Sustaining values

Driving the sustainability agenda in Transport and Logistics

2021
Transport and Logistics companies are sitting on a sustainability time bomb

1. Stakeholders: Demand for sustainability
   - Financial institutions step up pressure towards sustainability and climate protection
   - Logistics customers demand sustainable solutions

2. Environment: Climate change and emissions
   - Logistics is among the key drivers of climate change
   - Deteriorating climate has adverse impacts on Logistics
   - Massive decrease of emissions needed to meet climate goals

3. Social: Value chain overview
   - T&L have limited overview over their value chains
   - Working conditions of subcontractors particularly critical
   - Blind spot may suddenly come into the limelight

4. Governance: Reporting and risk management
   - Regulation exerts pressure for sustainability
   - Increasing demands for reporting and risk management (e.g., CSR guideline, EU taxonomy, supply chain act “Lieferketten-gesetz”)
Sustainability creates value in four dimensions

More Trust
- Service quality and safety
- Customer satisfaction and long-term relationships
- Employee well-being
- Traceability and transparency

More Growth
- Low carbon products/logistics services
- New business models, e.g. circularity solutions
- Customer retention and new customers

Lower Risk
- Sustainable supply chain incl. sub-contracted services
- Health and Safety
- Integrity and compliance

Lower Costs
- Reduction of fuel consumption, empty loads etc.
- Reduction of GHG emissions/carbon taxes
- Access to favorable (green) financing
An integrated sustainability strategy for T&L encompasses five building blocks

A. Define an actionable sustainability strategy including materiality analysis with respect to environmental, social and governance factors (ESG).

B. Understand what’s at stake due to climate change and set up a road-map for decarbonization to comply with upcoming regulation and become proactive – customer demands + upside.

C. Strive for a value chain which supports environmental and social sustainability across all own and sub-contracted operations.

D. Embrace the potential of circularity – for own operations and service offerings.

E. Assess the sustainability impact and report to stakeholders according to best practice standards.

Driving the sustainability agenda in T&L
Strategy&
T&L companies start to embed sustainability into their strategy striving for ambitious goals

Four key ingredients for a sustainability strategy

- **Strategic focus**
  - Targeting of key issues, ensuring *materiality* for stakeholders and business, e.g.,
    - **Environmental**: GHG emissions, particle emissions
    - **Social**: Employee health and safety, subcontractors
    - **Governance**: ESG reporting, ESG risk management

- **Integrated approach**
  - Integration into the corporate strategy – horizontal integration across Corporate and Business units, vertical integration from Board to shop floor

- **Objectives**
  - Ambitious goals – not geared to what is feasible today – with a long-term time horizon

- **Strategic roadmap**
  - Strategic roadmap/implementation: Responsible persons, resources, costs and processes for implementation defined

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T&L companies strive for net zero emissions ...

- **Kuehne + Nagel** targets **net zero** for own activities by 2020 and **encompassing suppliers by 2030**

- In 2017, the trains of **Dutch railways** became the first in the world to be **powered 100% by wind energy**.

- **Deutsche Bahn** plans to reduce CO2 emissions worldwide by **50% by 2030** and become **climate-neutral by 2050**

- **DPDHL**´s environmental protection strategy – Mission 2050 aims at zero logistics-related **emissions by 2050**
T&L companies should base their carbon roadmap on TCO scenarios and marginal abatement cost curves

Logistics companies should be aware of the necessary shifts in trucking technology in a <2° scenario …

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… and the corresponding total cost of ownership of different CO2 abatement options …

Trucking technology for heavy, non-urban trucks in a global <2°C scenario

Total cost of ownership of different CO2 abatement options for heavy trucks

… to arrive at marginal abatement cost curves guiding decision-making

Non-urban | Heavy sized vehicles

Million vehicles

Non-urban | Trucks >26tn

Costs €/vkm

Non-urban | Commercial vehicles

€/tCO2e

- Diesel ICE
- CNG/LPG
- Hybrids
- Plug-in/CAT-ERS

Climate protection and resilience
Sustainable value chain

T&L companies should adopt a value chain perspective on sustainability

T&L value chain linked to ESG factors

- **Procurement** (e.g. rolling stocks, fuel, infra)
- **Inbound transport** (subcontractors – drivers)
- **Services** (e.g. custom clearance)
- **Warehousing** (in house or outsourced)
- **Delivery** (subcontractors – drivers)
- **Returns** (subcontractors – drivers)

**Environment**

**Social**

**Governance**

Implications for T&L companies

- Ensuring a holistic overview of the value chain (scope 3 including supply chain) ensures more transparency over business practices, drivers’ working conditions as well as overall CO2 emissions (e.g. DHL subcontractors generate 80% of total GHG emissions).
- To ensure transparency, a supplier code of conduct, subcontractor management system, as well as regular reporting should include environmental performance.
- T&L companies should maintain a close relationship with their subcontractors in order to ensure:
  - Transparency and management of environmental footprint (CO2 emissions)
  - Compliance with standard working conditions
  - Compliance with regulations and business requirements
  - Achievement of climate protection goals
The potential of circularity should be embraced by the T&L industry

**Circularity**

### Logistics playing field

- **Customers**
  - Extraction
  - Supplier
  - Production
  - Warehouse
  - Distribution and fulfillment
  - Control Tower
  - Customer (B2B and B2C)

- **Supplier**
  - Production
  - Warehouse

- **OEM**
  - Extraction
  - Supplier
  - Production
  - Warehouse

- **Control Tower**
  - Service platform (recycling)
  - Service platform (refurbishment/repair, remanufacture)

- **Other destinations**
  - Repurposing

- **Service platform**
  - Recycling
  - Collection/sorting/dismantling

### Circular business models for T&L examples
- Industry solutions for circularity
- Reverse logistics solutions
- Mobility as a service

### Circular ops/cost opportunities examples
- Circular procurement/design of fleet
- Improved fleet utilization (empties)
- Sharing/collaboration on last mile
- Refurbishment/remanufacturing

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A couple of T&L companies are pushing ahead with sustainability target setting and reporting

<table>
<thead>
<tr>
<th>Managing own impact on climate: Science-based targets for greenhouse gas emissions</th>
<th>Reporting on climate impact: Rating by Carbon Disclosure Project</th>
</tr>
</thead>
</table>
| **DSV Panalpina** | **A+**
| **Österreichische Post** | Leadership level with world’s most pioneering companies leading on environmental transparency and performance |
| **Deutsche Bahn** | **A-**
| **La Poste** | Leadership level with leading companies to address environmental risks |
| **Post NL** | **B**
| **Deutsche Post** | Management level |
| **Kühne + Nagel** | **F**
| **Maersk** | Not sufficient information |

- Several major T&L companies are driving the climate agenda already
- Bulk of T&L companies are lagging behind

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Sources: Carbon Disclosure Project (CDP), Task Force for Climate-Related Financial Disclosure (TCFD), Sciencebased.targets.org
We help you embark on your sustainability journey in five steps

1. **Awareness raising and baselining**
   - Align on ESG factors and importance for stakeholders
   - Understand current “sustainability/ESG ambition”
   - Analyze current sustainability initiatives
   - Assess and align current internal initiatives

2. **Stakeholder identification and materiality analysis**
   - Identify key internal and key external stakeholders
   - Prepare and execute stakeholder engagement on material topics
   - Evaluate results of stakeholder engagement
   - Prioritize ESG topics for materiality matrix

3. **Sustainability strategy incl. material topics**
   - Understand strategic roadmap
   - In alignment with top management team
   - Select relevant ESGs and prioritize
   - Create high level ESG/sustainability story
   - Conduct investor validation discussions for refining strategy alignment and target setting

4. **Target setting and sustainability roadmap**
   - Decide upon ambition level for material topics
   - Determine appropriate KPI targets
   - Conduct gap analysis between ambition level/current targets/initiatives
   - Define complementary initiatives to achieve KPI targets
   - Define organizational needs to achieve ambition

5. **Communication concept incl. reporting**
   - Refine and detail ESG/sustainability story
   - Understand regulatory requirements in relevant operating countries
   - Define positioning and communication concept
   - Draft report outline for a non-financial report

Driving the sustainability agenda in T&L

Strategy&
We support you in your journey towards a more sustainable future from strategy through execution

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Strategy through execution
Capability driven strategy allowing an end-to-end transformation until final implementation

Industry expertise
Strong expertise in Transport and Logistics but also with your clients’ industries (e.g. Industrial Manufacturing, Automotive, Aerospace, Chemicals, Retail)

Functional expertise
Global network of experts, researchers and academics with regards to sustainability (frameworks, materiality assessment)

Holistic perspective
Combination of strategy, management, technology, deals, risk, tax and assurance capabilities – all focusing on sustainability topics