

**Definition** (Semi-category **DPI**). There is a semi-category **DPI** where

- ▷ The objects are posets.
- ▷ The morphisms are DPIs  $\langle \mathbf{F}, \mathbf{R}, \mathbf{I}, \text{prov}, \text{req} \rangle$ .
- ▷ Morphism composition is given by ??.