

Definition. Given a DP $\langle \mathbf{F}, \mathbf{R}, \mathbf{I}, \text{prov}, \text{req} \rangle$, define the map $K_{\mathbf{d}} : \mathbf{R} \rightarrow_{\mathbf{Pos}} \langle \mathcal{L} \mathbf{F}^{\text{op}}, \subseteq \rangle$ that associates to each resource r the set of functionalities which can be realized with r :

$$\begin{aligned} K_{\mathbf{d}} : \mathbf{R} &\rightarrow_{\mathbf{Pos}} \langle \mathcal{L} \mathbf{F}^{\text{op}}, \subseteq \rangle, \\ r &\mapsto \{f \in \mathbf{F} : \mathbf{d}(f, r)\}. \end{aligned}$$

If a certain resource r only leads to infeasible functionalities, then $K(r) = \emptyset$.