The planetary boundaries concept claims that four out of nine boundaries are already crossed and emphasizes a transdisciplinary approach for sustainable development.

→ SDGs as prerequisites to avoid further violations of planetary boundaries?

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**Case Study: HORTINLEA**

HORTINLEA is an interdisciplinary research project addressing food security in East Africa, particularly in Kenya. HORTINLEA uses an integrated approach that encompasses the entire value chain from production to marketing and consumption of leafy vegetables (AIVs) and integrates poverty, environmental and gender dimensions.

**From MDGs to SDGs**

In contrast to the MDGs, the SDGs provide a more extensive framework, being structured in 17 goals and 169 specific targets which encompass social, economic and environmental aspects.

**How to ensure that SDGs are mainstreamed on the level of development projects?**

1. **Decompose the exact wording of the SDG subgoal**
   - count the number of components.
2. **For each component**, check if there is a matching activity (see example below)
3. **Divide the number of matches and total components**, multiply by 10 to get the score.
4. **Repeat steps 1-3** for all SDG subgoals

**Example:**

- **Goal 5:** Equal and strong founded transdisciplinary partnerships
  - Some HORTINLEA project innovations and new technology applications are specifically targeted at women. Market opportunities in this area may be very beneficial to women. Innovative gender solutions such as ready-to-cook AIVs and AIV recipe books may have a positive effect in terms of more equal care work in the household and contribute to a re-shifting of power relations within the household.

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**Coverage of SDGs in project outcomes**

- **SDG 17:** Strengthen implementation and partnership
- **SDG 16:** Accountable and inclusive institutions
- **SDG 15:** Sustainable use of ecosystems, biodiversity
- **SDG 14:** Sustainable use of marine resources
- **SDG 13:** Combating climate change
- **SDG 12:** Responsible consumption and production
- **SDG 11:** Sustainable human settlements
- **SDG 10:** Reduction of inequalities

**From MDGs to SDGs**

In contrast to the MDGs, the SDGs provide a more extensive framework, being structured in 17 goals and 169 specific targets which encompass social, economic and environmental aspects, however, there exist some shortcomings, i.a.:

- Role of non-state actors not sufficiently integrated into SDGs
- SDGs are based upon voluntary incentives instead of mandatory regulations
- ‘Cherry-picking’ of goals; no holistic direction for achieving the SDGs as an entire framework

**How to ensure that SDGs are mainstreamed on the level of development projects?**

- **Decompose the exact wording of the SDG subgoal**
  - count the number of components.
- **For each component**, check if there is a matching activity (see example below)
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**References**