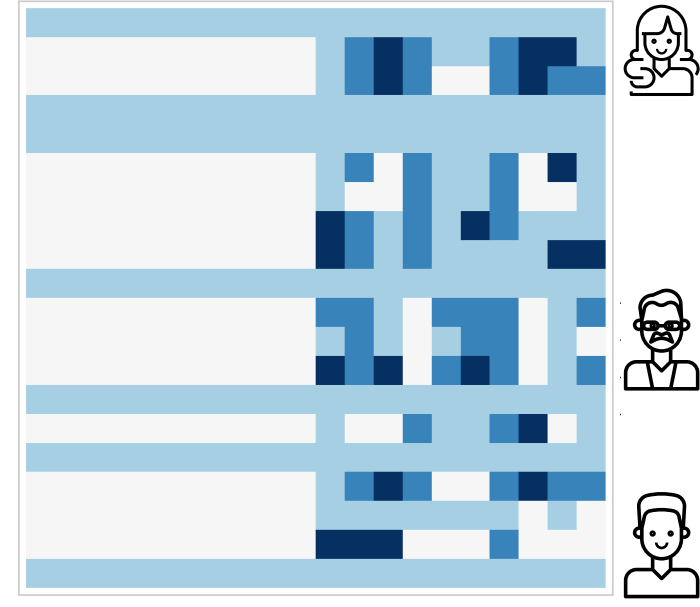


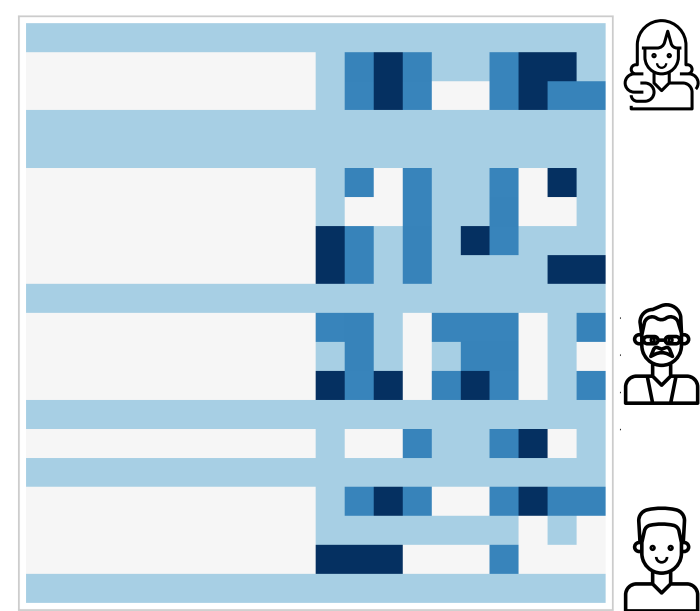
Optimizer: Linear Assignment

w_{ij} is health priority for given vaccination spot



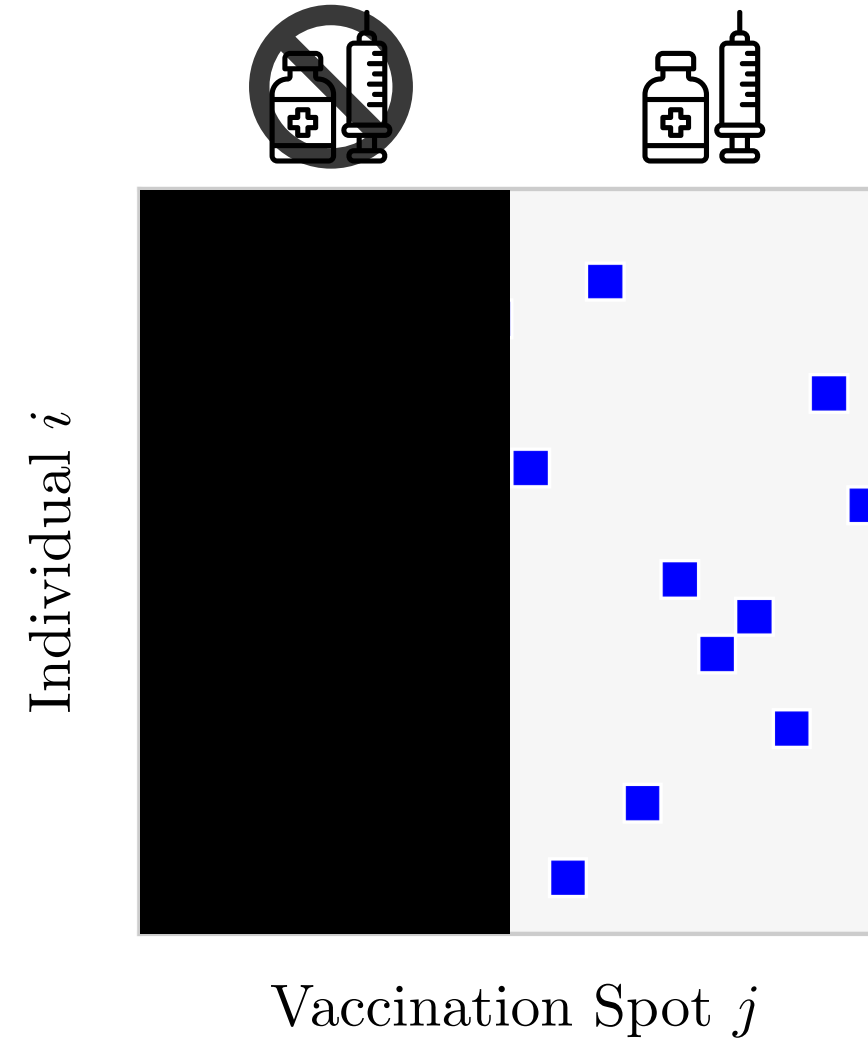
\mathbf{w}

$\mathbf{\hat{w}}$

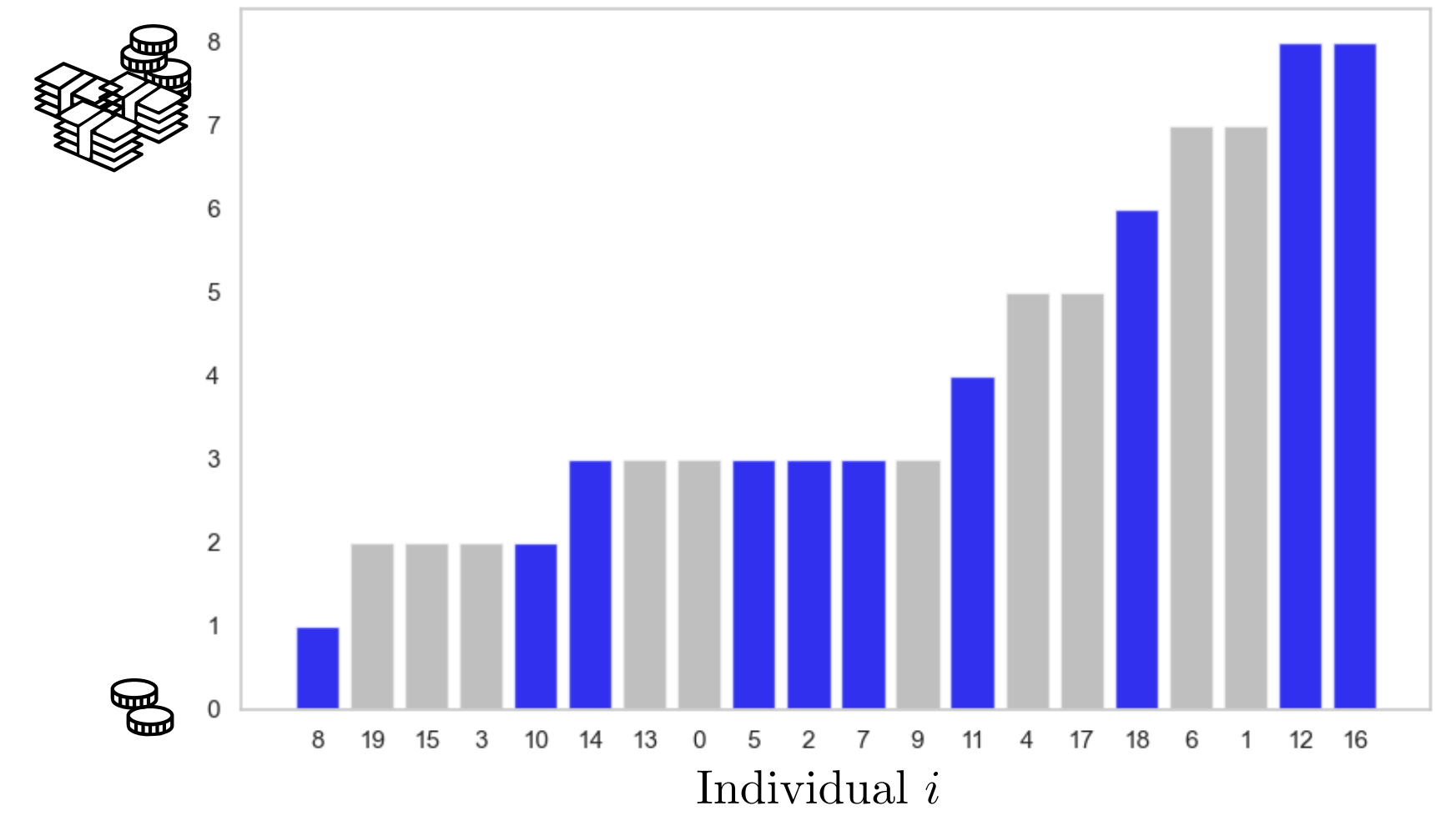


$$+ 0.01 * \text{sign}(\nabla_{\mathbf{w}} \|\mathbf{x}_P^*(\mathbf{w}) - \mathbf{x}^*(\mathbf{w})\|_2)$$

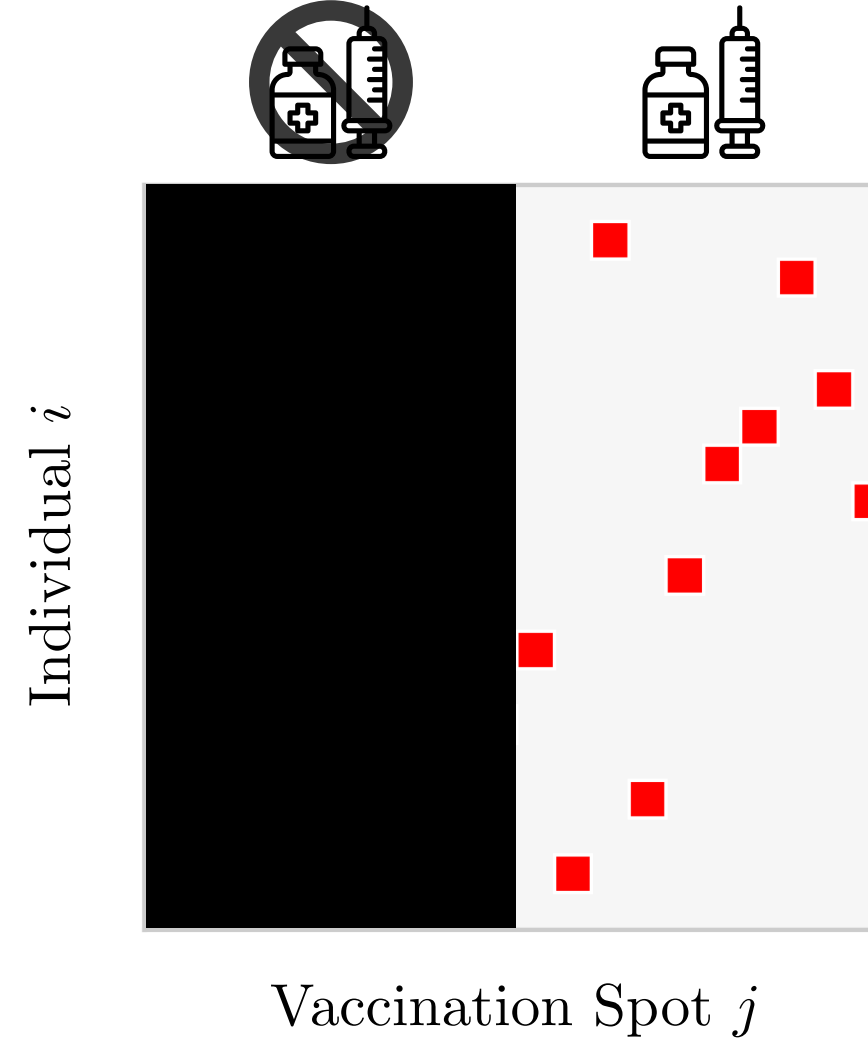
$\mathbf{x}^*(\mathbf{w})$



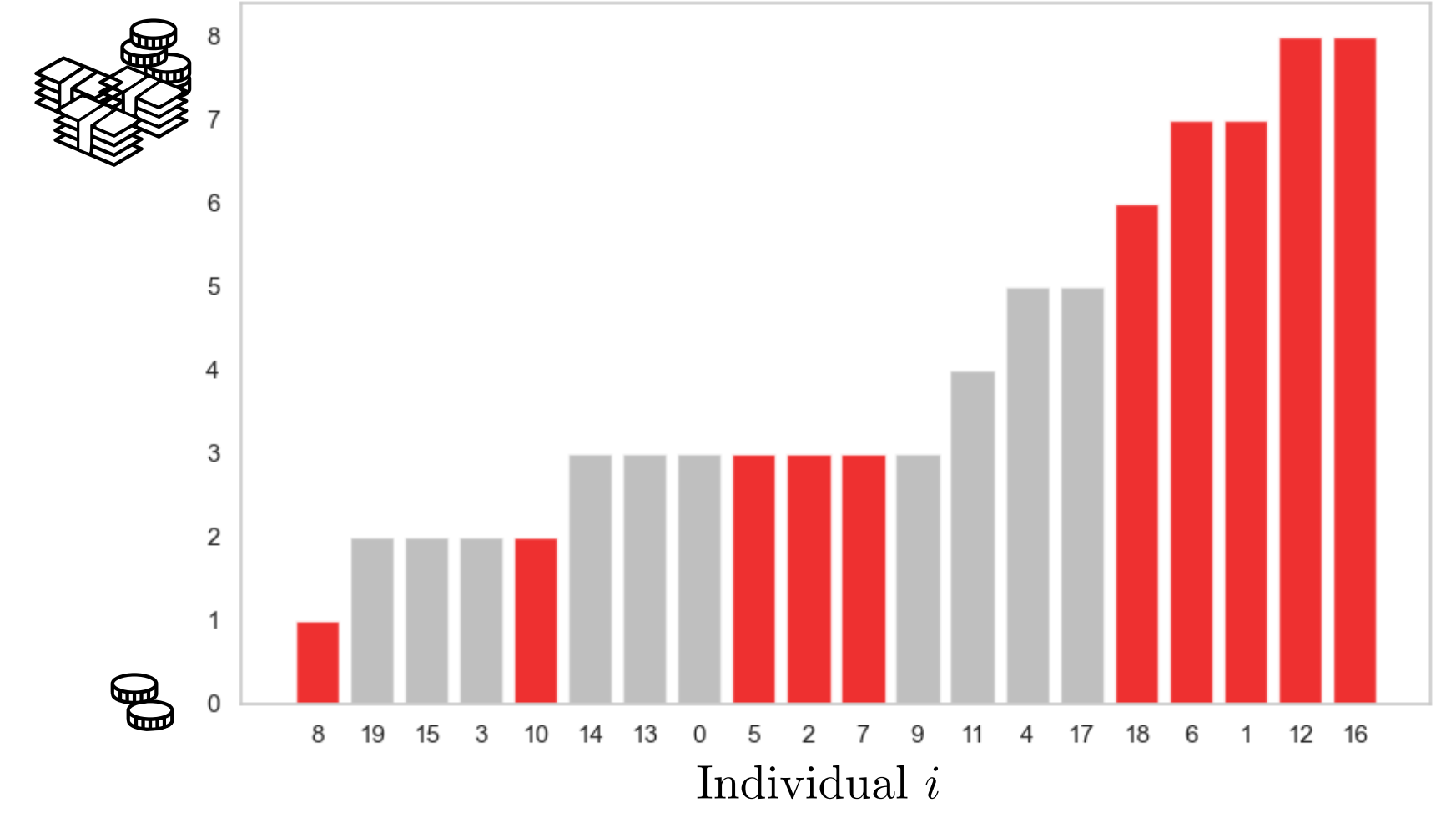
Wealth per individual with guaranteed vaccination



$\mathbf{x}^*(\mathbf{\hat{w}})$



Wealth per individual with guaranteed vaccination



Optimizer: Shortest Path

w_{ij} is toll cost for road segment from i to j



\mathbf{w}

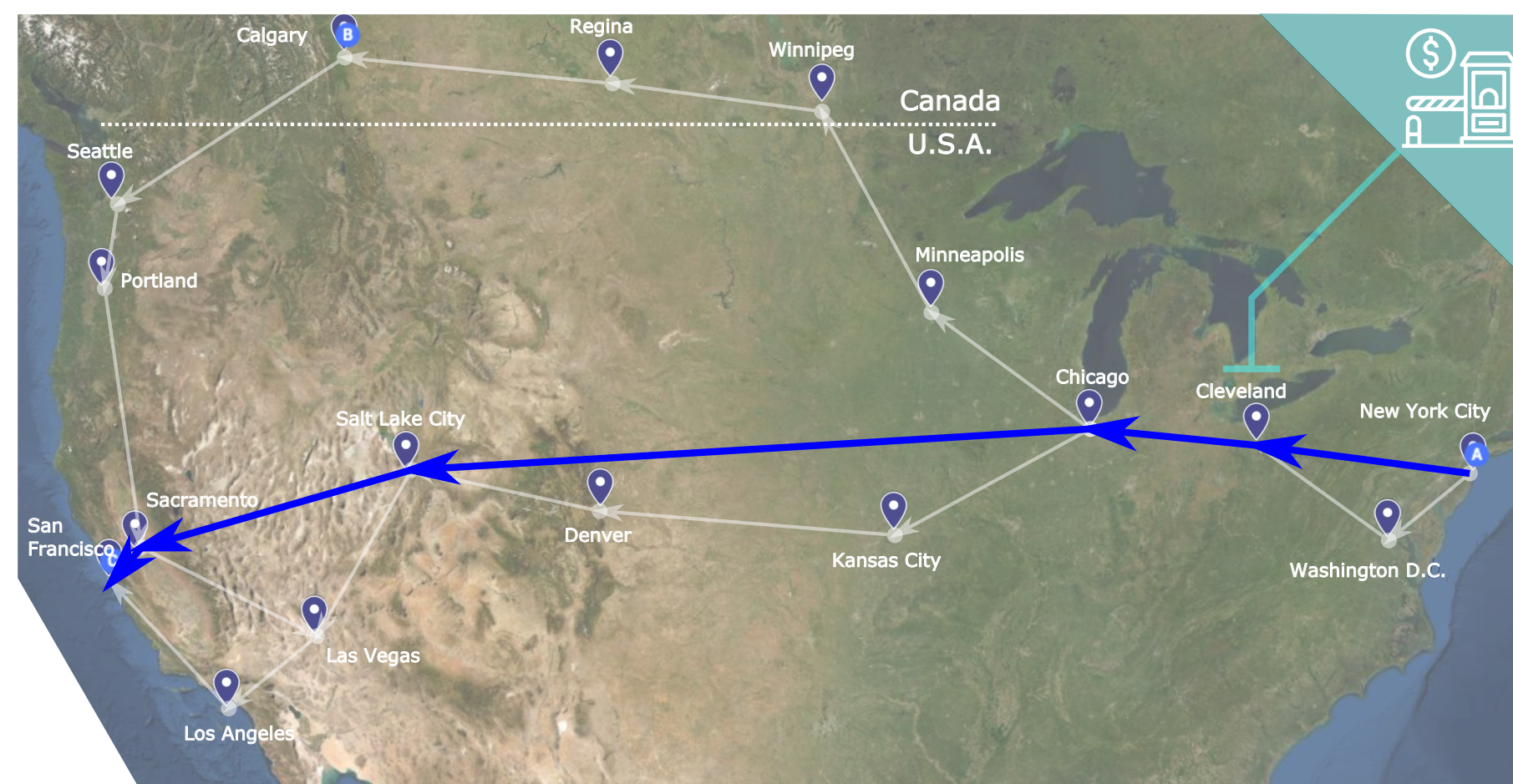
$\mathbf{\hat{w}}$



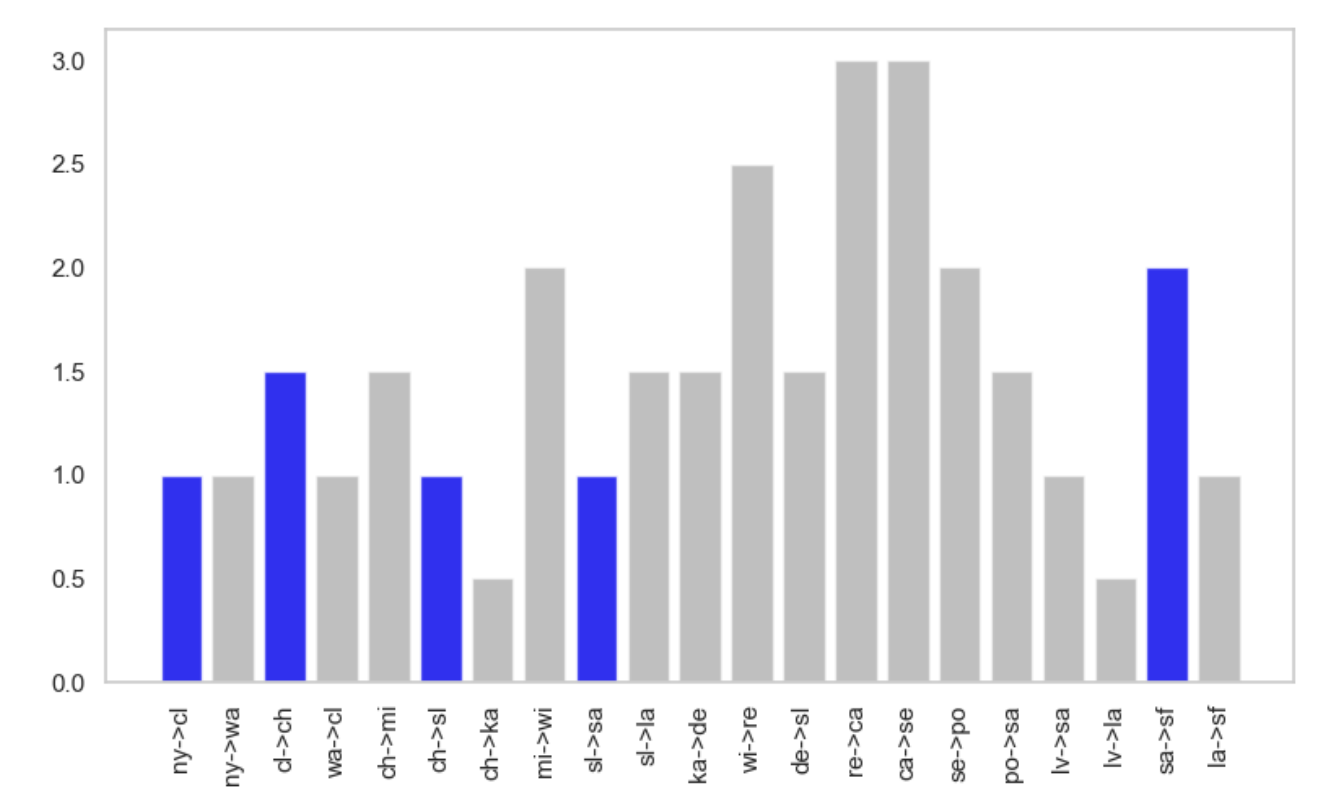
$$+ 0.01 * \text{sign}(\nabla_{\mathbf{w}} \|\mathbf{x}_P^*(\mathbf{w}) - \mathbf{x}^*(\mathbf{w})\|_2)$$

$\mathbf{x}^*(\mathbf{w})$

$\mathbf{x}^*(\mathbf{\hat{w}})$



CO₂ emissions per sel. segment



CO₂ emissions per sel. segment

