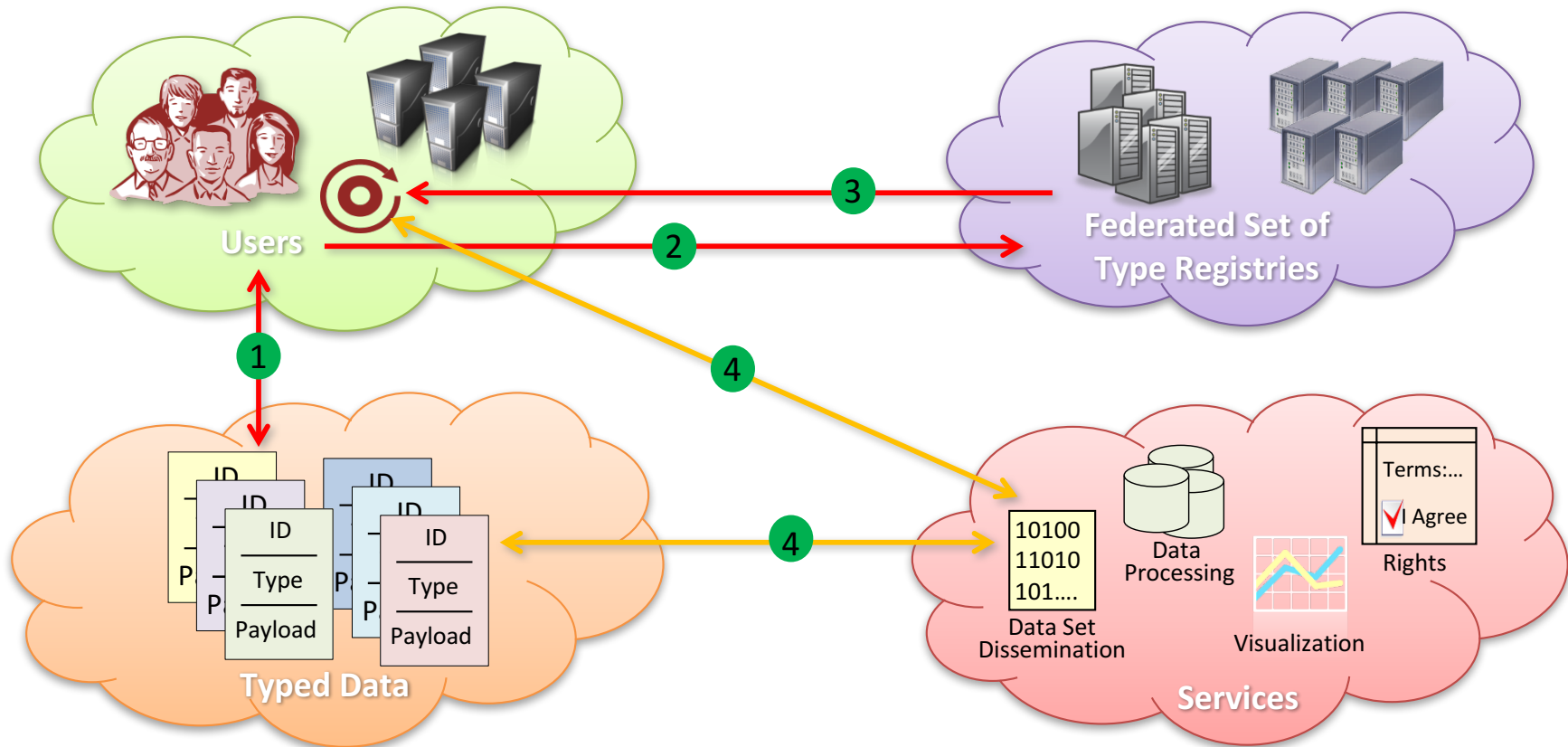


What is the Issue?

- Data sharing requires that data can be parsed, understood, and reused by people and applications other than those that created the data
- How do we do this now?
 - For documents – formats are enough, e.g., PDF, and then the document explains itself to humans
 - This doesn't work well with data – numbers are not self-explanatory
 - What does the number 7 mean in cell B27?
- Data producers may not have explicitly specified certain details in the data: measurement units, coordinate systems, variable names, etc.
- Need a way to precisely characterize those assumptions such that they can be identified by humans and machines that were not closely involved in its creation

DTR Usage Example



- 1** Client (process or people) encounter data of an unknown type
- 2** Resolved the Type to Type Registry
- 3** Response includes type definitions, relationships, properties, and possibly service pointers. Response can be used locally for processing, or, optionally
- 4** Typed data or reference to typed data can be sent to service provider