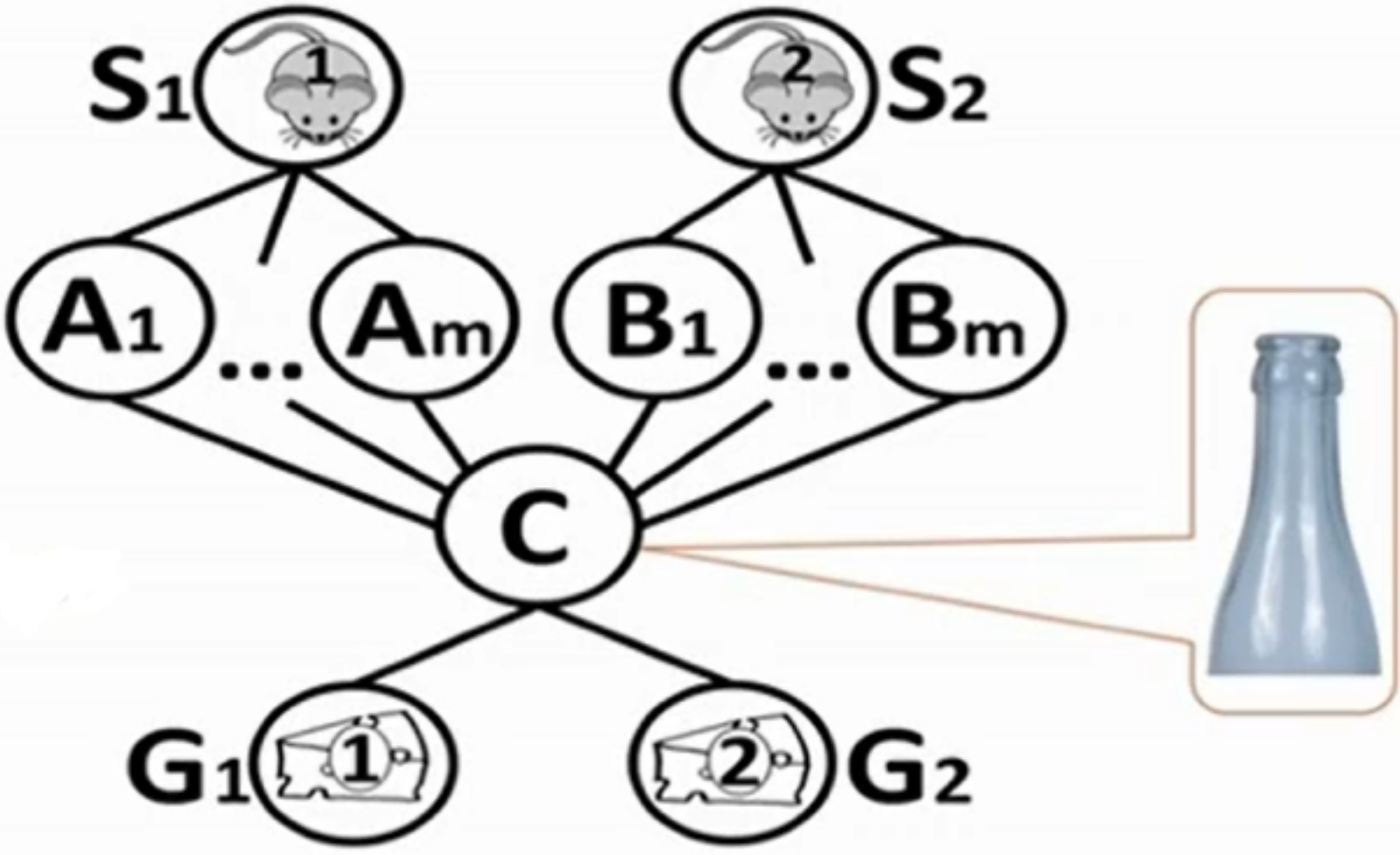
S1
1
2
S2
A1
...
Am
B1
...
Bm
C
G1
1
2
G2

Conflict-Based Search(CBS)

Optimal=3+4=7

Optimal=3+4=7

Conflicts and Constrains

- Conflict: [agent A, agent B, location X, time T]

- Constraint: [agent A, location X, time T]

(1) 为每一个代理单独规划路径

(2) 验证这个规划会不会产生冲突

通过添加约束来解决这个冲突（约束A或者约束B）

CBS : general idea

(3) 如果这个规划A和B产生冲突了

6

7