### **Environmental Emergencies**

- Coordination
- Mobilisation
- Training
- Over 200 missions
- Over 100 countries



### Sustainability of Humanitarian Action

- Policy review and coordination
- Guided learning
- Humanitarian tools
- <u>www.eecentre.org</u>
- <u>www.ehaconnect.org</u>

# The Nexus Environmental Assessment Tool (NEAT+)

#### UN Secretary-General's Award finalist, 2019 Winner of IAIA Institutional Award 2020

#### N N K

#### What

A simple environmental project-level screening tool for humanitarian contexts.



#### How

Combines environmental data with sitespecific activity-based questions.

|  | _ |  |
|--|---|--|
|  | E |  |

#### Result

Automatically analyzes and flags priority environmental risks which are standardized and comparable.



#### When

After life-saving needs have been met. Before project implementation or expansion.

# **NEAT+ Purposes**

### Programmatic

 Project screening, design & proposal

 $\Theta$ 

- Project monitoring and evaluation
- Base for subsequent EIAs

### Organizational 🏼 🖈

- Baseline for broader mitigation plans
- Audit purposes
- Fundraising
- Baseline for global operations comparison

### Advocacy

## **₽**€

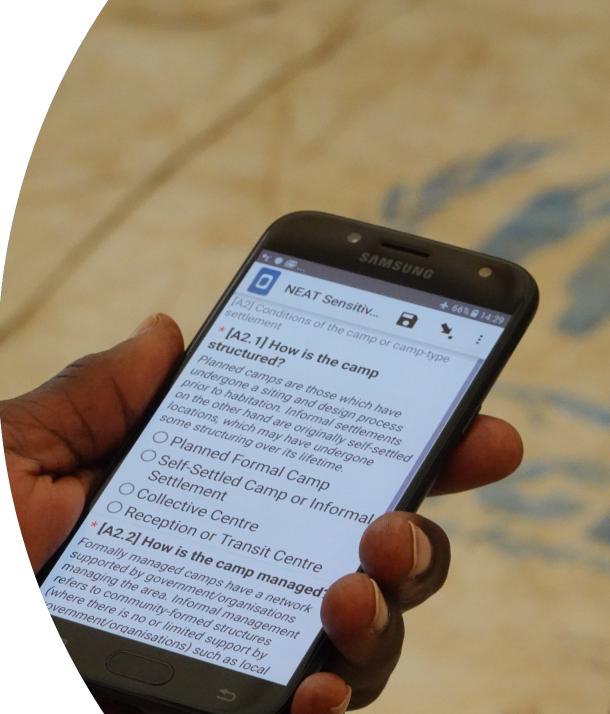
- Awareness
- Communication
- Advocacy

# **NEAT+ Applications**

- NRC: Field pilots in Uganda and Myanmar
- **UNHCR:** piloted in numerous locations, used as baseline for operations. Urban NEAT+ pilot carried out in Brazil and Colombia in November 2020
- IFRC & ICRC: piloted in several locations, Arabic tool under development.
- IOM: tested in Nigeria
- Solidarites: tested in Myanmar
- ACF: tested in Middle East and Africa
- **ACTED:** piloted in several locations

#### 2021 Update

- ICRC Iraq: piloting in Economic Security and WatHab project locations
- **ACF**: Continuing to test in Yemen, Chad, Bangladesh
- **DRC**: Tested in Ethiopia and Kenya
- Handicap International: Included in projects in Central & Latin America
- Alima: testing in CAR
- Solidarités: Lebanon & Burkina Faso



# **Rural and Urban NEAT+**



## **R-NEAT+**

Build in 2018 for camp and rural settings. Built upon Excel and Kobo Toolbox



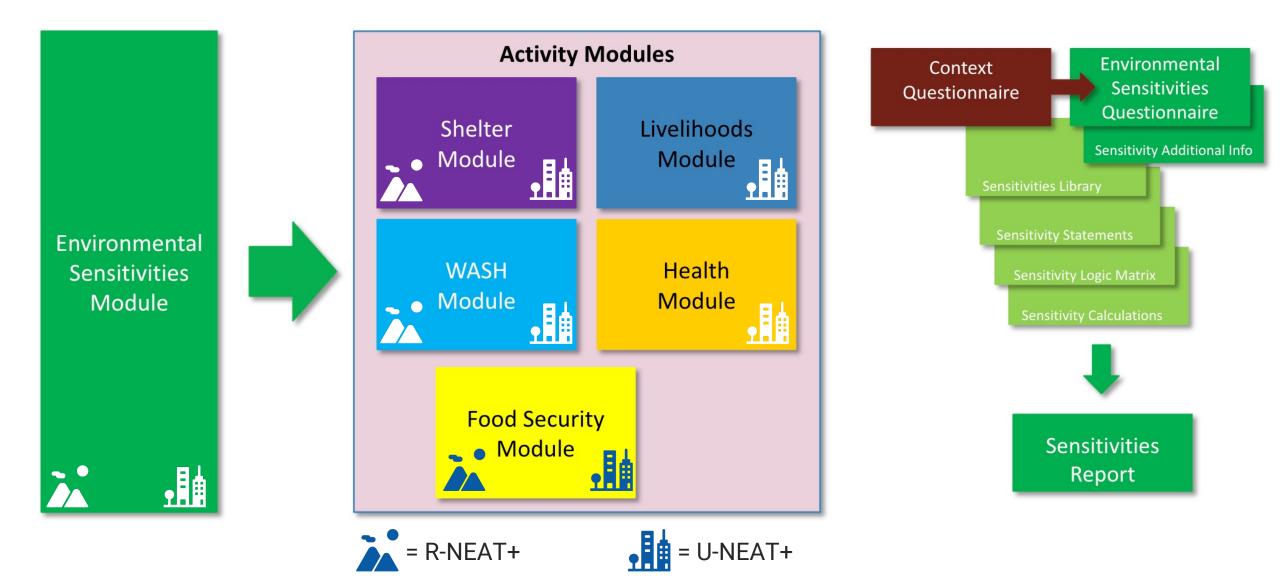


## **U-NEAT+**

Built in 2021 for humanitarian operations in urban areas. Built upon a custom cloud platform.



# **NEAT+ Technical Structure**



# **Checklist**





Activity specialists (WASH, Shelter, etc.) if completing activity modules who will be in c

Decide who will be in charge of Kobo deployment and downloads (only a few per team)

## Results R-NEAT+

12

#### Environmental Sensitivity Analysis

NEAT +

Nexus Environmental

Assessment Tool Assessment of: Test project Date of Assessment: 21-Dec-20 Assessment completed by: Vathanya Location: Kabul Organisation completing assessment: OCHA Country: Afghanistan **Issues of High Concern Issues of Medium Concern** Issues of Lower Concern There is a high concentration and/or number of There may be a weakened or poor governance The community may have low self-sufficiency. people. The potential environmental impact is system. There may be low capacity for There may be a greater demand (and impact) greater. environmental management. on the local environment. The environment has fragile ecosystems. The community may not be socially cohesive. This area may be at risk of soil erosion from This can prevent collective action and lead to Further assessment is required to determine if water. social conflict. loss of biodiversity is accelerating. The environment has high biodiversity value. Indoor air pollution, caused by poor ventilation Vulnerable and/or rare flora and fauna may be This area may be at risk of flooding. and cooking/heating, may be an issue. at risk. The community may be close to a The area may be affected by (previous) conflict The area may have poor slope stability. protected/conservation area. There may be related hazards or pollution. Landslides or mudslides may be a risk. legal/social implications. There may be high and/or unsustainable rates There are areas of high cultural significance. This area may be at risk of soil erosion from of extraction of resources from the local This can threaten social cohesion. wind. environment. The community is close to an international Natural resource availability/accessibility may border. Transboundary resource management be affected by changing climatic conditions. and/or pollution may be a concern. KoBo Responses (Shelter) Sensitivity Summary Sensitivity Statements Sensitivity Calculation

n 🔒 Sensitivity

**Mitigation Statements** 

#### **Affected Community**

Communities interact with the environment on multiple levels, with these interactions having environmental, as well as social and economic implications. Environmental impacts therefore also have socio-economic consequences. Vulnerable segments of society and the community are often disproportionately dependent and affected by the environment, and have unequal capacity for adaptation.

The following has been identified as a potential concern:

| Large concentration an   | d/or number of people.   |  |
|--|--|--|
| Additional Information   | Migitation Tips  |  |
| A large and/or concentrated population can exceed the capacity of the local environment to absorb<br>mpact coming from the populations. This can lead to unsustainable pressure and potential permanent<br>or long-term degradation of the surrounding environment and overconsumption of natural resources.<br>Social issues are also created when there are high populations competing over limited resources.   | <ul> <li>Explore alternative settlements and/or consider relocation of part of the camp/settlement occupants to another location</li> <li>Plan for sustainable use of resources before setting up any temporary settlement, especially regarding shelter construction materials, water management and waste disposal</li> <li>Plan for introduction and dissemination of fuel-efficient stoves</li> <li>As soon as practical, establish resource user groups to promote sustainable and fair use of availab natural resources</li> <li>Plan for community green spaces such as tree covered areas or gardens that provide shade and a sense of community</li> <li>Plan land use to reduce exposure to wild animals (e.g designate buffer zones or protected areas)</li> <li>If possible, keep camp populations below 20,000 and locate sites at least 15km from ecologically sensitive areas and neighboring camps</li> <li>Consult https://www.eecentre.org/covid-19/ for more information about COVID-19 and zoonotic</li> </ul> |  |
| Social conflict and ur   | acooperative behavior  |  |
| Additional Information   | Migitation Tips  |  |
| An absence of a sense of community can encourage people to act in their self interest, at the detriment<br>of the wider population and contrary to the common good. The shock of a crisis often disintegrates<br>social structures and established trust relationships that formally or informally govern environmental<br>behavior. Addressing those issues and resolving them would help foster better cooperation and<br>eventually lead to more effective projects (where participants become owners), increasing trust and<br>credibility. High social cohesion will bring more volunteers and wider technical competence, improving<br>cost effectiveness. | <ul> <li>Create mixed community level structures that are involved in decision making</li> <li>Promote "integrated" livelihood activities (persons of concern + host communities) to encourage social cohesion</li> <li>Discuss issues of concern with community leaders</li> <li>Set up social projects and consider involving host communities as volunteers</li> </ul>  |  |

# **NEAT+ Technical Structure**

**Food Security Sub-Modules** 

### **R-NEAT+**

Food Security & Livelihoods

75 questions:

- 14 Direct Food Assistance
- 21 Livestock
- 21 Agriculture
- 19 Irrigation

## U-NEAT+

Food Security

93 questions:

- 09 General, Barriers and Enablers
- 10 Food Markets
- 27 Food and Nutritional Assistance
- 10 Institutional Feeding Programmes
- 19 Urban Livestock and Agriculture
- 18 Food Systems

## **NEAT+ Food Security Module Questions** R-NEAT+

**R-NEAT+** Food Security & Livelihoods

#### 75 questions:

- 14 Direct Food Assistance
- 21 Livestock
- 21 Agriculture
- 19 Irrigation

#### » Direct food assistance sub-module

| [F.D.1] Is this a one-off or ongoing activity?  | * |
|---|---|
| ◯ One-off   |   |
| <ul> <li>Multiple and/or ongoing distributions</li> </ul>   |   |
| [F.D.2] Do provisions minimize cooking time and energy and water consumption?                       | * |
| ○ No  |   |
| <ul> <li>Yes, and contents reduce cooking time, energy<br/>requirements and water</li> </ul>        |   |
| <ul> <li>Yes, but contents do not reduce cooking time,<br/>energy requirements and water</li> </ul> |   |
| <ul> <li>Not applicable: no foods require cooking</li> </ul>  |   |
| [F.D.3] Do provisions satisfy minimum household food needs?   | * |
| ○ No  |   |
| ⊖ Yes   |   |
| ◯ Unsure  |   |

## **NEAT+ Food Security Module Questions** R-NEAT+

### **R-NEAT+** Food Security & Livelihoods

#### 75 questions:

- 14 Direct Food Assistance
- 21 Livestock
- 21 Agriculture
- 19 Irrigation

#### » Livestock sub-module

| [F.L.1] What is the scale of planned livestock activities?   | * |
|--|---|
| O Household sedentary  |   |
| <ul> <li>Grazing and pastoralism</li> </ul>  |   |
| <ul> <li>Mixed farming</li> </ul>  |   |
| <ul> <li>Industrial production</li> </ul>  |   |
| [F.L.2] Have local communities been consulted?   | * |
| ○ No   |   |
| <ul> <li>Yes, consulted about needs and targeting</li> </ul>   |   |
| <ul> <li>Yes, consulted about needs with project designed<br/>in a participatory manner considering local<br/>knowledge</li> </ul> |   |
| [F.L.3] Would this project mainly start, renew or expand livestock activities in the area?   | * |
| O New livestock activity   |   |
| <ul> <li>Renewal of previous livestock activities</li> </ul>   |   |
| <ul> <li>Expansion of existing livestock activities</li> </ul>   |   |

**Sector Summary** 

#### Food Security Module Summary Report

Organisation completing assessment: Test



Nexus Environmental Assessment Tool

Assessment of: Test Assessment completed by: Test

#### Baseline Warnings for Activity Modules

• Shelter

- WASH
- Food Security & Livelihoods

|  | •                                   |                        |
|--|-------------------------------------|------------------------|
| Food security relevant environmental issues and considerations previously identified in the environmental sensitivity assessment.  | Issue                               | Relevant Sector        |
| Solid waste management has previously been identified as a potential concern in this area. There may be limited capacity to manage waste generated from packaging. Where possible, minimize the amount of packaging, substitute for paper or cardboard (which is biodegradable), and promote reusable packaging/storage. | Solid waste<br>management           | Direct food assistance |
| Deforestation may be a concern in this area. Wood is often foraged for use as a cooking fuel, leading to unsustainable rates of extraction from the  |                                     |                        |
| local environment. Fast-cooking foods are recommended, and energy saving practices should be promoted and/or enabled (e.g. soaking, milling, lids  | Deforestation                       | Direct food assistance |
| for pots, improved stoves).  |                                     |                        |
| This area may be at risk of water scarcity. Foods which are water-intensive for cooking and preparation may not be suitable and can add to further water stress. Rations which require less water for cooking and preparation are preferable.  | Water scarcity                      | Direct food assistance |
| Users may be at risk of indoor air pollution. Poor quality fuels and unimproved cookstoves can lead to increased emissions of harmful pollutants.  |                                     |                        |
| Promote foods which are less energy-intensive for cooking, and if possible provide improved cookstoves and education on techniques to minimize   | Indoor air pollution                | Direct food assistance |
| fuel usage and exposure to indoor air pollution.   |                                     |                        |
| The local population may be engaging in environmentally detrimental livelihood strategies, such as charcoal sale/production. Providing cooking fuels<br>can discourage such practices and reduce environmental impacts. However, also mitigate potential livelihood implications.  | Detrimental<br>livelihood practices | Direct food assistance |

Date of Assessment: 22-Nov-21 Location: Test

### **Sector Summary**

#### Direct food assistance

| Environmental Concerns  | Environmental<br>Sensitivity  | Potential Activity<br>Impact  | Potential<br>Environmental Risk   |
|---|---|---|---|
| Key environmental concerns  |   |   |   |
| Rates of deforestation may exceed regeneration capabilities. Deforestation may be a risk.   | High  | High  | High  |
| Other environmental concerns  |   |   |   |
| The environment has fragile ecosystems. Further assessment is required to determine if loss of biodiversity is accelerating.  | High  | Medium  | High  |
| Indoor air pollution, caused by poor ventilation and cooking/heating, may be an issue.  | High  | High  | High  |
| The water resources may have a low regenerative capacity. Water scarcity may be an issue.   | High  | Low   | High  |
| There is low capacity to manage solid waste. Environmental sanitation and disease transmission may be an issue.   | Medium  | High  | High  |
| <ul> <li>Disaster-affected communities may employ unsuitable techniques in the preparation and/or cooking of unfamiliar foods,</li> </ul>   | leading to increased cookin   |   |   |
| <ul> <li>Humanitarian emergencies can reduce access to basic household items such as stoves. Crude or unimproved stoves are n risk of deforestation. These types of stoves also generate increased emissions, posing a health risk. Promoting improved stove are n module if pursuing energy interventions.</li> <li>Humanitarian emergencies can reduce access to basic household items such as cooking pots and utensils. Appropriate po The use of well-fitting lids reduces cooking time and fuel consumption. Where deforestation is an concern, this can reduce the with lids, and be educated about the benefits of using lids when cooking.</li> <li>Firewood collection and charcoal production can be harmful to the environment, especially in a humanitarian emergency supplies. This leads to deforestation, damaging ecosystems and increasing vulnerabilities to natural hazards. Additional comp Complete the energy sub-module in the shelter module if appropriate.</li> </ul>  | and cooking techniques that<br>not energy efficient. This cau<br>oves is recommended. Compl<br>ots in a suitable condition im<br>the severity. Disaster-affecter<br>y where there are increased                                   | reduce energy usage an<br>ises excessive fuel const<br>lete the energy sub-mod<br>prove the efficiency of t<br>ed communities should h<br>caseloads and reduced a                               | d cooking times.<br>umption, increasing the<br>dule in the shelter<br>the cooking process.<br>have access to pots<br>access to usual energy   |
| <ul> <li>lead to food wastage. Select culturally appropriate foods, and if unavoidable provide guidance on appropriate preparation a</li> <li>Humanitarian emergencies can reduce access to basic household items such as stoves. Crude or unimproved stoves are n risk of deforestation. These types of stoves also generate increased emissions, posing a health risk. Promoting improved stove module if pursuing energy interventions.</li> <li>Humanitarian emergencies can reduce access to basic household items such as cooking pots and utensils. Appropriate pot the use of well-fitting lids reduces cooking time and fuel consumption. Where deforestation is an concern, this can reduce the with lids, and be educated about the benefits of using lids when cooking.</li> <li>Firewood collection and charcoal production can be harmful to the environment, especially in a humanitarian emergency supplies. This leads to deforestation, damaging ecosystems and increasing vulnerabilities to natural hazards. Additional comp. Complete the energy sub-module in the shelter module if appropriate.</li> <li>Additional Resources</li> </ul>   | and cooking techniques that<br>not energy efficient. This cau<br>oves is recommended. Compl<br>ots in a suitable condition im<br>the severity. Disaster-affecter<br>y where there are increased                                   | reduce energy usage an<br>ises excessive fuel const<br>lete the energy sub-mod<br>prove the efficiency of t<br>ed communities should h<br>caseloads and reduced a                               | d cooking times.<br>umption, increasing the<br>dule in the shelter<br>the cooking process.<br>have access to pots<br>access to usual energy<br>d be considered.                                     |
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Commentary



#### **Food Security Module Questionnaire**

| Question   | Response  | Commentary  |
|--|---|---|
| Direct food assistance   |   |   |
| Is this a one-off or ongoing activity?   | Multiple and/or ongoing distributions                                   | Multiple or ongoing distributions inherently increase the severity of potential environmental impacts. Given the<br>frequency of activities, addressing and mitigating potential environmental impacts is of a greater concern. Food<br>distributions have higher potential for environmental impacts compared to markets or self-production, and should<br>only be a short-term activity if possible.  |
| Do provisions minimize cooking time and energy and water consumption?                                  | Yes, and contents reduce cooking time, energy<br>requirements and water | Skip  |
| Do provisions satisfy minimum household food needs?  | Yes   | Skip  |
| Are disaster-affected communities familiar with energy saving food preparation and cooking techniques? | Yes, but only for some contents   | Disaster-affected communities may employ unsuitable techniques in the preparation and/or cooking of unfamiliar<br>foods, leading to increased cooking times and energy consumption. This can also lead to food wastage. Select<br>culturally appropriate foods, and if unavoidable provide guidance on appropriate preparation and cooking techniques<br>that reduce energy usage and cooking times.  |
| What type of cookstoves are disaster-affected people currently using?                                  | Mostly crudely self-constructed burners (e.g. three-<br>stone fires)    | Humanitarian emergencies can reduce access to basic household items such as stoves. Crude or unimproved stoves<br>are not energy efficient. This causes excessive fuel consumption, increasing the risk of deforestation. These types of<br>stoves also generate increased emissions, posing a health risk. Promoting improved stoves is recommended. Complete<br>the energy sub-module in the shelter module if pursuing energy interventions.                                     |
| What type of cooking pots are disaster-affected people currently using?                                | Mostly pots in poor conditions (encrusted, damaged or without lids)     | Humanitarian emergencies can reduce access to basic household items such as cooking pots and utensils. Appropriate<br>pots in a suitable condition improve the efficiency of the cooking process. The use of well-fitting lids reduces cooking<br>time and fuel consumption. Where deforestation is an concern, this can reduce the severity. Disaster-affected<br>communities should have access to pots with lids, and be educated about the benefits of using lids when cooking. |
| What is the primary type of fuel being used for cooking?   | Mostly wood or charcoal   | Firewood collection and charcoal production can be harmful to the environment, especially in a humanitarian<br>emergency where there are increased caseloads and reduced access to usual energy supplies. This leads to<br>deforestation, damaging ecosystems and increasing vulnerabilities to natural hazards. Additional complementary<br>activities (fuel/stove provisioning) should be considered. Complete the energy sub-module in the shelter module if<br>approxitate.     |
| Is there a planned educational component on energy-saving food preparation and cooking techniques?     | Yes, mainly through community-centered events such<br>as workshops      | Skip  |

## **Results U-NEAT+**

| NEAT+              |   | Test Survey                             | ~ 4 W                     |
|--------------------|---|---|---------------------------|
| < BACK TO SURVE    | YS  | Sensitivity Shelter WASH FS             |                           |
| Overview           |   |   |                           |
| Test survey        |   | Sensitivity Statements Severity Summary |                           |
| Survey Information | tion                                      |   |                           |
| Name               | Test Survey                               | 8 8 30                                  |                           |
| Location           | Geneva                                    | High Concerns Medium Low Cor            |                           |
| Organization       | UNEP/OCHA Joint<br>Environment Unit (JEU) | → Concerns →                            | →                         |
| Surveyed by        | Will                                      | Location of Assessment                  |                           |
| Programme Scale    | Test                                      | Le Mans<br>France                       | Piunici +                 |
| Created on         | 10/4/2021                                 |   | irich<br>Liechtenstein    |
| Modified on        | 10/4/2021                                 | Switzer                                 | land<br>Bolzano<br>Trento |
|                    |   | Limoges                                 | Milan Venio               |
|                    |   | Grenoble                                | Parma                     |
|                    |   | Omepbox                                 | Genoa Romanna             |

# **FS Activity Module Usage**

Hpa-An Township, Myanmar

- October 2019 pilot test with JEU & NRC
- 5,600 IDPs in Kayin
- Modules tested:
  - Environmental Sensitivities
  - Food Security & Livelihoods (Sein Pa La village only)
- Findings:
  - Large need, low capacity
  - FSL findings matched NRC's mitigation plans
- Full report









# **Pilot test the U-NEAT+**

## **U-NEAT+ Pilot Testing**

- More urban testing is needed to refine the model.
- If you're interested in testing, please sign up here:
- <u>https://forms.office.com/r/GeCt</u>
   <u>6ERvjn</u>

### **U-NEAT+ FS Module Review**

- Increase accuracy and applicability
- Email <u>william.rynearson@un.org</u> if interested/available.



## NEAT +

Nexus Environmental Assessment Tool

## Thank you!

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JOINT ENVIRONMENT UNIT TOGETHER FOR A BETTER RESPONSE.