**PIT Use Case: Custom Data Citation**

Author: Tobias Weigel – using the forum thread on the *Data Citation BoF* as inspiration

**Summary**

- The goal is to enable an end-user (author of a paper) to cite a customized collection of data, spanning across DOIs (or any other form of PID) or being more fine granular than them
- This is relevant to probably many disciplines
  - where data from multiple sources are combined to solve a research problem
  - or where an exact specification of which data was used is tedious given existing solutions
- One particular challenge is that the individual data PIDs may belong to different identifier infrastructures, disciplines and data repositories, which will provide further challenges for enabling seamless access

**Actors**

- Author (human)
- Customizer (system)
- Registry (system)
- Auditor (system)

**Pre Conditions**

- The data to cite (all collection elements) are already identified through existing PIDs

**Main Flow**

1. The author submits a set of PIDs to the Customizer
2. The Customizer accesses each PID and verifies that the identified object exists
3. The Customizer registers a PID at the Registry which points to all submitted PIDs (it creates a PID collection)
4. The Customizer answers to the Author with the registered PID

**Post Conditions**

- The Auditor can verify that upon requesting the custom collection PID and iterating over its elements, all PIDs originally submitted are included and no additional ones (actually, this is another potential use case dealing with search/access/retrieval)

**Notes**

- Enabling such custom citations may make it harder to track citations. Current tracking solutions would have to be significantly extended to cover this.