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Sustainability along the supply chains of spices & other plant-based raw materials

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ZNU – Center for Sustainable Leadership

Research Institute at the University of Witten/Herdecke

More than 18 years experience

Research

Sustainability Management and Sustainable Change

Conferences

Yearly since 2008

Tools / Initiatives

- ZNU Standard
- ZNU goes Zero

Consulting

fjol GmbH and lead by fjol-digital GmbH in cooperation with the UW/H

Research & Teaching

- > 330 Sustainability managers
- > 900 Working group participants

WHERE SPICES GROW

Diversity and complexity of supply chains

Kanada
Kümmel
Koriander
Senf

USA
Basilikum
Koriander
Dillkraut
Majoran
Minze
Petersilie
Paprika
Roter Pfeffer
Estragon
Knoblauch
Zwiebel
Pistazien

Mexiko
Piment
Chili Ancho
Oregano
Vanilleschoten

Guatemala/Honduras
Piment
Kardamom

Jamaika
Piment
Kolanüsse

Tahiti
Vanilleschoten

Westindische Inseln (Grenada)
Macis
Muskatnuss

Peru
Paprika
Kurkuma
Oregano

Brasilien
Schwarzer Pfeffer
Weißer Pfeffer
Grüner Pfeffer
Roter Pfeffer
Gewürznelken

Deutschland
Petersilie
Majoran
Dill
Schnittlauch
Senf

Spanien
Anis
Paprika
Rosmarin
Safran
Thymian

Niederlande
Kümmel
Korbel
Mohnsamen

Kroatien
Salbei

Frankreich
Basilikum
Korbel
Fenchel-Samen
Rosmarin
Salbei
Bohnenkraut
Estragon
Thymian

Finnland
Kümmel

Bulgarien
Koriander

Serbien
Bärlauch
Wacholderbeeren

Tschechien
Mohr
Kümmel

Albanien
Oregano
Rosmarin
Salbei
Bohnenkraut
Bärlauch

Ungarn
Paprika
Mohnsamen
Koriander
Dill
Knoblauch
Kümmel

Griechenland
Oregano

Polen
Mohnsamen
Thymian
Kümmel
Majoran
Pastinaken
Bohnenkraut

Syrien
Kreuzkümmel
Anis
Lorbeerblätter
Kreuzkümmel
Fenchel-Samen
Oregano
Mohnsamen
Salbei

Pakistan
Kreuzkümmel
Dill-Samen
Roter Pfeffer

Bosnien und Herzegowina
Bärlauch
Wacholderbeeren

Rumänien
Koriander



Fachverband der Gewürzindustrie e.V.

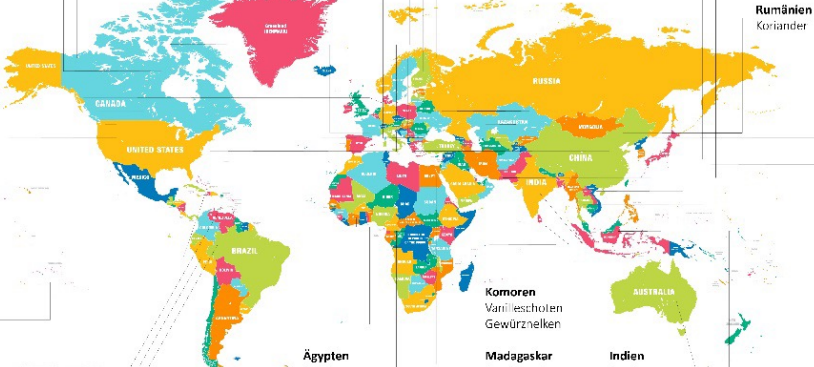
China
Sellerie-Samen
Schnittlauch
Zimt
Koriander
Kreuzkümmel-Samen
Fenchel-Samen
Knoblauch
Ingwer
Zwiebel
Oregano
Petersilie
Roter Pfeffer
Schalotten
Sternanis
Szechuan-Pfeffer
Kurkuma
Weißer Pfeffer
Paprika

Tonga
Vanilleschoten

Vietnam
Schwarzer Pfeffer
Weißer Pfeffer
Zimt
Sternanis

Thailand
Zitronengras
Kurkuma

Malaysia
Gewürznelken
Schwarzer Pfeffer
Weißer Pfeffer



Marokko
Koriander
Bockshornklee
Oregano
Petersilie
Rosmarin
Thymian

Elfenbeinküste & Kamerun
Kolanüsse

Nigeria
Ingwer

Ägypten
Anis
Basilikum
Kümmel
Koriander
Dillkraut
Fenchel-Samen
Majoran
Minze
Lacke
Zwiebeln
Schwarzkümmel

Uganda
Vanilleschoten
Chilis

Tansania
Kardamom
Nelken

Komoren
Vanilleschoten
Gewürznelken

Madagaskar
Gewürznelken
Vanilleschoten
Zimt

Seychellen
Zimt

Iran
Kreuzkümmel
Safran
Pistazien

Sri Lanka
Zimt
Nelke
Ingwer
Muskatnüsse

Malabar (Südindien)
Kurkuma
Kreuzkümmel
Ingwer
Sellerie-Samen
Schwarzer Pfeffer

Indien
Kardamom
Sellerie-Samen
Kreuzkümmel
Dill-Samen
Fenchel-Samen
Bockshornklee
Muskatnuss
Roter Pfeffer
Grüner Pfeffer
Schwarzer Pfeffer
Vanilleschoten
Ingwer
Kurkuma
Chili
Zwiebeln

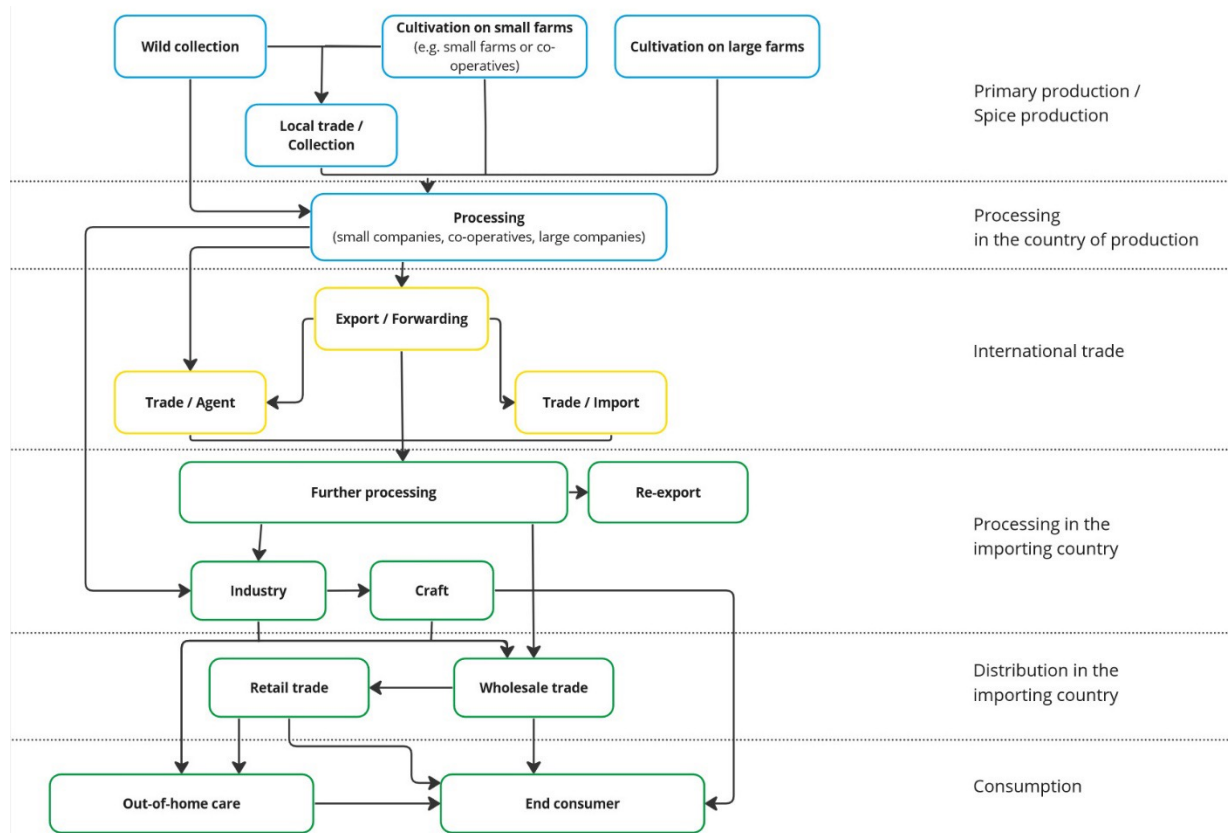
Australien
Mohr-Samen

Indonesien
Zimt
Gewürznelken
Macis
Muskatnuss
Vanilleschoten
Schwarzer Pfeffer
Weißer Pfeffer

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www.gewuerzindustrie.de



Supply Chain of Spices



The value chain of spices and spice products, own illustration according to UNIDO & FAO (2005) (blue: stage in the producing country, yellow: international, green: stage in the importing country); Quelle: Hot Spot Guide Gewürze, ZNU



Status quo on sustainability in the spices industry based on an survey with the association's member companies





Key data | Sustainability brochure

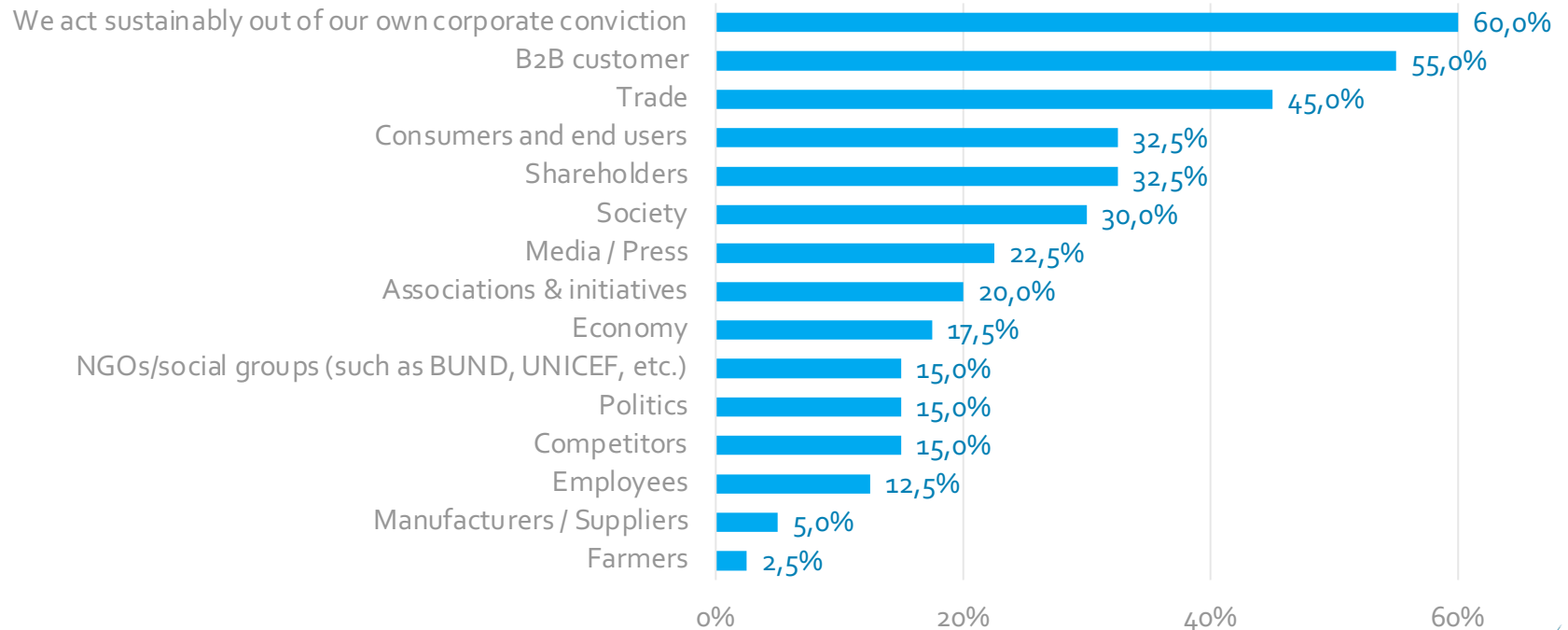
- **Project duration:** 01 May 2021 - 31 April 2022
- **Scope:** 28 pages
- **Survey of the 94 FGI member companies**
 - Duration of the survey: 15 - 31 October 2021
 - Participation: 40 companies

Top issues in the spices industry

Environment	Economy	Social
1. Food waste / losses	1. Quality assurance	1. Human rights in the supply chain
2. Climate protection	2. Securing raw materials	2. Health management
3. Sustainable Packaging	3. Transparency in the origin of raw materials	3. Qualification of employees
4. Biodiversity	4. Innovation in the technical area (production)	4. Anti-corruption/compliance & demographics
5. Water consumption in agriculture	5. Fair value creation (e.g. fair payment in the chain)	5. Social commitment

Who demands sustainability from the companies?

(multiple choice possible, n=40)



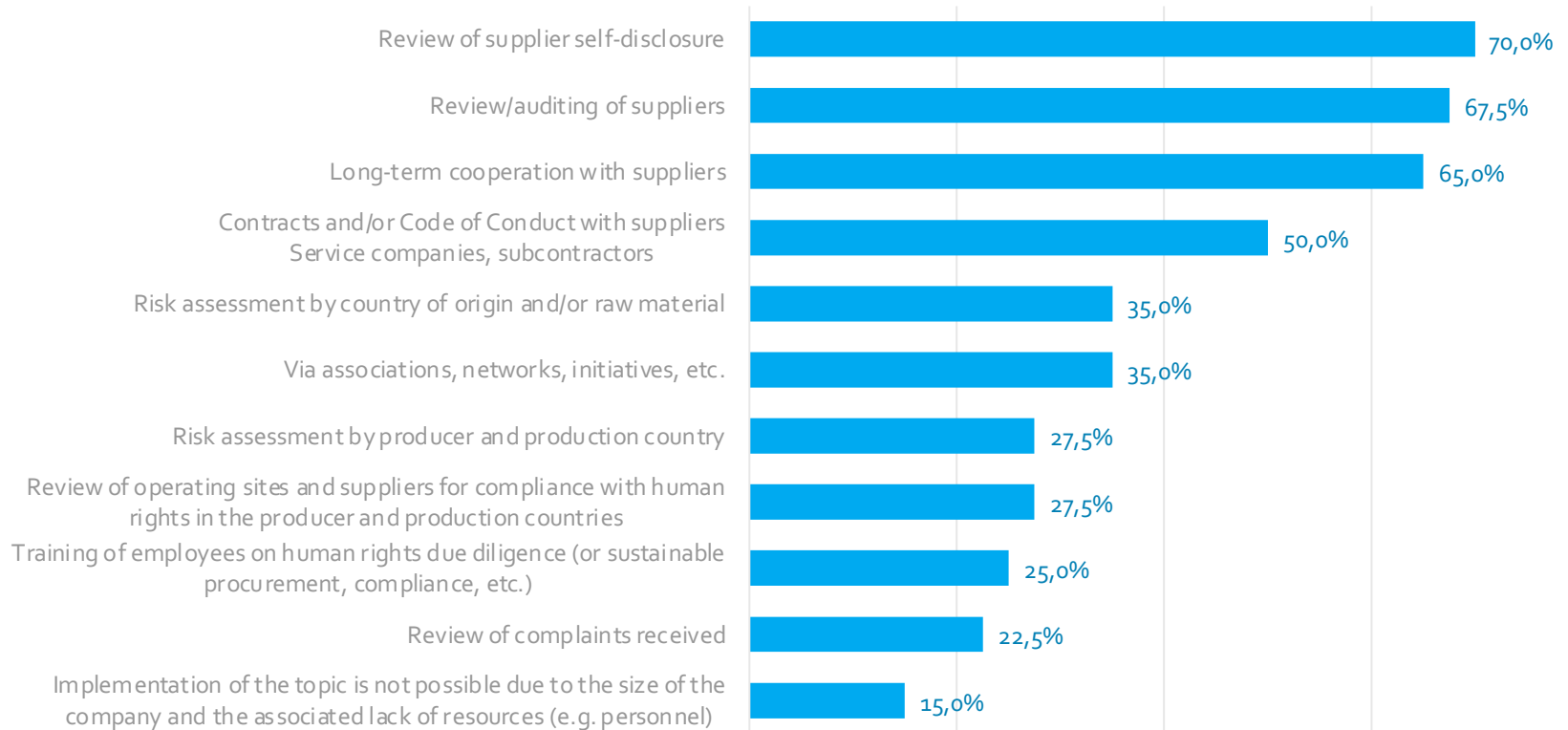


Robert Becht, CEO of VAN HEES GmbH

"The procurement of raw materials in the required quantities and qualities in the international markets poses an ever greater challenge. The general availability is increasingly taking center stage.

Despite all the difficulties, sustainability must remain an important priority."

How do you deal with the "respect for human rights in the supply chain"? (multiple choice possible, n=40)



How will sustainability be implemented in your company in 2026?

(multiple choice possible, n=40)



Sustainability cluster of spices by Wenzig (2023)

Water, Pesticides, Fertilizers, Human Rights

Focus: Human Rights



160 Indicators
244 Countries
57 Sectors

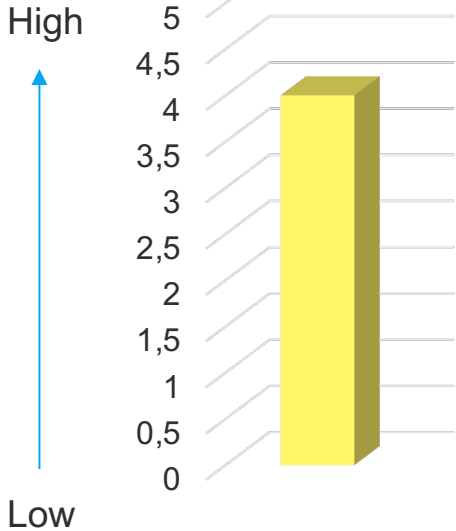
Matching of human rights mentioned in the German supply chain due diligence act (LkSG) with 8 indicators of SHDB

Comparison of important exporting countries based on SHDB

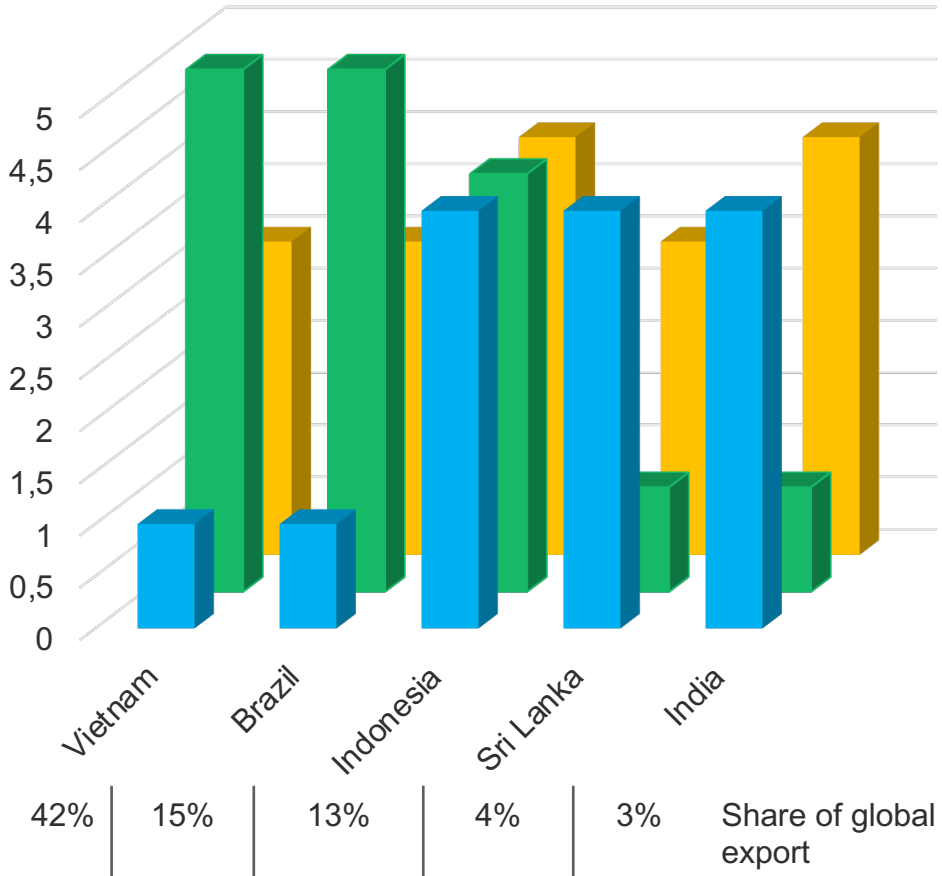
Indicators	Vietnam	Brasil	Indonesia	India	Spain
Risk that Sector Avg Wage is below Sweatfree Wage	2	4	4	2	2
Total Child Labor in Sector	5	5	5	5	1
Overall Forced Labor in Country	2	2	3	5	2
Freedom of Association Rights, Collective Bargaining Rights, Right to Strike	4	4	5	5	4
Prevalence of discrimination in the workplace	4	3	4	4	2
Fatal injuries by sector	/	/	/	/	4
Non-fatal injuries by country	/	4	/	3	5
Overall Non-communicable Diseases and other health risks (including water and air pollution)	2	2	4	3	2

Pepper

Assessment



Fertilizer



■ Waterscarcity ■ Share critical pesticides ■ Human rights risks



Online workshop series:

Sustainability along the supply chains of spices & other plant-based raw materials

Economic

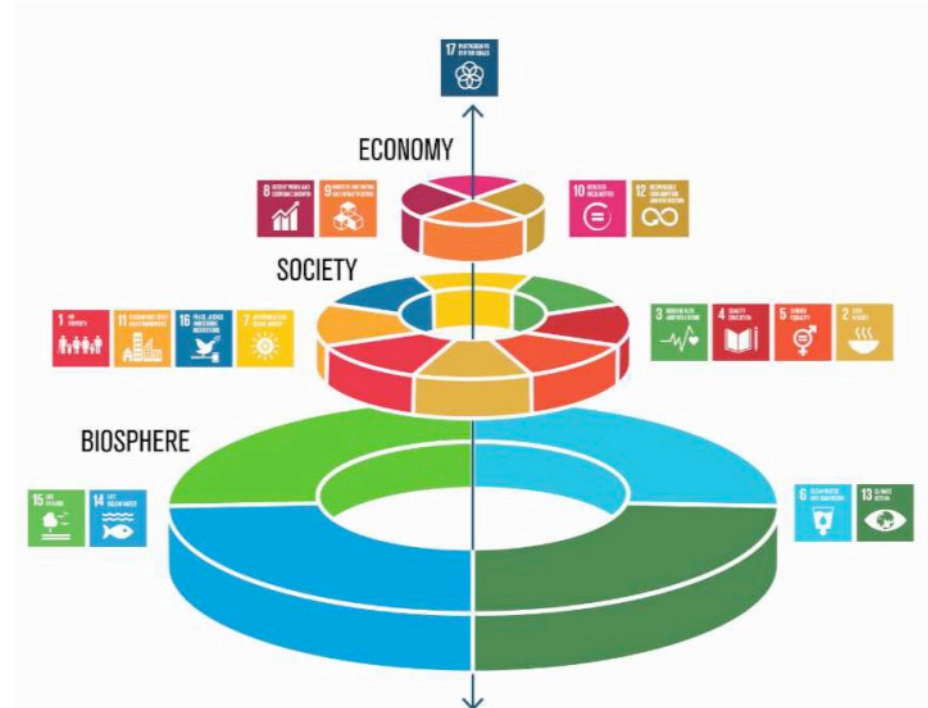
- Supply Chain Management (14.03.2024)

Societal

- Human Rights (27.02.2024)

Environmental

- Climate Change (30.01.2024)



Thank you for your attention

Questions?



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