Sustainability Insights

draft-almprs-sustainability-insights-00

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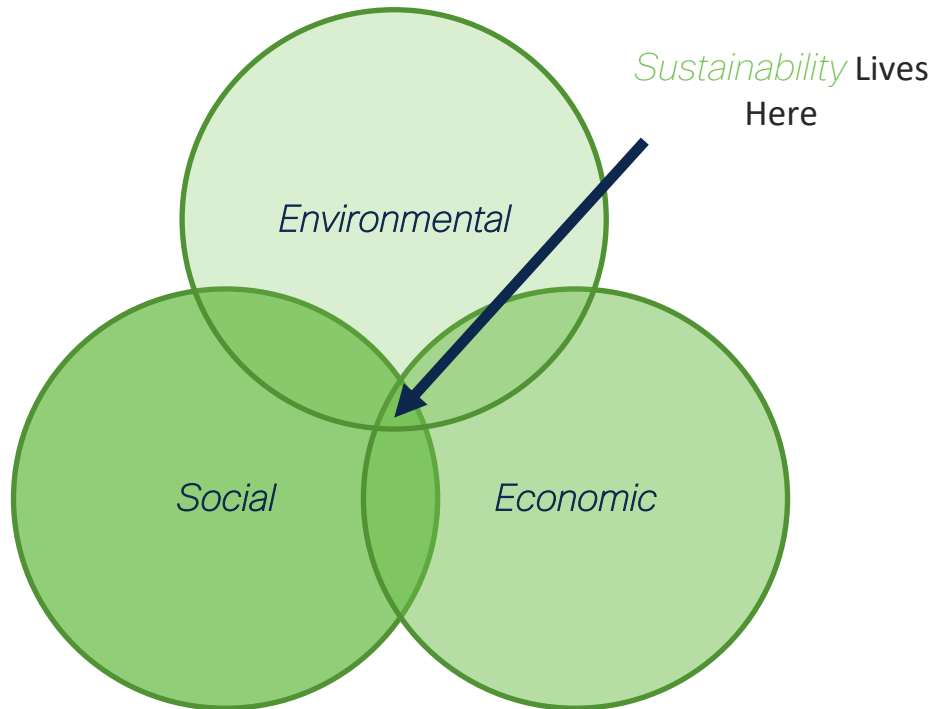Snezana Mitrovic (snmitrov@cisco.com)

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https://datatracker.ietf.org/doc/draft-almprs-sustainability-insights/

What is Sustainability Insights?

Environmental

Social

Economic

Sustainability Lives Here

- **Sustainability Framework with the goal to reduce GHG:**

  - **Common Definition of Metrics / KPIs**

  - **Capability to include recommendations for optimizing the use of the network equipment, throughout all of the ISO lifecycle stages.**

Common Definition of Metrics / KPIs
Sustainability Metrics

- **Data Sources are distributed across vendors, users, and government**
  - **"Static" Data: e.g. manufacturing data, power data sheets etc.**
  - **"Dynamic" Data: runtime operations**
  - **Need to have a standardized way of measurement to avoid greenwashing**
  - **Include ISO Lifecycle Assessment:**
    Use, Manufacturing, Material Acquisition / Processing, Transport & End of Life
  - **Country-specific regulations, corporate policy, and social aspects**
- **Need to include the context of measurement**

Motivation
Digital Product Passport (DPP)

Framework integration(**)
Reference architecture, common standards (semantics and interoperability protocols), data governance models, business models and data storage management

Product Information

EU Requirements:
EcoDesign + **Performance Information**

Value added (*)

(*) Vendor Specific
(**) EU needs to provide

Use Cases

- **Identification of network elements which are not performing as expected**

- **Migration to more energy-efficient platforms/components**

- **Recycle and Reuse**

- **Visibility, continuous monitoring and automated remediation action**

- **Total Sustainability Cost of Ownership (TSCO)**

Next

- **Sustainability Framework for Sustainability Data**

- **Basis for building and aligning YANG Data Models:**
    - **Identification of the "assets"**
    - **Power and Energy Efficiency**
    - **Circular Economy attributes**
    - **Context for metrics**

References

IAB e-Impact workshop

- Per Anderson, Suresh Krishnan, Jan Lindblad, Snezana Mitrovic, Marisol Palmero, Esther Roure, Gonzalo Salgueiro. "Sustainability Telemetry."

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- Pascal Thubert. "Digital Twin and Automation."