```
P(Observations_t) \times P(Target in Cell_t \mid Observations_t) \times P(Observations_t) \times P(Obs
P(Target Found in Cell; | Target in Cell;)P(Observations,) =
P(Target\ in\ Cell_i \mid Observations_i) \times P(Target\ Found\ in\ Cell_i \mid Target\ in\ Cell_i) =
Belief_{t}[i] \times (1 - [False\ Negative\ Rate\ of\ Cell_{i}])
```