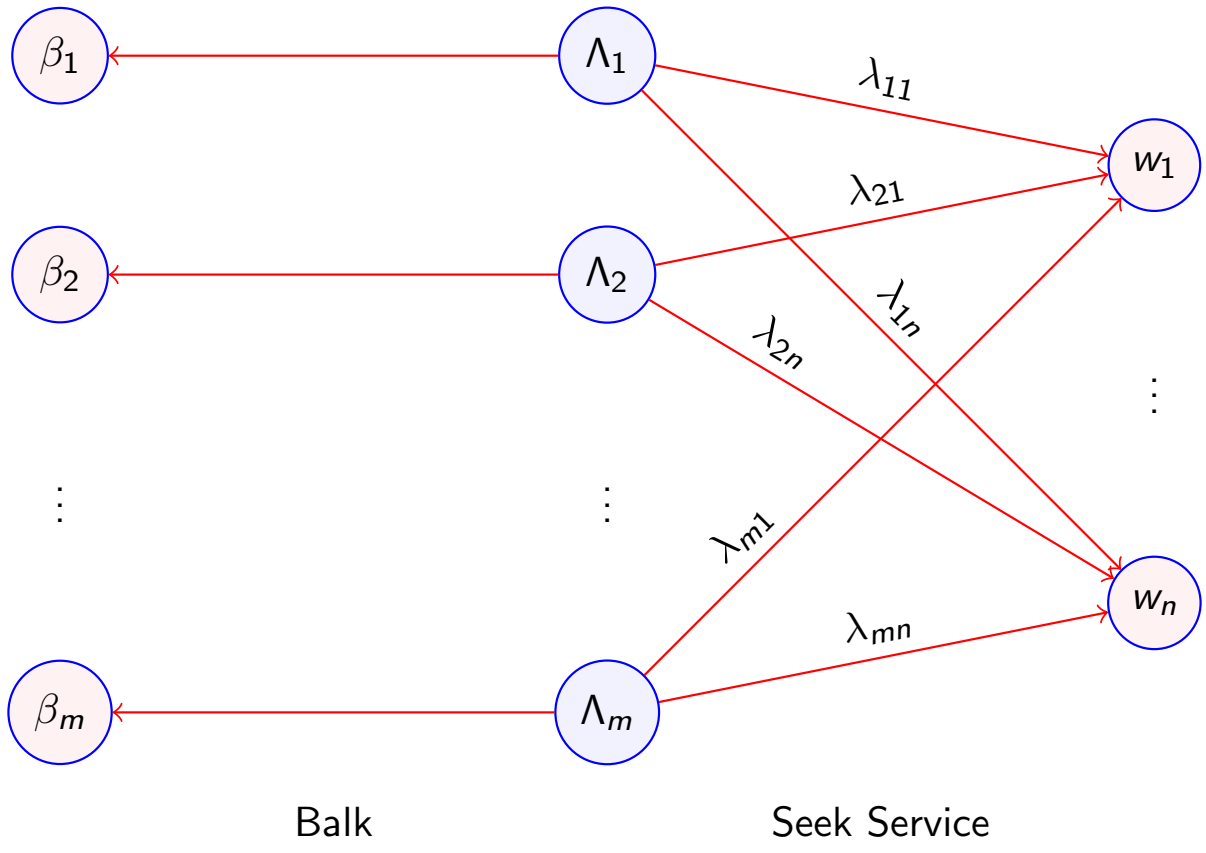
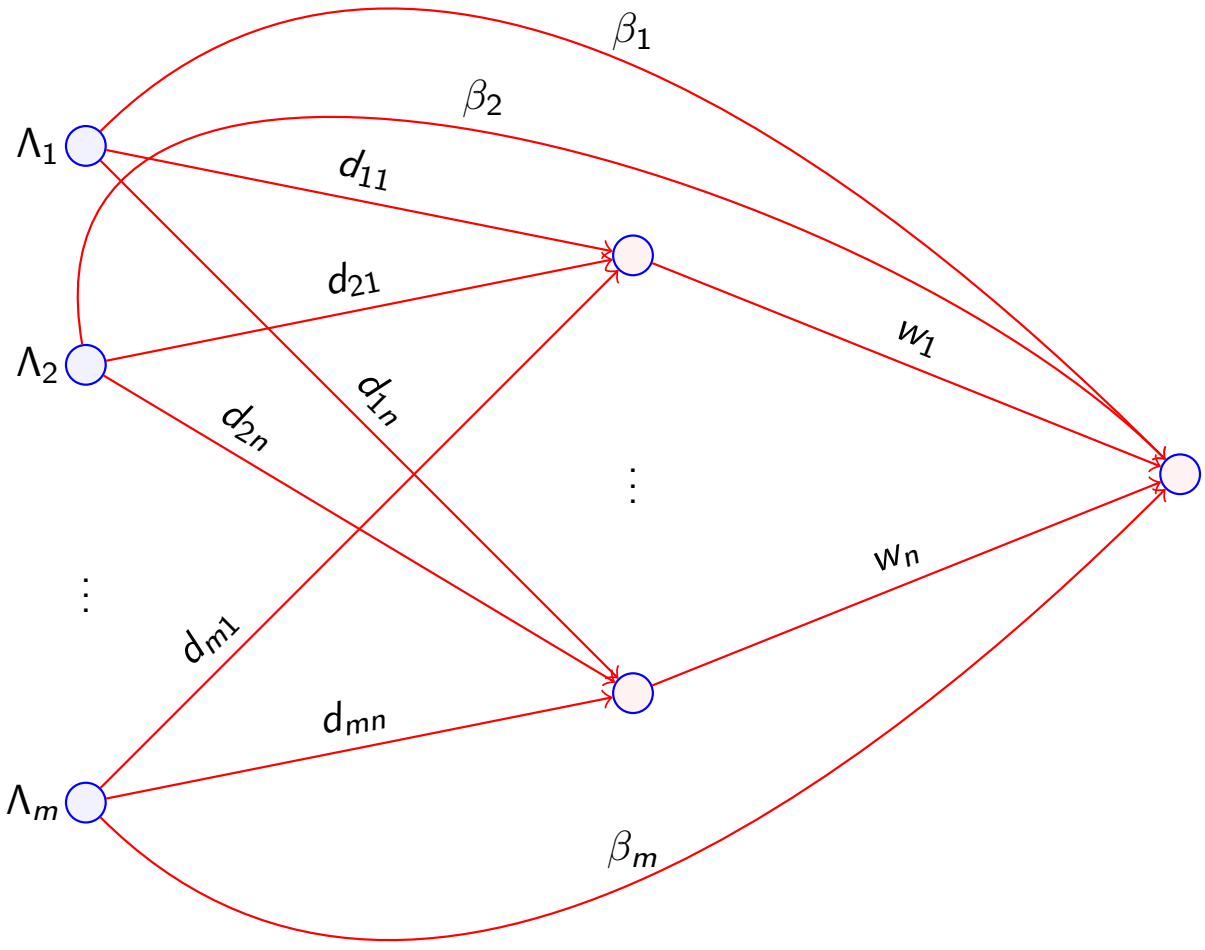
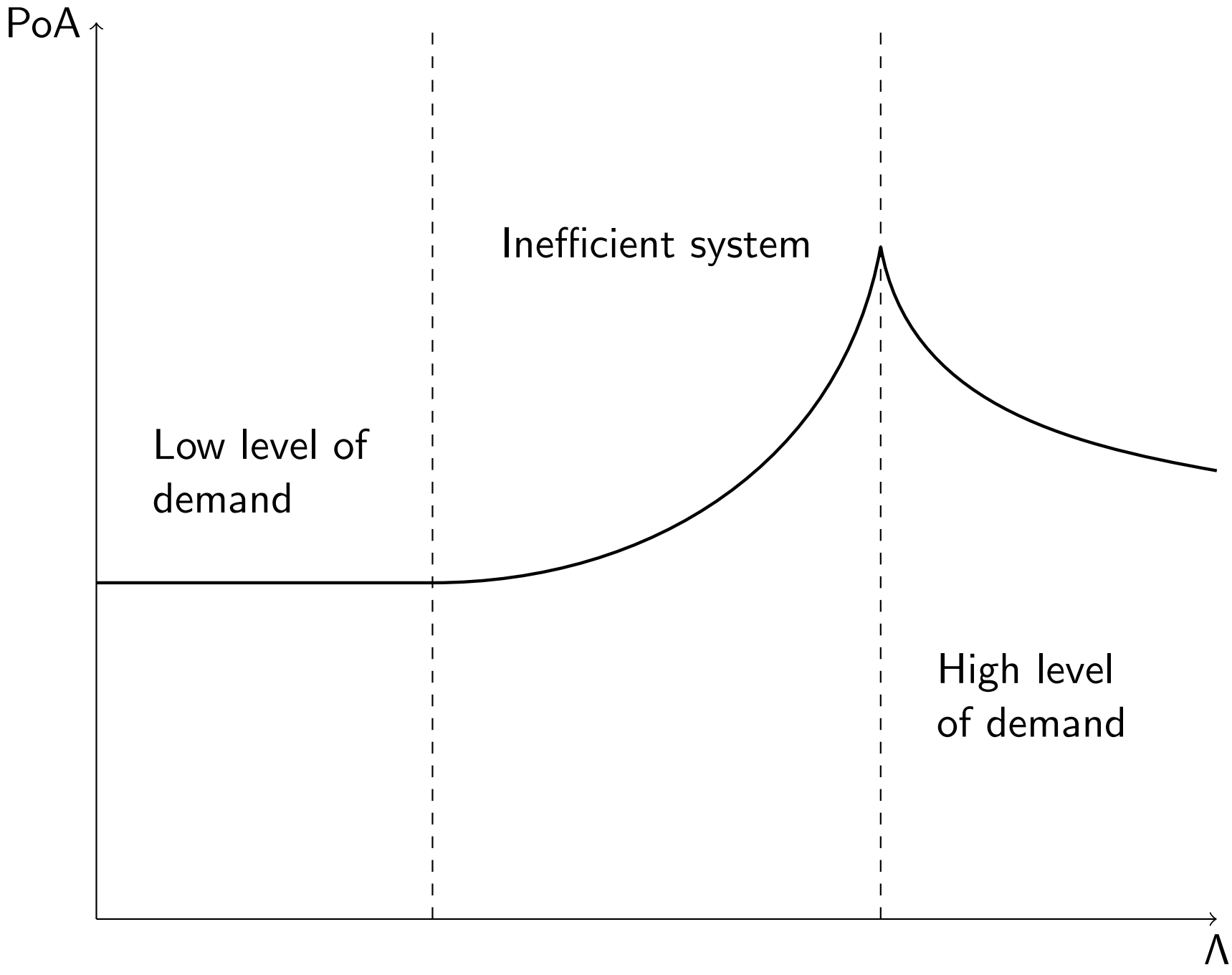
+Vincent.Knight
@drvinceknight
vincent-knight.com/Talks

$$\begin{pmatrix} (2,2) & (5,0) \\ (0,5) & (4,4) \end{pmatrix}$$


β_1
β_2
β_m
Λ_1
Λ_2
Λ_m
λ_{11}
λ_{21}
λ_{1n}
λ_{2n}
λ_{m1}
λ_{mn}
w_1
w_n
Balk
Seek Service

Parameter	Interpretation
$m \in \mathbb{Z}$	Number of sources
$n \in \mathbb{Z}$	Number of service centers
$\beta \in \mathbb{R}^m_{\geq 0}$	Worth of service
$\Lambda \in \mathbb{R}^m_{\geq 0}$	Demand rate
w_j for $j \in [n]$	A convex utility function
d_{ij} for $i \in [m]$, $j \in [n]$	Distance from source i to service center j
λ_{ij} for $i \in [m]$, $j \in [n]$	Traffic from source i to service center j


β_1
β_2
Λ_1
d_{11}
d_{21}
Λ_2
w_1
d_{2n}
d_{1n}
w_n
d_{m1}
d_{mn}
Λ_m
β_m


PoA
Inefficient system
Low level of
demand
High level
of demand
Λ