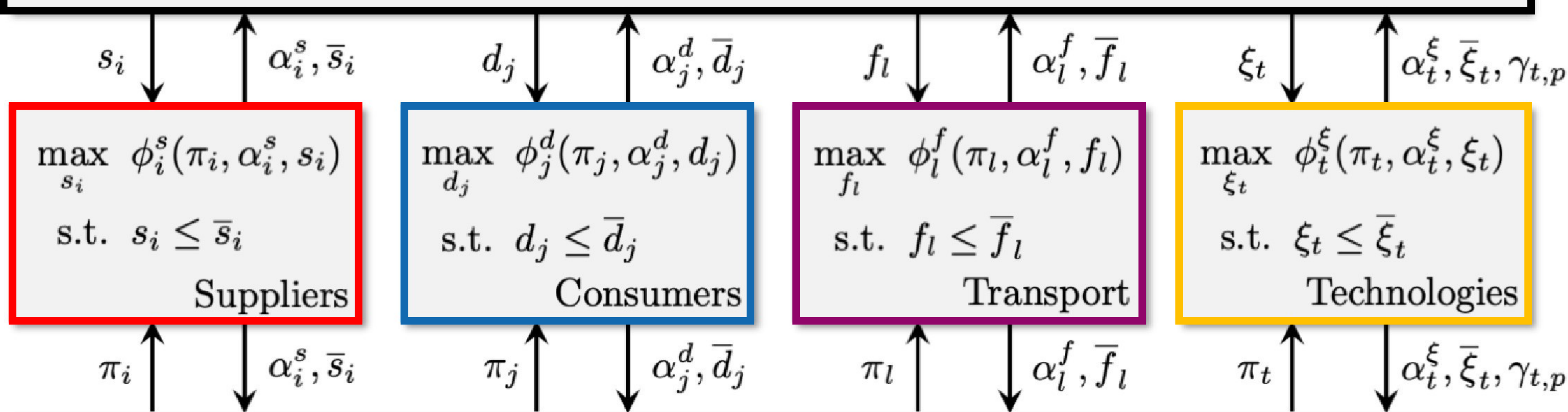


$$\begin{aligned}
& \max_{s,d,f,\xi} \quad \sum_{j \in \mathcal{D}} \alpha_j^d d_j - \sum_{i \in \mathcal{S}} \alpha_i^s s_i - \sum_{l \in \mathcal{L}} \alpha_l^f f_l - \sum_{t \in \mathcal{T}} \alpha_t^\xi \xi_t \\
& \text{s.t.} \quad \sum_{i \in \mathcal{S}_{n,p}} s_i + \sum_{l \in \mathcal{L}_n^{in}} f_l + \sum_{t \in \mathcal{T}_{n,p}^{gen}} \gamma_{t,p} \xi_t = \sum_{j \in \mathcal{D}_{n,p}} d_j + \sum_{l \in \mathcal{L}_n^{out}} f_l + \sum_{t \in \mathcal{T}_{n,p}^{con}} \gamma_{t,p} \xi_t, \quad (\pi_{n,p}) \\
& \quad s_i \leq \bar{s}_i, \quad (\bar{\lambda}_i) \\
& \quad d_j \leq \bar{d}_j, \quad (\bar{\lambda}_j) \\
& \quad f_l \leq \bar{f}_l, \quad (\bar{\lambda}_l) \\
& \quad \xi_t \leq \bar{\xi}_t, \quad (\bar{\lambda}_t)
\end{aligned}$$

Clearing Primal



$$\begin{aligned}
& \min_{\pi, \lambda} \quad \sum_{i \in \mathcal{S}} \bar{s}_i \bar{\lambda}_i + \sum_{j \in \mathcal{D}} \bar{d}_j \bar{\lambda}_j + \sum_{l \in \mathcal{L}} \bar{f}_l \bar{\lambda}_l + \sum_{t \in \mathcal{T}} \bar{\xi}_t \bar{\lambda}_t \\
& \text{s.t.} \quad \pi_i - \bar{\lambda}_i \geq \alpha_i^s, \quad (s_i) \\
& \quad \pi_j + \bar{\lambda}_j \leq \alpha_j^d, \quad (d_j) \\
& \quad \pi_l - \bar{\lambda}_l \geq \alpha_l^f, \quad (f_l) \\
& \quad \pi_t - \bar{\lambda}_t \geq \alpha_t^\xi, \quad (\xi_t)
\end{aligned}$$

Clearing Dual