**PRIMRE Research Question Work Item**

My name is Dominick DeCanio. I am a Data Scientist who has worked on projects with a great diversity of scope and complexity requirements. In approaching PRIMRE, and the overarching question of “what insights can we gain,” from what is contained therein, my research question must satisfy three core requirements. The research question must:

1. Utilize PRIMRE content,
2. Utilize my unique abilities, and
3. Add value to the Marine Energy community.

My skills can facilitate the use of PRIMRE content to add value, which necessitates an application of my skills that is uniquely accessing the content of PRIMRE to add value. Of course, this depends on the contents of PRIMRE, as data science is interesting insofar as it works atop interesting data. The way we might

For data science to have impact, it must be powered by machine readable data. Ideally, it will be natively more interpretable by a machine than by a human, and this inherent barrier to insight will fuel the need for and value added by data science techniques. Because PRIMRE is generally composed to be human readable, the main area of opportunity for data science to provide value lies in PRIMRE content metadata.

The research question I will try to tackle is the integration of the metadata schemas of PRIMRE knowledge hubs to facilitate automated access to and reporting of metadata across the PRIMRE ecosystem. The information that will be necessary include all available metadata tags from all knowledge hubs on PRIMRE, though the focus will primarily lay on MHKDR, Tethys, Tethys Engineering, and, to a lesser extent, the Projects Database.

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