SOLVEIG GASCHE

Responsible Trading in Raw Materials

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Holger Fleischer und Ralf Michaels



Solveig Gasche

Responsible Trading in Raw Materials

Regulatory Challenges of International Trade in Raw Materials Solveig Gasche, born 1989; studied law in Hamburg, Lisboa and Berlin; in 2014 first state law examination in Berlin; research assistant at the Institute for Maritime Law and Maritime Trade Law at the University of Hamburg; 2021 dissertation (Hamburg); trainee lawyer at the Hanseatic Higher Regional Court. orcid.org/0000-0002-2537-0302

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Preface

This book emerged from my dissertation entitled "Regulatory Challenges of International Trade in Raw Materials – The Governance Concept of Responsible Trading", which I wrote as part of my work as a research assistant at the Institute for Maritime Law and Maritime Trade Law at the University of Hamburg under the auspices of Prof. Dr. Dr. h. c. Marian Paschke. I defended the dissertation at the Faculty of Law of the University of Hamburg in December 2021. For the publication, I considered case law and literature up to April 2021. The following comments add completion and contextualisation for legislative activities and political events of relevance concerning the regulation of raw materials since then.

In autumn 2021, Germany adopted the Lieferkettensorgfaltspflichtengesetz (Supply Chain Act), an implementation of the previous draft with only minor deviations. Thus, in Germany, a societal-normative change from a social market economy to a social-ecological market economy is taking place. The same transformation is also taking shape, and seeing further developments, in the European Union. On 23 February 2022, the Commission of the European Union published a proposal for a directive on corporate sustainability due diligence. The directive would foster sustainable and responsible corporate behaviour and anchor human rights and environmental considerations in company operations and corporate governance. Thus far, the proposal provides for corporate liability in cases of non-compliance. This represents a turnaround on the part of the European Union, from regulation through voluntary or soft transparency or reporting obligations to regulation through hard sanctioning mechanisms, including a corporate civil liability regime. The proposal has stimulated and promoted the debate on "environmental-social governance". This book both contributes to this general debate on environmental social governance and to specific governance challenges in the extractive raw materials sector.

On 24 February 2022, the EU Commission imposed restrictive measures on Russia in response to Russia's military aggression against Ukraine. Since then, the EU Commission has imposed many more sanctions on Russia, and the question of resource supply has suddenly been brought into public focus to a much greater extent. The Russia-Ukraine war shows that restrictive measures represent a considerable and consequential means of foreign trade. Moreover, this war violently demonstrates that the aspect of raw materials supply security is

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of existential importance, especially for the raw materials importing countries. The threat to their own supply of raw materials then becomes a determining factor for (foreign trade) policy and action. Whether the implementation of the responsible trading governance concept in the raw materials sector will succeed under these conditions remains open. Nevertheless, these circumstances could be a turning point. The EU Commission's proposal for a directive on corporate sustainability due diligence shows that a corresponding legislative will does indeed exist.

The latest developments demonstrate that regulatory challenges come up constantly in the raw materials sector. They also show how important it is to look at them thoroughly. Thus, I would like to thank some of the people who granted me the time and freedom to take a thorough look as well as those who accompanied and supported me over the course of my dissertation.

First, I would like to take this opportunity to express my special thanks to my doctoral supervisor Prof. Dr. Dr. h. c. Marian Paschke, both for the instructive and enriching time at the chair as well as for his enthusiasm and perseverance with my doctoral topic. I will always look back on this time with joy. Without his confidence, trust (both in me and in the success of the research) and conviction in the necessity of responsible trade, this research would have neither started nor been completed. I would also like to thank him for his continued questioning, motivation and valuable suggestions, without which I would not have persevered.

I would also like to thank my dissertation's second examiner, Prof. Dr. Hinrich Julius, who thankfully examined and critically appraised it at lightning speed and enriched it holistically through his comments.

I was very fortunate that Prof. Dr. Peter Mankowksi was able to accompany me through my disputation with his sunny disposition, challenging questions and critical annotations. His influence was formative of my interest in private international law. Therefore, I am very grateful to him posthumously, and I will retain very fond memories of him.

I would also like to thank the directors of the Max Planck Institute for Comparative and International Private Law in Hamburg for including my work in this series. I would like to thank the Institute and the publishing house Mohr Siebeck for their friendly and helpful cooperation during the printing process.

I would also like to express my sincere gratitude to Prof. Dr. Christine Windbichler for her open, warm and motivating guidance during my doctoral studies and for her confidence in the success of women in law.

I would also like to thank the German Academic Exchange Service for the generous doctoral scholarship that enabled me to spend time researching in Brazil. Direct involvement, with both jurisprudential and public debate in a country like Brazil where extractive (especially mining) industries enjoy high social and economic status, was particularly instructive. I am thankful to Prof. Dr. Nora

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Markard for the support in preparing my research stay in Brazil. I would like to take this opportunity to thank Prof. Dr. Leonardo Martíns for his warm welcome and support on site in São Paulo. I would also like to thank Alessandro Colucci from the German-Brazilian Chamber of Industry and Commerce in São Paulo for always having a sympathetic ear, for the valuable discussions and comments, and for his important connections in the Brazilian mining industry.

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I would like to thank the Faculty of Law of the University of Hamburg and the Equal Opportunities Department of the Faculty for welcoming me and providing me with a wide range of training and networking opportunities as part of the Magdalene Schoch Mentoring Programme. My sincere thanks go to the Faculty for the generous graduation scholarship, which made it much easier for me to reconcile childcare with completing my doctorate during the pandemic.

I thank my colleagues for a marvellous time at the chair and the Faculty. In particular, I am very grateful for wonderfully inspiring and light-hearted times spent with Alex, Arne, Hanno, Helen, Mareike, Naemi, Pauline, Raoul, Sezgi, Susanne and Svenja on and off campus.

Without extensive support from my family, I would probably not have been able to successfully complete my doctorate. A big thank you, therefore, to my parents, Sigrid and Hans-Erich, who made my studies possible in the first place. Thank you for always being there for me and for covering for me, even in face of the chaos of family life, for being unconditionally sympathetic to my many years of education, with undergraduate and graduate study and traineeship, and for supporting me so generously from the time I matriculated to the time this book went to press.

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Hamburg, September 2022

Solveig Gasche

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List of Abbreviations and Acronyms

Journal abbreviations and similar formulations are listed in the bibliography.

3TG Tantalum, Tin, Tungsten and Gold AA Auswärtiges Amt (Foreign Office)

Aff. Affirmative

AFP Analytical Fingerprint

ANM Agência Nacional de Mineração (Brazilian National Mining

Agency)

Art. Article

ASM Artisanal and Small-Scale Mining BCOM Bloomberg Commodity Index

BDI Bundesverband der deutschen Industrie (Federation of German

Industries)

Berlin Consensus Berliner CSR-Konsens zur Unternehmensverantwortung in Liefer-

und Wertschöpfungsketten (Berlin Consensus)

BGH Bundesgerichtshof (Federal Court of Justice)

BGR Bundesanstalt für Geowissenschaften und Rohstoffe (Federal

Institute for Geosciences and Natural Resources)

BGR MPI German BGR metal price index

BM&FBOVESPA Bolas de Valores, Mercadorias e Futuros de São Paulo

BMAS Bundesministerium für Arbeit und Soziales (Federal Ministry of

Labour and Social Affairs)

BMF Bundesministerium für Finanzen (Federal Ministry of Finance)
BMU Bundesministerium für Umwelt, Naturschutz und nukleare Sicher-

heit (Federal Ministry for the Environment, Nature Conservation

and Nuclear Safety)

BMWI Bundesministerium für Wirtschaft und Energie (Federal Ministry

for Economic Affairs and Energy)

BMZ Bundesministerium für wirtschaftliche Zusammenarbeit und

Entwicklung (Federal Ministry for Economic Cooperation and

Development)

BVerfG Bundesverfassungsgericht (Federal Constitutional Court)

CBOT Chicago Board of Trade

CC Conseil Constitutionnel (French Constitutional Court)

cf. confer (compare)

CFEM Compensação Financeira pela Exploração de Recursos Minerais

(Brazilian Financial Compensation Mechanism for the Exploration

of Mineral Resources)

CFTC Commodity Futures Trading Commission

CIF Cost Insurance Freight

CJEU Court of Justice of the European Union

CME Chicago Mercantile Exchange

CMRT Conflict Minerals Reporting Template

Covid-19 Corona Virus Disease 2019 caused by SARS-COV-2 (Severe

Acute Respiratory Syndrome Coronavirus-2)

CRIRSCO Committee for Mineral Reserves International Reporting Stand-

ards

CSR Corporate Social Responsibility
CTC Certified Trading Chains

DCGK German Corporate Governance Code (DCGK)

DERA Deutsche Rohstoffagentur (Mineral Resources Agency)

DG Directorate-General

DIHK Deutscher Industrie- und Handelskammertag (German Association

of Chambers of Commerce and Industry)

D&O insurance DRC Directors' and Officers' Insurance Democratic Republic of the Congo

DU Depleted Uranium

EBA European Banking Authority ECB European Central Bank

EFTA European Fair Trade Organisation

e. g. Example Given

EIOPA European Insurance and Occupational Pensions Authority

EITI Extractive Industries Transparency Initiative

EP Equator Principles

EPRM European Partnership for Responsible Minerals ESFS European System of Financial Supervision

ESG Environmental Social Governance

ESMA European Securities and Market Authority

ESRB European Systemic Risk Board

et al. et alii (and others)
EU European Union

EU RMI EU Raw Materials Initiative f. following page/recital ff. following pages/recitals

FOB Free on Board FOR Free on Rail

FTA Free Trade Agreement

FTAA Free Trade Area of the Americas FPIC Free, Prior, and Informed Consent

German NAP German National Action Plan Implementation of the UNGPs

UNGP

GeSI Global e-Sustainability Initiative
GRI Global Reporting Initiative
GTAI Germany Trade & Invest

HG Haushaltsgesetz (Federal Annual Budget Law)

HIF Helmholtz-Institut Freiberg für Ressourcentechnologie (Helmholtz

Institute for Resource Technology)

i. a. inter alia

IBRAM Instituto Brasileiro de Mineração (Brazilian National Institute

for Mining)

ICC International Chamber of Commerce ICE Intercontinental Exchange Futures U. S.

ICGLR International Conference of the Great Lakes Region

ICJ International Court of Justice

ICMM International Council on Minerals and Metals
ICSG UN International Copper Study Group
IFC International Finance Corporation
ILC UN International Law Commission
ILO International Labour Organisation

ILZSG UN International Lead and Zinc Study Group

IMA Interministerieller Ausschuss Rohstoffe (Inter-ministerial

Committee for Resources)

 INSG
 UN International Nickel Study Group

 IPC
 Integrated Programme for Commodities

 IPIS
 International Peace Information Service

IQS International Quota System IRP International Resource Panel

ISO International Organisation for Standardisation

ISS International Stock System iTSCi ITRI Tin Supply Chain Initiative

KfW IPEX-Bank KfW Internationale Projekt- und Exportfinanzierung Bank

KPCS Kimberley Process Certification Scheme

lit. littera

LME London Metal Exchange LSM Large-Scale Mining

MERCOSUR Mercado Comum do Sur (Common Market of the South)

NAP National Action Plan

NDRC Chinese National Development and Reform Commission

NGO Non-Governmental Organisation
NMC National Mining Company
NYCE New York Cotton Exchange
NYMEX New York Mercantile Exchange

OECD Organisation for Economic Co-operation and Development
OECD Common
Approaches
OECD Recommendation of the Council on Common Approaches
for Officially Supported Export Credits and Environmental and

Social Due Diligence

OECD DDG OECD Due Diligence Guidance for Responsible Supply Chains

of Minerals from Conflict Affected and High-Risk Areas

OECD DDG OECD Due Diligence Guidance for Meaningful Stakeholder

Meaningful Engagement in the Extractive Sector

Stakeholder

Engagement

OECD DDG OECD Due Diligence Guidance for Responsible Business Conduct

Responsible Business Conduct

OECD Guidelines OECD Guidelines for Multinational Enterprises

OHCHR UN Office of the High Commissioner for Human Rights

OPEC Organisation of Petroleum Exporting Countries

OTC Over the Counter

p. page

PIL Private International Law

pp. pages

PL Projeto de Lei (Brazilian Draft of Law)

PNM Plano Nacional de Mineração 2030 (Brazilian National Mining

Plan)

ProgRess German Resource Efficiency Programme

RBA Responsible Business Alliance

Rec. Recital

RMAP Responsible Minerals Assurance Process

RMI Responsible Minerals Initiative RSN Responsible Sourcing Network

S. Sentence

SDG UN Sustainable Development Goals SEC US Securities Exchange Commission

SHFE Shanghai Futures Exchange

SITC Standard International Trade Classification SME Small and Medium-sized Enterprise

UK United Kingdom

UK NAP UNGP UK NAP Good Business

UN United Nations

UNCTAD United Nations Conference on Trade and Development

UNEP United Nations Environment Program

UNGP UN Guiding Principles on Business and Human Rights

UN-Habitat UN Human Settlement Programme

UN-Norms UN Norms on the Responsibility of Transnational Corporations

and Other Business Enterprises with regard to Human Rights

UN SDG UN Sustainable Development Goals

UNTS United Nations Treaty Series US United States of America

VPSHR Voluntary Principles on Security and Human Rights

WFTO World Fair Trade Organisation WTO World Trade Organisation

List of Statutes and Agreements

Agenda 21 United Nations Conference on Environment & Development, Rio

de Janeiro, Brazil, 3 to 14 June 1992, Agenda 21

AktG Aktiengesetz (Stock Corporation Act)
AMSA Australian Modern Slavery Act 2018

ArbSchG Arbeitsschutzgesetz (Protection of Labour Act)

ASR UN Draft Articles on Responsibility of States for Internationally

Wrongful Acts

ATG Gesetz über die friedliche Verwendung der Kernenergie und den

Schutz gegen ihre Gefahren (Atomic Energy Act)

Atlantic Charter Atlantic Charter, Joint Declaration of President Roosevelt and

Prime Minister Churchill from 1941

ATS US-American Tort Statute

BauGB Baugesetzbuch (Building Law Code)
BBerg Bundesberggesetz (Federal Mining Code)

BBodSchG Gesetz zum Schutz vor schädlichen Bodenveränderungen und zur

Sanierung von Altlasten (Federal Soil Protection Act)

BGB Bürgerliches Gesetzbuch (Civil Code)

BNatSchG Bundesnaturschutzgesetz (National Nature Conservation Act)
Brussels 1968 Brussels Convention on Jurisdiction and the Enforcement

Convention of Judgments in Civil and Commercial Matters

Brussels I Council Regulation (EC) No 44/2001 of 22 December 2000

on jurisdiction and the recognition and enforcement of judgments

in civil and commercial matters

Brussels I Recast Regulation (EU) No 1215/2012 of the European Parliament and

of the Council of 12 December 2012 on jurisdiction and the recognition and enforcement of judgments in civil and commercial

matters (recast), OJEU L 351/1, 20 December 2012

CEA US-American Commodity Exchange Act

CETA Comprehensive Economic and Trade Agreement between Canada

and the EU and its Member States

CISG UN Convention on Contracts for the International Sale of Goods

Code Civil (French Civil Code)

Code de Commerce (French Commercial Code)

Commerce

Conflict Minerals Regulation (EU) 2017/821 of the European Parliament and of the Regulation Council of 17 May 2017 laying down supply chain due diligence

Council of 17 May 2017 laying down supply chain due diligence obligations for Union importers of tin, tantalum and tungsten, their

ores, and gold originating from conflict-affected and high-risk

areas

CSR Directive Directive 2014/95/EU of the European Parliament and of Council

of 22 October 2014 amending Directive 2013/34/EU as regards disclosure of non-financial and diversity information by certain

large undertakings and groups

CSR-RUG Gesetz zur Stärkung der nichtfinanziellen Berichterstattung der

Unternehmen in ihren Lage- und Konzernberichten (CSR-Richtlinie-Umsetzungsgesetz) (Implementation Act of the CSR Direc-

tive)

Dodd-Frank Act DR-CAFTA Dodd-Frank Wall Street Reform and Consumer Protection Act Dominican Republic-Central America Free Trade Agreement Deutscher Rahmenvertrag (German Master Agreement)

DRV Deutscher Rahmenvertrag (German Master Agreement)
DSU WTO Understanding on Rules and Procedures Governing the Set-

tlement of Disputes

EMA European Master Agreement

ENWG Energiewirtschaftsgesetz (Energy Industry Act)

EU-Chile Associa- 2002 EU-Chile Association Agreement

tion Agreement

EU Council Directive 98/29/EC on harmonisation of the main provisions concerning export credit insurance for transactions

98/29/EC with medium and long-term cover, OJEU L 148/22

EU Council Regulation (EC) No 806/2003 of 14 April 2003 adapting to Decision 1999/468/EC the provisions relating to committees which assist the Commission in the exercise of its implementing powers laid down in Council instruments adopted in accordance

with the consultation procedure (qualified majority)

Directive 2005/29/EC of the European Parliament and of the

EU Directive 2005/29/EC

Council of 11 May 2005 concerning unfair business-to-consumer commercial practices in the internal market and amending Council Directive 84/450/EEC, Directives 97/7/EC, 98/27/EC and 2002/65/EC of the European Parliament and of the Council and Regulation (EC) No 2006/2004 of the European Parliament and of

the Council (Unfair Commercial Practices Directive)

EU Directive 2008/48/EC

Directive 2008/48/EC of the European Parliament and of the Council of 23 April 2008on credit agreements for consumers and

repealing Council Directive 87/102/EEC

EU Directive 2008/98/EC Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, OJEU L 312/3

EU Directive 2012/19/EU of the European Parliament and of the 2012/19/EU Council of 4 July 2012 on waste electrical and electronic equip-

ment

EU Directive 2014/17/EU

Directive 2014/17/EU of the European Parliament and of the Council of 4 February 2014 on credit agreements for consumers relating to residential immovable property and amending Directives 2008/48/EC and 2013/36/EU and Regulation (EU)

No 1093/201

EU Directive 2014/65/EU

Directive 2014/65/EU of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments and amending Directive 2002/92/EC and Directive 2011/61/EU (re-

cast)

Council Regulation (EC) No 834/2007 of 28 June 2007 on organic EU Eco-Basis production and labelling of organic products and repealing Regu-Regulation lation (EEC) No 2092/91 (EU Eco-Basis Regulation) EU GSP Regulation Regulation (EU) No 978/2012 of the European Parliament and of the Council of 25 October 2012 applying a scheme of gerenalised tariff preferences and repealing Council Regulation (EC) No 732/2008 EU Regulation Regulation (EC) No 765/2008 of the European Parliament and of (EC) 765/2008 the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation (EEC) No 339/93 EU Regulation EU Regulation 1233/2011 of the European Parliament and of the Council of November 2011 on applying specific guidelines in the (EU) No 1233/ 2011 field of officially supported export credits and repealing Council Decisions 2001/76/EC and 2001/77/EC EU Regulation Regulation (EU) No 648/2012 of the European Parliament and of (EU) No 648/ the Council of 4 July 2012 on OTC derivatives, central counter-2012 parties and trade repositories EU Regulation Regulation (EU) No 600/2014 of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments (EU) No 600/ and amending Regulation (EU) No 648/2012 2014 EU-Ukraine 2014 EU-Ukraine Association Agreement Association Agreement European Charter Charter of Fundamental Rights of the European Union, 2012/C 326/02 **GATS** General Agreement on Trade in Services **GATT** General Agreement on Tariffs and Trade GenG Genossenschaftsgesetz (Cooperative Societies Act of the German Empire) GenTG Gesetz zur Regelung der Gentechnik (Act on Genetic Engineering) GeoIDG Geologiedatengesetz (Geological Data Act) GG Grundgesetz (Constitution) **GPA** Government Procurement Act HaftPflG Haftpflichtgesetz (Liability Act) Havana Charter Final Act and Related Documents of the UN Conference on Trade and Employment held at Havana, Cuba, from November 21, 1947 to March 24, 1948 **HGB** Handelsgesetzbuch **ICESCR** International Covenant on Economic, Social and Cultural Rights International Sugar International Sugar Agreement of 1937 Agreement International Wheat International Wheat Agreement 1971, United Nations, Treaty Series, UNTS Vol. 1146, A-1140 Agreement ISDA MA International Swaps and Derivatives Association Master Agreement ISO 26000:2010 ISO 26000:2010, Guidance on Social Responsibility

Bundes-Klimaschutzgesetz (Climate Change Protection Act)

KLS

Loi de Vigilance Loi n° 2017-399 du 27 mars 2017 relative au devoir de vigilance

des sociétés mères et des enterprises donneuses d'ordre in France

(French Vigilance Act)

Loi Pacte Loi n° 2019-486 du 22 mai 2019 relative à la croissance et la

transformation des entreprises (French Act on Business Growth

and Transformation)

LuftVG Luftverkehrsgesetz (Air Transportation Act)

MarkenG Markengesetz (Trademark Act)

PL 5.807/2013 Novo Marco Regulatório da Mineração (Brazilian New Mining

Code)

MinRohSorgG Mineralische-Rohstoffe-Sorgfaltspflichten-Gesetz (Mineral Re-

sources Due Diligence Act)

NAWKG Gesetz zur nachhaltigen Gestaltung globaler Wertschöpfungsketten

(Sustainable Supply Chain Act Draft)

North German Federation's law for cooperative and industrial and provident societies

Gesetz, betreffend die privatrechtliche Stellung der Erwerbs- und Wirtschafts-Genossenschaften (Law of the North German Federation concerning the private legal status of cooperative and indus-

trial and provident societies)

OECD OECD Arrangement on Officially Supported Export Credits,

Arrangement TAD/PG(2020)1

OECD Common Recommendation of the Council on Common Approaches for

Approaches Officially Supported Export Credits and Environmental and Social

Due Diligence (The "Common Approaches Approaches"), TAD/

ECG(2016)3

ÖISG Gesetz über die Haftung und Entschädigung für Ölverschmut-

zungsschäden durch Seeschiffe (Liability and Compensation Act

for Oil Pollution Damage by Seagoing Vessels)

OWiG Ordnungswidrigkeitengesetz (Regulatory Offences Act)

ProdHaftG Gesetz über die Haftung für fehlerhafte Produkte (Product Liabili-

ty Act)

Prussian Tariff Act Gesetz über den Zoll und die Verbrauchssteuer von ausländischen

Waren und über den Verkehr zwischen den Provinzen des Staates

1818 (Prussian Tariff Act)

Rio-Declaration Rio Declaration on Environment and Development 1992, A/

CONF.151/26 (Vol. I)

ROG Raumordnungsgesetz (Federal Spatial Planning Act)

Rome I Regulation (EC) 593/2008 of the European Parliament and of the Regulation Council of 17 June 2008 on the law applicable to contractual ob-

ligations (Rome I)

Rome II Regulation (EC) No 864/2007 of the European Parliament and of Regulation the Council of 11 July 2007 on the law applicable to non-contrac-

tual obligations (Rome II)

SGB Sozialgesetzbuch (Code of Social Law)
StGB Strafgesetzbuch (Criminal Code)
StVG Straßenverkehrsgesetz (Road Traffic Act)

StVollzG Strafvollzugsgesetz (Law of Enforcement of Sentences)

Temporary Communication 2020/C 91 I/01 regarding the Temporary

Framework Framework for State aid measures to support the economy in the

COVID-19 outbreak

TFEU Treaty on the Functioning of the European Union (2012/C 326/1)

Trade Expansion US Safeguarding National Security of the Trade Expansion

Act Act 1962 (Trade Expansion Act)

TRIPS Trade-Related Aspects of Intellectual Property Rights

UK Companies UK Companies Act 2006, 2006 Chapter 46

Act 2006

UK Modern Slavery Act 2015, 2015 Chapter 30

Slavery Act

UMAG Gesetz zur Unternehmensintegrität und Modernisierung des An-

fechtungsrechts (Corporate Integrity and Modernization of the

Right of Avoidance Act)

UmweltHG Umwelthaftungsgesetz (Environmental Liability Act)

UN Convention 8th Convention on Biological Diversity, Rio de Janeiro, 5 June

on Biological 1992

Diversity

Union Customs Regulation (EU) 952/2013 of 9 October 2013 laying down the

Code Union Customs Code, OJEU L 269/68

USchadG Gesetz über die Vermeidung und Sanierung von Umweltschäden

(Environmental Damage Act)

UWG Gesetz gegen unlauteren Wettbewerb (Law against Unfair Com-

petition)

VAG Gesetz über die Beaufsichtigung von Versicherungsunternehmen

(Insurance Supervision Act)

VCLT Vienna Convention on the Law of Treaties

Wet Zorgplicht Wet van 24 oktober 2019 houdende de invoering van een

Kinderarbeid zorgplicht ter voorkoming van de levering van goederen en dien-

sten die met behulp van kinderarbeid tot stand zijn gekomen

(Dutch Child Labour Due Diligence Act)

WHG Gesetz zur Ordnung des Wasserhaushalts (Water Supply Regu-

lation Act)

Wirtschafts- Gesetz, betreffend die privatrechtliche Stellung der Erwerbs- und Genossen- Wirtschafts-Genossenschaften von 1868 (Industrial and Provident

schaftsgesetz Societies Act)

Chapter 1

Introduction

This introductory chapter provides a synopsis of the dissertation. First of all, section A illustrates the underlying motivation behind this thesis. Section B then highlights the core research issue and gives an overall outline of the analysis. Further on, section C classifies the methodological approach and positions this dissertation within a larger doctrinal context. Finally, section D defines the terms and scope of the respective raw materials relevant to this disquisition.

A. Motivation

Human rights violations, inadequate social and labour conditions, and environmental infringements occur as structural problems in many resource industry sectors. A striking combination of adverse socio-environmental and human rights impacts is particularly apparent in the mining industry.

For instance, in 2015 a dam failure in Mariana, Brazil caused immense toxic contamination of essential rivers and their environs. Apart from the severe and large-scale environmental damage, even today many people still die in mine collapses. In 2016 and 2017, mineworkers were trapped and killed in mine accidents and collapses in Turkey. In February 2018, more than 900 mining workers were trapped for two days in the Beatrix gold mine in South Africa. In 2019, Brumadinho, Brazil and the DRC both experienced humanitarian and environmental catastrophes caused by dam failures. In China, mining accidents represent standard incidents; for example, as recently as December, 2020, twenty-three mineworkers died in a mining accident in the Diashuidong Mine in Chongquing, and in January 2021, nine mineworkers were killed in a mine collapse in Qixia.

¹ Vedanta Resources PLC and anothers v Lungowe and others [2019] UKSC 20; Okpabi & CRS v Royal Dutch Shell Plc [2018] EWCA Civ 191; Nevsun Resources Ltd. v Araya, 2020 SCC 5; AAA and others v Unilever Plc and Unilever Tea Kenya Limited [2018] EWCA Civ 1532; LG Dortmund, Judgement of 10.1.2019 – 7 O 95/15; see also Domej, in Reinisch/Hobe/Kieninger/Peters, Unternehmensverantwortung, 229 (233 f.); Görgen, Unternehmerische Haftung, p. 66 ff.; Herdegen, Internationales Wirtschaftsrecht, § 4, Rec. 64; Hofmann/Schleper/Blome, Journal of Business Ethics 147 (2018), 115 (118); Saage-Maaβ/Hackmack, Comply 2016, 66 (66 ff.).

Unfortunately, the list of environmental and social catastrophes in raw materials extraction and trade is much longer. In the extractive industry, substantial environmental and human rights infringements, such as forced resettlement and repression, water pollution and river contamination and general adverse environmental impacts such as dust nuisances or blasting occur regularly. Especially in the artisanal and small-scale mining (ASM) sector, degrading work-place conditions and environmental pollution in the form of releases of mercury are common.

Mines also frequently collapse, and retention basins or dams fail. The humanitarian, social and environmental damage these events generate is usually disastrous and irreversible. It is mostly the resource exporting countries of the Global South that experience severe economic and social effects of the so-called resource curse.³ Frequently, labour law infringements indicate concurrent corporate deficiencies in other areas.⁴ In the raw materials sector, this assumption is applicable to environmental and human rights violations and to child labour or modern slavery. Mine collapses and failures of dams or retention basins caused by deficient safety and workplace standards generate adverse socio-environmental and human rights impacts. Such incidents continuously occur in the extraction, trade and manufacture of raw materials.

Moreover, women and children are significantly affected by human rights violations. ⁵ The extractive industry faces structural problems concerning socioenvironmental and human rights violations. ⁶ The digital progress of the twenty-first century and its corresponding dependence on raw materials has gone hand in hand with scandalous socio-environmental and human rights standards in the extractive industry.

In the textiles industry, the fire and collapse of the Rana Plaza textile factory in Dhaka, Bangladesh on April 24, 2013, stands out as an industrial and workplace disaster that subsequently led to substantial improvements in international labour and safety standards.⁷ For instance, the Accord on Fire and Building

² See also *Verdonck*, HRILD (1) 2015, 34 (37 f.).

³ See further WTO, World Trade Report 2010, p. 91 ff.; Auty, in Halvorsen/Layton, Handbook on the Economics of Natural Resources, 140 (144 f.); Burchardt/Peters, in Peters/Burchardt, Umwelt und Entwicklung, 33 (50 ff.); Hattendorff, The Resource Curse Revisited, p. 25 ff.; Hilpert/Mildner, in idem, Nationale Alleingänge oder internationale Kooperation, 11 (13); Müller-Koné/Croll, in Hartard/Liebert, Competition and Conflicts on Resource Use, 39 (41 ff.); UN ESCAP, Responsible Business and Sustainable Investment in the Natural Resources Sector in Asia and the Pacific, p. 30 ff.

⁴ Blüthner, Welthandel und Menschenrechte, p. 462; see also Simons/Macklin, The Governance Gap, p. 22 ff.

⁵ Huck, EuZW 2018, 266 (267); Hofmann/Schleper/Blome, Journal of Business Ethics (147) 2018, 115 (119).

⁶ Hofmann/Schleper/Blome, Journal of Business Ethics 147 (2018), 115 (118 f.); Kieninger, IPRax 2020, 60 (60 f.).

⁷ See further Görgen, Unternehmerische Haftung, p. 110; Heinlein, NZA 2018, 276

Safety in Bangladesh implemented general monitoring obligations. Moreover, the textiles industry and civil society founded various initiatives.⁸ The Rana Plaza incident thus had a stimulating effect on the implementation of recognised labour law standards. Nonetheless, substantial socio-environmental challenges have prevailed overall in the resource sector, particularly in the extractive industries.

These severe harms stand in contrast to the often fruitless pursuit of compensation claims in international litigation. Frequently, the legal and judicial systems in the countries where the damage occurred do not provide sufficient legal infrastructure or remedies. Consequently, injured parties seek compensation abroad. There, however, challenges of establishing jurisdiction and a substantive basis for any claims or a lack of proficiency in the foreign legal system frequently impedes the success of attempts to enforce rights through international litigation. And so the severe socio-environmental and human rights damage is accompanied by a severe and ethically unjustifiable gap in the availability of compensation and other legal remedies.

Raw materials governance has, in a long tradition, been influenced by historic, economic and political determinants. Constant socio-environmental infringements, however, clearly indicate that the current raw materials governance approaches are in need of amendment. In this respect, a prospective governance concept of responsible trading in raw materials appears as a potential game-changer. To date, no general or legal treatise has taken up the issue of responsible trading as such. As a consequence, no comprehensive analysis of responsible trading is available.

In contrast, while there has been research into responsible trading, its status is inadequate. But European Union (EU) organs have been referring to responsible trading in press releases and legal documents anyway, though, notably, without referring to a particular conception of responsible trade. In the end, however, legal scholarship thrives and depends on current interdisciplinary debates such as these.

That is why this thesis thoroughly analyses the concept of responsible trading by applying it to international trade in raw materials. Also, the following conceptualisation of responsible trading refers to national and international governance challenges in the raw materials sector. Therefore, this thesis addresses the challenges of legal regulation and enforcement, particularly at the private law level. This also raises the question whether the governance concept of responsible trading is suited to bridge the legal remedy and compensation gap.

Finally, this thesis raises the overriding question of whether the premise of free trade is the determining factor in international trade, or whether responsible

⁽²⁷⁷ f.); *Kaleck/Saage-Maaβ*, Unternehmen vor Gericht, p. 99 ff.; *Rühmkorf*, Corporate Social Responsibility, p. 213 ff.; *Thiede/Bell*, RIW 2017, 263 (264).

⁸ See further *Ehrlich*, Politics of Fair Trade, p. 5 ff.

trading provides trading opportunities inside or apart from the WTO regime. Likewise, this thesis questions whether the principle of responsible trading is an adequate legal concept by which to adjust the current free trade system and legal constitution of trade relations. In this respect, the potential and suitability of responsible trading as an overriding doctrine of international trade is evaluated. Accordingly, this thesis questions the general competence and suitability of international trade law as a means of regulating and enforcing responsible trading objectives.

Thereby, this work aims to fill the current doctrinal gap. Overall, this thesis contributes to a modern understanding of international trade law and a responsible and welfare-oriented supply of raw materials. The following presentation is explicitly not exhaustive but is limited instead to international trade in raw materials.

B. Research Issue and Synopsis

The overall research is dedicated to analysing the impact of responsible trading in the international raw materials trade and to evaluating thereby the potentially overriding role of foreign trade law.

Therefore, this thesis has four aims: first, to illustrate the current frame of international trade in raw materials; second, to analyse good raw materials governance and strategies as applied; third, to conceptualise the governance concept of responsible trading in raw materials; and fourth, to illustrate and evaluate both general and specifically German legal enforcement mechanisms. The approach to enforcing responsible trading in raw materials particularly takes private law enforcement into account.

To this end, this analysis begins by illustrating current common practices of international trade in raw materials in chapter 2, highlighting the historical, economic and regulative fundamentals of international trade in raw materials. In general, international trade law and the law of commercial contracts are hybrids, each incorporating private and public law elements. Likewise, a synthesis of raw materials governance is provided; in particular, focus is placed on foreign trade supply regulation as the decisive tool of raw materials governance.

Subsequently, chapter 3 presents the challenges of regulating and establishing an environmentally and socially sustainable international trade in raw materials by illustrating both the international and the German approaches to good raw materials guidance, governance and strategies. This chapter therefore con-

⁹ Paschke, in Stober/Paschke, Deutsches und Internationales Wirtschaftsrecht, C § 1, p. 64, Rec. 93.

C. Methods 5

siders the current international soft law of good raw materials guidance, global good raw materials governance and raw materials trading strategies. Particular emphasis is given to good raw materials governance in the EU and to the German approach.

The following chapter, chapter 4, generally conceptualises a future environmentally and socially sustainable governance concept of trade in raw materials through responsible trading. The concept of responsible trading is elaborated abstractly. The chapter draws on a semantics of responsibility based on legal and philosophical approaches and lays out various related principles. It also provides a definition of responsible trading in raw materials.

Finally, chapter 4 also highlights a legal approach to responsible trading in raw materials. It discusses general enforcement possibilities and means of integrating responsible trading into mineral supply chains. Overall, this chapter examines whether responsible trading is suited to incentivise and enhance international trade in raw materials from a legal perspective. Thus, the dissertation aims at analysing the effectiveness and impact of current good raw materials governance and legal enforcement possibilities. In this respect, this dissertation critically appraises the aforementioned German approach to responsible trading in raw materials, addressing questions of legal compensation, good raw materials regulation, private law compliance and international raw materials litigation. In this respect, procedural challenges of raw materials litigation are discussed, considering in particular the options for pursuing private legal remedies. Special emphasis is placed on socio-environmental and human rights due diligence in mineral supply chains. Finally, the findings inform an evaluation of the status quo of responsible trading in raw materials.

Chapter 5 concludes with a summary and final remarks.

All in all, this dissertation demonstrates the fundamentals of the concept of responsible trading and the status quo of responsible trading in raw materials. In this regard, this thesis questions what is being done to implement and enforce responsible trading in raw materials and whether it appears appropriate in order to achieve the objectives envisaged by responsible trading in raw materials.

C. Methods

Methodologically, this doctoral thesis focuses on a theoretical and abstract analysis of responsible trading in raw materials. Accordingly, this thesis pursues an abstract systematisation of the general concept of responsible trading and the elaboration of precise possibilities for its implementation and enforcement. At first take, the coverage seems broad.

However, it is merely broad regarding the analysis of responsible trading as a proper trading concept. Interdisciplinary aspects of law, economics, humanities

and political and natural sciences are considered for the purpose of comprehending responsible trading's overall bent. To thoroughly integrate trade in raw materials with responsible trading, this dissertation applies a systematic analysis based on international trade relations concerning commodities produced by the metals and minerals extractive industries. This thesis illustrates and compares the German with the international guidance and governance approach to the raw materials trade. In turn, the analysis of potential enforcement possibilities pursues a narrow coverage. Hence, in thoroughly analysing responsible trading the overall methodology is positioned as normative research.

D. Scope and Definition of Raw Materials

Section D is dedicated to understanding the scope of the notion of raw materials. Therefore, a definition and concretisation of the term "raw materials" is required.

Classifications of raw materials exist in large number. Naturally, the specific classification is highly dependent on the particular point of view. Starting from common parlance, there are notable further economic, social, scientific and political categorisations. Apart from that, chemical and geological classifications related to the place and quantity of mineral deposits are at hand. Scientific categorisations are aplenty and, at the same time, precise. ¹⁰

Not every approach, however, is illustrated. Approaches outside the scope of the study are explicitly not considered. Nonetheless, the examined approaches target considerably different objects and, in part, prove to be useless or even misleading for understanding "raw materials" in legal terms. That is why this thesis requires such a thorough determination of the scope and definition of the term. Accordingly, subsections I and II illustrate the use and interpretation of "raw materials" both in a broader and a narrower sense. In particular, raw materials are distinguished from commodities and natural resources. Further on, the terms "critical raw materials", "conflict minerals" and "rare earth materials" will be delineated. Finally, sbusection III provides a definition suited to the overall scope of this thesis.

I. Raw Materials in a Wider Sense

The coverage of the term "raw materials" is broad. Frequently, raw materials are referred to as either *natural resources* or *commodities* even though both words have widely accepted specific meanings. These designations relate to

¹⁰ A precise overview is available in *Dewulf/Mancini/Blengini/Sala/Latunussa/Pennington*, Journal of Industrial Ecology 19 (2015), 963 (965).

raw materials as understood in a wider sense. Understood broadly, "resources" as such might mean anything of value, e. g., knowledge, time, education and so on.¹¹

However, the common term "resource" derives from the Latin verb *resurgere*, meaning to restore, revive or arise out of something. Hence, the term's origin as such does not imply any strict reference to raw materials. In the political sciences, the definition varies depending on the analysed social context, and it often leads to spatial-theoretical classifications. In contrast, what counts as a *resource* is also determined in relation to the extreme mobility of raw materials, so resources in the end are defined depending on their application and integration into economic processes. Moreover, these economic processes are set in a historical context and in changes in sociological needs. Notably, in geoscience, *resources* are classified either as resources available for economic extraction and segregation or as explored reserves or identified deposits suitable for extraction.

Furthermore, in the sense of environmental material, the general term *natural resources* serves as a productive input for transforming the natural resource into a "raw material" in the sense of a basic good. Such *natural resources* include biotic and abiotic resources, energy and mineral resources, marine and submarine resources and many other kinds.¹⁷ Nowadays, even water or drinking water is considered a valuable resource and access to it even a human right.¹⁸ Thus, when "raw materials" is interpreted to mean "resources", this indeed depicts an expansive interpretation.

As raw materials have always been both subjects and catalysts of trade and prosperity, they were simply referred to as *natural* or *primary commodities*. ¹⁹

¹¹ Zepf/Achzet/Reller, in Hartard/Liebert, Competition and Conflicts on Resource Use, 259 (260).

¹² Note the conjunction with the French term *resoudre*.

¹³ Zepf/Achzet/Reller, in Hartard/Liebert, Competition and Conflicts on Resource Use, 259 (259 f.).

¹⁴ Among others see *Bringezu*, Ressourcennutzung in Wirtschaftsräumen, p. 23 ff., p. 100 ff.; accord *Czierpka/Oerters/Thorade*, in Czierpka/Oerters/Thorade, Regions, Industries and Heritage, 3 (3 ff.); *Fehrmann*, Effektivität interregionaler Kooperation; *Thorade*, in Czierpka/Oerters/Thorade, 73 (73 ff.).

¹⁵ Haumann/Thorade, in Ziegler, Rohstoffräume, 1 (3).

¹⁶ See *Pelikahn*, Internationale Rohstoffabkommen, p. 46.

¹⁷ On the classification on materials' flows see *Bringezu*, Ressourcennutzung in Wirtschaftsräumen, p. 74 ff.

¹⁸ See further *OHCHR/UN-Habitat/WTO*, Fact Sheet 35, p. 3 ff.; *Grafton/Wheeler*, in Halvorsen/Layton, Handbook on the Economics of Natural Resources, 401 (403 ff.); *Bringezu*, Ressourcennutzung in Wirtschaftsräumen, p. 81, 90 ff.; *Barbier/Markandya*, New Blueprint for a Green Economy, p. 26 ff.; *Loperena*, FS Rehbinder, 433 (449 f.).

¹⁹ Clark/Lesourd/Thiéblemont, International Commodity Trading, p. 2; Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, §11, p. 286, Rec. 12.

Inversely, one could also argue that all commodities are traceable to natural resources and that this fact justifies the application of a wide definition.²⁰ The addition of *primary* before "commodities" certainly refers to the unprocessed status of the materials.²¹ Originating from the Latin *commodum*, meaning "convenience, benefit or interest", *commodities* refers to all goods that can possibly be traded and that possess standard qualities.²² The term's usage was shaped in particular by the economic sciences. The seemingly most popular definitions are found in the 2005 ISDA Commodity Definitions. However, the definitions used are to define the commodity's price and hence do not offer any precise definition of commodities. The document contains a list of the most frequent and widespread globally traded commodities.²³

At the same time, *natural commodities* are referred to as non-durable intermediate inputs, as opposed to durable inputs. These productive inputs are used for transformation into *secondary commodities*.²⁴ The first part of transforming goods lies in obtaining natural commodities. In general, the process of transforming something from a natural commodity into a manufactured commodity only requires a few steps.

Natural commodities are basically of no particular use for consumers in their immediate status after being extracted. Therefore, at least a second processing stage is necessary to produce a good convenient for consumers and trade even though the quantity of steps in the whole process differs by specific material. Starting out as basic commodities, natural commodities are subsequently processed into primary commodities, which in the end are also designated as intermediate goods. Intermediate goods are goods produced from natural resources after one or two agricultural or industrial transformation steps. These secondary goods can be referred to as manufactured or (high-) technological goods. Finally, this differentiation is dependent on the specific raw material at stake.

Traditional classifications into energy commodities, mineral commodities, agricultural commodities, textile commodities or marine commodities are still in use. Other goods have only recently been commoditised, such as electricity, ²⁶

²⁰ See among others *Dasgupta*, in idem, Selected Papers II, 346 (346 ff.).

²¹ See also *Radetzki/Wårell*, Handbook of Primary Commodities, p. 29 ff.

²² Clark/Lesourd/Thiéblemont, International Commodity Trading, p. 3 ff.; Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, § 11, p. 286, Rec. 12; Geman, Commodities and Commodity Derivatives, p. 333 f.

²³ Notably, the 2005 ISDA Commodity Definitions differentiate between agricultural products, energy, freight, metals and paper, however, the list is not exclusive, see Section 7.1, Sub-Annex A, p. 75 ff. 2005 ISDA Commodity Definitions.

²⁴ Clark/Lesourd/Thiéblemont, International Commodity Trading, p. 2.

²⁵ Clark/Lesourd/Thiéblemont, International Commodity Trading, p. 3.

²⁶ Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, § 11, p. 286, Rec. 15 ff.

telecommunication services,²⁷ emissions certificates and allowances,²⁸ weather derivatives²⁹ or a carrier's cargo rates³⁰.³¹

In addition to that, industrial and agricultural products can be divided into hard and soft commodities. ³² Hard commodities refer to finite resources whose deposits will soon be running low or whose extraction is no longer profitable. Such hard-energetic commodities are, for instance, crude and fuel oil, diesel, unleaded gasoline and natural gas. Hard commodities in the sense of "noble metals" are gold, platinum, palladium or silver and industrial metals such as aluminium, copper, lead, nickel, tin or zinc.³³

Note that energy is listed apart from commodities even though the term includes various raw materials. First of all, energy can be understood as a physical measure with the potential to create power. Still, the German legal definition of energy according to §3 No. 14 Energiewirtschaftsgesetz (EnWG) only includes electricity and natural gas if they are used in a performance-bound energy supply. Hence, the EnWG states a narrow definition of the term "energy" that, in practice, does not include oil, biomass or carbon dioxide and only partially includes coal.³⁴ Hence, the following discussion excludes materials considered as energy.

Soft commodities on the other hand describes renewable and live resources.³⁵ Hence, soft commodities are agricultural raw materials traded on the stock exchanges. Such materials are coffee, grain,³⁶ cotton, sugar or livestock such as live cattle or lean hogs.³⁷ Raw materials are arranged either as physical raw materials at the spot markets in the sense of being a capital asset or their value is

²⁷ See Clark/Lesourd/Thiéblemont, International Commodity Trading, p. 5 f.

²⁸ See *Barbier/Markandya*, New Blueprint for a Green Economy, p. 122 f.; *Stuhlmacher/Sessel-Zsebik*, in Zerey, Finanzderivate, §11, p. 292, Rec. 36 ff.; Emission certificates are traded at the European Energy Exchange in Leipzig and at the European Climate Exchange, see http://www.finanzen.net/rohstoffe/co2-emissionsrechte.

²⁹ Jahn/Fried, in Stürner/Eidenmüller/Schoppmeyer, MüKo InsO, §104, Rec. 134; Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, §11, p. 301 ff., Rec. 67 ff.; Zenke/Dessau, in Theobald/Kühling, Energierecht, 140, Rec. 27 ff.; see also Sub-Annex C.1, p. 345 of 2005 ISDA Commodity Definitions.

³⁰ On the necessity of cargo rates for European trade see CJEU, Judgement of 12.10.2016 – C-92/15, in RdTW 2016, 411 (411 f.); on German maritime cargo law see *Paschke*, in Oetker, HGB, Vor § 476, Rec. 2 ff.

³¹ Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, § 11, p. 286, Rec. 13 f.; https://www.boerse.de/grundlagen/rohstoffe/Rohstoff-Klassifizierung-19.

³² See further *Geman*, Commodities and Commodity Derivatives, p. 153 ff.

³³ Geman, Commodities and Commodity Derivatives, p. 171.

³⁴ Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, § 11, p. 285, Rec. 11.

³⁵ See further *Bringezu*, Ressourcennutzung in Wirtschaftsräumen, p. 61 ff.

³⁶ Grain i. a. includes corn, soybeans, wheat, soybean oil and meal.

³⁷ https://www.boerse.de/grundlagen/rohstoffe/Rohstoff-Klassifizierung-19>.

represented in the shares of a company or a fund operating on the raw materials markets.³⁸

The most famous reference to raw materials in the sense of their being commodities derives from the Havana Charter of 1948. Today, the term "raw material" is usually defined by Art. 56 (1) Havana Charter.³⁹ However, the wording of Art. 56 (1) Havana Charter states that

"the term 'primary commodity' means any product of farm, forest or fishery or any mineral, in its natural form or which has undergone such processing as is customarily required to prepare it for marketing in substantial volume in international trade."

Hence, the Havana Charter does not define the term "raw material", even though this section is referred to as the historical definition and the basis for contemporary perception. However, in the end, the provision merely states that minerals are considered to be primary commodities. The Havana Charter does not provide any further content. Therefore, the definition in Art. 56 (1) Havana Charter proves unsuitable as a precise distinction.

Nonetheless, this shows that the term "raw material" is generally used as a synonym for a wide range of commodities. Likewise, in times of globalisation, both the variety and quantity have risen significantly of "commodities" in the sense of them being primary products. The expansive interpretation becomes further apparent through the various components of commodity indexes. In 2017, the Bloomberg Commodity Index (BCOM) listed industrial metals like copper, aluminium, zinc and nickel or precious metals such as gold or silver next to other components like energy, grains, softs and livestock. 40 Other indexes only list the categories of softs, metals and energy. 41

Thus, the term "raw material" is to be understood as a synonym for a wide range of commodities in the broader sense. As shown, the illustrated expansive interpretation of commodities does not tease apart the term *raw* from the term *material* in the sense of a good or commodity.⁴² Instead, the expansive interpretation refers to raw materials as a material like any other.⁴³ However, a broad understanding of raw materials expands the focus too much and is therefore not well suited to the following discussion.

³⁸ See Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, § 11, p. 285, Rec. 9 f.

³⁹ See *Weiss*, in Tietje, Internationales Wirtschaftsrecht, § 6, p. 297, Rec. 2; accord *Klett*, Chancen und Risiken von Rohstoffinvestments, p. 7.

⁴⁰ See https://www.bloomberg.com/company/announcements/2017-target-weights-for-the-bloomberg-commodity-index-announced/>.

⁴¹ Stuhlmacher/Sessel-Zsebik, in Zerey, Finanzderivate, § 11, p. 285, Rec. 5.

⁴² Transferred to German, this approach equalised the terms "Rohstoff" and "Ware".

⁴³ See also *Eurostat*, EW-MFA, p. 9, Rec. 1; *Bringezu*, Towards Sustainable Resource Management in the European Union, p. 14 ff.

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