Discussion by Pietro Reichlin of

Managerial incentives, Capital Reallocation, and the Business Cycle

by

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Stylized facts the model tries to explain:

- Executive compensation
- CEO turnover (capital reallocation)

causation: are procyclical +





Main features of the model:

Investors: have no information on project types that managers are allocated to

Managers:

- get private non material benefits
- are subject to limited liability
- their reservation wage increases with n. of managers

Contracting problem:

How best reallocate capital among good and bad project types when type is private information of the manager (adverse selection)

Capital reallocation?

In an initial sub-period capital is distributed equally among project types and...

it is reallocated in a second sub-period after managers learn productivity of project and contracts are selected

Contracting problem

$$\max \sum_{i} \pi_{j} d_{j}$$
 s.t.:

$$\sum_{j} \pi_{j} d_{j} \leq \sum_{j} \pi_{j} (a_{j} + b) k_{j} - v \tag{PC}$$

$$\sum_{j} \pi_{j} k_{j} \leq k$$
 No commit. (RC)

$$d_j \le a_j k_j \tag{LL_j}$$

$$(a_j + b)k_j - d_j \ge (a_j + b)k_i - d_{ij}$$
 (IC_j)

$$k_j \ge 0, \qquad d_{ij} \le a_j k_i$$

Optimality implies:

$$d_{ij} = a_j k_i, \quad j \neq i \in \{H, L\}$$

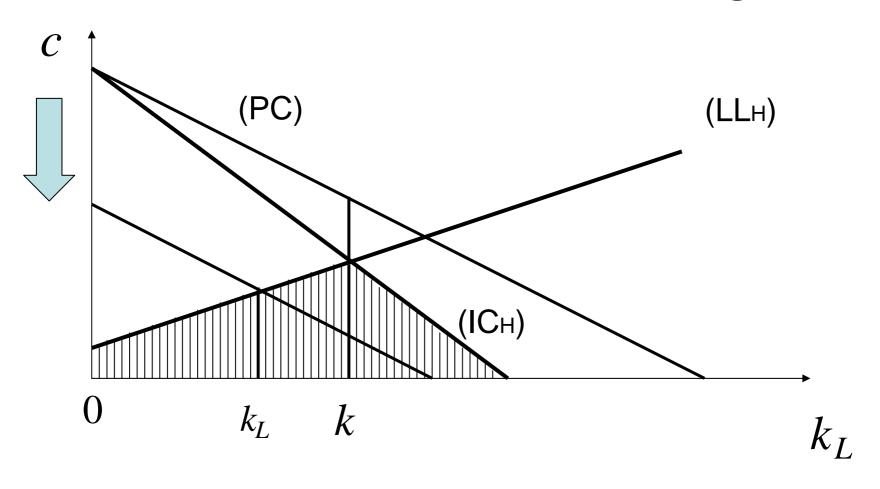
$$d_L = a_L k_L - b \min\{k_H - k_L, 0\}$$

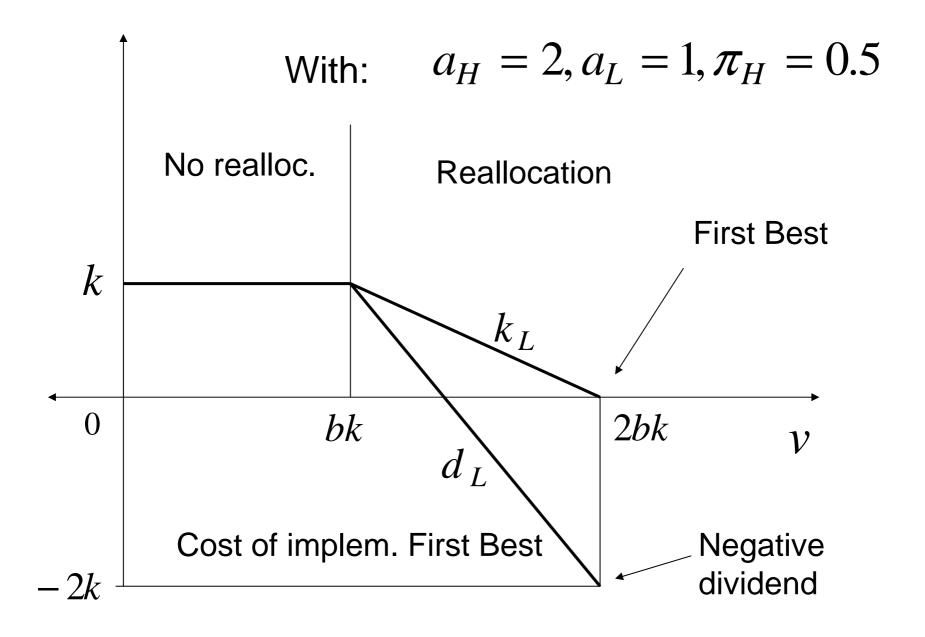
$$k_H \geq k_L$$

 \Rightarrow (IC_L) Satisfied with equality

Assuming that b is sufficiently high:

Effect of increasing v





Negative dividends from underperforming firms? Investors give bonuses to managers to stay home

But neg. dividends are ex-post bonuses (given after uncertainty is realized)

Is this compatible with no commitment?

Closing the model

Initial investment in each project is fixed at k Then, m = number of managers is perfectly correlated with output

Crucial assumption: managers' reservation wage (v) is increasing in m (i.e., in output)

Then: there is amplification of business cycle:

- -- Reallocation when v (i.e., Y) is high
- --Reallocation reduces losses from agency costs

Opposing view?

Kaplan (94): executive turnover negatively related And cash comp. positively related to earnings and sales

Inferior technologies can more easily turn unprofitable and scrapped in recessions (e.g., vintage capital model of Caballero-Hammour, '94) "Cleansing effect of recessions"

Evidence on job reallocation: concentrated during recessions

Models where b. cycle is amplified are mainly based on collateral. Here no collateral: just private information!

Alternative view:

Adverse selection: proportion of bad projects increases with borrowing costs

E.g.: Reichlin-Siconolfi (04): In upswing of cycle borrowing costs increase and lenders attract more bad projects

Final Remark:

Since v'(m) > 0 is very important: one would like this assumption to arise from deeper microfoundations

Alternative ass.: (1) Managers that are hired last (in the booming economy) are the less able, (2) More managers enter the market in booms

I know this is inconsistent with data within this model since it implies countercyclical compensations! But addressing issue may still be interesting