



KEY SUSTAINABILITY PRINCIPLES

How sustainable is your product from the circular bioeconomy?

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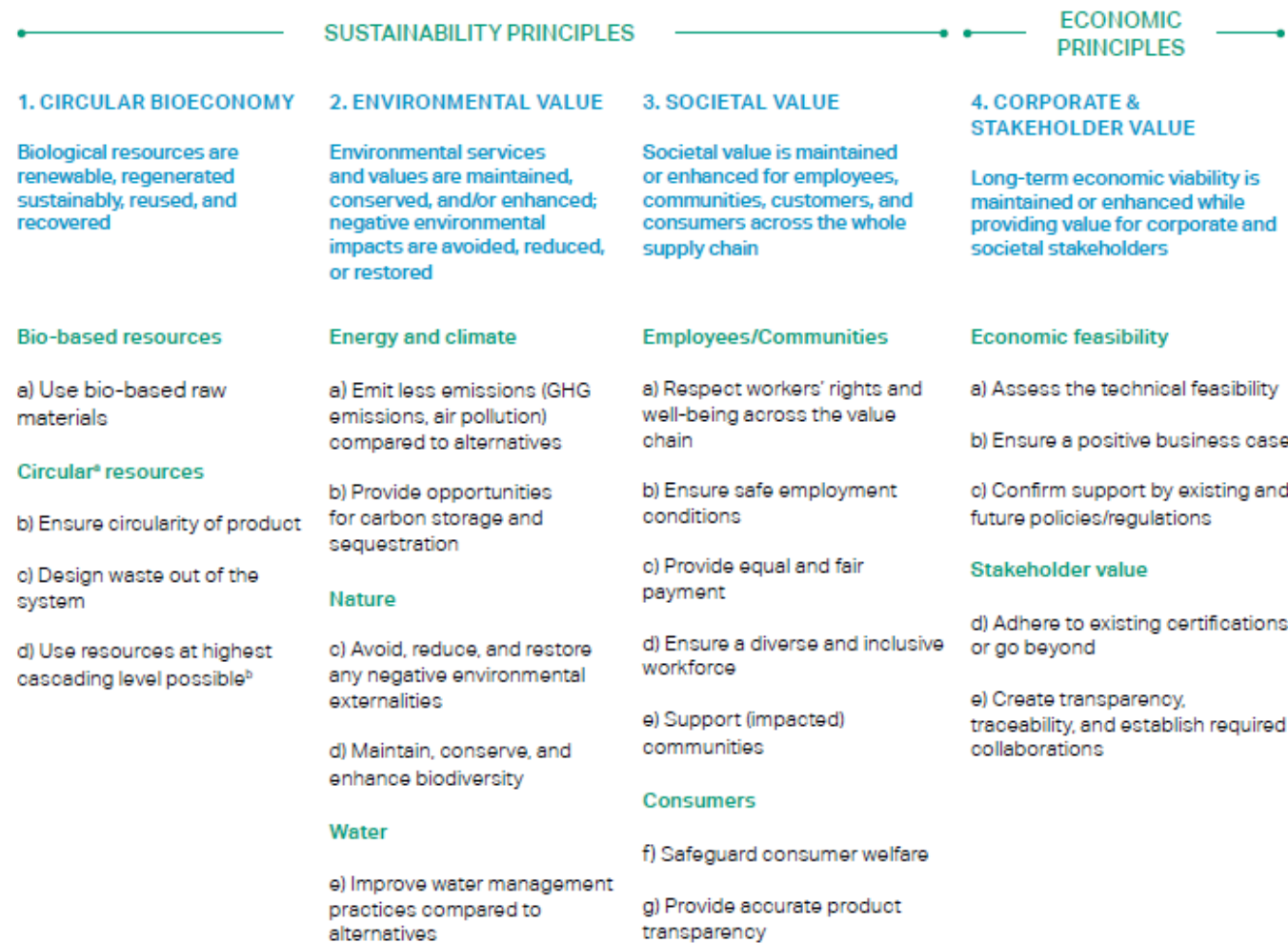
These sustainability principles were created to guide companies at the start of their journey in understanding the relevant circular bioeconomy principles and trade-offs.

The principles are built around four key pillars:

1. Circular bioeconomy; 2. Environmental value; 3. Societal value; 4. Corporate & stakeholder value.

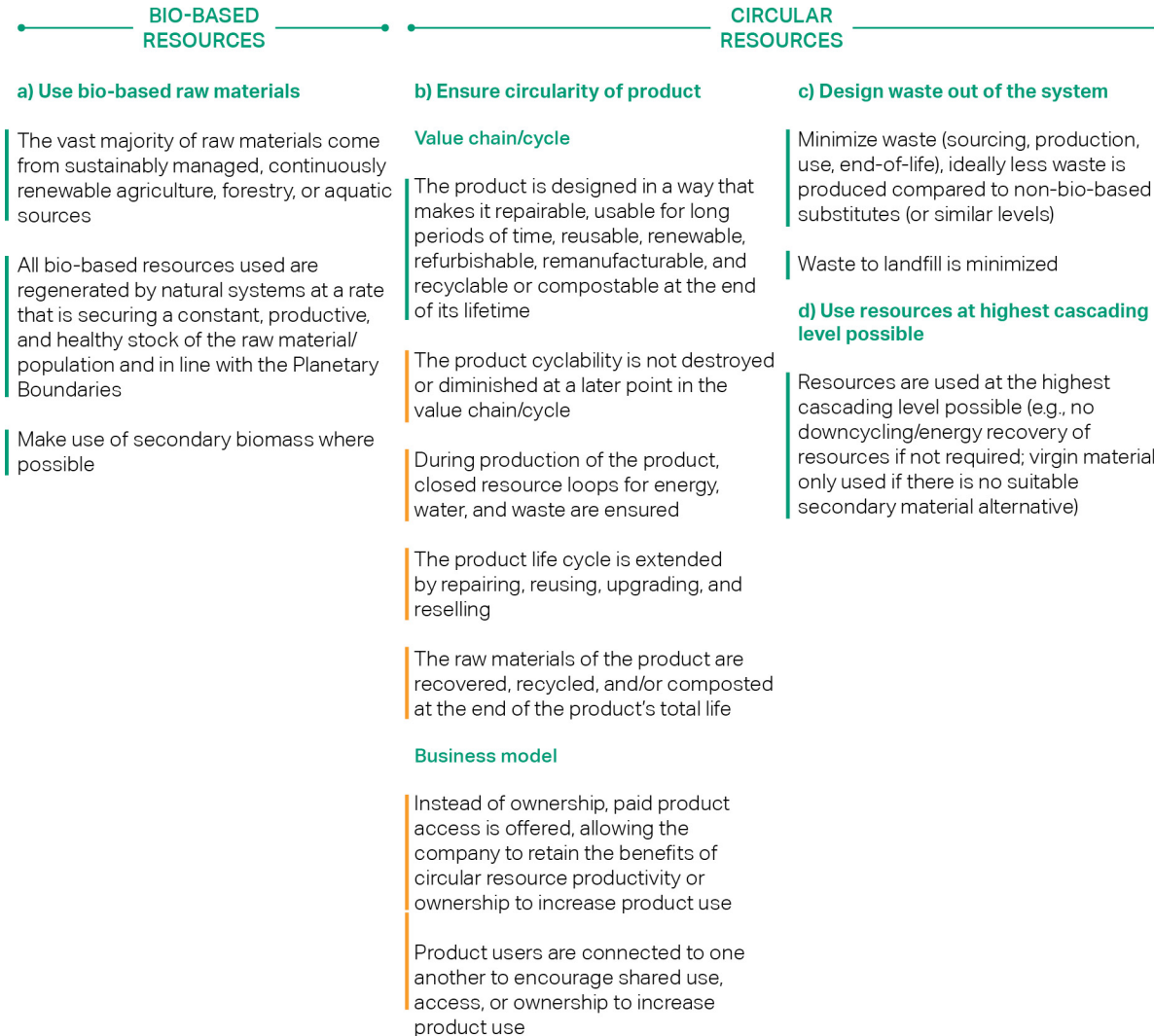
Each of these pillars is made of a list of critical and supporting factors that should form part of a holistic trade-off assessment. A sustainability assessment, such as a life cycle assessment, can help gather the required information to address the criteria. The evaluation should occur over the whole life cycle and possibly value chain and must include sustainability aspects such as material type (bio-based versus fossil-based), overall resource intensity, emissions, durability, reuse options, or human behavior, and also social aspects such as effects on employment, living conditions, and food availability.

Four key principles to ensure a superior sustainability and economic performance of products from the circular bioeconomy.



1. CIRCULAR BIOECONOMY

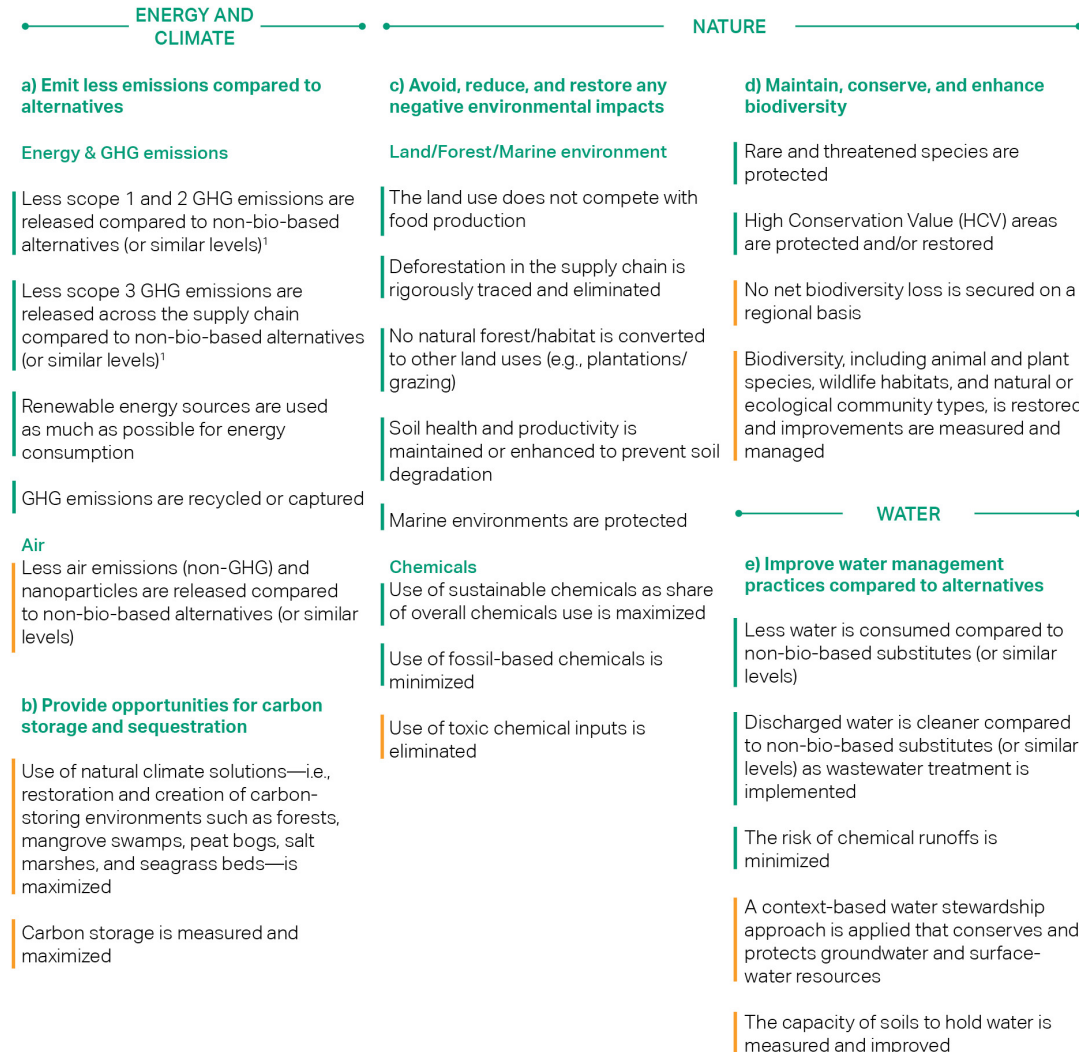
Biological resources are renewable, regenerated sustainably, reused and recovered.



- Critical factors (as many of these as possible should be fulfilled)
- Supporting factors (some of these should be fulfilled)

2. ENVIRONMENTAL VALUE

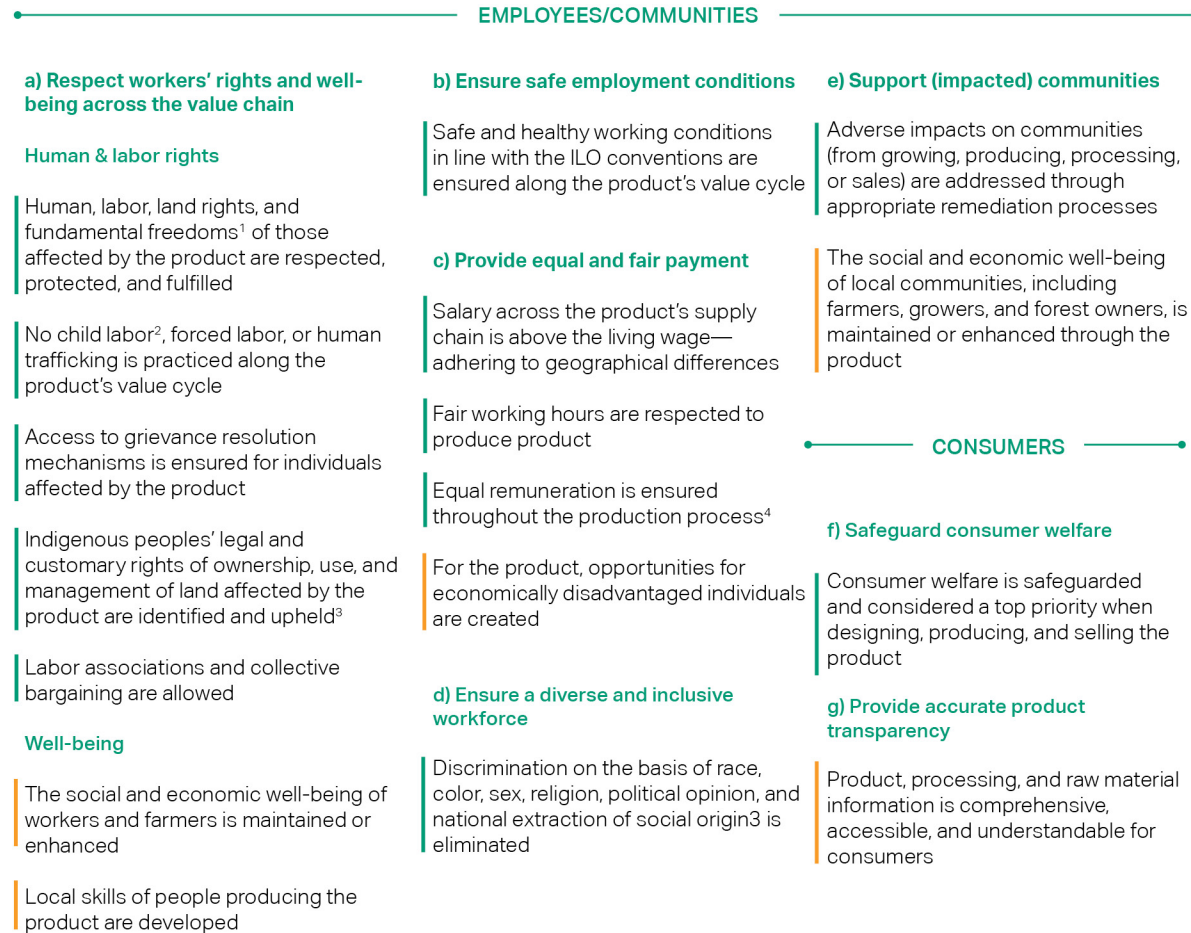
Environmental services and values are maintained, conserved, and/or enhanced; negative environmental impacts are avoided, reduced or restored.



- Critical factors (as many of these as possible should be fulfilled)
- Supporting factors (some of these should be fulfilled)

3. SOCIETAL VALUE

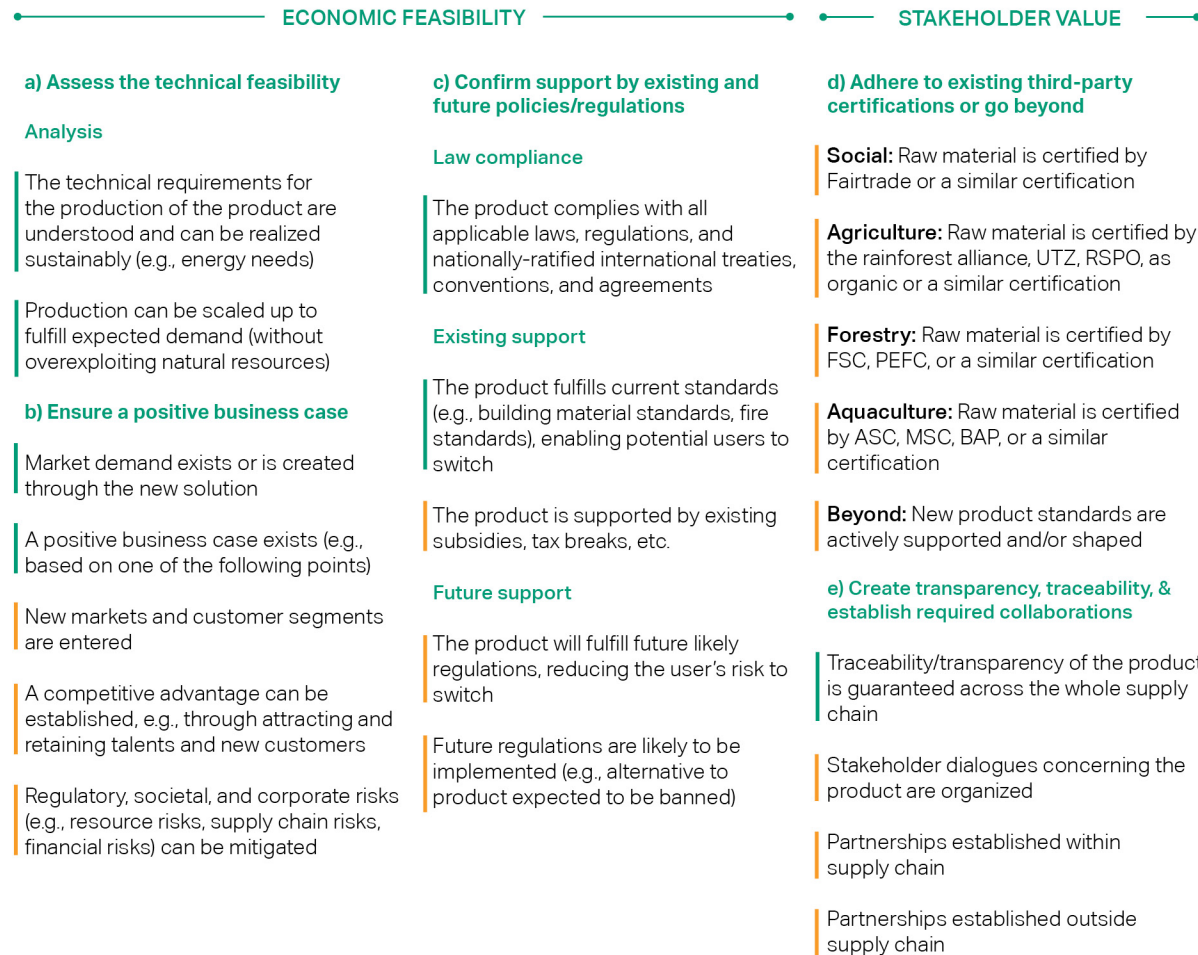
Societal value is maintained or enhanced for employees, communities, customers, and consumers across the whole supply chain.



- Critical factors (as many of these as possible should be fulfilled)
- Supporting factors (some of these should be fulfilled)

4. CORPORATE & STAKEHOLDER VALUE

Long term economic viability is maintained or enhanced, while providing value for corporate and societal stakeholders.



- Critical factors (as many of these as possible should be fulfilled)
- Supporting factors (some of these should be fulfilled)

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journey!