

*i)* Scheduled  
event

*ii)* Select individuals  
for sampling

*iii)* Random  
sampling

*iv)* Updated node  
and dest

event: 3  
time: 4  
node: 14  
dest: 23  
n: 1  
proportion:  $0^\ddagger$   
select: 6  
shift:  $0^\dagger$

$$\begin{array}{c}
 \Rightarrow \begin{array}{cc} u[,14] & E[,6] \\ \begin{array}{l} S_1 \begin{bmatrix} 12 \\ 3 \\ 63 \\ 14 \\ 92 \\ 2 \end{bmatrix} \\ I_1 \end{array} & \begin{array}{l} \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \end{bmatrix} \end{array} \\ \begin{array}{l} S_2 \\ I_2 \\ S_3 \\ I_3 \end{array} & \begin{array}{l} \text{select} \\ \text{select} \end{array} \end{array} \\
 \Rightarrow \begin{array}{c} \text{Eligible for} \\ \text{sampling} \end{array} \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 92 \\ 2 \end{bmatrix} \Rightarrow \begin{array}{c} \text{Sampled} \\ \text{individual} \end{array} \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{bmatrix} \Rightarrow \begin{array}{c} u[,14] \\ \begin{bmatrix} 12 \\ 3 \\ 63 \\ 14 \\ 91 \\ 2 \end{bmatrix} \end{array}
 \end{array}$$

$$\begin{array}{c}
 \Rightarrow \begin{array}{c} u[,23] \\ \begin{bmatrix} 11 \\ 18 \\ 13 \\ 54 \\ 22 \\ 72 \end{bmatrix} \end{array} \Rightarrow \begin{array}{c} u[,23] \\ \begin{bmatrix} 11 \\ 18 \\ 13 \\ 54 \\ 23 \\ 72 \end{bmatrix} \end{array}
 \end{array}$$