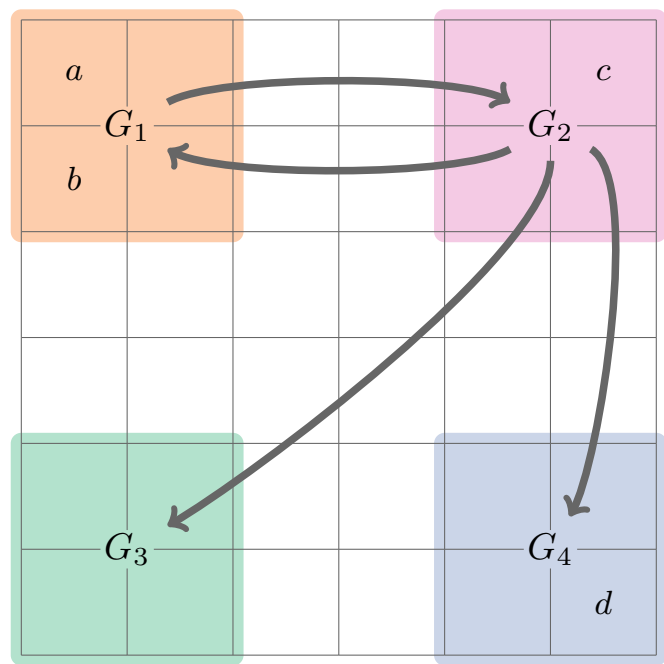
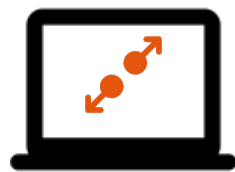


## Multi-pathway network with groups

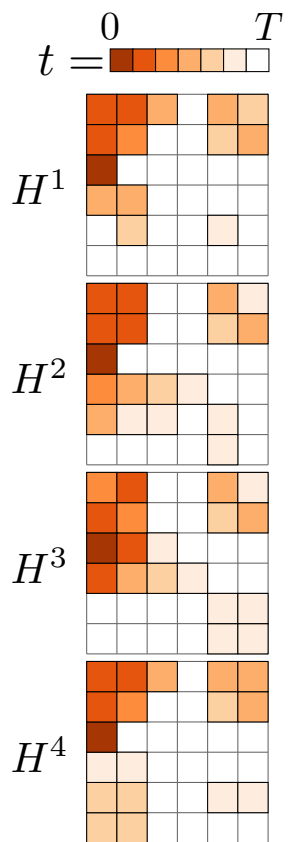


## Propagation model

Seeding scenarios



Model parameters



Simulation instances

Budget on number of locations and resources

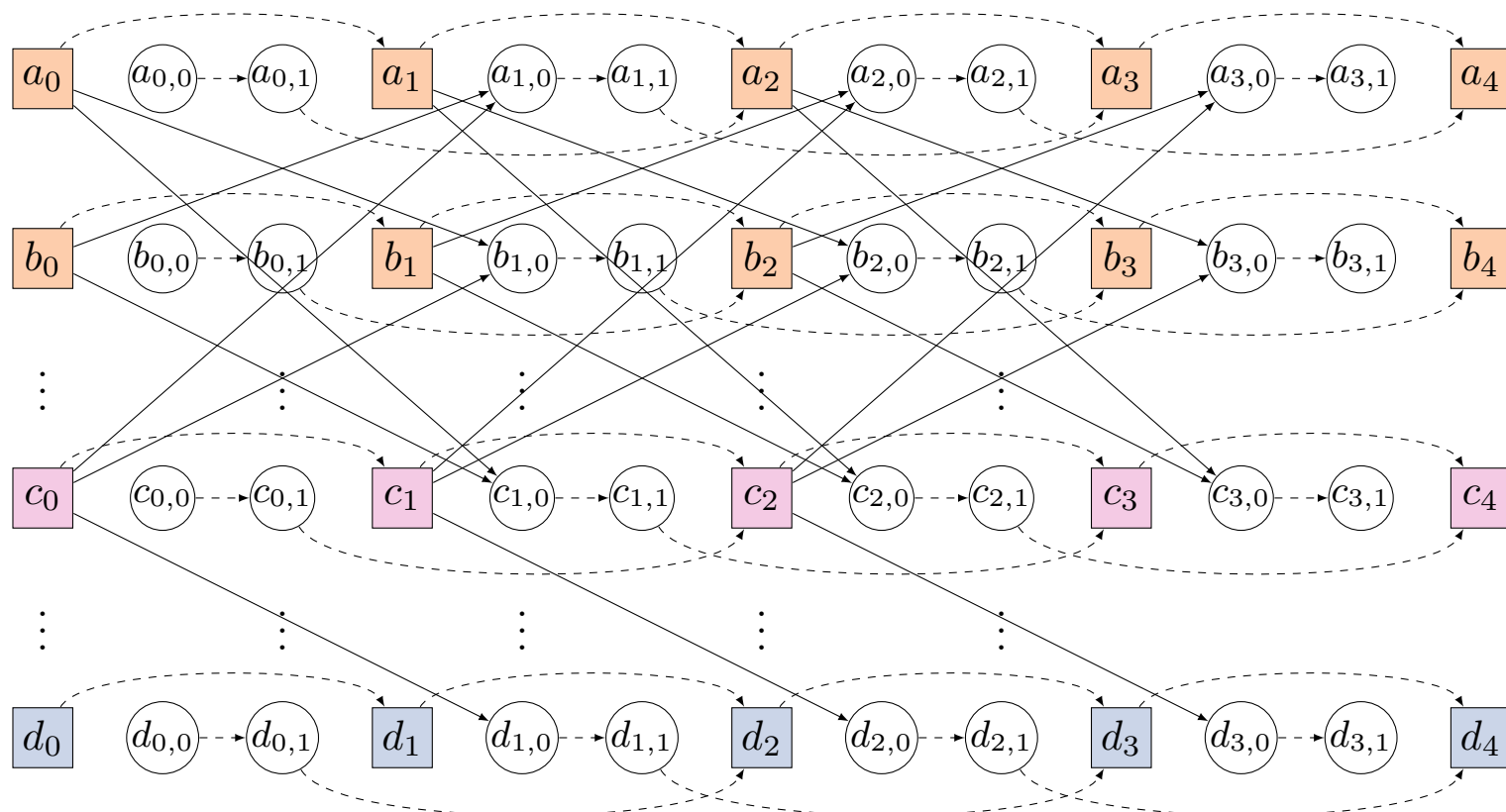
**Surveillance algorithm**  
using sample average approximation

$\mathbf{I} \rightarrow \mathbf{I}$

$\mathbf{S} \rightarrow \mathbf{E}$

$\mathbf{E} \rightarrow \mathbf{E}$

$\mathbf{E} \rightarrow \mathbf{I}$



**Time expanded graph for an SEI process**