

SECTION 3 FOLDER, “Back to Basics: Basic Research Spillovers, Innovation Policy and Growth”

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This readme describes the empirical analysis provided in Section 3 of the manuscript.

The empirical evidence provided in Section 3 is based on French firm level data and NBER patent data. Please note that the firm level data is covered by a confidentiality agreement and unfortunately we cannot provide it. We have, however, provided all of the do files and important output that can be disclosed. To obtain the original data, please contact the Comite du Secret at secretariat@comite-du-secret.fr

We go through the order of files and discuss data inputs and outputs:

1) RESTUD_BTBTB_SUPPLEMENTARY_CONSTRUCTIONFIRM

Merges and organizes the firm level data sets that are used for the analysis in Section 3. The data inputs are called: BRN (balance sheets), EAE (multidivisional firms), LIFI (Ownership links), RD (Survey – composed of both firm and branch level), OEB (patents with firm identifiers). They were obtained for the period 2000 to 2006. We also used the LIFI survey between 1985 to 1987 to obtain historical ownership information.

2) RESTUD_BTBTB_SUPPLEMENTARY_ANALYSISFIRM

The program uses the data output from the previous do file in order to produce:

- Tables 2 & 3,
- Figures 4 (left panel) & 5,
- Firm moments used in the structural estimation of Section 4.

3)SIC_network_graph

The right panel of Figure 4 is obtained by running the gephi program on the firm data produced in the first step. Note that the software can be downloaded at the following link <https://gephi.org>.

4) RESTUD_BTBTB_SUPPLEMENTARY_CONSTRUCTIONPATENT

Merges and organizes the patent data. All the data inputs are publicly available. The data inputs consist of:

- NBER patent data: pat76_06_assg.dta and cite76_06 contains information from 1976 to 2006 about patents granted, inventors (typology), and direct citations links. The data can be downloaded at the following link
<https://sites.google.com/site/patentdataproyect/Home>
- IPC-SIC concordance data: IPCSICFINAL.txt constructs a match between the international patent classification US Standard Industrial Classification. The concordance was established by Nate Silverman and can be downloaded at the following link:
http://www-2.rotman.utoronto.ca/~silverman/ipcsic/documentation_IPC-SIC_concordance.htm

5) RESTUD_BTBTB_SUPPLEMENTARY_T4PANELA

The program produces descriptive statistics contained in Panel A of Table 4.

6) RESTUD_BTBTB_SUPPLEMENTARY_T4PANELB

The program produces statistics contained in Panel B of Table 4.