

# Reinventing Data Protection?

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Editors

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 Springer

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## Foreword by Karel De Gucht, Deputy Prime Minister and Minister of Foreign Affairs of Belgium

Twenty-first century world citizens are living at the crossroads of an ever expanding network of international trade-, investment-, travel-, communications- and knowledge flows. Modern societies find their dynamism in the free flow and competition of ideas and the free access to a wide range of information channels and pluralistic media.

Citizens discover new ways to develop their fundamental freedoms. Travelling across the globe – which a Minister for Foreign Affairs also does quite often – mobile ICT-technology allows us to stay abreast of developments at home or elsewhere. Credit cards – with microchips – also allow us to pay bills in virtually every hotel in the world.

MIT Professor Henry Jenkins has even developed the notion of ‘*twenty-first century literacy*’, based on the ability to read and write but also digital skills to participate socially and collaboratively in the new media environment. These include: *instant messaging, Myspace, sampling, zines, mashups, Wikipedia, gaming and spoiling*.

Citizens in the developing world too use technological advancements to their maximal benefit. The introduction of mobile telecommunication in Sub-Saharan Africa is a good example. Faraway regions reconnect with their capital and the rest of the country, on which they often depend for the delivery of basic services. In many villages, citizens can either rent a mobile phone or make use of a collective mobile phone. The creation of a ‘*Virtual Souk*’ on the Internet is another good example. Hundreds of craftsmen – in fact mostly women – in Morocco, Tunisia, Lebanon and Egypt suddenly gained direct access to the global market. Their sales volumes soared and their profit margins rose significantly.

These developments – often driven by new technologies – also bring along new threats for the individual citizen and for our modern, open society: such as identity theft, discriminatory profiling, continuous surveillance or deceit. That is why we must protect ourselves against the illegal use and the abuse of sensitive knowledge, technology and skills.

Within Europe, the individual’s right to privacy is firmly embedded in the *European Convention on Human Rights and Fundamental Freedoms* of 1950. The Council of Europe reaffirmed these rights in 1981 when it adopted *Convention 108 for the protection of individuals with regard to the automatic processing of personal*

*data*. Furthermore, the European Union established clear basic principles for the collection, storage and use of personal data by governments, businesses and other organizations or individuals in *Directive 95/46/EC* and *Directive 2002/58/EC on Privacy and Electronic communications*.

Nonetheless, the twenty-first century citizen – utilizing the full potential of what ICT-technology has to offer – seems to develop a *digital persona* that becomes increasingly part of his individual social identity. From this perspective, control over personal information is control over an aspect of the identity one projects in the world. The right to privacy is the freedom from unreasonable constraints on one's own identity.

Transaction data – both traffic and location data – deserve our particular attention. As we make phone calls, send e-mails or SMS messages, data trails are generated within public networks that we use for these communications. While traffic data are necessary for the provision of communication services, they are also very sensitive data. They can give a complete picture of a person's contacts, habits, interests, activities and whereabouts. Location data, especially if very precise, can be used for the provision of services such as route guidance, location of stolen or missing property, tourist information, etc. In case of emergency, they can be helpful in dispatching assistance and rescue teams to the location of a person in distress. However, processing location data in mobile communication networks also creates the possibility of permanent surveillance.

Because of the particular sensitivity of transaction data the EU adopted in March 2006 a *Directive on the retention of communication traffic data*. This Directive provides for an EU-wide harmonisation of the obligations on providers and for limits on retention periods from six months to two years. Use of traffic data for the purpose of police investigations of criminal offences is regulated by national law.

This brings me to the heart of the ongoing public debate about security and privacy, all too often presented as dichotomous rivals to be traded-off in a zero-sum game. However responsible liberal and democratic policy makers do not have the luxury to balance one against the other. Both are needed.

In a twenty-first century information society, the fundamental freedoms of the individual cannot be protected by opposing technological developments, nor by seeking to control the use of particular technologies or techniques. Such policy preferences reflect the determination of certain authoritarian regimes to cut their citizens off from the rest of the world. Reporters Without Borders published a list of 13 Internet black holes, among which were Belarus, Burma, Cuba, Iran, Syria, Tunisia and Uzbekistan. But China is also mentioned, as the *world's most advanced country in Internet filtering*.

Dan Solove has suggested that a more appropriate metaphor for Data Protection than Orwell's *Big Brother* is Kafka's *The Trial*. I tend to agree with him. The concern is of a *more thoughtless process of bureaucratic indifference, arbitrary error and dehumanization, a world where people feel powerless and vulnerable, without meaningful form of participation in the collection and use of their information*.

Recent academic literature (Taipale, NY Law School professor) highlights the potential of 'value sensitive technology development strategies in conjunction with

policy implementations'. Privacy concerns are taken into account during design and development. Technical features can be built in to enable existing legal control mechanisms and related due process procedures for the protection of fundamental freedoms of the individual. Technical requirements to support such strategies include rule-based processing, selective revelation of personal data and strong credentials and audits.

The *particular privacy concerns* most implicated by employing advanced information technology for proactive law enforcement are primarily three. First, the *Chilling effect* or the concern that potential lawful behaviour would be inhibited due to potential surveillance. Two, the *Slippery slope* or the tendency to use powerful – but very intrusive – tools for increasingly pettier needs until, finally, we find ourselves in a situation of permanent surveillance. And three, the potential for *abuse or misuse*.

Programming code can never be law but code can bind what law, norms and market forces can achieve. Technology itself is neither the problem nor the solution. It presents certain opportunities and potentials that enable or constrain our public policy choices.

New technologies do not determine human fates: they rather alter the spectre of potentialities within which people act. An inter-disciplinary public debate is needed. Data protection is ultimately the shared responsibility of the individual, twenty-first century citizen, technology developers and policy makers together, next to that of data protection commissioners.

Karel De Gucht

# Preface

In November 2007, the ‘law and technology’ research centres LSTS from the Vrije Universiteit Brussel, CRID from the University of Namur and TILT from Tilburg University co-organized the successful *Reinventing Data Protection?* conference in Brussels.<sup>1</sup> The conference gathered 150 people from all sectors of activities: universities, international, European and national administrations, companies, civil society associations, data protection authorities etc. and all were ready and interested to discuss the future of data protection in a society where information systems increasingly determine our destiny and shape our relations with our environment of humans and non-humans.

One of the roles of a university, *a fortiori* in the human sciences, is definitely to be a facilitator and stimulator of open and straightforward debates in a context of robust and tested knowledge. Such a role is certainly not neutral, since it urges all the stakeholders to revisit the genealogy and foundations of societal concepts and values in order to reshape and reframe political and societal discussion. Our explicit goal was to collectively re-initiate and invigorate the debate on data protection and its main concepts and objectives. In our opinion this debate is crucial and urgent, since our relationships with our physical or virtual co-humans, with the society as a whole and with things (that become ‘intelligent’) have drastically changed as a result of the introduction of powerful, ubiquitous and vital technologies in our lives. Since societies steadily reshape and rebuild themselves, it comes as no surprise that a tool such as data protection is in need of reinvention.

Let us shortly elaborate on the various reasons we had for initiating such debate.

1. **Why this debate?** At first glance it appears that data protection today receives more recognition, particularly from a legal perspective. The recently adopted EU Charter of Fundamental Rights erects data protection as a new fundamental right on an equal footing with the freedom of expression or the right to a fair trial. Also, more and more national constitutions are amended with a separate right to

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<sup>1</sup> The conference was also co-organised and supported by the VUB instituut voor PostAcademische Vorming (iPAVUB) and the Vlaams-Nederlands Huis deBuren. It was further supported by the European Commission, the Fonds voor Wetenschappelijk Onderzoek (FWO) and the Fonds National de la Recherche Scientifique (FNRS).

data protection next to the more classical right to privacy. But beyond this formal recognition of a new constitutional right, a lot of interrogations remain. Is there a need to rethink the foundations of data protection in today's information society? What are the relationships between the 'old' constitutional right to privacy and its new counterpart, the constitutional right to protection of personal data?

The EU Charter of Fundamental Rights can, as Rodotà writes, be considered as the final point of a long evolution, separating privacy and data protection: from that point of view, the reinvention of data protection is ongoing, or more precisely, starting now.

In their former work De Hert and Gutwirth<sup>2</sup> described privacy and data protection as different but complementary fundamental rights. In order to devise accurate and effective privacy and data protection policies they must remain sharply distinguished. For these authors, by default, privacy law protects the opacity of the individual by prohibitive measures (non-interference), while data protection, also by default, calls for transparency of the processor of personal data enabling its control by the concerned individuals, states and special authorities. While privacy builds a shield around the individual, creating a zone of autonomy and liberty, data protection puts the activity of the processor in the spotlight, gives the individual subjective rights to control the processing of his/her personal data and enforces the processor's accountability. Opacity tools, such as privacy set *limits* to the interference of the power with the individuals' autonomy and as such, they have a strong normative nature, while transparency tools, such as data protection, tend to regulate accepted exercise of power by channelling, regulating and controlling. In their contribution De Hert and Gutwirth focus on the future of data protection, after its consecration as a fundamental right in the 2000 EU Charter of Fundamental Rights. Using Lessig's typology, the Charter should be regarded as a 'transformative constitution' rather than as a 'codifying constitution'. Of these two types, the transformative constitution is clearly the more difficult to realize, since it must act when the constitutional moment is over. This is a good reason to focus upon the current process of constitutionalisation of data protection by the European Court on Human Rights in Strasbourg and the Court of Justice of the European Communities in Luxemburg.

Next to this, Rouvroy and Pouillet and Hosein endorse the need to enlarge and deepen the privacy debate: they see privacy as a prerequisite for a living and non discriminatory democracy. For Rouvroy and Pouillet the fundamental right to privacy fosters the autonomic capabilities of individuals that are necessary for sustaining a vivid democracy, which notably presupposes the right to seclusion or to opacity. The importance of privacy today then derives from the support it provides for individuals to develop both reflexive autonomy allowing to resist

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<sup>2</sup> De Hert P. and S. Gutwirth, 'Privacy, data protection and law enforcement. Opacity of the individual and transparency of power' (2006) in E. Claes, A. Duff & S. Gutwirth (eds), *Privacy and the criminal law*, Antwerp/Oxford, Intersentia, pp. 61–104.



social pressures to conform to dominant drifts and deliberative abilities allowing participation in deliberative processes.

Finally, the notion of human dignity is often invoked as the ultimate basis for the recognition of privacy. Several authors highlight that data protection legislation is grounded on important ethical values, human dignity being one of them. Identifying these values might help to correctly interpret data protection rules in a still changing context (Rodotà and Rouvroy and Pouillet).

2. **Why this debate?** Our conference gave the floor to all stakeholders in the current process of reinvention of data protection. We considered this to be an urgent necessity because the new information society environment raises still more fundamental political, economical and ethical issues, which need to be addressed with tools and actions stemming from different horizons. Data subjects are not only concerned as (net)citizens, concerned about their fundamental liberties but also as adequately and inadequately profiled consumers and as monitored and tracked employees at the workplace and even at home. Data subjects claim for collective bargains and for being more associated and implied in the design of the information systems surrounding them. Data controllers are acting individually and collectively, ready to discuss with their counterparts, acting on behalf of data subjects.

Building on previous work<sup>3</sup> Raab and Koops seek to develop a policy actor-based approach to data protection problems by looking into the actors' roles from empirical and normative standpoints, by considering actors' relationships to each other and to the instruments, by considering the levels or arenas in which they participate and by seeking greater clarity about the processes that are involved. They finish with some suggestions for adapting some of the roles within the cast of various actors, including the role of technology developers that may positively contribute to the future of privacy protection.

Importantly, the EU Charter of Fundamental Rights has constitutionally endorsed the fundamental role of the data protection authorities (DPA's) not only to solve concrete litigations or to give opinions on specific draft legislations or decisions but above all to incite democratic debates on strategic and prospective issues and challenges and to feed the different actors' reflections. To bring those tasks to a good end, the data protection authorities must be enabled to act in complete independence. Hustinx convincingly shows that this independence is not only a question of legal and political status but it must be conquered through the provision of adequate means and with the support from other stakeholders.

3. **Why this debate?** Because we have to rethink and reinvent some of the concepts laid down by current data protection legislation.
  - Firstly, the different data protection legislations have been constructed upon concepts closely related to the nature of the data at stake (personal data v. non

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<sup>3</sup> Bennet, C. and Raab, C. (2006) *The Governance of Privacy: Policy Instruments in Global Perspective* (2nd edn.), Cambridge, MA: MIT Press.

personal data; sensitive data v. non sensitive data). However, it has clearly become even more obvious that if the prime concern is the preservation of the citizen's autonomy, the concept of personal data turns out to be problematic and no longer seems to be appropriate: surveillance societies work with profiles and technology that are able to detect or predict behaviour without necessarily processing personal data. As regards the profiling techniques used both by public authorities and private companies, Hildebrandt denounces their reductionism and opacity, which destroys any possibility of self-determination for the citizens. To her, the focus on personal data must be complemented with a persistent focus on the dynamic profiles that will soon have more impact on life than trivial or non-trivial data. Consequently, she holds a plea for the recognition of a right of access to profiles and of a right to contest the validity or the fairness of the application of a profile. To be effective, Hildebrandt contends, these rights need to be complemented with legal obligations for those that construct and apply profiles and they need to be inscribed in the technological infrastructure against which they aim to protect.

- Secondly, data protection legislation only takes into account a limited number of actors, focusing on data controllers and data subjects. But today technology and information systems are introducing new actors whose intervention create new risks: the terminal equipment producers and the infrastructure operators. How to address these new risks and how to assign an appropriate liability to these actors? Dinant points out that the Article 29 Working Group has recently stressed the 'responsibility for data protection from a societal and ethical point of view of those who design technical specifications and those who actually build or implement applications or operating systems'. This being said and proclaimed, is it socially acceptable that there is no well-defined legal liability for those actors?
- Thirdly, all data protection regulatory instruments, national legislation or international conventions, self-regulatory instruments or public regulations do implicitly refer to a common and universal list of minimal guarantees that already seem to have an universal character. Indeed, international privacy standards have already been defined for more than a quarter of a century, expressed in the OECD Guidelines and in the Council of Europe Convention 108. However, de Terwangne contends that the last international data protection instrument, the Asian-Pacific Economic Cooperation (APEC) Privacy Framework adopted in 2004, weakens these standards, even if it nevertheless expresses the expansion throughout the world of the concern about data protection. The development of the Internet has rendered this concern critical. ICT developments in general and the tremendous growth of their use in all human activities have also shown the necessity to enrich the fundamental data protection principles with additional principles meant to maintain the balance between the efficiency of the technological tools and the power of their users on one side and the rights and interests of the individuals, data subjects, on the other side.

- Fourthly, can we consider that the regulatory concepts of data protection legislation – consent and proportionality – put in place for limiting the data processors’ right to collect and process information have to be renewed and rethought? Consent and proportionality indeed play a fundamental role for legitimizing their processing. Perhaps these concepts must be deeply renewed given, as Bygrave and Shartum describe, that the ‘consent’ often turns out to be formal, rarely free and often unavoidable and that the principle of proportionality shows a persistent lack of teeth. Nevertheless, Brownsword fundamentally defends consent as a central concept in the data protection regime and he argues that data protection regimes should be based on right-based consent, rather than on duty-based confidentiality obligation. This is especially the case insofar as the information society evolves into an IT-enabling profiling community in which processing and profiling are carried out on a daily basis by much less visible operators. But for Brownsword there is more at hand: the option for a right-based approach, as opposed to dignitarian and utilitarian positions, fits into Europe’s commitment to human rights: the consent of the right holders must stay as a cornerstone in data protection regime.

Bygrave and Schartum explore if new forms of collective consent and new procedures to establish the proportionality of the data processing would be needed, since both consent mechanisms and the principle of proportionality suffer certain weaknesses. Mechanisms for *collective exercise of consent* are probably hard to realize under the present legal limitations. Yet the authors contend that collective consent could both bolster the position of the individual data subject towards data controllers and make proportionality as a principle guiding consent more likely.

On this issue, Berkvens refers to the ‘Consumer privacy Approach’ adopted by certain recent new US-legislations: such an approach clearly favours collective agreements defining the conditions and modalities of the data processing. Such an approach would also recognise the importance of the consumer’ education and information and lead to class actions that might enhance the effectiveness of data protection. Berkvens concludes by pleading for restarting the dialogue between the entrepreneur and the consumer.

4. **Why this debate?** How to face the new networked and global world wherein our relationships and actions become still more formatted by technological devices and a long list of diffuses economic, social and political interests? Undoubtedly, the normative instruments need to take into account such new characteristics through different means.
  - Attention must indeed be paid to ways to regulate privacy and data protection beyond the national borders. Self-regulation, for instance, offers methods to increase the effectiveness of data protection principles, such as labelling systems, privacy policies and Alternative Dispute Resolution mechanisms. Such ways offer credible complementary or alternative tools for the traditional legislative approach. The value of self regulatory instruments must nevertheless

be assessed according to certain criteria such as the legitimacy of their authors (since it is quite clear that the more the different stakeholders are represented in the drafting and evaluating process of these instruments, the more it will be difficult to dispute them), the degree to which they substantially comply with the Fair Information Principles and their effectiveness and enforcement mechanisms.

- If technology constitutes the risk, technology might well also offer a solution for protecting privacy. Pursuing this idea, Winn underlines the attention paid by the data protection authorities to standardisation bodies and the need for these private or public institutions to dedicate sufficient consideration to the privacy requirement in the definition of the norms. She explores the costs and benefits of trying to integrate technical standards into European data protection laws as a possible strategy to enhance compliance and enforcement efforts. Accepting the discipline imposed by ‘better regulation’ principles and adopting new perspectives on the legitimacy of regulatory bodies, might increase the chances that ICT standards can be harmonized with data protection laws, which in turn might increase the practical impact of those laws. Dinant briefly demonstrates how the transclusive hyperlinks feature, embedded in recent browsers, permits Google to tap in real-time a substantial part of the clickstream of every individual surfing on the net, even if not using the Google search engine. The call for a value-sensitive design of terminal equipments and of the infrastructure is in line with a new broad approach far beyond the limits of the data protection legislation.
- Trudel suggests a new approach founded on risk management, which turns down any dogmatic vision, be it the legislative interventionist or the liberal one. He convenes all the different stakeholders to analyse the risks involved and to assign the adequate remedy at each level of the information systems. From that perspective the author describes a ‘networked normativity’, which should be built up in a transparent way.
- It also means that the laws guaranteeing privacy and enforcing data protection must evolve as to fit the technological and socio-political evolutions generating new threats for the individuals’ capacity for ‘self-development’ of their personality. According to the German Constitutional Court’s opinion the development of the data processing technologies obliges the State to revise and adapt the guarantees it provides to the individuals in order to protect and foster the capabilities needed to implement their right to freely self-determine their personality. In the circumstances of the day, the legal protections offered to the individuals’ capabilities for self-development would probably need to address the specific threats accompanying the development of ubiquitous computing and ambient intelligence, as stated by Rouvroy and Poullet, Hildebrandt and Rodotà.

5. **Why this debate?** Certain specific privacy issues are particularly pertinent and should be focused upon.

- Firstly, privacy is most certainly a fundamental liberty but its protection might hinder other liberties or prejudice security interests. Szekely analyses the possible conflicts between freedom of expression and privacy. According to the author ‘privacy’ and ‘freedom of information’ are neither friends, nor foes of each other but complementary concepts. However, both concepts have conflicting areas and Szekely discusses these areas from two perspectives: the private life of the public servant and the information about collaborators of former (dictatorial) regimes that could constitute ‘data of public interest’. Furthermore, both information privacy and freedom of information have been put at risk by the restrictions in the post-9/11 era. Szekely concludes by proposing the use of a checklist for decision-makers that could help to limit the restrictions of information privacy and freedom of information to the extent that is both necessary and sufficient but also reversible.

Next to the freedom of information the claim for security is often evoked to justify interferences and restrictions of the citizens’ liberties. The need to maintain the priority to our liberties and to consider security as an exception that might be invoked only under strict conditions, justifies the adoption at the EU level of a framework agreement, which applies the same concepts in the third and the second EU pillars as in the first pillar. However, Alonso-Blas does not favour such an approach. To her, data protection in the third pillar area should of course be based on the common principles established in Convention 108 and further developed in Directive 95/46/EC but requires a careful consideration of the specific nature of personal data processing in this sector. The particular features of police and judicial work need to be taken into account: in fact, there is a need for very clear and specific tailor-made rules for the diverse areas of activity within the third pillar field.

For Nouwt to protect personal data in the third EU pillar adequately, it is important to tune the economic data protection approach by the EU with the human rights approach by the Council of Europe. This could and should result in a common approach for data protection within ‘the two Europes’ and perhaps even beyond.

- Secondly, the global dimension of the information society obliges all the countries to adopt common rules at an international level in order to effectively protect privacy and personal data. This has recently been requested not only by the World Summit of the Information Society (WSIS) in Tunis but also by Google. On that point, de Terwangne opposes two approaches, namely the APEC self-regulatory model and the EU legislative model. The recent Council of Europe Convention on Cybercrime – opened to the signature of all countries, with growing success – definitively demonstrates that it is possible to find solutions suiting all actors. While waiting for this international consensus, the solution proposed by article 25 of EU Directive 95/46/EC as regards the Transborder Data Flows has however been firmly criticised. In Kuner’s opinion, this legal framework is inadequate, in both a procedural and substantive sense and needs reforming. Kuner describes the procedural problems in a very original and mathematical way, concluding that

there are only 78 potential adequacy candidate countries and that it would take 130 years for these countries to be considered adequate. More substantially, the adequacy provisions are contained in a separate chapter in the Directive and are not part of the general rules on the lawfulness of the processing of personal data. Furthermore, it appears that in its adequacy decisions, the European Commission does not always require third countries to prohibit the transfer to non-adequate countries. Kuner concludes that for a number of reasons, an accountability or liability approach (accountability for the data controller) would be more efficient and effective than the adequacy standard.

As concluded by Burkert and by many of the contributions of this book, the constitutional acknowledgment of data protection as a fundamental right should be considered not only as an achievement but also and more important, as a new starting point. The recognition of the fundamental right to data protection is directed towards the future. It has a transformative stance and should create the opportunity of a dynamic participative, inductive and democratic process of ‘networked’ reinvention of data protection (rather than a contained and reductive legal exercise). We will be happy editors if the present book succeeds in contributing to the seizing of this opportunity.

In respect of the diversity of nationalities, disciplines and perspectives represented in this book, the editors and the publisher have left the choices concerning the use of reference systems and spelling to the authors of the contributions.

Serge Gutwirth  
Yves Poulet  
Paul De Hert  
Cécile de Terwangne  
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# Contents

## Part I Fundamental Concepts

- 1 **Data Protection in the Case Law of Strasbourg and Luxemburg: Constitutionalisation in Action** ..... 3  
P. De Hert and S. Gutwirth
- 2 **The Right to Informational Self-Determination and the Value of Self-Development: Reassessing the Importance of Privacy for Democracy** ..... 45  
Antoinette Rouvroy and Yves Poullet
- 3 **Data Protection as a Fundamental Right** ..... 77  
Stefano Rodotà
- 4 **Consent in Data Protection Law: Privacy, Fair Processing and Confidentiality** ..... 83  
Roger Brownsword
- 5 **The Concepts of Identity and Identifiability: Legal and Technical Deadlocks for Protecting Human Beings in the Information Society?** ..... 111  
Jean-Marc Dinant

## Part II The Actors

- 6 **Role of Trade Associations: Data Protection as a Negotiable Issue** ... 125  
Jan Berkvens
- 7 **The Role of Data Protection Authorities** ..... 131  
Peter Hustinx

<b>8</b>	<b>The Role of Citizens: What Can Dutch, Flemish and English Students Teach Us About Privacy?</b> .....	139
	Ronald Leenes and Isabelle Oomen	
<b>Part III Regulation</b>		
 <b>9</b>	 <b>Consent, Proportionality and Collective Power</b> .....	 157
	Lee A. Bygrave and Dag Wiese Schartum	
 <b>10</b>	 <b>Is a Global Data Protection Regulatory Model Possible?</b> .....	 175
	Cécile de Terwangne	
 <b>11</b>	 <b>Technical Standards as Data Protection Regulation</b> .....	 191
	Jane K. Winn	
 <b>12</b>	 <b>Privacy Actors, Performances and the Future of Privacy Protection</b> .	 207
	Charles Raab and Bert-Jaap Koops	
<b>Part IV Specific Issues</b>		
 <b>13</b>	 <b>First Pillar and Third Pillar: Need for a Common Approach on Data Protection?</b> .....	 225
	Diana Alonso Blas	
 <b>14</b>	 <b>Who is Profiling Who? Invisible Visibility</b> .....	 239
	Mireille Hildebrandt	
 <b>15</b>	 <b>Challenges in Privacy Advocacy</b> .....	 253
	Gus Hosein	
 <b>16</b>	 <b>Developing an Adequate Legal Framework for International Data Transfers</b> .....	 263
	Christopher Kuner	
 <b>17</b>	 <b>Towards a Common European Approach to Data Protection: A Critical Analysis of Data Protection Perspectives of the Council of Europe and the European Union</b> .....	 275
	Sjaak Nouwt	
 <b>18</b>	 <b>Freedom of Information Versus Privacy: Friends or Foes?</b> .....	 293
	Ivan Szekely	



**19 Privacy Protection on the Internet: Risk Management and Networked Normativity** ..... 317  
Pierre Trudel

**Towards a New Generation of Data Protection Legislation** ..... 335  
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**Roger Brownsword** is a graduate of the London School of Economics. Since September 2003, he has been professor of law at King's College London and honorary professor of law at the University of Sheffield. He is director of a newly formed research centre (TELOS), based on the School of Law at KCL that focuses on regulation, ethics and technology.

Professor Brownsword acted as a specialist adviser to the House of Lords' Select Committee on Stems Cells and, more recently, to the House of Commons'

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He has published some 200 papers; his latest books are *Rights, Regulation and the Technological Revolution* (OUP, 2008) and a co-edited collection, *Regulating Technologies* (Hart, 2008); and he is the general editor of a newly launched journal, *Law, Innovation and Technology*.

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Gutwirth founded and still chairs the VUB-research group Law Science Technology & Society (<http://www.vub.ac.be/LSTS>). He publishes widely in Dutch, French and English. Currently, Serge Gutwirth is particularly interested both in technical legal issues raised by technology (particularly in the field of data protection and privacy) and in more generic issues related to the articulation of law, sciences, technologies and societies.

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Koops studied mathematics and general and comparative literature at Groningen University, the Netherlands. He did a PhD in law at Tilburg University and Eindhoven University of Technology with a dissertation on cryptography regulation in 1999. He has co-edited five books in English on ICT regulation and published many articles and books in English and Dutch on a wide variety of topics. Koops' WWW Crypto Law Survey is a standard publication on crypto regulation of worldwide renown. He gave invited lectures in the U.S. at the University of Dayton, Ohio, and George Washington University, Washington, D.C., and in the U.K. at King's College London.

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**Part I**  
**Fundamental Concepts**

# Chapter 1

## Data Protection in the Case Law of Strasbourg and Luxemburg: Constitutionalisation in Action

P. De Hert and S. Gutwirth

*Although the 'formal' protection of the right to respect for private life, at least in areas covered by the first pillar, is in essence relatively satisfactory, there are concerns surrounding the weakening of the 'substantial' protection of that right.<sup>1</sup>*

### 1.1 Formal or Political Constitutionalisation

#### 1.1.1 The Underlying Interests of Data Protection

It is impossible to summarise data protection in two or three lines. Data protection is a catch-all term for a series of ideas with regard to the processing of personal data (see below). By applying these ideas, governments try to reconcile fundamental but conflicting values such as privacy, free flow of information, the need for government surveillance, applying taxes, etc. In general, data protection does not have a prohibitive nature like criminal law. Data subjects do not own their data. In many cases, they cannot prevent the processing of their data. Under the current state of affairs, data controllers (actors who process personal data) have the right to process data pertaining to others. Hence, data protection is pragmatic; it assumes that private and public actors need to be able to use personal information because this is often necessary for societal reasons. Data protection regulation does not protect us from data processing but from unlawful and/or disproportionate data processing.

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<sup>1</sup> Report on the First Report on the Implementation of the Data Protection Directive 95/46/EC, Committee on the Citizens' Rights and Freedoms, Justice and Home Affairs, European Parliament, Session Document, 24 February 2004 (Final A5-0104/2004), p. 13 [http://ec.europa.eu/justice\\_home/fsj/privacy/docs/lawreport/ep\\_report\\_cappato\\_04\\_en.pdf](http://ec.europa.eu/justice_home/fsj/privacy/docs/lawreport/ep_report_cappato_04_en.pdf)

Data protection regulation's real objective is to protect individual citizens against unjustified collection, storage, use and dissemination of their personal details.<sup>2</sup> This objective seems to be indebted to the central objective of the right of privacy, to protect against unjustified interferences in personal life. Many scholars therefore hold data protection and privacy to be interchangeable. Data protection is perceived as a late privacy spin-off. We will come back to the relationship between privacy and data protection below. What we would like to underline here is that data protection regulation does a lot more than echoing a privacy right with regard to personal data. It formulates the conditions under which processing is legitimate. This entails, among other things that data must be processed fairly, for specified purposes and, on the basis of the consent of the person concerned or some other legitimate basis laid down by law. Data protection also prohibits certain processing of personal data, for instance 'sensitive data'.<sup>3</sup> A key principle to determining what is legitimate and what is prohibited is the purpose specification principle: data may only be processed when it is collected for specified, explicit and legitimate purposes and not further processed in a way incompatible with those purposes. Next to these guidelines on legitimate and unlawful processing, few specific subjective rights are granted to the data subject. These are *inter alia* the right to be properly informed, the right to have access to one's own personal data, the right to have data rectified the right to be protected against the use of automated profiling, the right to swift procedures in court, the right to assistance by Data Protection Authorities (DPAs) which are competent for a variety of tasks and enjoy broad discretionary powers (reporting, monitoring, complaints handling, rule development, enforcement), a right upon security measures to be implemented by 'controllers' and 'processors' and the right that only relevant data will be gathered and that they will not be disclosed except with consent of data subject or by authority of law.

We see data protection as a growing body of rules and principles that need to be taken into account by the legislator in drafting laws and by 'controllers' and 'processors of personal data'. This process is never over. New rules and principles are called for every time new challenges arise due to new (technological) developments. It is therefore not easy to define the underlying interest of data protection. Just as there are many visions of privacy in literature from narrow visions (*protection of the intimate sphere* proposed by *inter alia* Wacks, Inness),<sup>4</sup> older visions (*the*

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<sup>2</sup> P.J. Hustinx, 'Data protection in the European Union', *Privacy & Informatie*, 2005, No. 2, (pp. 62–65), p. 62.

<sup>3</sup> Data protection law includes extra safeguards with regard to the processing of sensitive data or 'special categories of data', such as data on ethnicity, gender, sexual life, political opinions or the religion of the person. The special responsibility of the data processor towards sensitive data can be explained by the fact that the information at stake, for example medical data, belongs to the core of a person's private life. It is exactly this kind of information that individuals generally do not wish to disclose to others.

<sup>4</sup> Raymond Wacks, 'The Poverty of Privacy', *Law Quarterly Review*, 1980, vol. 96, p. 73 ff.; Julie C. Inness, *Privacy, Intimacy, and Isolation*, Oxford. University Press, 1992.

right to be let alone proposed by Warren & Brandeis or the dignity approach),<sup>5</sup> newer visions ('identity' as proposed by Hildebrandt)<sup>6</sup> over to broader visions (*privacy as freedom and informational self-determination* proposed by inter alia Westin and Gutwirth),<sup>7</sup> there are many possible 'readings' regarding the interests underlying data protection and their priority, ranging from autonomy, informational self-determination, balance of powers, informational division of powers, over integrity and dignity, to democracy and pluralism.<sup>8</sup>

### ***1.1.2 Formal Constitutionalism and the History of Data Protection***

The history of European data protection is a well-known example of legal creativity and perseverance of some of the visionary in the policy making world, realizing that the right to privacy in Article 8 of the European Convention for the protection of human rights and fundamental freedoms (ECHR), adopted in 1950, needed to be complemented to meet some of the challenges created by emerging technologies in the 1970s.<sup>9</sup> In the early 1970s the Council of Europe concluded that Article 8 ECHR suffered from number of limitations in the light of new developments, particularly in the area of information technology: the uncertain scope of private life, the emphasis on protection against interference by public authorities, and the insufficient response to the growing need for a positive and proactive approach, also in relation to other relevant organisations and interests.<sup>10</sup> As a consequence,

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<sup>5</sup> Samuel D. Warren & Louis D. Brandeis, 'The Right to Privacy', *Harvard L. Rev.* 1890, pp. 195–215; Edward J. Bloustein, Privacy as an Aspect of Human Dignity: An Answer to Dean Prosser' *N.Y.U. L. REV.*, 1964, Vol. 39, p. 962 ff.

<sup>6</sup> M. Hildebrandt, 'Privacy and Identity', in Claes, E., Duff, E., Gutwirth, S. (eds.), *Privacy and the Criminal Law*, Antwerp- Oxford: Intersentia 2006, pp. 43–58.

<sup>7</sup> F. Westin, *Privacy and Freedom*, Bodley Head, London, 1967; S. Gutwirth, *Privacy and the information age*, Lanham/Boulder/New York/Oxford, Rowman & Littlefield Publ., 2002, 146p.

<sup>8</sup> E. Brouwer, *Digital Borders and Real Rights*. Nijmegen, Wolf Legal Publishers, 2007, (501p.), p. 170–175; P. De Hert & S. Gutwirth, 'Privacy, data protection and law enforcement. Opacity of the individual and transparency of power' in E. Claes, A. Duff & S. Gutwirth (eds.), *Privacy and the criminal law*, Antwerp/Oxford, Intersentia, 2006, p. 61–104; L. Bygrave, *Data Protection Law: Approaching Its Rationale, Logic and Limits*, Deventer, Kluwer Law International, 2002, 448p.; L. Bygrave, 'Regulatory logic of data protection laws', February 2007, (2p.), p. 1 (via <http://www.uio.no/studier/emner/jus/jus/JUR5630/v07/undervisningsmateriale/lecture5v07.doc>). Cf. the contribution of Pouillet and Rouvroy in this book.

<sup>9</sup> See in more detail: P. De Hert & S. Gutwirth, 'Making sense of privacy and data protection. A prospective overview in the light of the future of identity, location based services and the virtual residence' in Institute for Prospective Technological Studies-Joint Research Centre, *Security and Privacy for the Citizen in the Post-September 11 Digital Age. A prospective overview*, Report to the European Parliament Committee on Citizens' Freedoms and Rights, Justice and Home Affairs (LIBE), July 2003, IPTS-Technical Report Series, EUR 20823 EN, p. 125–127. See also Birte Siemen, *Datenschutz als europäisches Grundrecht*. Berlin: Duncker & Humblot, 2006. 351 p. See on this excellent study the book review by Cornelia Riehle, *CML Rev.* 2007, pp. 1192–1193.

<sup>10</sup> P.J. Hustinx, *l.c.*, p. 62.