Privacy Impact Assessments and Privacy By Design — What you need to know

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Introduction.....



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- Market Analysis
- Commercial Assessment
- Innovation Support
- Technology R&D

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BSI Cybersecurity and Information Resilience – What We Do

We enable organizations to secure information from cyber-threats, strengthening their information governance and in turn assuring resilience, mitigating risk whilst safeguarding them against vulnerabilities in their critical infrastructure.



Cybersecurity

Penetration testing, vulnerability management, incident response and cloud security services.



Security awareness

Phishing and user awareness training, SaaS solutions, social engineering and simulation testing



Data management and privacy

GDPR services, information lifecycle management and eDiscovery and forensics



Compliance and testing

PCI DSS services, cyber lab testing and product and software assessments (CC, CAS-T/CPA)

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BSI GDPR Compliance Professional Services

Understanding

GDPR foundation training course

One day training course

We help you understand the fundamentals of GDPR

- Gain the confidence to interpret data protection regulations
- Learn to integrate GDPR policies and procedures

Scoping workshop

Stakeholder engagement

We identify relevant information, activities and controls

- Compile inventories of Personally Identifiable Information (PII)
- Identify data flows and data processors
- Confirmation of regulatory requirements

Implementation

Gap analysis

Identify gaps in compliance

We assist you to identify the critical areas in need of improvement

- Gap analysis against GDPR requirements
- · Verification assessment
- Audit against privact standards eg. BS 10012, ISO 29000

Implementation support

Implement the key principles of GDPR

We help you establish the necessary policies and procedures

- Outsourced Data Protection Officer (DPO) services
- · Data breach reporting
- Privacy by design
- Completion of Privacy Impact Assessment
- PACE Privacy Assessment and Coverage Engine (fully automated)

Validation

Compliance validation

Post-implementation assessments

We perform the necessary checks to ensure all gaps have been closed

- · Internal audits
- · Privacy compliance audits
- Third party and supply chain audits

Ongoing support

Continuous assessment and support

We offer a partner programme service for essential assistance

- Data breach/incident on-call support
- Subject access request support services
- Supervisory Authority audit support

The journey to GDPR compliance



Path to GDPR — Cybersecurity and Information Resilience Services

July Augu

1 Webinar
Pen testing

2 Webi End User s awaren

Webinar Series:

- 1. Penetration Test
- 2. End User Securit
- 3. Incident Respons
- 1. Information Resi
- 5. GDPR Achieving
- 6. GDPR the role
- 7. Getting Ready to

#8 - Privacy Impact Assessments (PIAs)

Date: Thursday 22 February Time: 10:00 UK Time



What is a PIA?
When are they required under GDPR?
And how do you integrate them into
planned (or existing) project activities as
part of privacy-by-design and overall
privacy management?

More Info & Registration

January

7 Webinar Managing

DSARS

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ly to respond



Webinar Objectives

- 1. What is a Privacy Impact Assessment (PIA?)
- 2. PIA Requirements under GDPR
- 3. PIAs in relation to privacy-by-design and GDPR compliance
- 4. How do I know when a PIA is necessary?
- 5. Key stages to consider when completing a PIA
- 6. Tips for integrating PIAs into project and program management
- 7. Intro to BSI PACE (Privacy Assessment Coverage Engine) using it to support PIAs and other privacy assessments





What's a PIA (or DPIA)?

At its core, a PIA is a **risk-based** assessment to the ensure **rights and freedoms of data subjects** are protected when any processing about them is performed

Article 90 GDPR/ISO 31000

- Establish context of proposed processing
- Assess those risks
- 3. Treat/minimise those privacy risks

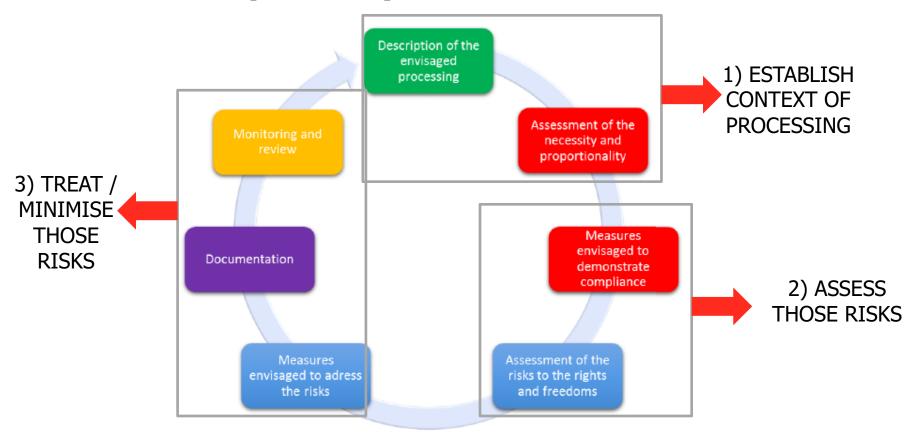
PIAs are a key tenet of Privacy-by-design (the earlier the better!)



Data protection impact assessment (DPIA)



What's a PIA (or DPIA)?



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(Source: Article 29 WP)

Why Privacy-By-Design (and PIAs) ??

- 1. Key weapon in ensuring implementation of privacy at tactical/operations levels
- 2. Essential tool in **minimising (privacy + security) risk**
- 3. Builds **trust** + **transparency** with data subjects and stakeholders
- 4. Supports **identifying problems early** in projects (when they are cheaper to fix)
- 5. Key to **increasing awareness** of privacy across the organisation
- 6. Increases likelihood of **compliance with GDPR** and other privacy regulations
- 7. Actions are **less likely to be privacy intrusive** and have negative impact on individuals.



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(Ref: UK ICO)

Are PIAs just about GDPR compliance?

- PIAs are now a legal requirement!
- Support for PIAs and Privacy-By-Design just one element of GDPR compliance
- BUT....
 - PIAs firstly about ensuring that rights and freedoms of individuals are respected when processing their data or assessing individuals in some way.
 - Concerns as a by-product
 - Compliance with the law
 - Any impacts on the organisation(s) involved.

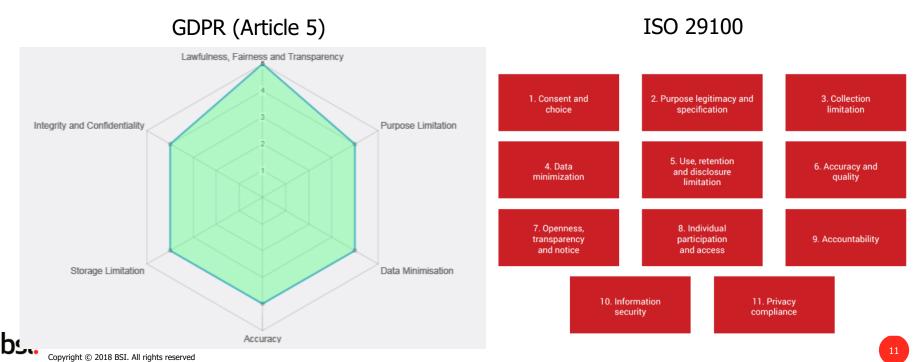


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(Ref: UK ICO)

Are PIAs just about GDPR compliance?

 However, PIAs and GDPR Compliance activities both focus on ensuring appropriate treatment of key principles of data protection



(Ref: BSI PACE - https://pace.bsigroup.com)

PIA Requirements under GDPR

- Article 35 Data protection impact assessment
 - High risks to individuals exist? (1,3,4)
 - Nature/format of PIA? (7)
 - Seek relevant views, advice, codes of conduct, review (2, 8, 9, 11)
- Article 36 Prior consultation
 - If there are 'significant' residual risks from a PIA, consultation with authority required
- Article 25 Data protection by design and by default
 - PIA should be carried out "prior to the processing" in line with this principle
- Key recitals 75, 84, 89-93

What is regarded as a "valid" PIA approach under GDPR?

Criteria	Where in GDPR
Systematic description of processing provided	Article 35 (7)(a)
Necessity and proportionality of processing considered	Article 35 (7)(b)
Risks to individuals are assessed/identified	Article 35 (7)(b) Recital 84, 90
Stakeholders are involved where necessary	Article 35 (2) Article 35 (9)



(Ref: Article 29 WP)

When is a PIA Necessary?

- Key GDPR sections
 - Art 35 (1),
 - 35 (3a-c),
 - Recitals 71, 75, 91



- Regulatory landscape still early and moving on this!
 - Regulation will require supervisory bodies to communicate a list of operations that require a DPIA -Art 35(4)... as well as exceptions that may be exempt

Test 1 – Evaluation, Scoring, Automated Decision Making

1. Does your scenario involve processing where evaluation, scoring, or automated decision making is made on specific individuals?



Scenarios?

Bank screening customers against credit reference database



Company tailoring special offers/deals based on spending or credit history, to the exclusion of some "bad" customers

Recitals 71,91 – examples:

Work performance/appraisal
Economic status
Health
Credit/spending habits
Personal preferences/interests
Behavioural characteristics

Test 2 – Monitoring

2. Does the scenario involve processing used to monitor or control data subjects?



Scenarios?

CCTV use in public areas a common example

Monitoring of employee computer use in the workplace

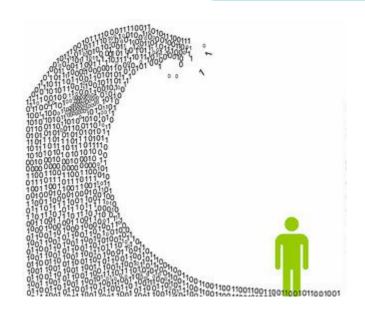
"Systematic" in nature – prearranged, methodical, in accordance with a plan, strategy, system

Key PIA issues – Who is monitoring? What for? What if I can't opt-out?

Physical as well as informational privacy

Test 3 – "Large Scale" Processing

3. Would the processing be regarded as "large scale" - in that a large number of data subjects are involved, a large range of different data items are processed, the processing occurs for a long duration (or permanently), or involves a large geographical area?



Recital 91....

How many people?

Volume of data?

Range/scope of data categories?

Duration? (permanent?)

Geographical extent?

Test 4 – Data Matching/Aggregation

4. Does the scenario involve processing where personal data is matched from two or more sources that would exceed the reasonable expectations of the data subject?



Cannot combine two different data sources, originally collected and used for separate purposes

Separate legal basis (e.g. consent) necessary for new combined dataset

Fundamental basis of "purpose limitation" principle

E.g. data sharing initiative between two organisations where new combined data is produced

Test 5 – Vulnerable/Disadvantaged Data Subjects

5. Does it include scenarios where data subjects are vulnerable or disadvantaged in their ability to query or dispute the data processing?



Scenarios?

Where "power imbalance" exists between controller and data subject

Employee -> employer

Nursing home -> elderly (sick) person

Hospital -> sick patient

School -> underage pupils (minors)

PIA should investigate that data collection method use addresses this advantage/imbalance and that any processing is not abusive of it

Test 6 – New/Emerging Technologies

6. Are new technologies previously not used by the core organization(s) used and relevant in the scenario, in a manner that could be regarded as privacy intrusive?





Does the technology introduce new (unforeseen) forms of data collection, usage, processing?

Are there appropriate measures in place to limit such usage (technical, procedural?)

Are stakeholders aware of these potential impacts? (role of PIA is to make them aware of risks)

Are they transparent about such impacts with data subjects?

More recent example – Deepfakes – what's next?

Test 7 – Accessed by "new" individuals?

7. Will any of this information be provided to "new" individuals who did not have routine access to it previously?



Outsourcing/re-delegation of particular collection/processing activity?

Any consequences/impacts (violation of codes of conduct?)

If YES, assurance of safe and secure principles in place around that new party are essential

Only sharing/delegating what is necessary?? Proportionality of processing maintained?

Good PIA example of such a scenario:

https://www.hiqa.ie/system/files/HI_PIA_Sample_Report.pdf

Test 8 – Collection of "new" data about individuals?

8. Does the scenario involve collection of new data about individuals not already collected, and used in a manner that could be regarded as privacy intrusive?



Consents in place (if applicable), notification information updated?

Potential for new add-on processing/matching/aggregation considered?

Data minimisation measures in place to reduce risk?

Test 9 – Minors

9. Does the scenario involve collection of data from minors under the age of 16?



Power imbalance principle applies

Ensure appropriate parental consent (or nearest guardian)

Ensure background check of parental source as part of collection/consent

Test 10 – Sensitive Data

10. Are any sensitive categories of data processed as part of the scenario - involving data collected directly from individuals or from other sources? (see Article 9 of GDPR for examples of key sensitive categories)



Tight definition: Categories in Article 9 of GDPR

Key examples of sensitive personal data include data relating to:

Racial or ethnic origin

Politicial opinions

Religious or philosophical beliefs

Trade union membership

Genetic data

Biometric data (including biometric photographs leading to

unique identification such as biometric passport)

Health data

Sex life

Sexual orientation



Test 10 – Sensitive Data

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Others that may fall into scope?

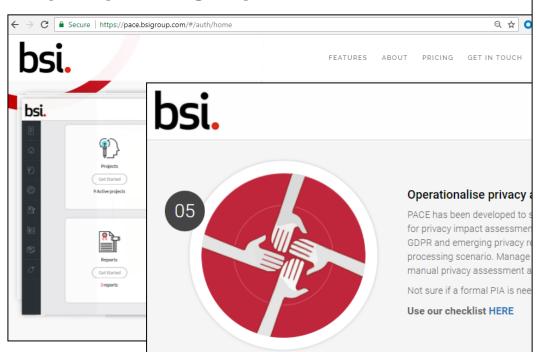
Electronic communication data Location data Financial data

Other "intrusive" data – personal documents, diaries, e-readers, note takers etc

If data is already made publically available – less likely to be regarded as sensitive

BSI Checklist Available – Is a PIA Required?

https://pace.bsigroup.com



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Privacy Assessment Coverage Engine (PACE)

Is a formal Privacy Impact Assessment (PIA) needed for your project/scenario?

As a rule of thumb, answering Yes (or Don't know) to **TWO** or more of the questions below indicates that processing is potentially high risk in nature.

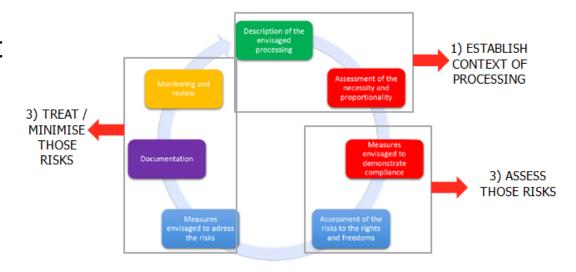
In such cases, a more complete assessment of privacy impact using one of the PACE assessment options available is strongly advised.

- Does your scenario involve processing where evaluation, scoring, or automated decision making is made on specific individuals?
- 2. Does the scenario involve processing used to monitor or control data subjects?
- 3. Would the processing be regarded as "large scale" in that a large number of data subjects are involved, a large range of different data items are processed, the processing occurs for a long duration (or permanently), or involves a large geographical area?
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- 7. Will any of this information be provided to "new" individuals who did not have routine access to it previously?
- Does the scenario involve collection of new data about individuals not already collected, and used in a manner that could be regarded as privacy intrusive?
- 9. Does the scenario involve collection of data from minors under the age of 16?
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Completing a PIA

Risk Management 101 (ISO 31000...)

- 1. Establish the context
- 2. Assess the Risks
- 3. Treat the Risks



Completing a PIA – Step 1 - Establish the Context

So upon determining that a PIA is necessary... need to describe and characterise the processing.

- What (personal) data is being processed?
- In what way and for what purposes?
- Is that processing necessary?
- Is it proportional and fair?
- Riskiness of processing? Degree of technology use? Level of external party involvement?
- Clarity on the legal basis (one or more) for processing in the scenario?
- Are we compliant with any guidelines or relevant codes of conduct?

Use appropriate question checklist to support establishing context

Spreadsheet/tool options available

PACE PIA Checklist Support – Project Summary

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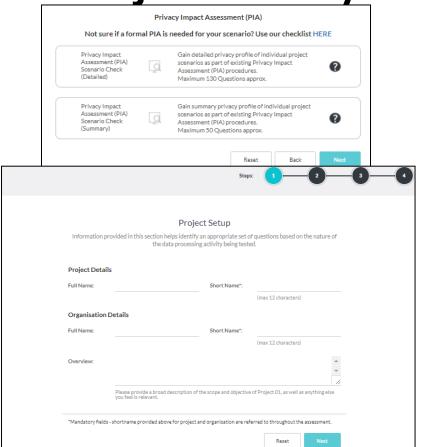
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https://pace.bsigroup.com/

PACE PIA Support – Structured "Scenario Check" Questions



Secure https://pace.bsigroup.com/#/p

bsi / Dashboard / Projects





Summary of Privacy Impact Factors

Particular privacy impact factors in relation to data, technology and external party use for OPtion 5 are highlighted below



The scope and nature of the data processing in this scenario increases the impact and importance of key privacy compliance risks identified in this report. In particular that:

- > Data regarded as sensitive personal data is being processed in OPtion 5
- > New data about individuals is being collected, and could be processed in a manner regarded as privacy intrusive
- > New processing in relation to typical processing of personal data will occur in OPtion 5
- > Currently unknown follow-on processing will be required, or is expected in the future
- OPtion 5 data relates to research purposes
- > Data is collected from minors as part of OPtion 5



External Party Use

The involvement of external parties in this scenario also increases obligations to ensure that relevant data processing is valid from legal and compliance perspectives. Factors increasing risk impacts that relate to use of external parties include:

- > Technologies may be used by external parties in the processing of data relevant to OPtion 5
- > External parties will be involved in the processing of sensitive personal data, or special categories
- > Personal data will be transferred to these external parties
- > Personal data will be stored by external parties, in IT systems or other physical means
- > External third parties intend on using other external parties to support OPtion 5 processing
- > If external parties are involved in this research or scientific based processing this could also increase privacy impact



Technology Use

The scope and nature of technologies used also increases risk around data processing legitimacy and compliance requirements, hence the need for such processing to be managed appropriately. Areas increasing such technology-use impacts include:

- IT systems are used in the processing of data
- Cookies or other tracking technologies are used
- > The fact that new software systems are being developed in OPtion 5
- > Advanced technologies are being used to determine specific characteristics of persons whose data is being processed. Such processing activity needs to be managed and monitored carefully in line with legal requirements around such data processing
- The fact that external parties are involved in processing.
- New software systems are being developed in OPtion 5 which will involve external third party developers

Other laws beyond data protection allow (or require) us to collect some or all of the relevant data

Completing a PIA – Step 2 - Assess the Risk

What kinds of risk??

- 1. Legal impacts/non-compliance
 - Standardised (ala a gap assessment)



- 2. Impacts on the individual or organisation
 - Nuanced/bespoke/trickier to identify
 - Understand specific relationship between individual and org!

Assurance that risk assessment is thorough? Systematic? Covers all areas? And both concerns (1) and (2) above?

Use foundational privacy principles as a guide



WHO?

DPO/Compliance/Risk
Data Owners/Handlers
Data subjects?
DP Supervisory authorities?
IT/Legal/HR?

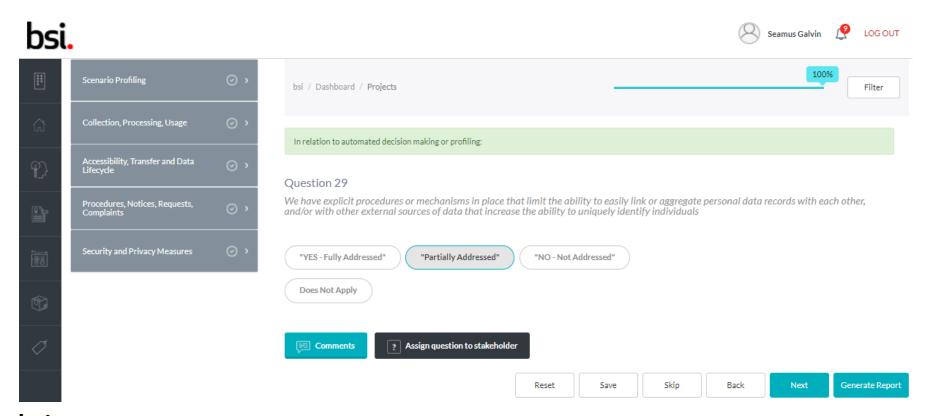
PIAs ->Linking Compliance Risk to Impact on Persons

Compliance/Technical Concern		Individual(s) concern?
Inadequate disclosure controls	→	Is my info being shared inappropriately
Data use has changed over time	→	Is my data being used for other purposes that I know nothing about?
New surveillance/monitoring	→	Is my privacy being intruded
Merging of data	→	Do they have more info on me than I'd like them to have?
Collection or linking of multiple ID points	→	Am I able to truly use service X anonymously?
No retention/deletion procedures	→	Why are they still contacting me/using my data?



(Source: UK ICO)

PACE PIA Support – Step 2 - Assess the Risk



PACE PIA Support – Step 2 - Assess the Risk

Lawfulness, Fairness and Transparency **Privacy Issues Report** In order to mitigate key reduce or remediate key privacy compliance risks, the following broad areas of remediation are recommended. Sort By : Rating Priority Probability All V Importance All V Overview Rating Probability Importance Issue Action Data This concern area considers appropriateness of measures and controls that protect transfers of personal data between LONG 19 Test Transfer Priority View stakeholders Controls 2 Security This area considers evidence that information security risks and mitigating controls are identified and implemented for LONG 19 Test. Risks and Appropriate security controls ensure confidentiality, integrity and availability of LONG 19 Test data, and should exist at operational, Priority View Controls functional and strategic levels. Measures Data This area considers evidence that specific data access controls are in place that restrict key LONG 19 Test data to those who need to access it. Access to Priority View in line with "need to principles" of security and data protection. Persons -Controls Access Aside from specific data access controls, this area specifically considers evidence that appropriate access admin policies and procedures are Admin Priority View in place to support effectiveness of such specific controls on an ongoing basis. Measures 5 Security This risk area considers evidence that any LONG 19 Testinformation security management system, identified risks, implmented controls, policies and procedures are assessed on an ongoing basis by an appropriate impartial security professional, either internally or externally as Compliano Priority View appropriate, as a foundation for LONG 19 Test security compliance assurance. Measures

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Completing a PIA – Step 3 - Treat the Risk(s)



Generic ->context-specific privacy risks,

Risk prioritisation/scoring method

Plan/Implement fixes....

Consider cost/benefit of each...

ARE THERE RESIDUAL RISKS?



Minimise or **reduce** personal data collected/processed?

Improve or update **communications** or notifications to individuals?

Improve **opt-in** mechanisms for collection, improve collection transparency

Improve **safe and secure** mechanisms (2FA, encryption, anonymization etc)

Data owners/handlers - **training** + awareness





PACE Support – Treat the Risk(s)



In order

Remediation Guidance

Key remediation controls to consider to reduce or eliminate this risk include

Broad Measures to Consider

Transfers: Establish and enforce appropriate controls to protect data transfer flows between [Project] stakeholders and external parties if applicable

More Specific Measures to Consider



- In defining an appropriate approach, transfers of personal or sensitive personal data should be governed by rules set out in LONG 19 Test policy and evidenced by a an appropriate legal basis.
- Examples of an appropriate legal basis for such transfers includes (1) Consent, (2) Standard Contract Clauses, (3) Binding Coprorate Rules, (4) Codes of Conduct or other form of agreement in line with legislation and regulations of LONG 19 Test processing jurisdictions

Secure Transfer Agreements

- Develop and maintain formal agreement / contracts governing the secure transfer of information within the organisation and between the organisation and third parties
- Identify and select appropriate legal transfer mechanisms govern the transfer of data within and out of the organisation
- > Assign an individual with responsibility for monitoring the legal transfer of personal data

Transfer Policies and Procedures

- > Seek advice in developing appropriate data transfer policies and procedures. A priority is to include appropriate notice information to data subjects whose personal or sensitive data will be transferred as part of LONG 19 Test
- Other key elements in a detailed personal data transfer policy include (1) seting out the types of personal data transferred and legal basis on which it is permitted, (2) details of where and to what external parties data has been transferred to, including provisions for organisational and technical measures to ensure data protection measures
- Ensure that procedures are shared and communicated with any relevant data handlers or stewards involved in such transfers.

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Linking PIAs with project/program management



Need to build into project lifecycles. A PIA is **not just a checklist!**

Senior-level **buy-in** is key (especially for key projects)

Conduct **early in the project** (in line with official GDPR definition)

Train PM teams up with principles of PIAs + their operation

Scale the **scope/detail of the PIA** to the nature of the project (e.g. short vs. long questionnaires!)

Develop clear PIA decision gates

- (1) PIA Screen Go/No-Go
- (2) Proceed with project based on PIA findings?
- External consultation necessary?
- (3) Repeat PIA at later point?

Linking PIAs with project/program management



PIA Risk Treatment

Add to overall **project risk register**Add risk treatments/remediations as regular items in **project plan**

Decide what risks are accepted (and who accepts the risk?)

Decide whether PIA findings are **published/shared/redacted** etc?

Store the PIA outcomes securely....

References + Further Info

Article 29 WP Guidelines on DPIAs

ec.europa.eu/newsroom/document.cfm?doc_id=44137



ICO – Conducting Privacy Impact Assessment Code of Practice

https://ico.org.uk/media/for-organisations/documents/1595/pia-code-of-practice.pdf



References + Further Info

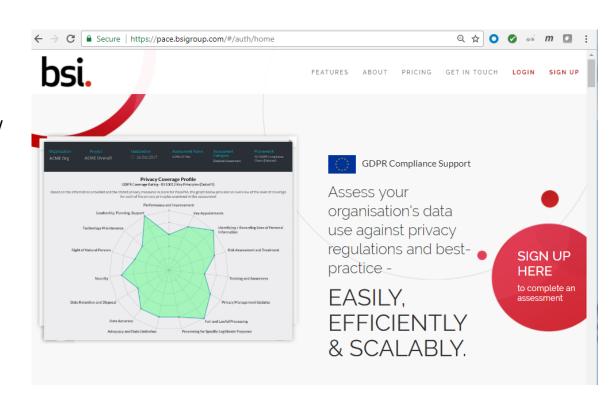
New Zealand Privacy Commissioner – How to Do a Privacy Impact Assessment

 https://www.privacy.org.nz/assets/ Files/Guidance/Privacy-Impact-Assessment-Part-2-FA.pdf

BSI PACE (Privacy Assessment Coverage Engine) Software

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