

OLIVER WYMAN INTRODUCTION SUPPORTING BUSINESSES ON CLIMATE CHANGE PROJECTS IN A WIDE RANGE OF INDUSTRIES

VISION AND LEADERSHIP

Set goals and organize to achieve them

FINANCIAL RISK AND OPPORTUNITY

Assess true portfolio exposure and how to respond

INDUSTRY SYSTEM SOLUTIONS

Re-engineer operations, business models, and end-to-end value chains

PROPOSITIONS TO STAKEHOLDERS

Gain the participation of customers, colleagues, regulators and investors





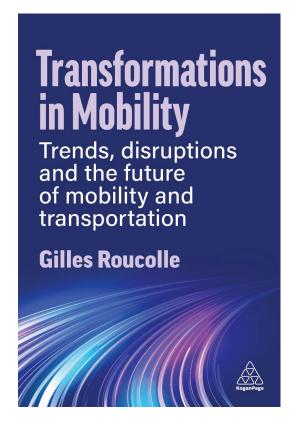






BACKGROUND: TRANSFORMATIONS IN MOBILITY

The Book



Overview

- Author: 30+ year
 experience in high-stakes
 strategic and operational
 projects worldwide around
 Mobility
- 35 experts & leaders' interviews
- OW Mobility Forum's research
- Trends, Disruptions and New perspectives on the future of Mobility

Chapters

- 1 The Great Fragmentation
- 2 The Steel Backbone
- 3 Designing Futures
- 4 Two Keys to Growth
- 5 The Global Illness
- 6 New Values for A New Era

Decarbonizing the mobility value chain Aviation's greatest challenges Electrification as opportunity for China

- 7 Digital Connections
- 8 Smart Ways to Use Capacity
- 9 Future Visions

Leaders' panel

(and relevant past or current organizations)

- Bernard AMORY, Jones
 Day
- Alexandre BAYEN, UC Berkeley
- Fabrice BREGIER, Airbus
- Olivier BROUSSE, Veolia, John Laing
- Gwendoline CAZENAVE, SNCF, Eurostar
- Paul-Marie CHAVANNE, GeoPost
- James CHERRY, Alstom, Airport of Montreal
- Tai CHONG CHEW, Arup
- Deepak CHOPRA, Canada
 Post Corporation
- Mike COOPER, Eurostar,
 Arriva
- Barbara DALIBARD, SNCF
- Alexandre DE JUNIAC, Air
 France KLM, IATA
- Joris D'INCA, Oliver
 Wyman
- Josef DOPPELBAUER, European Union Agency for Railways
- Rupert DUCHESNE, Air Canada, Aeroplan
- Jean-Pierre FARANDOU, SNCF
- Xavier HUILLARD, Vinci
- Marc IVALDI, Toulouse School of Economics

- Patrick JEANTET, SNCF
 - Mark JOSEPH, Transdev
 - Andrew LEZALA, Metro Trains Australia
 - Marie-Christine LOMBARD, Geodis
 - Pierre LORTIE, Bombardier
 - Jean-Pierre LOUBINOUX, SNCF
 - Frederic MAZZELLA, BlaBlaCar
 - Jean-Marie METZLER, SNCF
 - Andre NAVARRI, Bombardier
 - Rana NAWAS, Oliver Wyman
 - Guillaume PEPY, SNCF
 - Hugh RANDALL, Oliver Wyman
 - **Sumati SHARMA**, Oliver Wyman
 - Adrian SLYWOTZKY, Oliver Wyman
 - Guillaume THIBAULT, Oliver Wyman
 - Laurent TROGER, Bombardier
 - Andrew WATTERSON, Southwest Airlines

MOST RAILWAYS AIM TO DEFINE THEIR NET ZERO STRATEGY AND SECURE COMPLIANCE

CONTEXT

- Sustainability is not only a mandatory requirement but also a significant business opportunity
- Several initiatives have been initiated on multiple fronts:
 - Compliance / risks assessment process for TCFD
 - Emissions mapping
 - SBTi targets for parts of the business
 - Supply Chain scoring
- The overall complexity is accrued by other factors:
 - Business Plans target an ambitious growth
 - The regulatory and compliance environment is evolving
 - Financing / Refinancing poses additional sustainability constraints
- Ambition to build a strategic and holistic approach to sustainability, that feeds and augments railway's strategic positioning

STRATEGIC OBJECTIVES



A REGULATIONS CARPET BOMBING IS COMING

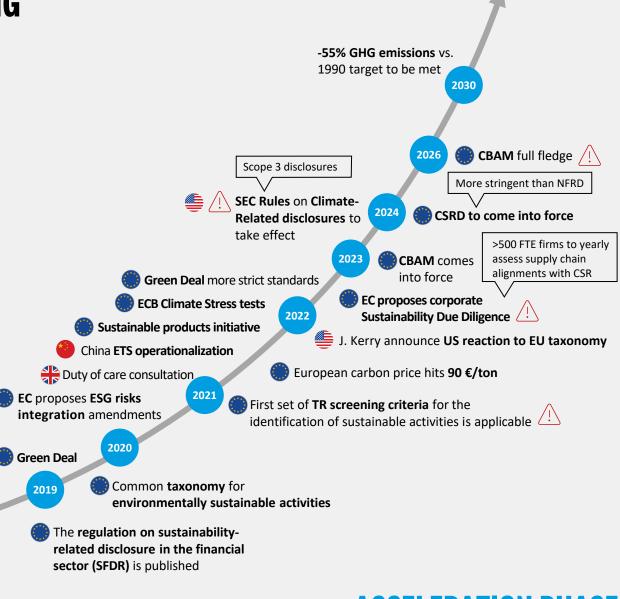
~20-30

Regulations in the coming 5 years

EC: European Commission, CSRD: Corporate Sustainability Reporting Directive, TR: Taxonomy Regulation, SEC: Securities and Exchange Commission, SFDR: Sustainable finance disclosure regulation, SII: Solvency II, NFRD: Non-Financial Reporting Directive, TCFD: Task Force on Climate-related Financial Disclosures

•Source: European Commission website, press releases, Oliver Wyman analysis





ACCELERATION PHASE

SUSTAINABILITY LEADERS SET THE TONE FOR THEIR INDUSTRY AND BECOME "MARKET MAKER"



Anticipate to lead their industry

Strictly assess "game changer" disruption impacts

Operationalize net zero plan through rethinking the whole business design

Embody **leadership** via bold strategic moves

Reboot their value proposition

Design client **green offer** and enlarge to carbon as a service

Shape **inspiring narratives**

Unlock **green premium** through **innovation**

Reinvent their business systems

Build ecosystems to decarbonize and secure green resources

Transition to circular business models

Implement sustainable procurement and supply chain

Anchor sustainable operating models

Engage the whole organization and adjust
future-oriented capabilities

Build robust data systems to maximize disclosure premium

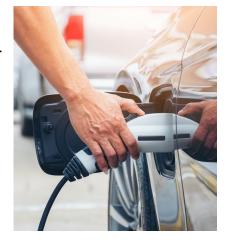
Implement new carbon financing models

SUSTAINABILITY LEADERS TAKE BOLD MOVES BY 2030

100% of products¹ reparable in workshops or by customers by 2026



Become an electriconly car maker by 2030



80% of revenues generated by sustainable solutions by 2025 (70% in 2021)



DEC4THLON



Schneider Electric



Make its menu 50% meat-free in the UK by 2030



Make 90% of its shoes recycled or recyclable by 2025



Become circular in 2030 and buy back furniture from customers







1. Reparable ones | Source: Philip Morris International, Volvo Cars, McDonalds, Burger King, WholeFoods, Adidas, Statista

SUSTAINABILITY LEADERS BENEFIT FROM THE "LEADERSHIP PREMIUMS" FROM FINANCIAL MARKETS



Financial premium

- Market cap growth: CDP A-Listed stock market cap grew 17% higher than normal companies' stock in 2021
- Remuneration: ~30% higher stock return vs. normal stocks¹
- Cost of capital Renewables average WACC was 37% lower than oil and gas over 2010 – 2019
- Financial institutions in EU will rotate 30+% of their portfolio to reach their NZ targets, 600 investors using CDP information



Competitive advantage

- Products marketed as sustainable have a 5X faster growth than normal products
- **~30%** Consumers' sustainability practices are **driven by peer pressure**
- 1/3 Consumer sees himself as environmental change key driver



Setting the industry standards

- Leaders are rating agencies' standard:
 Total emissions could be cut by 40-50% if all companies caught up with the leaders in each sector
- Leaders set the tone for whole industry through defining standard on which the others will have to align

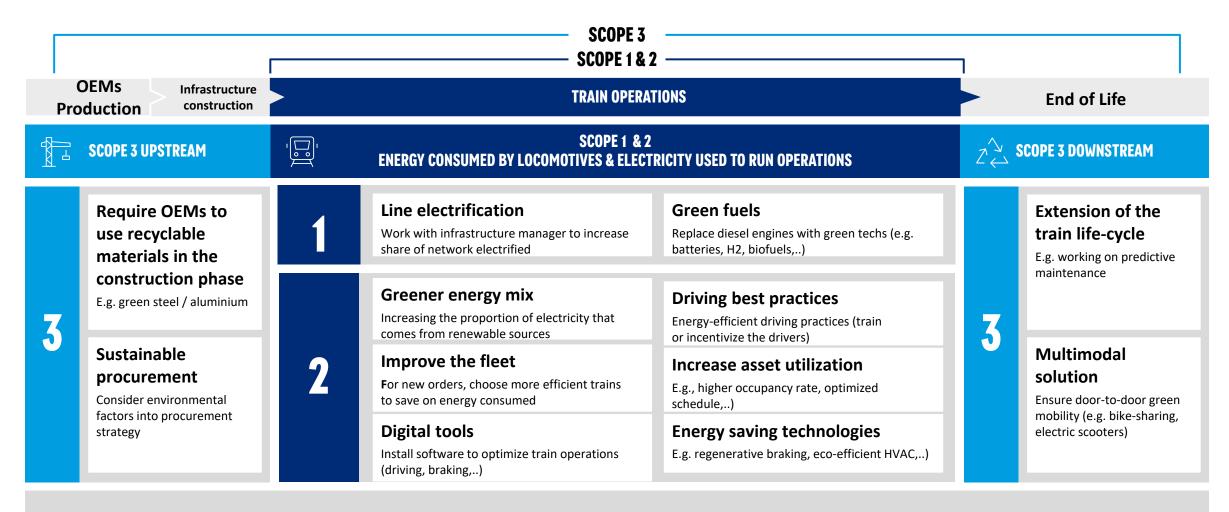
Potential emission reduction in MN tonnes CO₂e (scope 1 & 2) by sector



RAIL PLAYERS ARE RESPONDING TO THE CHANGE BY TAKING ACTIONS ON SCOPE 2 AND SCOPE 3 EMISSIONS

Railway operator	Scope 2 emissions			Scope 3 emissions
	100% green electr. goal to fuel trains	Current % of renewable sources in the traction mix	Examples of initiatives	Examples of initiatives
DB	2038 (80% by 2030)	62,4 %	 DB long-distance electric trains are already running 100% using green energy Starting in 2024, DB trains will operate with renewable energy purchased from the Amrumbank West offshore wind farm 	 DB elected 200 environmental professionals to coordinate the implementation of green projects, ensure adherence to environmental regulations, identify environmental risks Part of Railsponsible
SBB CFF FFS	2025	90 %	SBB owns seven hydropower plants to fuel its trains	 SBB has been using recycled asphalt since 2020 in the construction of their station platforms. Using this mix instead of asphalt allows SBB to reduce by 25% the environmental impact of building a platform. Part of Railsponsible
SVCF	2035 (40% to 50 % by 2025)	Not available	 Purchase renewable: as from 2023, SNCF Energy has signed a 20-year contract with EDF Renewables to buy 25 gigawatts of renewable energy generated by a solar farm, opening in 2023 Generating renewable: SNCF rolls out rooftop solar installations progressively at all major facilities, spanning as much as 160 000 m² set up solar panel on site 	 SNCF: 97% of the TGV M materials are recyclable SNCF Réseau committed a partnership with green rail producers with the objective to produce green rails by 2030. Part of Railsponsible
⇔	Since 2017	100%	 In 2014, NS concluded a long-term power supply contract with energy provider Eneco, and wind farms were built for the purpose Half of the necessary power is sourced domestically, and the other half comes from wind farms in Sweden, Finland and Belgium 	Part of Railsponsible
FERROVIE DELLO STATO ITALIANE	Not available	Not available	 FS aims to self-produce at least 40 % of its energy needs using renewable sources by installing photovoltaic and wind power systems in stations and railway areas (2022-2031 industrial plan). 	Part of Railsponsible

THIRTEEN LEVERS TO DECARBONIZE THE RAIL VALUE CHAIN AND GO BEYOND BY SHIFTING FROM OTHER TRANSPORT MODE TO RAIL



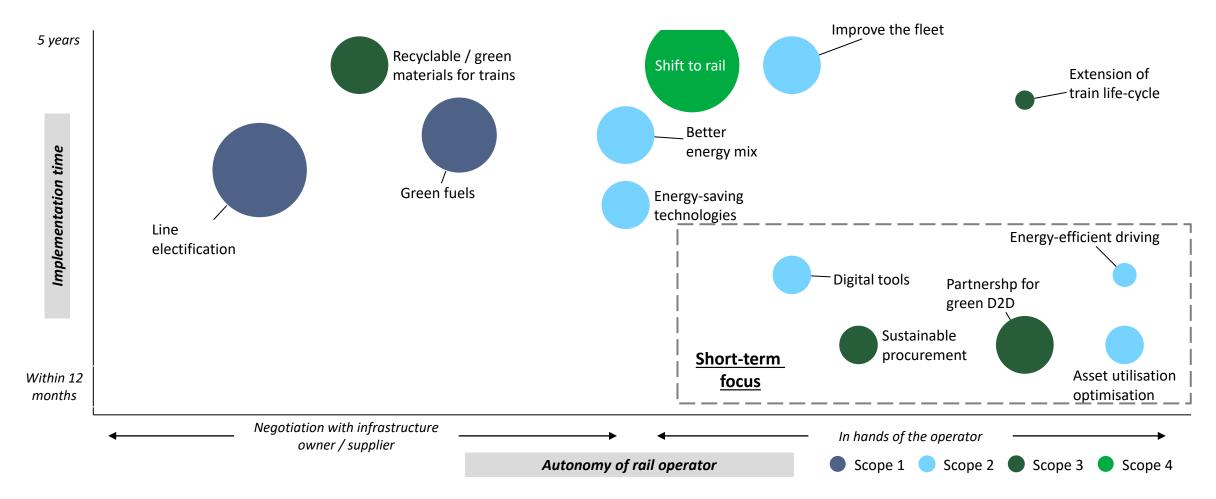
BEYOND RAIL VALUE CHAIN (BEYOND SCOPE 1, 2, 3): SHIFT FROM OTHER TRANSPORT MODE TO RAIL

OPPORTUNITY TO IDENTIFY AND SELECT SUSTAINABILITY IMPROVEMENT INITIATIVES TO REDUCE THE CARBON FOOTPRINT

Mapping of rail decarbonization initiatives

Illustrative

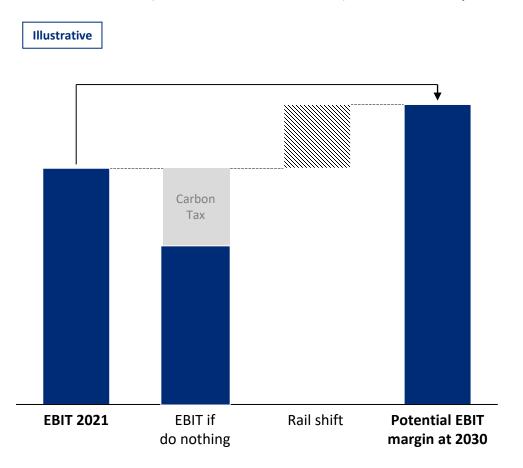
Degree of tech maturity vs. rail operator autonomy (size of the bubble represents the expected impact in CO2 reduction)



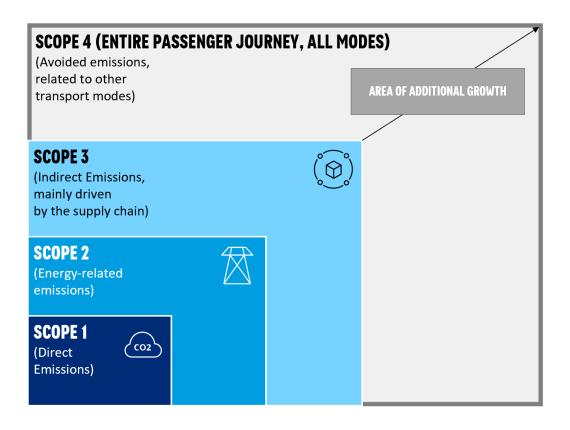
A RAIL SUSTAINABILITY LEADER CAN FIND GROWTH OPPORTUNITIES IN TACKLING SCOPE 4 EMISSIONS RELATED TO OTHER MODES OF TRANSPORT

Opportunity for rail operator to capture modal share

EBIT evolution (index: EBIT 2021=100), for EU rail operator



Additional growth area in Scope 4



WORKING ON LEVERS TO SHIFT TO RAIL IS ALSO KEY AS DEUTSCHE BAHN DID WITH ITS "DEUTSCHLANDTICKET" FLAT-FEE PUBLIC TRANSPORT CARD

The initiatives

- The 9-euro ticket was **temporary flat rate ticket**, from June to August 2022, for local and regional transport all over Germany
- The successor of the 9-euro initiative, is a €49
 monthly subscription ticket that will be available
 for services from 1st of May 2023
- The financing of this 3-billion-euro initiative, would be split evenly between the federal and state governments
- DB experience an unexpected flow of Shit to Rail demand. While the offer was initially created to fight inflation, it may be reconducted due to its impact on financials but also overall sustainability aspects

Impact of the 9-euro ticket initiative





