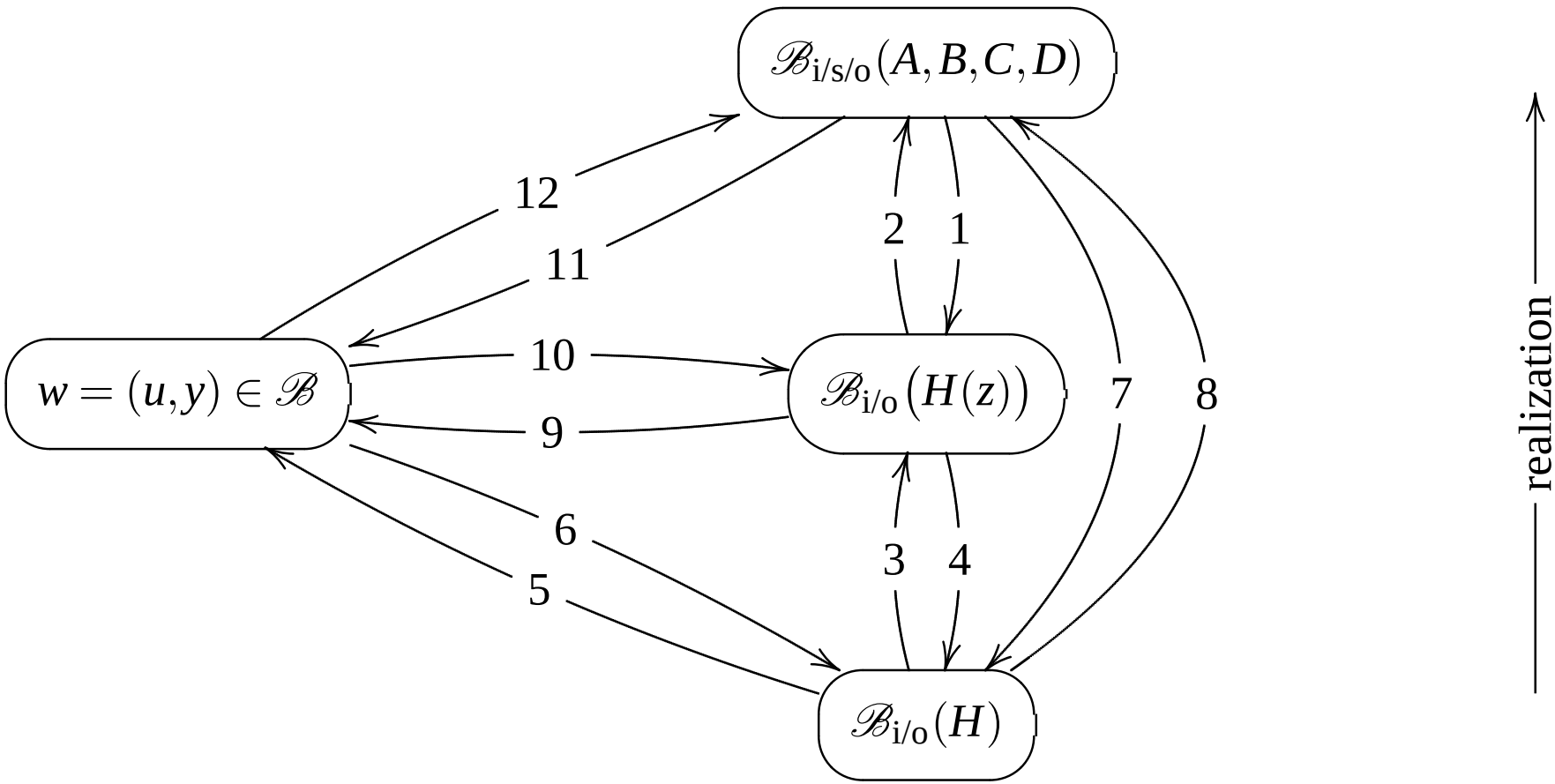
data ——— identification ⟶ *model*



1. $H(z)=C(Iz-A)^{-1}B+D$
2. realization of a transfer function
3. Z or Laplace transform of $H(t)$
4. inverse transform of $H(z)$
5. convolution $y_{\text{d}}=H\star u_{\text{d}}$
6. exact identification
7. $H(0)=D$, $H(t)=CA^{t-1}B$ (discrete-time), $H(t)=Ce^{At}B$ (continuous-time), for $t>0$
8. realization of an impulse response
9. simulation with input u_{d} and $x(0)=0$
10. exact identification
11. simulation with input u_{d} and $x(0)=x_{\text{ini}}$
12. exact identification