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A person's privacy over their data, seems to be viewed as an expected right by most citizens around the world but there are many legislative challenges to deal with which are present in this boundary-less cloud computing and World Wide Web environment.

Despite its importance, there is limited research around gaps within different jurisdictions data privacy laws as well as a lack of alignment, and the legal side of the security ecosystem which seems to be in a continuous game of catch-up.

Issues have already arisen in recent history which shows how this lack of alignment can cause a great deal of confusion to citizens, an example of this is the 'right to be forgotten' case which came up in 2014. This case involved a Spanish man against Google Spain. He requested the removal of a link to an article about an auction for his foreclosed home, for a debt that he had subsequently paid. However, misalignment of data privacy laws caused further complications to the case.

The evolution of the Internet of Things (IoT) has highlighted a need for a global alignment as it is not as clear as it used to be on where someone will have their data stored or who will access it.

This paper will introduce our global project for data privacy by focusing on Asia Pacific data privacy laws and their relationships with the European Union and the USA. This will also suggest potential solutions to address some of the issues which may occur when a breach of data privacy occurs, in order to ensure an individual has their data privacy protected across the boundaries in the Web.

I am completing the research for my Masters in Cybersecurity at the University of Waikato, along with my supervisor Ryan Ko.

The Data Privacy Matrix

One of the key challenges of data privacy is the boundary-less cloud and Internet. Because of that, data privacy laws, their gaps and their equivalence are not exactly well aligned, and we would like to change that by creating a **global 'Rosetta Stone'-like matrix** for trans-national alignment of data privacy laws: The Data Privacy Matrix (DPM) Project.

For the DPM, we have selected a five countries from Asia Pacific, five from the EU and USA to focus on data privacy laws.

The project is almost finished its first draft and is at a point where it needs validation from legal professionals. We have had positive feedback from the Office of the Privacy Commissioner, Government Chief Privacy Officer and has been presented to the Governor General earlier this year.

- We set up a temporary website and here is its URL - www.dataprivacymatrix.org
- Also a temporary Facebook - www.facebook.com/privacymatrixproject