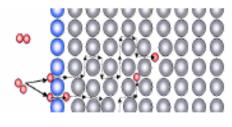
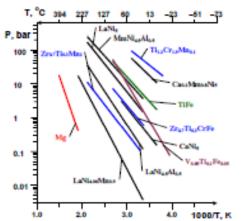
Solutions Based on MH Technologies



Gas phase applications $M(s) + x/2 H_2(g) \leftrightarrow MH_x(s) + Q$





Hydrogen Storage

H Compression; Heat Management

H Separation and Purification

Processes Involving H transfer

✓ Volume density of H in the metal lattice 1.5-2.0 times higher / then for LH₂

- ✓ Fast and reversible H₂
 absorption / desorption
- Extremely wide
 - T / P operation ranges
- ✓ Significant heat effects:

 H₂ sorption is accompanied
 by heating and H₂
 desorption by cooling
 of the MH bed
- ✓ Selectivity: only H₂ interacts with MH
- ✓ H activation by MH