

| | | | |
|---------------------------|-----------------------------------|-------------------|---|
| $G = (V, A)$ | Complete directed graph | $r = (c, \Gamma)$ | Potential req. $r \in R$ associated |
| $V = \{0\} \cup W \cup C$ | Set of vertices (depot is 0) | | to time $\Gamma \in H$ and loc. $c \in C$ |
| $W = [1, m]$ | Waiting vertices | Γ_r | Reveal time of request $r \in R$ |
| $C = [m + 1, m + n]$ | Customer locations | c_r | Cust. loc. hosting req. $r \in R$ |
| $d_{i,j}$ | Travel time of arc $(i, j) \in A$ | s_r | Service time of request $r \in R$ |
| K | Number of vehicles | $[e_r, l_r]$ | Time window of request $r \in R$ |
| Q | Vehicle capacity | q_r | Demand of request $r \in R$ |
| $H = [1, h]$ | Discrete time horizon | p_r | Prob. associated with req. r |
| $R = C \times H$ | Set of potential requests | | |