

Definition (Catalogue). A *catalogue* is a span in **Pos**. It thus consists of 3 posets I , F , R . We call them implementation space, functionality space, and requirements space, respectively. We need to define two maps $\text{prov} : I \rightarrow F$ (an implementation **pro**vides a functionality) and $\text{req} : I \rightarrow R$ (an implementation **re**quires resources):

