## 2. Concept of state

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DS with ouriliery veridales X  $S_{x} = \{T, W, X, Z_{x}\}$  $Z_{x}$  solisties the

State assiona

 $\{(w_0', x_0'), (w_0^2, x_0^2) \in \Sigma_x(t_0), t \ge t_0 \text{ and } x_0'(t) = x_0^2(t) \} = V$   $= V \{(w_0, x_0) \in \Sigma_x(t_0) \}$ 

where , given  $t' \in T$  $\{w_o'(t'), x_o'(t')\} = \{(w_o'(t'), x_o'(t')) \mid t' \geq t \}$ 

At time t xo'=xo², the future behavior is indipendent by the post and it can follow (Wo¹, Xo¹) or (wo², xo²).