



## W4-3-2 Gibbs energy 2

Provide the differential expression for the Gibbs energy,  $dg$ , by using  $du$ .  
What are the variables for the Gibbs energy?

$g = u - Ts + Pv = h - Ts \rightarrow g = h - (Ts) = T\dot{s} + v\dot{P} - T\dot{s} - s\dot{T} = v\dot{P} - s\dot{T}$ .  
The variables for the Gibbs energy are  $T$  and  $P$ .