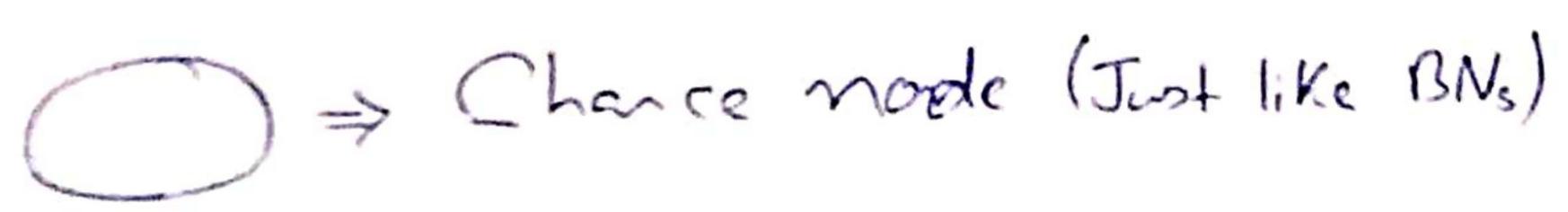
Occision Nothanko Value of Information

* Occision Notworks

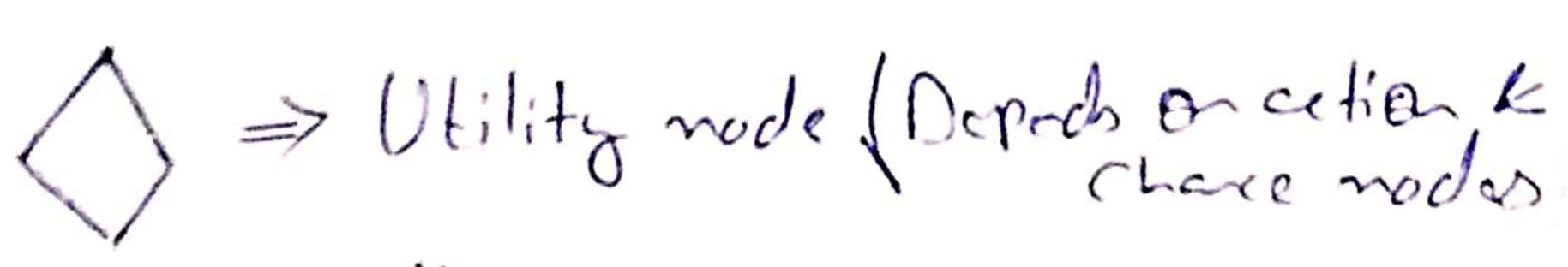
(MEU) [Maximum Exported Obility)

Les Choose the cetion which maximizes the expected utility give the evidence.

=> New mode topo:



Actions (canot have parets, act as)
observed evidence



(#) Action selection

- * Instantiale all evidence
- Sat action moders) each possible way
- · Calculato posterior for all parents of utility vode, given the evidence
- a Calculate expected whility for each action
- · Chase maximizing action.

* Value of Information

Idea: Compute volue of cequising evidence

VPI(E'le) = \(\sumeq P(e'le) MEU(e,e') - MEU(e)

(#) VPI Proportion

Nonnegative X E,e: VPI(E'/e) >0

Nonceld, tive

VPI(E;, Exle) + VPI(E; le) + VPI(Exle)

POMPS [Partielly Observable marken decision Process]

I am not some chall of I am also not some and my cetion will do) of State I am cetally in

=> MPPs have:

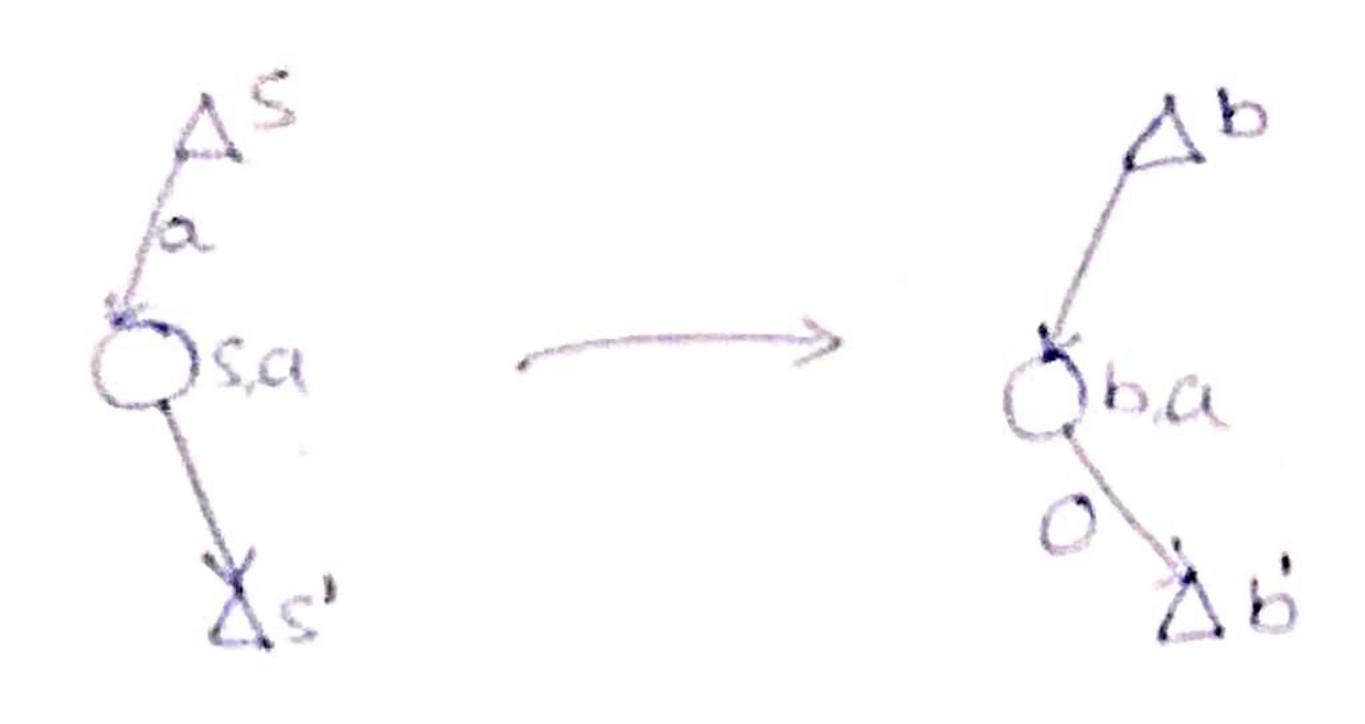
> States S > Actions A

-> Tononsition function P(s'15,a) -> Rewards R(S,a,s')

=> POMDPs cold:

-> Observations O

> Observation function P(0/S)



=> POMPPs are MDB over belief state b

(distribution over S)

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