

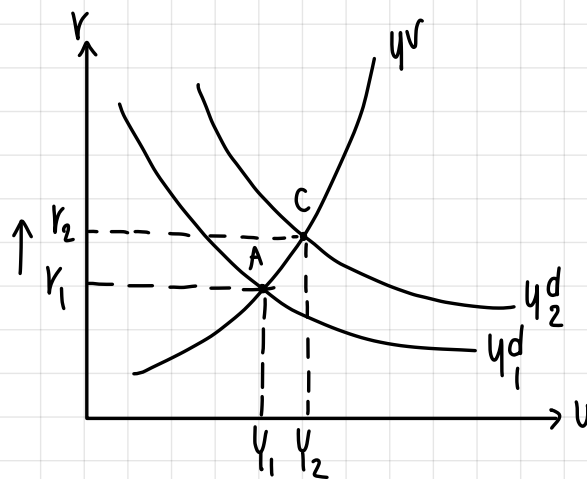
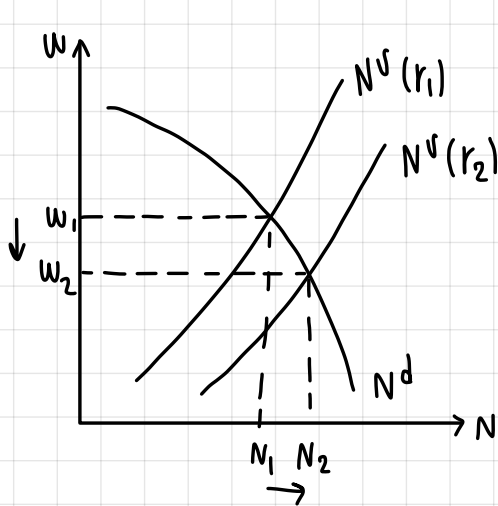
Digital Twins

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↳ Digital twins can be used as means of optimizing the operation and maintenance of physical assets, systems and processes. By analyzing the virtual model, digital simulations can be undertaken that can help prevent actual problem and increase quality of production. It also allows analysis of real-time status and comparisons with historical data. Therefore, it help production to be faster.

The digital twins technology contribute to increase in future total productivity (z') which led investment to increase together with higher future income that rise current consumption. So, it make output demand to shift to the right from Y_1^d to Y_2^d ; output increase from Y_1 to Y_2 and real interest rate increase from r_1 to r_2 . As real interest rate rise, it lead labor supply to shift to the right from N_1^s to N_2^s ; current labor input increase from N_1 to N_2 and real wage decrease from w_1 to w_2 . As income get higher, it result in rising consumption, but higher real interest rate reduce it; not as much as it increase. The higher investment from MP'_k , is reduce by increasing of real interest rate, however, MP'_k effect is stronger.



In credit market, investment increase and shift to the right from $B+I_1^d$ to $B+I_2^d$. Consumption increase less than income rise. Private saving also increase and shift to the right from S_1^p to S_2^p ; real interest rate increase from r_1 to r_2 and quantity of credit rise from Q_{C1} to Q_{C2} .

