Standards and Interoperability
Insights - Learnings - Approaches
Our Insights into Supply Chains

- We analysed **more than 1000 suppliers** in supply chains from minerals (lead, tin, etc.) to products (IT, Automotive)
- What **types of businesses** are involved?
- What **kind of suppliers** are involved?
- **How transparent** are they?
- How are **materials and data** handled along supply chains?
- Which information on **sustainability** is available?
- Which **focus** on sustainability criteria and standards?
- How do suppliers **collaborate along supply chains**?
Challenges with Standards & Interoperability

- **Supply chains are often very diverse and complex**
  Various companies of different sizes, backgrounds, professions work with each other or in parallel, often without realizing it

- **Usually there is no “one fits all” worldwide standard or interoperability**
  But multiple jurisdictions, industries, practices and needs

- **There is no fixed status quo**
  Constant change, revision and adaption required along with the processing of materials over time

- **There are often no parallel interests**
  Just conflicting needs and interests and a tag along and drag along

- **There are varying levels of knowledge and focus**
  Yet all have impact on the “value chains”
The Covid Impact

- **Asynchronous decrease** of supplies and demand
- From local **hot-spots to markets** domestically and internationally
- **Missing knowledge** of alternative supplies and volumes
- **Difficult to ramp up** from zero to business as usual
- Lot’s of **uncertainty** requires lots of communication and alignment
- Some **push sustainable supply chains** even more, others do not
Key Learnings from our Insights

- Understand the **different types of participants**
- Think in **live-cycles of materials** and products
- Show participants their **individual advantages**
- Make it simple - **keep it simple**
- Start with **low-hanging fruit**
- **Adopt** to given workflows
- Allow **flexibility**
- Make information **digestible**
- Give easy-to-understand **guidance**
Minespider Translates Learnings into Tools

Open Minespider Protocol
● Free and flexible to use

Balancing competing interests
● Transparency Layer (addresses public informational needs)
● Privacy Layer (addresses confidential information)

Immutability of data
● Minimizes risks of forgery, fraud, corruption

Allows easy sharing of information along the supply chains
● Reduces NDA efforts
● Reduces due diligence efforts
● Simplifies verification of information
● Reduces risks
● Reduces costs

Simplifies the collection and assessment of the information overload

Can model the supply chains
● Simple query tools and feedback
● Quick impact assessments
● Focused Incentives
● Preferencing and management
What can the UN/CEFACT and Experts do?

Examine the different approaches
- Challenge the status quo
- Identify best practices

Take an active role
- Join blockchain governance and consensus facilities where possible
- Support transparency
- Communicate best practices
- Invite others to participate
Thank you.
Any questions?

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