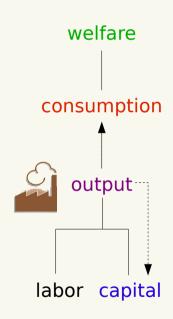
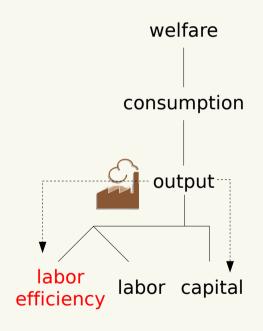
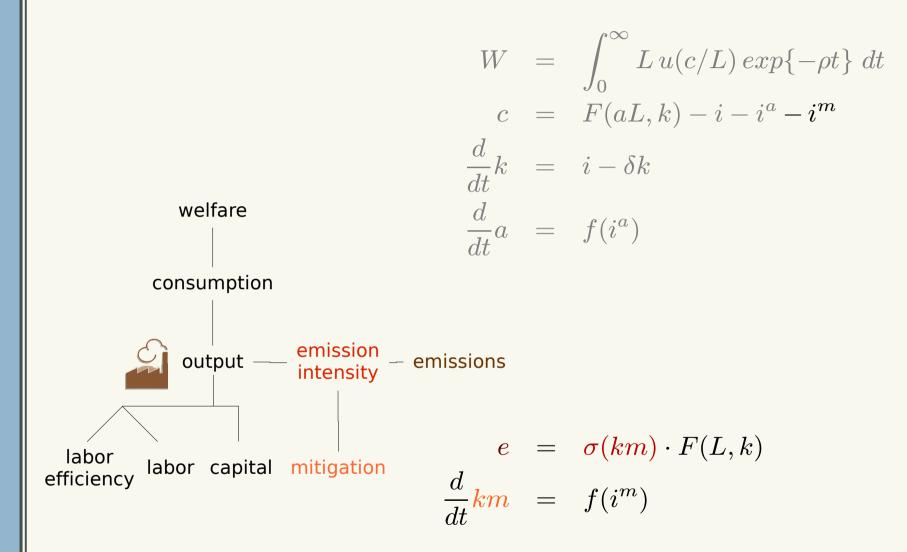
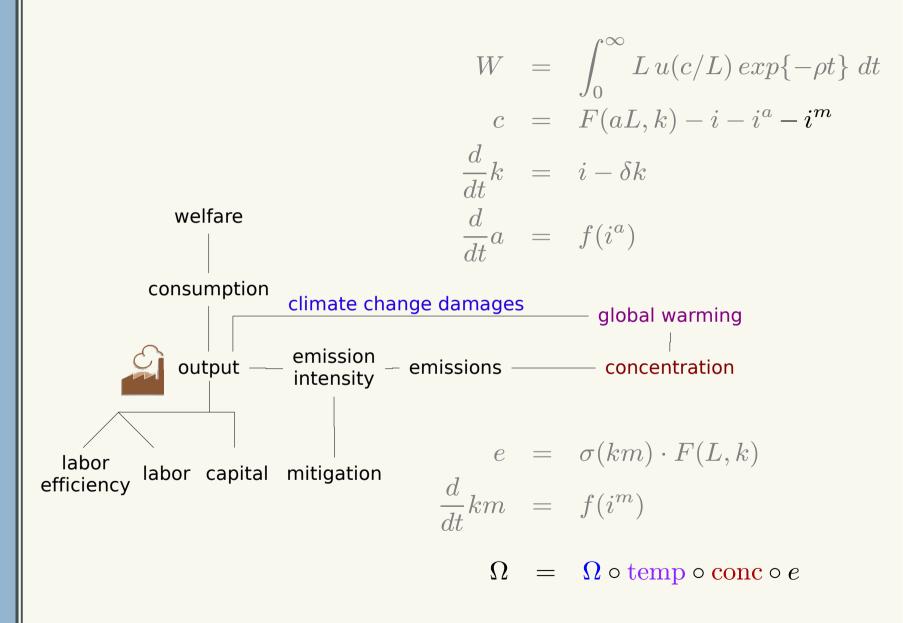
$$\begin{array}{rcl} W & = & \int_0^\infty L \, u(c/L) \, exp\{-\rho t\} \, dt \\ \\ \boldsymbol{c} & = & \boldsymbol{F}(aL,k) - i \\ \\ \frac{d}{dt} \boldsymbol{k} & = & i - \delta k \end{array}$$





$$egin{array}{lll} W &=& \int_0^\infty L\,u(c/L)\,exp\{-
ho t\}\,dt \\ c &=& F(aL,k)-i-i^a \\ rac{d}{dt}k &=& i-\delta k \\ rac{d}{dt}{\color{black}a} &=& f(i^a) \end{array}$$

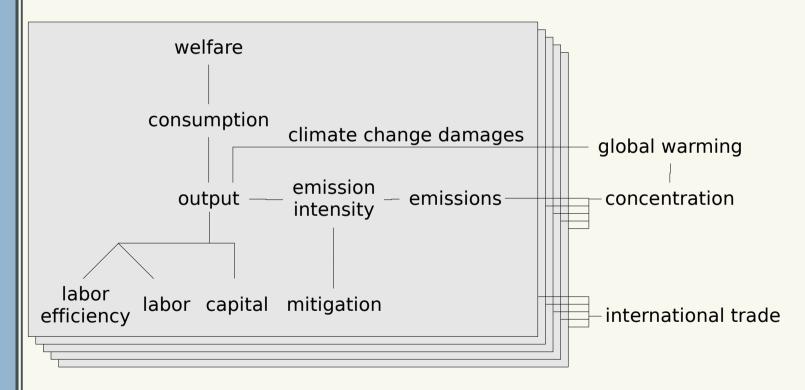




temp(·), conc(·): Petschel-Held et al. 1999 $\Omega(\cdot)$: Nordhaus/Yang 1996

- Multiple regions (here: 9)
- International trade

with national product differentiation



 Solving <u>multi-actor intertemporal optimizations</u> with <u>trade + external effects</u> is numerically challenging