that associates to each resource r the set of functionalities which can be realized with r:

Definition. Given a DPI $\langle \mathbf{F}, \mathbf{R}, \mathbf{I}, \mathsf{prov}, \mathsf{req} \rangle$, define the map $K_{\mathbf{d}} : \mathbf{R} \to_{\mathsf{Pos}} \langle \mathcal{L} \mathbf{F}, \subseteq \rangle$

$$K_{\mathbf{d}}: \mathbf{R} \to_{\mathbf{Pos}} \langle \mathcal{F}, \subseteq \rangle,$$

$$r \mapsto \{ f \in \mathbf{F} : \mathbf{d}(f, r) \}.$$

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