

# NATIONAL SPACE LEGISLATION IN EUROPE

ISSUES OF AUTHORISATION OF PRIVATE  
SPACE ACTIVITIES IN THE LIGHT OF  
DEVELOPMENTS IN EUROPEAN  
SPACE COOPERATION

EDITED BY  
FRANS G. VON DER DUNK

STUDIES IN SPACE LAW / 6

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# National Space Legislation In Europe Studies In Space Law

**R Sandford**



## **National Space Legislation In Europe Studies In Space Law:**

**National Space Legislation in Europe** Frans G. von der Dunk, 2011-09-09 The book deals with the main themes in implementing international space law vis vis private enterprise theme by theme with a specific focus on Europe in view of the complicating roles of ESA and the European Union in this context

**National Space Legislation in Europe** Frans G. von der Dunk, 2011-09-09 The increasing involvement of private enterprise in the conduct of space activities raises key issues with respect to international space law which has left it to national law to implement relevant rules vis vis private enterprise Almost unavoidably such national implementation regimes differ largely across individual states This is also true in Europe where the issue is further compounded by the fundamental but fundamentally different roles of ESA and the European Union Focusing on Europe the present book thus represents the first comprehensive effort to discuss national authorisation schemes not country by country but theme by theme so as to allow for a real comparison of the lack of harmonisation or even coordination and the possible problems which may result

*National Space Legislation* Annette Froehlich, Vincent Seffinga, 2018-02-16 This book provides a unique in depth comparative and evaluative analysis based upon primary sources Therefore it does not only provide a more complete understanding of the subject compared to other publications but because it provides a full perspective can also serve as a basis for further research The interest in national space legislation and the importance thereof to regulating space activities conducted by private entities gives a clear incentive to conduct a comparative analysis of the national space legislation of various states The purpose of this report is to provide such a comparative analysis that will detail the similarities and differences between the national space laws of selected states with a focus on European comprehensive national space legislation The states discussed are Sweden the United Kingdom Australia China Belgium the Netherlands France Austria Indonesia Denmark New Zealand and Luxembourg This report is intended to assist the efforts of states that are seeking to enact or revise national space legislation not only by presenting the approaches taken by other states but also by presenting as far as possible the rationale behind their approaches The readership of this book consists of academics and professionals in space law and can further assist policymakers wishing to revise or enact national space legislation

**Legal Basis for a National Space Legislation** Julian Hermida, 2006-04-11 A GENERAL BACKGROUND The foremost goal of the international community in the area of private space launch services should be to induce states to implement effective licensing procedures applicable to commercial ventures for which state responsibility may 1 exist 1 PRIVATE SECTOR PARTICIPATION IN THE SPACE INDUSTRY In the first decades of the space age military and state security motivations indicated the direction of national space programs Now the development of space activities depends essentially upon the possibility of recovering 2 investments Private sector driven commercial endeavors in outer space have been increasing exponentially and have experienced a significant quantitative growth over the last years Spacefarers promote commercial participation of private companies in operations related to outer space and thus the private

sector is now increasingly providing satellite telecommunications remote sensing global positioning and space launch services directly to its customers In this context overall revenues for the worldwide space industry 3 amounted to US 82 billion in 2001 In the late 1990 s the transponder demand in particular Ku band transponders was consistently on the rise due 4 to the escalated utilization of geostationary satellite transponders Global positioning systems have been playing an increasingly important role in navigation and remote sensing systems are mapping and documenting nearly 1 E A Frankle E J Steptoe Legal Considerations Affecting Commercial Space Launches From International Territory 1999 50 IISL at 10

Emphasis added 2 H L Space Insurance: International Legal Aspects Katarzyna Malinowska, 2017-03-15 Insurance related to outer space activities has been around since the 1960s but has become vastly more significant with the increased commercial use of satellites This book focuses on the legal aspects of space insurance in the contractual context analysing space risk as well as the insurance terms used on the market It offers the first in depth coverage both practical and theoretical of space insurance from an international law perspective Attending throughout to the important and problematic distinction between the space segment upstream and ground segment downstream in space law this book deals comprehensively with such issues and topics as the following the main hazards relating to space activities the impact of new space technologies on the level of risk and insurance the differing types of risks attributable to various entities in the context of insurable interest aspects of the space risk allocation regimes and risk assessment the impact of the five space treaties the Outer Space Treaty the Liability Convention the Rescue Agreement the Registration Convention and the Moon Agreement on the subject and scope of insurance coverage the advent of suborbital flight commercial human space flight and space tourism in the context of emerging insurance risks the problem of space debris contractual aspects of space activities affecting the space insurance risks basic notions such as outer space space object in the context of space activities and related insurance coverage basic insurance principles and their operation in the space insurance and the adjustment of losses and the settlement of disputes in space insurance The author emphasises the need to understand the various insurance risks facing particular types of commercial space activities including pre launch launch transportation spaceflight satellite communications satellite navigation satellite remote sensing and space station operation Satellites are increasingly a vital part of many daily activities of contemporary society and the Earth s orbit is becoming ever more crowded heightening the risks of collision damage and claims This thoroughly researched book will therefore be extremely useful to lawyers policymakers and academics tasked with defining the scope of insurance coverage that accurately mirrors technological contractual and legal reality Its practical aspect will be of extraordinary value to insurance lawyers underwriters and brokers

**National Space Law** Christian Brünner, Edith Walter, 2008 Durch den Start des Satelliten BRITe Austria TUGSAT 1 im Jahr 2008 wird Österreich erstmals Start Staat im völkerrechtlichen Sinn sein Mangels eines österreichischen Weltraum Gesetzes sind viele Rechtsfragen in diesem Kontext jedoch ungeklärt Im September 2006 kamen internationale Experten zu

einer Konferenz in Graz zusammen um über Notwendigkeit und Mindestinhalte nationaler Weltraumrechts Gesetze zu diskutieren Konferenzbeiträge und Ergebnisse weiterführende Analysen und der mögliche Inhalt eines österreichischen Weltraumgesetzes dies auf der Basis eines Vergleichs mit jüngsten nationalen Weltraumgesetzen in Europa werden zum Teil auf Englisch und zum Teil auf Deutsch veröffentlicht National Space Legislation for India Kumar Abhijeet, 2020-01-23 This book discusses the need for national space legislation in India in the wake of private stakeholders entering the field and the expansion of outer space activities Highlighting India's commitment to responsibly pursuing its outer space ambitions through rule of law the book discusses the rationale behind national space legislation and addresses the requirements of both international and domestic law In order to suggest draft framework national space legislation for India it examines and compares the legislations of twenty major space-faring countries to identify the best practices One of the few scientific studies in India that proposes draft framework legislation for space activities in India this book summarizes the three main reasons why national space legislation is necessary to fulfill international obligations to address India's specific requirements and to enable non-governmental entities to participate A must read for anyone interested in international space law and India's role and responsibility toward it it is a valuable resource for academics scientists policymakers industry executives lawyers and students as well as amateur space enthusiasts International Actors and the Formation of Laws Katja Karjalainen, Iina Tornberg, Aleksii Pursiainen, 2022-07-16 This open access book addresses the discourse that creates modifies and reshapes the law as well as discourse participants The book focuses on the actors operating in legal regimes and their subtly bluntly or even outright aggressive impact on the formation of laws As the book examines the intersection of domestic European international and even transnational legal regimes where new law emerges as a product of this discourse it contributes to the understanding of the mobility of law and contemporary law's interactive nature This book provides enlightening examples of diverse legal fields influenced by international non-domestic actors It covers a wide range of relevant topics from financial sanctions to the rights of indigenous peoples and addresses actors ranging from the European Union and the European Court of Human Rights to disability organizations By exploring actors the book stresses their objectives and driving forces behind their efforts to influence law The book reveals an array of diverging methods used by international actors to influence law Additionally the book resonates with Nordic legal tradition and highlights Nordic commitment to rule of law and equality The authors are members of the Finnish branch of the International Law Association ILA and recognized experts in their particular fields and have been afforded freedom to adopt the approach they perceive as best suited to their topic The book is aimed at a broad range of readers involved in academic research and study lawyers working in government departments international organizations or private practice with an international focus as well as policy makers and influencers in international organizations government bodies and non-governmental organizations **Handbook of Space Law** Frans von der Dunk, 2015-02-27 The Handbook of Space Law addresses the legal and regulatory aspects of activities in outer space and

major space applications from a comprehensive and structured perspective It fundamentally addresses the dichotomy between the state oriented character      Regulating a Revolution Neta Palkovitz,2019-11-22 In recent years small satellites have taken the space industry by storm Their short development times low cost significant miniaturisation standardisation and commercial availability have truly revolutionised the space industry They make space accessible to non professionals and on an individual level This book is the first to explore the status of small satellites vis vis international space law examining which provisions are applicable and what kind of legal issues the traditional definitions pose when considering novel small satellites activities The author sheds clear light on current regulatory challenges raised by the commercial and research activities of small satellites as well as by governmental and military applications She covers the legal implications in such aspects of the small satellites revolution as the following liability for damage caused or suffered by small satellites State responsibility for non governmental space activities employing small satellites registration of space objects launch practices online availability of components and launch slots the connection between small satellites and space debris the role of space insurance and legal challenges posed by large constellations of small satellites In the course of the description and analysis the author provides case studies showing how these challenges can be dealt with offers deeply informed insights on emerging trends and future developments and indicates which jurisdictions may be most favourable to small satellite activities The small satellites market is booming and both States and industry are in need of guidance relating to the regulatory situation Accordingly this book will help stakeholders in the industry universities business entities and individuals as well as non commercial entities engaged in small satellites operations understand what kind of regulatory challenges exist and what should be done in order to solve these challenges in the future      **Routledge Handbook of Space Law** Ram Jakhu,Paul Stephen Dempsey,2016-11-10 This handbook is a reference work providing a comprehensive objective and comparative overview of Space Law The global space economy reached 330 billion in 2015 with a growth rate of 9 per cent vis vis the previous year Consequently Space Law is changing and expanding expeditiously especially at the national level More laws and regulations are being adopted by space faring nations while more countries are adapting their Space Laws and regulations related to activities in outer space More regulatory bodies are being created while more regulatory diversity from public law to private law is being instituted as increasing and innovative activities are undertaken by private entities which employ new technologies and business initiatives At the international level Space Law both hard law and soft law is expanding in certain areas especially in satellite broadcasting and telecommunications The Routledge Handbook of Space Law summarises the existing state of knowledge on a comprehensive range of topics and aspires to set the future international research agenda by indicating gaps and inconsistencies in the existing law and highlighting emerging legal issues Unlike other books on the subject it addresses major international and national legal aspects of particular space activities and issues rather than providing commentary on or explanations about a particular Space Law treaty or national

regulation Drawing together contributions from leading academic scholars and practicing lawyers from around the world the volume is divided into five key parts Part I General Principles of International Space Law Part II International Law of Space Applications Part III National Regulation of Space Activities Part IV National Regulation of Navigational Satellite Systems Part V Commercial Aspects of Space Law This handbook is both practical and theoretical in scope and may serve as a reference tool to academics professionals and policy makers with an interest in Space Law

**National Space Law in China** Yun Zhao, 2015-02-04 China has made rapid developments in space technologies and space activities in the last few years however it still lags behind in the legal arena In order to provide guidelines for and promote further development of space activities China should speed up its national space legislation process In *National Space Law in China* Yun Zhao offers a comprehensive study of national space laws regulations and policies in China It contains rich information and materials of China's space law and practice As the first English monograph on national legislation on space law in China this book shall contribute to the understanding of China's current legal regime for space activities and future national space legislation

*Yearbook on Space Policy 2010/2011* Peter Hulsroj, Spyros Pagkratis, Blandina Baranes, 2013-04-15 The Yearbook on Space Policy is the reference publication analysing space policy developments Each year it presents issues and trends in space policy and the space sector as a whole Its scope is global and its perspective is European The Yearbook also links space policy with other policy areas It highlights specific events and issues and provides useful insights data and information on space activities The Yearbook on Space Policy is edited by the European Space Policy Institute ESPI based in Vienna Austria It combines in house research and contributions of members of the European Space Policy Research and Academic Network ESPRAN coordinated by ESPI The Yearbook is designed for government decision makers and agencies industry professionals as well as the service sectors researchers and scientists and the interested public

National Space Law and Policy in the Republic of Korea Youngshin Ahn, 2024-03-11 Embark on a journey into South Korea's remarkable rise as a space power Discover how this technological giant has secured its place among a select group of seven nations capable of launching one ton satellites using domestically engineered rockets Delve into South Korea's intricate space legislation dissecting four pivotal laws and regulations through a global lens This pioneering academic endeavor sheds light on South Korea's alignment with international obligations and the real world application of its domestic laws It offers pragmatic reforms charting a course for policymakers and stakeholders toward a comprehensive legal framework to propel South Korea's cosmic aspirations

Space India 2.0 Dr. Rajeswari Pillai Rajagopalan, Narayan Prasad, 2017-02-24 This book gives insights by providing a glimpse into the past while it connects with the present and delivers perspectives on the future dimensions of India's space programme The chapters cover a broad range Commercial NewSpace Space Policy Space Security International Cooperation and Space Sustainability Global Governance and they deliver educated suggestions and opinions to policymakers of the country to review their strategies on these issues Understanding expert opinions in these areas shall

bestow the emerging managers of the space programme with holistic insights This work is a unique collection of thoughts and analyses on matters relevant to space policy and governance a good account of accomplishments and thought provoking puzzles on future possibilities The authors are national and international experts in different disciplines both veteran and young scholars and thus will be an invaluable resource for policymakers academic researchers and the public at large This work can also be a concrete step for continuing discourse on varied subjects or issues of importance which demand an interactive and evolutionary approach to progress on policy While there could be some differences in the positions taken by writers with reference to the views of some stakeholders in policymaking the academic yet non formal nature of the content in this book will hopefully create enough spaces for reflecting on a cohesive and harmonious framework of policy and its continued dynamism in a field where India can make significant contributions to national and global developments

Spaceports in Europe Annette Froehlich,2022-01-01 This book explores how Europe is seeking to enlarge its launching capacities by building additional spaceports on the European continent Various national initiatives are envisaged resulting in a space race in the field of constructing spaceports and building micro launchers However right from the beginning when choosing the launch site land or sea based rocket launches there are various factors relating to international space law European regulations and national rules that must be considered as spaceports are rarely explicitly addressed in current legal and policy frameworks While launching sites used to be operated by governments private commercial initiatives are increasingly entering the field This paradigm shift must be reflected within regulations relating to various aspects of space liability by enlarging the long established terms of the United Nations space treaties to accommodate commercial space flights Questions of permission supervision and control require special liability regulations to avoid detrimental consequences stemming from the concept of launching states in view of the rise of private driven commercial space activities on a global level Furthermore not only do environmental aspects need to be thoroughly examined but also the concept of critical infrastructure requires special attention from a security perspective to anticipate inter alia cyber attacks For these reasons several European and national regulations may need to be enlarged to apply to the entire space sector using a harmonized approach that has direct implications for the regulations programmes and missions of the European Union and the European Space Agency bearing in mind that the upcoming spaceports in Europe are an essential asset to substantially boost the European New Space     Routledge Handbook of Commercial Space Law Lesley Jane Smith,Ingo Baumann,Susan-Gale Wintermuth,2023-07-31 The Routledge Handbook of Commercial Space Law provides a definitive survey of the transitions and adjustments across the stakeholder community contributing to outer space activities The interaction between NewSpace traditional aerospace industrials and non traditional space related technologies is driving market changes which will affect state practice in what has until now been a government dominated market Greater private commercial participation will lead to new economic approaches to risk sharing models driven by a space services dominated



market This handbook is a detailed reference source of original articles which analyse and critically evaluate the scope of the current paradigm change and explain why space contracts and risk apportionment as currently known will change in tune with ongoing market transitions Reference is made to the scope of best practices across various leading states involved in space activities With contributions from a selection of highly regarded and leading scholars and practitioners in the Commercial Space Law field and the inclusion of salient documents regulatory and contractual documents the Routledge Handbook of Commercial Space Law is an essential resource for students scholars and practitioners who are interested in the field of Commercial Space Law **The International Space Station** Frans G. von der Dunk, Marcel M.T.A.

Brus, 2006-09-01 Currently perhaps the most complicated and challenging undertaking in outer space is the building of the International Space Station the ISS The recent decision to use the ISS also as a facility for pre commercial research and development in a microgravity environment inviting commercial enterprise on board only enhanced such complications and challenges As a consequence the major question arises to what extent these are held in check by a sound and effective legal and regulatory regime e g pertaining to criminal liability or intellectual property rights The present book offers the first overview of applicable law and regulation which is not merely superficial as well as some directions for future legislative and regulatory developments written by a number of highly reputed experts in space law The analysis finally is with a clear focus on the European situation in view of the particularities which increasing ESA and EU involvement in space activities bring with them **Elgar Concise Encyclopedia of Space Law** Mahulena Hofmann, P. J. Blount, 2025-01-09 Providing a

comprehensive and timely overview of the evolving landscape of space law this Encyclopedia emphasises the importance of international collaboration in maintaining outer space as a peaceful domain It illustrates how the demise of the bipolar world order changed the paradigm of international legal developments in outer space activities whilst the need to guarantee the security safety and sustainability of space remained unchanged Outer Space in Society, Politics and Law Christian Brünner, Alexander Soucek, 2012-08-30 Spaceflight is a rational undertaking yet full of emotions It is a dream of mankind and a multi billion industry likewise It is subject to a distinct branch of law and moreover part of modern pop culture In short spaceflight is fascinating Outer Space in society politics and law is an inter disciplinary approach to the understanding of modern space law Technical cultural and historical aspects lay the foundation for a sound comprehension why space law norms have been established and what they mean in practice The reader will realize the impact space and spaceflight have on society from Stonehenge to climate change A new approach to presenting space law comprehensive and illustrative We live in a society absolutely dependent on science and technology and yet have cleverly arranged things so that almost no one understands science and technology That s a clear prescription for disaster Carl Sagan

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### **National Space Legislation In Europe Studies In Space Law Introduction**

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