In January 2014, the Centre for Information Policy Leadership (the Centre) launched a multi-year project on the risk-based approach to privacy: The Privacy Risk Framework Project. This project elaborates on the Centre’s earlier project on organisational accountability, particularly in seeking to develop the analytical framework and tools needed to implement certain key aspects of accountability. Specifically, the goals of this project are set forth in the following Project Vision Statement:

Principle-based data privacy laws often leave room for interpretation, leaving it both to organisations to make appropriate decisions on how to implement these principles and to regulators on how to interpret and enforce the law. The Privacy Risk Framework Project aims to bridge the gap between high-level privacy principles on one hand, and compliance on the ground on the other, by developing a methodology for organisations to apply, calibrate and implement abstract privacy obligations based on the actual risks and benefits of the proposed data processing. While certain types of risk assessments are already an integral part of accountable organisations’ privacy management programs, they require further development. This project seeks to build consensus on what is meant by privacy risks to individuals (and society) and to create a practical framework to identify, prioritise and mitigate such risks so that principle-based privacy obligations can be implemented appropriately and effectively.

On March 20, 2014, the Centre held a workshop in Paris during which more than 50 privacy experts, industry representatives and regulators discussed their experiences and views with respect to the risk-based approach to privacy, the privacy risk framework and methodology, as well as goals and next steps in this project. This paper, titled “A Risk-based Approach to Privacy: Improving Effectiveness in Practice”, is a developed version of the earlier discussion paper distributed to the participants of the workshop. It incorporates feedback from the Paris workshop and input received in subsequent consultations with Centre members and project participants.
I. **Scope and Objectives**

1. Data protection and privacy laws are meant to protect people, not data. But from what exactly are people being protected? What threats? What harms? What risks?

   “Harm” in this paper is not meant to be a technical term. It simply signifies any damage, injury or negative impact—whether tangible or intangible, economic, non-economic or reputational—to an individual that may flow from the processing of personal data. It extends to any denial of fundamental rights and freedoms. The Privacy Risk Framework Project will explore whether and (if so) how it should also extend to any harms to society at large.

2. At a time when the new information age challenges accepted privacy concepts and practices and strains our limited compliance and enforcement resources, organisations and regulators need to prioritise their activities and find new ways to turn abstract requirements into real and effective privacy protections. In Europe, the notion of data protection as a fundamental human right has been reaffirmed by the European Court of Justice. In other parts of the world, high-level privacy principles continue to be articulated by policy-makers, legislators, courts and commentators. Yet, it is no longer enough—or sufficiently meaningful—to say solely that privacy is a human right and that the laws exist to safeguard “fundamental rights and freedoms”, nor that they are confined solely to existing privacy principles or fair information practices. New times call for new clarity and new pragmatism. A “Risk-based Approach to Privacy” can help deliver greater clarity and more effective data protection on the ground.

3. The risk-based approach goes beyond mere compliance with regulatory requirements. It goes to the heart of what responsible and accountable organisations seek to achieve, how they implement privacy requirements on the ground and how they demonstrate compliance. The risk-based approach may also help to clarify and communicate the underlying rationales for regulation.

4. As the pace of technological change outstrips the conventional thinking of lawmakers, regulators and businesses, it is suggested that a calibrated, risk-based approach may improve the ability of businesses to take a better-informed and better-structured approach to the handling of colossal volumes of personal information that they collect, receive, store, use and share on a daily basis. These issues become more pressing as a greater number of companies seek to design, implement and demonstrate accountability through corporate privacy management programs and an ethical approach, often through programs of corporate and social responsibility. Increasingly, businesses, and their executives and boards need reassurances that their corporate programs are effective, and that they deliver required outcomes, both for the organisations themselves and for the individuals they seek to protect.

5. If the data privacy implications of products, services and other activities can be assessed from the perspective of their impact on individuals, can the likelihood of serious harm be reduced? Can the results of such assessments be reflected in better-targeted privacy programs and other safeguards? Also, how can it be made easier for non-experts to understand what they should—and should not—be
doing? How can privacy officers effectively communicate “the do’s and don’ts” of data privacy to an increasingly disparate audience of technologists, data scientists, privacy engineers and business leaders within their organisations?

6. Could a new consensus on a risk-based approach also help regulators fix and communicate their priorities for interpreting and enforcing the rules? Could it also give businesses more predictability and a better idea of what to expect and how best to avoid regulatory trouble?

7. In the longer term, how might this approach help policy-makers and legislators shape rules for the future that are more effective, less burdensome on businesses and individuals and take into account more precisely the risks to individuals and to the well-being of society, but without disenfranchising the individual?

8. The Centre’s Risk Project follows up on our pioneering work on accountability over the past five years. The project seeks to answer some of these questions and to explore the benefits of taking a more “Risk-based Approach to Privacy”. Specifically, this initial paper sets out issues and key learnings so far, with a first attempt to develop a framework to improve the ability of businesses to understand, identify, assess and manage privacy risks. This framework would also improve organisations’ ability to demonstrate to a third party, including a regulator, their “accountability” by enabling them to show specifically how and why they have reached certain data processing decisions.

II. Emerging Thinking

9. A number of headline messages have started to emerge from various workshops and discussions held in the last couple of years on, or around, the scope for a more risk-based approach.¹

10. In summary, the key messages and findings so far are as follows:

   - A risk-based approach is worth exploring for several reasons, all ultimately focused on improving the effectiveness of privacy protections in practice.

   - A risk-based approach should largely build on existing and emerging legislative provisions which already require consideration of privacy risks to individuals.

¹ In addition to the Centre’s previously mentioned Risk workshop in Paris (see p. 1), these included the Centre’s Accountability project workshops in Warsaw and Toronto, a session on risk at the 35th International Conference of Data Protection and Privacy Commissioners in Warsaw and an informal workshop sponsored by The Privacy Projects in London. The reports of the “Data Use and Impact Global Workshop” and the “Data Protection Principles for the 21st Century” have both drawn attention to the need for greater focus on the risks attendant on the various uses of data. A risk discussion also features heavily in the May 2014 white paper of the World Economic Forum entitled “Rethinking Personal Data: A New Lens for Strengthening Trust”. Further, on May 30, 2014, the Article 29 Data Protection Working Party adopted a “Statement on the role of a risk-based approach in data protection legal frameworks”.

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• The risk-based approach is not meant to replace or negate existing privacy regulation and data protection principles. The approach and risk framework methodology primarily aim to:

a) complement the existing laws and regulations and facilitate the application of existing data protection principles and requirements;

b) help implement the existing legal requirements and privacy principles in a particular context, with greater flexibility and more agility that is required in the new information age, by taking into account the risks to individuals; and

c) improve the delivery of effective data protection in practice—benefitting individuals and organisations seeking more effective, systematic and demonstrable compliance.

• This means, in particular, providing clearer steers for accountable and responsible organisations that seek to “get it right” by preventing problems, often by going beyond compliance with legal requirements and regulators’ expectations. This may be for reputational, commercial or other reasons of enlightened self-interest.

• A risk-based approach has considerable potential to interpret, elaborate and make meaningful requirements and fundamental data protection principles which inevitably are often cast in general terms. Here, it is especially important to meet the growing needs of non-experts in privacy or data protection —engineers, data scientists, clinicians and many others—who need to grapple with these requirements and principles and reflect on the prospective impact of the new technologies and services they are developing.

• While the risk-based approach may be used to calibrate obligations and compliance of organisations, it should not be seen as a dilution of individuals’ rights, nor as a means of avoiding legal obligations.

• A risk-based approach is closely linked to the setting of priorities: “Selective to be Effective”. It helps organisations and regulators to concentrate on what really matters and to avoid wasting scarce resources on less important or bureaucratic requirements that neither benefit individuals nor better protect their information.

• The primary focus should be on significant privacy risks for individuals. In other words, in a given situation, the question should be whether there is a significant likelihood that an identified threat could lead to a recognised harm with a significant degree of seriousness.

• There is a particular benefit in developing a common and objective approach to risk management and an objective notion of harm or adverse impact to individuals that are acceptable and useful to as many businesses and regulators as possible.
• A similar approach might be applied to assessing risks and harms to society, although whether organisations can or should assess societal harms may require further consideration.

• Attempts to manage privacy risks should be integrated as closely as possible alongside well-established risk management processes ….

• …. but any approach must be kept as simple as possible and should be meaningful to SMEs (small and medium enterprises) and individuals as well as to large businesses, public bodies and regulators.

• As a risk-based approach will usually take the organisation beyond legal compliance in particular jurisdictions, it could be used as a tool to build and implement a consistent global program focused on the real priorities. More ambitiously, there is scope to improve the prospects for global interoperability because following a common and consistent methodology to risk assessment would create harmonised practices and outcomes and, in turn, improve trust among regulators and individuals in different jurisdictions. It would also improve the ability of privacy authorities to cooperate on enforcement across borders.

• Any attempt to assess and manage risks in terms of impact on individuals and society would be novel. Hitherto, very few organisations or regulators have taken this as their rationale or motivation. Any structured encouragement for organisations to think in advance about the potentially negative impact of new developments should be welcome.

• Unsurprisingly, there is little agreement on what is meant by the “privacy risks” faced by individuals and society. The identification and classification of privacy risks must be settled before continuing work on how best to address them in a structured way.

• As a starting point, initial consensus on the nature of “privacy risks”, in terms of the threats and harms, would be useful, together with agreed methodologies for assessing likelihood and seriousness and balancing the results against the benefits.

III. Threats

11. When assessing threats, it is important to consider a whole lifecycle of information and data processing. Some threats will be visible at the time of collection, but some will emerge later, during the use or disclosure of data. It is important to note that the threats may also change during the lifecycle of information—old threats may disappear and new ones may become prominent.

12. Threats usually arise from processing personal data, which does or could relate to an identifiable individual. As anonymisation, however, becomes less absolute, all forms of data should be seen as capable of presenting privacy risks.
13. A wide approach to the threats arising over the lifecycle of data should therefore include both *activities* and *characteristics*. It is suggested that the following should be considered as the threats arising from data processing:

- unjustifiable or excessive collection of data;
- use or storage of inaccurate or outdated data;
- inappropriate use of data, including:
  - use of data beyond individuals’ reasonable expectations;
  - unusual use of data beyond societal norms, where any reasonable individual in this context would object; or
  - unjustifiable inference or decision-making, which the organisation cannot objectively defend;
- lost or stolen data; and
- unjustifiable or unauthorised access, transfer, sharing or publishing of data.

14. In each case of the above threats, objective judgments will be needed about the a) likelihood of a threat causing harm to individuals, and b) the severity of that impact if it materialises. This means that the assessment of a threat arising from data processing must always be *contextual*. In other words, a flexibility is required that recognises context as an important factor in determining the level of threat and its potential to cause harm. In a risk-based environment, it is the *use* (including disclosure) of the information that arguably poses the greatest threat and where particular attention must be focused. This also has the advantage of avoiding the familiar practical problems of over-emphasis on collection solely, and of over-reliance on legalistic notice and consent, that result in information overload for individuals. Finally, this approach is also helpful in situations where there is no interface with individuals, or where the data are not collected directly from them.

15. Accordingly, neither information notification to the individual nor consent are by themselves a panacea. A use of personal information may be inappropriate or create significant privacy risks even though that use may have been specified or foreseen. The prominence and the extent of the individual’s freedom of choice will be amongst the factors to consider, and may play a part in conditioning expectations, but neither “small print” disclosure, nor apparent consent, can, by themselves, justify an “unusual” use.

### IV. Harms

16. There are three types of harm\(^2\) that any of the identified threats could present:

- tangible damage to individuals;

\(^2\) See explanation of the term “harm” on page 2.
• intangible distress to individuals; and
• societal.

17. **Tangible damage**, normally physical or economic, includes:

• bodily harm;
• loss of liberty or freedom of movement;
• damage to earning power; and
• other significant damage to economic interests, for example arising from identity theft.

18. **Intangible distress**, assessed objectively, includes:

• detriment arising from monitoring or exposure of identity, characteristics, activity, associations or opinions;
• chilling effect on freedom of speech, association, etc.;
• reputational harm;
• personal, family, workplace or social fear, embarrassment, apprehension or anxiety;
• unacceptable intrusion into private life; and
• discrimination or stigmatisation.

19. For both tangible damage and intangible distress, the harm may be potential (it could or would have this effect) or actual (it will, is having or has had this effect).

20. While risk assessment involves tests of foreseeability, these must be objective descriptors of harm—it is harm imposed on the reasonable man or woman in this context. In the same way as tort law ignores the “egg-shell skull”, the test is not, and cannot be, concerned with the impact on each particular individual, let alone an individual with particular sensibilities. Finally, the test must again be context-driven, although information communicated to the relevant individuals, and any consent they have given, will again be factors.

21. **Societal harm** can arise directly from business activity. But it is more likely where the personal information, quite possibly obtained legally or otherwise from businesses, is used by governmental bodies. It includes:

• damage to democratic institutions, for example excessive state or police power; and
• loss of social trust (“who knows what about whom?”).
V. **A Matrix to Link Threats and Harms**

22. Risk assessment and risk management call for judgment, based upon honest, well-informed and justifiable answers to structured questions about threats and harms. A framework is needed to identify, link and prioritise the various types of threat and harm, ideally in a way that can be easily understood by large and small businesses, by public bodies, by regulators and by individuals.

23. The two draft matrices suggested in Annex 1 demonstrate possible ways of how this might be accomplished in practice. They have been designed as a way of putting privacy on corporate risk radars and getting organisations at least to think about the impact of their activities on the individuals with whom they deal and on the wider community. A framework on these premises—using a common referential—could be initially tested in different contexts by different organisations, not least reflecting varying levels of sophistication and risk aversion. The framework might then mature into a standard template that may, in due course, receive some form of regulatory endorsement to signal a commonly agreed upon approach and become attractive for both organisations and regulators.

VI. **A Matrix as an Organisational Risk Management Tool**

24. It is envisaged that as a new service, product, technology or activity is developed, a business could use a matrix along the lines suggested in Annex 1 to raise questions and structure a series of judgments arising from each of its intersections. Each intersection requires two specific judgments to be made. A numerical scale would add calibration and rigor:

   - i. How **likely** could this harm arise from any relevant threat? Can this be sensibly quantified on a numeric scale?
   - ii. How **serious** would this harm be if it arose from the threat? Can this be sensibly quantified on a numeric scale?

25. Both judgments should be informed by as much hard data and evidence as possible, such as the nature and volume of the data, consumer complaints, consumer perception research or survey results, industry norms, etc. Also, regulatory guidance could provide an important source of relevant data and regulatory expectations relating to likelihood and seriousness of particular harms, including those affecting fundamental rights and freedoms. The point has already been made that both assessments must be applied objectively, using the reasonable person test. Tangible damage will be objective and usually easier to assess but, even for intangible distress, assessments cannot be based on subjective perceptions. Both the likelihood and the seriousness judgments, however, can and should reflect—and feed into the equation—a prospect of serious harm to a few individuals or less significant harm to many individuals.

26. Each intersection—How likely? How serious?—is a function of the level of the threat and the likelihood that the threat will cause harm. The key judgment is whether there is a **significant risk**. In other words, is there a **significant likelihood that the particular threat could lead to the particular harm with a significant**
**degree of seriousness?** Different businesses will have different degrees of risk aversion. Subject to any guidance from its regulator (see below), each business will wish to decide where to fix the level at which a risk is judged to be significant.

27. Where the judgment is made that there is a significant risk—typically as part of an on-going process of risk assessment—appropriate action is then needed to mitigate the risk and implement safeguards to protect individuals from these risks. This might, for example, involve a change of scope, specific safeguards for individuals, or the adoption of a new or improved comprehensive privacy program. A further, post-mitigation, assessment would then be required.

**VII. Factoring in the Benefits**

28. Not only are some threats to privacy more serious than others, privacy itself is not an absolute value, nor is it the only fundamental right. It must be balanced against other human rights, such as personal security and freedom of expression. There is also a need to strike the right balance with the benefits that arise from the public and commercial uses of personal information. The benefits may flow directly to the individuals concerned or they may accrue at a more societal level, e.g. medical research, law enforcement or improved living standards.

29. As part of the process of assessing the nature and extent of privacy risks, it is necessary to factor in the corresponding benefits because understanding the benefits can help to mitigate risks. Risk cannot be eliminated entirely; and even where it is judged that significant risks exist or remain, there will be situations where the benefits sufficiently outweigh the risks.

30. Benefits may accrue to an individual, to the relevant group of individuals, or to a wider public value and society. Benefits to the business alone are unlikely to outweigh a significant risk to individuals, unless those risks are mitigated and specific safeguards implemented. The important point is that the specific benefits must be:
   
   • identified;
   
   • articulated;
   
   • justified by reference to the appropriate external criteria; and
   
   • judged to outweigh the risk.

31. The accountable business must stand ready to demonstrate how that judgment was reached, producing, as appropriate, the relevant information and evidence upon which it relied.

**VIII. The Matrix as a Tool to Prioritise and Guide Regulatory Intervention**

32. Though regulators cannot do everything, their responsibilities and challenges are growing while their resources are limited and sometimes in decline. They must be
Selective to be Effective. They need to concentrate on the serious, not the trivial. How should they set their priorities? How, in particular, do they decide which businesses or activities to target for preventative or enforcement intervention?

33. Here is where a risk management matrix may be useful as a tool for regulators. A consensus based on the language and methodology of a matrix could help regulators fix and communicate their own priorities for interpreting and enforcing the rules. This would be welcomed by businesses as it would give them improved predictability and a better idea of where to focus their own risk assessments. At a minimum, the businesses could adopt a “mirror-image” approach in their efforts to avoid regulatory trouble and exceed compliance requirements.

34. One could speculate on various possibilities for a regulator which adopts or endorses a matrix as its starting point:

- The regulator could signal that it will use that matrix to target industry sectors, particular businesses or activities—anticipating action where it concludes that there is a significant likelihood that a particular threat could lead to a particular harm with a significant degree of seriousness.

- The regulator could indicate that it expects, as a matter of due diligence, all or some businesses to conduct a risk management exercise on these lines, concentrating regulatory attention on situations where a satisfactory exercise has not been conducted.

- The regulator could use the matrix to determine whether the business has adopted appropriate risk mitigations (e.g. limitations, restrictions, safeguards).

35. There would be a further advantage if regulators could communicate tolerance levels to help businesses decide whether a risk is significant. It would be a powerful message, for example, for a regulator to state that, for a particular type of activity, a risk would be significant where the assessment score exceeds a prescribed level.

36. The approach implies that regulators will need to assess the efficacy of risk processes. In keeping with the principle that risks are usually mitigated but seldom eliminated, there may be situations where a regulator concludes the risk assessment process was reasonable and complete but simply disagrees with the end decision. In that situation, the company may be especially exposed if the harm in fact materialises. In other situations, as the FTC has shown with imaginative use of consent decrees which impact on privacy programs, a regulator that finds fault with risk assessments is well placed to ensure constructively that its rulings have positive effects in the future.

37. Finally, a common and consistent use of a risk management matrix by regulators in different countries would lead to much needed consistency and even harmonisation of expected outcomes, even in situations where the underlying rules may not be always the same. The potential for the risk-based approach and risk management matrix to be used globally would be a powerful step forward towards global interoperability.
IX. The Matrix as a Tool Where a Harm Has Been Suffered

38. There is also scope for regulators and courts to use a risk management matrix as a remedial tool where a harm has actually been suffered by one or more individuals. It may help determine how the harm came about, not least in efforts to repeat similar incidents. More directly, the matrix could influence the nature and scale of regulatory sanctions or compensatory redress. It may, in particular, help to decide the foreseeability of the harm that arose from the threat.

39. In a world where regulators rightly pay most attention to those who knowingly ignore their obligations, are cavalier or are repeat offenders, they are entitled to ask for evidence that a risk assessment had been conducted before the activity in question was launched.

40. It is to be expected that a risk-based approach would be accompanied by significantly heavier penalties and sanctions where risk assessment has been nonexistent or manifestly inadequate.

X. Implications for Lawmakers

41. This paper focuses on a risk-based approach as a means of implementing and calibrating existing legal requirements and compliance in practice, to make them more effective. As such, the paper advocates adopting a risk-based approach which may be attractive to businesses and regulators, within the frameworks of current legislation. If this proves to be an effective way of maintaining and improving protections in practice, it might be contemplated in the longer term that suitable legislative text could be developed to embrace more comprehensively a risk-based approach in preference to some more rigid and prescriptive, which may be judged as ineffective. This is not, however, the focus of this paper.

XI. Issues for Further Consideration

42. The above discussion raises a number of issues and questions that require further consideration as a part of the Centre’s Privacy Risk Framework Project:

- Any methodology for risk assessment needs to have an agreed definition of “risk”. Do we mean risk to privacy, or risk to personal data protection? Do we mean risk to individuals’ other rights and freedoms?

- Can and should organisations consider societal harms in their risk assessments?

- Who decides what is “risky” and what is “harm”? When and how do they decide? Are there categories of processing that are considered per se risky or that are always considered harmful? Can the potential risks and harms associated with certain data processing be assessed by the controller without inserting too much subjectivity? If so, how do we ensure sufficient legal certainty, both for the organisation and for the individuals?
• What is the role of the affected individual in any risk assessment? How much and what kind of participation or transparency is required?
  o Do individuals need to be told about or allowed to participate in the risk assessment? Should companies share the outcomes of any risk assessment with individuals?
  o Should individuals be given an opportunity to object to the outcomes of a risk assessment? Should they have a right to object to processing despite a contrary risk assessment?
  o What is the role of consent in this context? Does consent trump risk assessment or vice-versa?

• What do we know about individuals’ perception of risk and harm to themselves? Are there surveys and market research, and is there sufficient existing knowledge in the business community? What are other ways to obtain relevant information on this topic? Can we monitor the reaction of individuals over time? Can we use social media as a channel for such monitoring?

• We should not replace one bureaucracy with another. The proposed EU Data Protection Regulation aims to reduce bureaucracy. Would an elaborate and documented case-by-case risk assessment for every processing of personal data be impractical as well as cost and labor intensive? On the other hand, given that many privacy laws (including the EU Directive and the proposed EU Regulation) already require risk assessments in many instances—such as in the “legitimate interest” balancing test under the current EU Directive—a widely agreed upon risk assessment methodology may improve efficiency and reduce administrative burdens.

• Will the risk-based privacy framework be scalable for SMEs, who are some of the main drivers of innovation and new technologies and services?

• Companies already routinely assess privacy risks to themselves, such as non-compliance, reputational and litigation risks. How do these types of risk assessments relate to those that focus on risks to individuals, particularly where these may not overlap? How does an organisation integrate both risk assessments seamlessly?

• Risk assessment is an integral part of organisational accountability. How, exactly, will a risk-assessment methodology help demonstrate accountability and compliance with applicable legal requirements?

• What is the role of regulators vis-à-vis an organisation’s decision to process data based on a risk analysis? The risk-based approach must not undermine a regulator’s ability to challenge the validity of risk-analysis outcome. Can risk analysis outcomes be challenged even in the absence of harm?

• What is the role of technology and technologists in developing and implementing risk-based solutions to privacy protection?
• Any risk methodology and framework must be capable of being exported and used by technologists, data scientists, data anthropologists, engineers and many others who, normally, will not have an intuitive or developed understanding of privacy issues. How can we socialise the risk-analysis concept more broadly and work with nonprivacy practitioners to that end?

• Data ethics is a new discipline. How does an ethical decision-making model fit or should be reflected in any risk assessment methodology?

**XII. Next Steps**

43. The Centre will continue work towards a comprehensive privacy risk framework, drawing on the expertise of its members, project participants and privacy experts, including from academia and the regulators community. It will also seek to collaborate with other organisations interested in the risk-based approach to privacy.

44. Future work on the project may include:

• developing additional discussion papers based on further study of all issues identified in this paper or raised by the risk-based approach to privacy;

• holding further workshops to receive input and discuss our learnings;

• examining existing risk analysis practices to inform the development of the privacy risk framework;

• taking stock of current laws and regulatory schemes that require and incorporate risk analysis today;

• identifying new areas of potential use for the risk-based approach, such as in response to new and evolving privacy threats in the modern data economy;

• refining and developing the practical tools associated with risk analysis, such as the risk matrix, and thinking about practical implementation of the risk-based approach;

• undertaking case studies on applying the risk methodology under development in the present project, including the risk management matrix, to various real-life scenarios, such as in activities involving: health data, big data, anonymised/pseudonymised data; new products and services, etc.;

• considering individual participation and transparency issues;

• examining the potential uses of the risk-based approach by the different privacy stakeholders—organisations, regulators, and law and policy makers; and

• studying the potential of the risk-based approach to enable global interoperability.
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**Legend:**
- Rank 'Likely' from 10 (high) to 1 (low) based on the highest score for any component
- Rank 'Serious' from 10 (high) to 1 (low) based on the highest score for any component

**Aggregate Risk Rank:**
- Highest score is 300
- Lowest score is 0
## Draft Risk Matrix

<table>
<thead>
<tr>
<th>Proposed Processing:</th>
<th>THREATS</th>
<th>HARMS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unjustifiable Collection of Data</strong></td>
<td><strong>Inappropriate Use of Data</strong></td>
<td><strong>In Wrong Hands</strong></td>
</tr>
</tbody>
</table>

- Storage or use of inaccurate or outdated data
- Use of data beyond individuals’ reasonable expectations
- Unusual use of data beyond societal norms, where any reasonable individual in this context would object
- Unjustifiable inference or decision-making, that the organisation cannot objectively defend
- Lost or stolen data
- Data that is unjustifiably accessed, transferred, shared or published

<table>
<thead>
<tr>
<th>Tangible Harm</th>
<th>Bodily harm</th>
<th>Loss of liberty or freedom of movement</th>
</tr>
</thead>
</table>

- **how likely?**
- **how serious?**

<table>
<thead>
<tr>
<th></th>
<th>how likely?</th>
<th>how likely?</th>
<th>how likely?</th>
<th>how likely?</th>
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<th>how likely?</th>
<th>how likely?</th>
<th>how likely?</th>
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</thead>
<tbody>
<tr>
<td>Draft Risk Matrix</td>
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<tr>
<td><strong>Damage to earning power</strong></td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
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<tr>
<td><strong>Other significant damage to economic interests</strong></td>
<td>how likely?</td>
<td>how likely?</td>
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<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
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<tr>
<td><strong>Intangible Distress</strong></td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
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<tr>
<td><strong>Detriment arising from monitoring or exposure of identity, characteristics, activity, associations or opinions</strong></td>
<td>how likely?</td>
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<tr>
<td><strong>Chilling effect on freedom of speech, association, etc.</strong></td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
<td>how likely?</td>
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</tbody>
</table>
To be evaluated

### Draft Risk Matrix

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</thead>
<tbody>
<tr>
<td>Reputational harm</td>
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<tr>
<td>Personal, family, workplace or social fear, embarrassment or anxiety</td>
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<td>Unacceptable intrusion into private life</td>
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<tr>
<td>Discrimination or stigmatisation</td>
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</tbody>
</table>

**ANNEX I**
# Draft Risk Matrix

<table>
<thead>
<tr>
<th>Societal Harm</th>
<th>how likely?</th>
<th>how likely?</th>
<th>how likely?</th>
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<th>how likely?</th>
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<th>how likely?</th>
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</thead>
<tbody>
<tr>
<td>Damage to democratic institutions (e.g. excessive state or police power)</td>
<td>how serious?</td>
<td>how serious?</td>
<td>how serious?</td>
<td>how serious?</td>
<td>how serious?</td>
<td>how serious?</td>
<td>how serious?</td>
<td>how serious?</td>
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</tbody>
</table>

To be evaluated
Annex 2: Examples (non-exhaustive) of Risk Assessment Schemes Used by UK Regulators

- Health and Safety Executive / Local Authorities Enforcement Liaison Committee Priority Planning system;
- Office of Fair Trading—Trading Standards Risk Assessment Scheme;
- Food Standards Agency—Food Hygiene and Food Standards Intervention Rating Schemes; and
- Local Authority Integrated Pollution Prevention and Control (LA-IPPC) and Local Authority Pollution Prevention and Control (LAPPC) Risk Methodology.