Implication

Implication (IMP) is a Relation which connects an Action to one or more other Actions. It denotes an action which, by implication, must have happened because it is logically implied by the original action. For instance, `A travelled (with sb)  - IMP - A was in the company (of sb)`.

Implication allows to **enrich data** in the knowledge graph with actions which, while not explicitly denoted by the verbs used, happened by implication. This in turn helps to extend the query results in cases where the Action's Superclass or Action/Event Equivalent did not necessarily cover the implied action.

> Depending on the strictness of use of IMP and the research purpose, IMP can be used to produce only the first-level implication directly appended to the Action, or to follow the implication chain even further (e.g. if action A implies action B, and action B implies action C, then we may decide to also make action A imply action C upon data projection).

> In linguistics, this relation type is sometimes also called **entailment**.

Typescript definition

```
interface IImplication extends IRelation {
    type: RelationEnums.Type.Implication;
    entityIds: [string, string];
    order: number;
  }
```

Created 2023-02-16 16:56:43 CET by David Zbíral
Updated 2025-09-07 13:36:17 CEST by Mgr. Adam Mertel Ph.D.