**Exercise 2.1: Selecting Nexus Indicators**

The objective of this exercise is to reflect on appropriate indicators to measure and demonstrate the impacts of WEF nexus projects and to discuss the related challenges in finding the right indicators and relevant data sources.

**Step-by-step guide**

Build working groups consisting of 3-5 persons

**Step 1: Selecting and describing a Nexus project**

Task: Discuss the following points within your group:

* Choose an existing or planned nexus project that you know of or that you would like to see implemented in your region.
* Describe the project following the example given on page 2, including the following aspects:
	+ What are the project’s main components and objectives?
	+ What are the main resource uses and relevant challenges in the project area? Which are affected groups of society?
	+ What are the project’s expected overall long-term objectives?

*Where you do not have any detailed information, just imagine some numbers for the purpose of this exercise.*

Timeframe: 15 minutes for selecting and describing the project.

**Step 2: Select appropriate indicators**

Task: Select appropriate indicators based on the NRD indicator framework. Please use the following guiding questions:

* What the main **categories and sub-categories** relevant for the project?
* Which **indicators** are suitable to measure or demonstrate the projects impacts?
* Discuss potential **challenges** in collecting data for these indicators?

*Please use the Table format on the next page to collect suitable indicators.*

Timeframe: 25 minutes for discussion and compiling the results.

**Step 3: Presentation of group work and discussion within plenum**

Task: Present your group work in the plenum and discuss further.

Timeframe: 30 minutes for group presentations and discussion in the plenary.

**Step 1: Defining a nexus project**

Example: Rehabilitation of lagoons for increased food security and water supply in Peru

**Title of the project:**

The use of payments for ecosystem services for the rehabilitation of ancestral lagoons in San Pedro de Casta, Santa Eulalia basin, Peru to improve WEF security Nexus in a rural community

**Background: Nexus resource use in the project area:**

The basin supplies the capital city of Lima with 50% of its drinking water, 1/3 of the electricity used in Lima is generated through hydropower in the Santa Eulalia basin, 98% of the basin is under cultivation. Since 2015 the water utility of Lima SEDAPAL collects funds from water users downstream through their water tariffs to compensate for ecosystem services provided by communities upstream.

**Project description and objectives:**

Rehabilitation of four ancestral lagoons in the San Pedro de Casta community upstream through the construction of levees will significantly increase infiltration and lead to higher and more continuous spring flow, including during the dry period. The additional runoff will be used to irrigate an orchard of 10 ha and power a micro generator to be installed together with solar panels to provide electricity to the community.

**Expected impacts:**

Improved food security through the irrigation of a fruit orchard and improved energy access in the rural community of San Pedro de Casta (2,800 inhabitants).

**Step 2: Identifying indicators**

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| Pillar | Category | Sub-category | Indicators | Source of data / ways of data collection and challenges |
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