



To what extent can <u>a semantic web-based data processing</u> <u>catalogue</u> aid in the <u>generation and maintenance of GDPR ROPA's</u>, and contribute to the <u>meeting the accountability principle of the GDPR</u>?

### Paul Ryan

- 1. ADAPT Centre,
- 2. School of Computing, Dublin City University
- 3. Uniphar Plc, Ireland

Contact: Paul.Ryan76@mail.dcu.ie







#### Year 2 PhD (Part-time) of a 5-year journey

 My Research is: To what extent can <u>a semantic Web-based data processing</u> <u>catalogue</u> aid in the <u>generation and maintenance of GDPR ROPA's</u>, and contribute to the <u>meeting the accountability principle of the GDPR</u>?

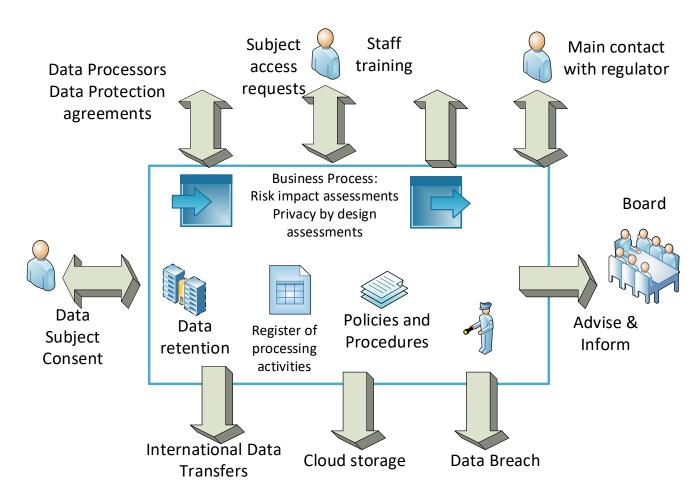
Papers to date co-authors (a) Rob Brennan (b) Harshvardhan J Pandit

- Design Challenges for GDPR Regtech 2020 (a)
- GDPR Compliance Tools Best Practice from RegTech to appear Feb 2021 (a)
- Towards a Semantic Model of the GDPR Register of Processing Activities 2020 (a&b)
- A Common Semantic Model of the GDPR Register of Processing Activities 2020 (a&b)
- Demonstrating GDPR Accountability with CSM-ROPA 2021 (Under review) (a)



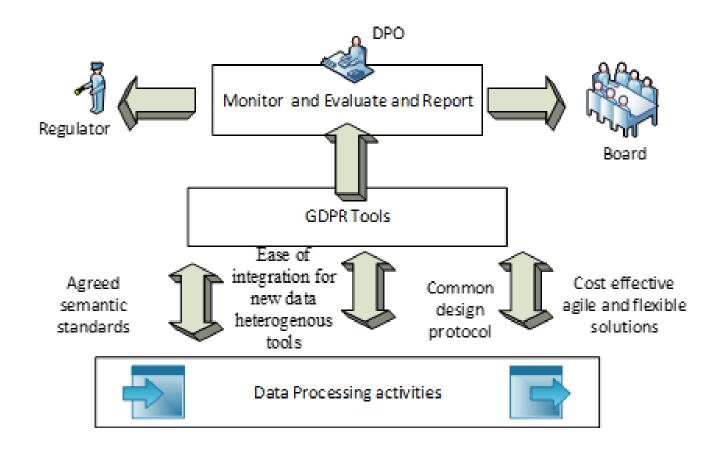
# The Breadth and Complexity of the role of Data protection Officer

#### The Role of the DPO – to monitor, inform and advise



The breadth and complexity of the role of Data Protection Officer (Source Author).





A RegTech approach to GDPR compliance (Source Author)

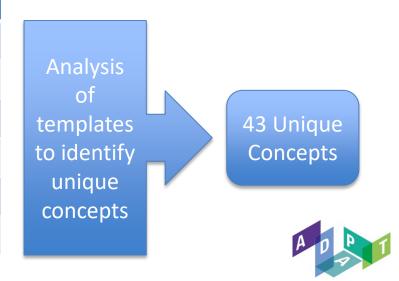


- Every organisation must maintain a Register of Processing Activities (ROPA) under Article 30 of the GDPR
- A ROPA detailed document containing details of the personal data processing activities being carried out by the organisation
- In practice held on excel spreadsheets
- A rich repository of the personal data handling carried out by the organisation



- We identified 14 ROPA templates from regulator websites
- We focused on 6 English language ROPA's
- We identified that they differed greatly
- Some contained 12 input fields where as other templates have up to 34 fields
- We identified 43 unique fields

Regulator	No. of Fields on Template
Belgium	34
Cyprus	12
Denmark	12
Finland	13
Luxembourg	14
United Kingdom	33



# Sample of mapping of GDPR Concepts to DPV

GDPR Regulation	Regulator Template GDPR Concept	Mandatory Art. 30 GDPR	Related DPV Concept	DPV mapping outcome	Belgium (34)	Cyprus (12)	Denmark (12)	Finland (13)	Luxembourg (14)	UK (33)
30	Register of Processing Activities	Υ	No DPV Concept	None	Υ	Υ	Υ	Υ	Υ	Υ
30	DataController	Υ	dpv:DataController	Exact	Υ	Υ	Υ	Υ	Υ	Υ
28/30	Data Categories subject to transfer	N	dpv:PersonalDataHandling, dpv:Transfer, dpv:PersonalDataCategory	Complex, Partial	Y					

## Summary of mapping success GDPR Concepts to DPV

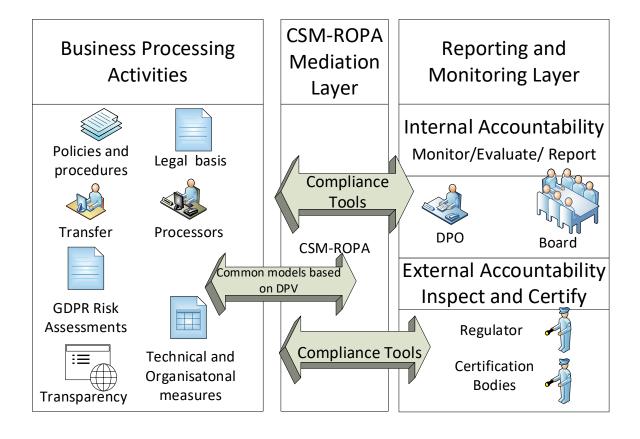
Match Status	Number of GDPR Concepts
Exact	14
Partial	15
Complex/Partial	3
None	11



- What is accountability?
- Identifying the need for a Machine-readable ROPA
- Evaluating the extent that CSM-ROPA can express the ROPA section of the "ICO Accountability Tracker"

Outcome of Mapping	No. of terms	% of terms
Exact mapping one to one	57	41%
Narrower mapping	71	51%
Mapped using other vocabularies	8	6%
No mapping, add the term to CSM- ROPA	3	2%





Next Steps:

Building the Data Processing catalogue and compliance tools

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# Questions and Observations!