

Search



Home > The "Dematerialized" Insurance > Chapter

E-commerce and Distribution of Insurance Products: A Few Suggestions for an Appropriate Regulatory Infrastructure

| Chapter | First Online: 04 August 2016

pp 39–58 | Cite this chapter



The "Dematerialized" Insurance

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

- > Store and/or access information on a device
- Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

How to develop an appropriate level of regulation is essential to promote this transaction method and to ensure the interests of consumers.

This Article addresses insurance regulation governing electronic commerce and analyses various developed regulatory models and their frameworks. In terms of prudential regulation, it is suggested that operational risk arising from E-commerce should be incorporated into solvency regulation. In encountering with risks caused by electronic transactions, an insurer should be required to hold adequacy of capital and maintain a certain level of risk management. In relation to market conduct regulation, this Article intends to apply behavioural theory to reexamine the current information-based insurance regulation.



This is a preview of subscription content, <u>log in via an institution</u> to check access.

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Buy Chapter \rightarrow Buy eBook → Softcover Book **EUR 149.79 ∧** Hardcover Book **EUR 149.79** Price includes VAT (Poland) Price includes VAT (Poland) Compact, lightweight edition Durable hardcover edition Dispatched in 3 to 5 business days Dispatched in 3 to 5 business days • Free shipping worldwide - see info Free shipping worldwide - see info Buy Softcover Book \Rightarrow Buy Hardcover Book →

Read on any device

Instant download

Own it forever

Your privacy, your choice

Read on any device

Instant download

Own it forever

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Notes

- 1. See CAPGEMINI (2012), p. 7.
- 2. Ibid., p. 10.
- 3. Ibid.
- 4. *Ibid.*, p. 11.
- 5. When E-commerce has improved the transaction costs, the Internet and mobile devices have become important tools for insurers to acquire new businesses in

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

designated investment firms and insurers into five categories of impact based on the capacity to affect the UK financial system. *Ibid.*, pp. 19-20.

- 12. This element mainly focuses on the assessment of the macro-prudential environment and system-wide risks, such as interest rates and longevity risk. *Ibid.*, p. 20.
- 13. The PRA examines the sustainability and vulnerability of an insurer's business model. Under this assessment, the PRA analyses an insurer's "profitability, risk appetite, performance targets and underlying assumptions, and an insurer's own forecasts and their plausibility". In doing so, the PRA can determine the capacity of the insurer to mitigate risks. *Ibid.*, p. 20.

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

for the policyholder, electronic payment acceptability and record retention. *See* International Association of Insurance Supervisors (2004), pp. 5-6.

- 18. See above footnote 6, p. 8.
- 19. See above footnote 6, p. 9.
- 20. Due to fault in the process of information flows, both parties may have disputes over the insurance products. For example, the insurance provisions and conditions are ambiguous on the website. *See above footnote 6*, p. 7.
- 21. See above footnote 6, p. 5.

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

electronic commerce) [2000] OJ L178/1.

- 26. Directive 1999/93/EC on a Community framework for electronic signatures [1999] OJ L 13/12.
- 27. Directive 2002/65/EC concerning the distance marketing of consumer financial services and amending Council Directive 90/619/EEC and Directives 97/7/EC and 98/27/EC, [2002] OJ L 271/16.
- 28. See European Commission (2000).
- 29. Ibid.

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

- 35. E.g., the main characteristics of the financial service, the total price to be paid by the consumer, relevant notice concerning special risks, notice of possibility relating to taxes or costs, limitations of period for which the information provided is valid, the arrangements for payment and performance and any costs of using the means of distance communication. *Ibid.*, art. 3 para. 1(2).
- 36. E.g., the existence or absence of a right of withdrawal, and where the right of withdrawal exists, its duration, and the condition for exercising, the minimum duration of the distant contract, information on any rights the parties may have to terminate the contract, practical instructions for exercising the right of withdrawal, the Member State or States whose laws are taken by the supplier as a basis, any contractual clause on law or compete court and languages used in the contract. *Ibid.*, art. 3 para. 1(3).

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

44.	See Uniform Law Commission (1999).
45.	E.g., Tennessee, Maryland, and Alaska. See Insurance Advocate (2013).
46.	Ibid.
47.	Ibid.
48.	For example, it is estimated that nearly 3.1 million auto insurance policies
	were purchased through the Internet in 2012. See Insurance Information
Your privacy, your choice	
We use essential cookies to make sure the site can function. We, and our 93 <u>partners</u> , also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.	
By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our privacy policy for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.	
You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.	
We use cookies and similar technologies for the following purposes:	
Store and/or access information on a device	

Personalised advertising and content, advertising and content measurement,

Accept all cookies

Reject optional cookies

Manage preferences

audience research and services development

Insurance Regulators (2012), p. 12.

- of Insurance Regulators (CCIR) released several research papers addressing the issues concerning E-commerce in the insurance sector. The final position paper which intends to communicate with stakeholders has been published in November 2013. This paper indicates that it is possible to have more specific regulations governing insurance business in E-commerce in the future. See Canada Electronic Commerce Committee (ECC) in Canada Council of Insurance Regulators (CCIR) (2013).
- 57. Xinhuanet News (2013).
- 58. China Insurance Regulatory Commission (2014).

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

- 67. See Baldwin and Cave (1999), p. 12.
- 68. See Llewellyn (1999), p. 35.
- 69. Ibid., p. 22.
- 70. It is observed that the characteristics of financial products are different from other goods and services. For instance, "it may be a long time before the consumer is aware of the value and faults of a financial product". This can usually be found in the disputes arising from insurance contracts in the event of accident of insured or damage of insured properties. *Ibid.*, pp. 37–38.

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

- 78. "In many situations, people make estimates by starting from an initial value that is adjusted to yield the answer. The initial value, or starting point, may be suggested by the formulation of the problem, or it may be the result of a particular computation. In either case, adjustments are typically insufficient. That is, different staring points yield different estimates, which are biased toward the initial values." See above *footnote* 72, p. 1128, quoted by George et al. (2000), pp. 195-196.
- 79. Lin (2010–2011), p. 345. See generally Rabin (1998), pp. 26–29.
- 80. *See* above footnote 72, p. 1115.

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

- 88. See above footnote 56, p. 5.
 - 89. E.g., the main characteristics of the product; terms, exclusions and conditions of that product; the total premium and other charges that the consumer may have to pay; options and coverage. *Ibid.*, p. 7.
 - 90. Unlicensed entities must not "provide advice; hold themselves out as licensed insurers or firms; or post insurance publications, which could mislead a consumer into thinking they are an insurance provider", *ibid.*, p. 12.

References

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Lin Tom CW (1998) A behavioral framework for securities risk. Seattle Univ Law Rev 34:325, 345

Google Scholar

Packin NG (2012–2013) It's (not) all about the money: using behavioral economics to improve regulation of risk management in financial institutions. Univ Pan J Bus Law 15:419, 449–452

Google Scholar

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Baldwin R, Cave M (1999) Understanding regulation-theory, strategy and practice. Oxford University Press, Oxford, p 12

Google Scholar

Online Documents & Articles

Bailey A (2012) The prudential regulatory authority, quarterly bulletin 2012 Q4. http://www.bankofengland.co.uk/publications/Documents/quarterlybulletin/qb120 http://www.bankofengland.co.uk/publications/Documents/quarterlybulletin/qb120 http://www.bankofengland.co.uk/publications/Documents/quarterlybulletin/qb120

CaixinOnline (2014) Insurance firms stop online sales, as regulator takes long

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

China Insurance Regulatory Commission (2014) Call for advice for insurance regulation of life insurers concerning life online insurance. http://www.circ.gov.cn/web/site0/tab5208/info3913089.htm

Erta K, Hunt S, Iscenko Z, Brambley W (2013) Applying behavioural economics at the financial conduct authority, p. 24, Occasional Paper No. 1, Financial Conduct Authority, http://www.fca.org.uk/static/documents/occasional-papers/occasional-papers-1.pdf

European Commission (2000) Electronic Commerce: commission welcomes final adoption of legal framework directive, IP/00/442, 04/05/2000, http://europa.eu/rapid/press-release IP-00-442 en.htm?locale=zh

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Insurance Advocate (2013) E-Commerce: Is the Insurance Industry Really Ready for Electronic Transactions? Issue: 2013:08–19, http://www.insurance-advocate.com/E-Commerce-Is-the-Insurance-Industry-Really-Ready-for-Electronic-Transactions-c1546.html

Insurance Information Institute (2014) Buying Insurance: Evolving Distribution Channels, http://www.iii.org/issues_updates/buying-insurance -evolving-distribution-channels.html

International Association of Insurance Supervisors (2004) Principles on the Supervision of Insurance Activities on the Internet.

http://www.dgsfp.mineco.es/sector/documentos/IAIS/PRINCIPIOS%20INGLES/PR INCIPIO%204%20EN%20Principles on the supervision of insurance activities o

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Prudential Regulation Authority, Bank of England (2013) The Prudential Regulation Authority' Approach to insurance supervision.

http://www.bankofengland.co.uk/publications/Documents/praapproach/insuranceappr1304.pdf

UNCITRAL, Model Law on Electronic Commerce (1996),

http://www.uncitral.org/uncitral/en/uncitral_texts/electronic_commerce/1996Mod el.html

Uniform Law Commission, Electronic Act Summary,

http://www.uniformlaws.org/ActSummary.aspx?

title=Electronic%20Transactions%20Act

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Editor information

Editors and Affiliations

Catholic University of the Sacred Heart, Faculty of Banking, Finance and Insurance Sciences, , Milan, Milano, Italy

Pierpaolo Marano

Department of Business Administration, Athens University of Economics and Business, Athens, Attiki, Greece

Ioannis Rokas

School of Law, University of Connecticut, , Hartford, Connecticut, USA

Peter Kochenburger

Rights and permissions

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

Publish with us

Policies and ethics [2]

Search

Search by keyword or author

Your privacy, your choice

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies

We use essential cookies to make sure the site can function. We, and our 93 **partners**, also use optional cookies and similar technologies for advertising, personalisation of content, usage analysis, and social media.

By accepting optional cookies, you consent to allowing us and our partners to store and access personal data on your device, such as browsing behaviour and unique identifiers. Some third parties are outside of the European Economic Area, with varying standards of data protection. See our **privacy policy** for more information on the use of your personal data. Your consent choices apply to springer.com and applicable subdomains.

You can find further information, and change your preferences via 'Manage preferences'. You can also change your preferences or withdraw consent at any time via 'Your privacy choices', found in the footer of every page.

We use cookies and similar technologies for the following purposes:

Store and/or access information on a device

Personalised advertising and content, advertising and content measurement, audience research and services development

Accept all cookies

Reject optional cookies