



# Tunisian Statistical Business Register 1994-2014

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-Istanbul, November 2015-



## I. Presentation of TBR

- Legal framework
- Goals
- Sources
- Management
- Content

## II. Quality control and improvement

- Problems of administrative sources
- Quality improvement survey
- Statistical methodology of estimation

## III. Publications

# Legal framework : creation



Pursuant to the 94-780 decree of 4 April 1994:

- The National Business Register (RNE) is created and managed by the National Statistical Institute (INS)
- INS attribute a national identifier for each enterprise or establishment in the RNE
- INS is charged to codify economic activity using the tunisian national activity classification (NAT)



## Sources of update

- Administrative sources : the General Fiscal Direction (DGI), the National Social Security Fund (CNSS) and each public structure having information about firms
- Exchange Agreement : dates, variables, classifications, definitions



1. Database of units
2. Database of statistics
3. Sampling frame

# TBR Goals : Unit database



- Coverage list of enterprises - establishments and update all relative information : activity status, activity, size, address, ...
- Normalisation and harmonisation enterprises information : using national classifications, unique identifier, ...

# TBR Goals : Statistical database



- Publish business statistics : enterprise number, employees, turnover, importation, exportation,...by activity, year, size, ...
- Enterprises demography : entry, exit, stillborn
- Job creation : Gross and net job creation and destruction
- International studies : world bank (Which firms create the most jobs?, up-or-out dynamic ?, creative-destruction process?,...)

# TBR Goals : Sampling frame



THE TBR is the unique business sampling frame :

- ✓ Economic activity national survey (ENAE)
- ✓ Investment survey
- ✓ Small enterprises economic activity survey
- ✓ Employment and wages national survey
- ✓ Trade sector national survey
- ✓ Surveys outside INS: Annual Survey of Competitiveness



# Sources of update



- Administrative sources
  1. Fiscal direction (DGI)
  2. Security and social fund (CNSS)
  3. Customs (douane)
  4. Industrial Promotion agency (API)
- Economic surveys

# Administrative sources characteristics



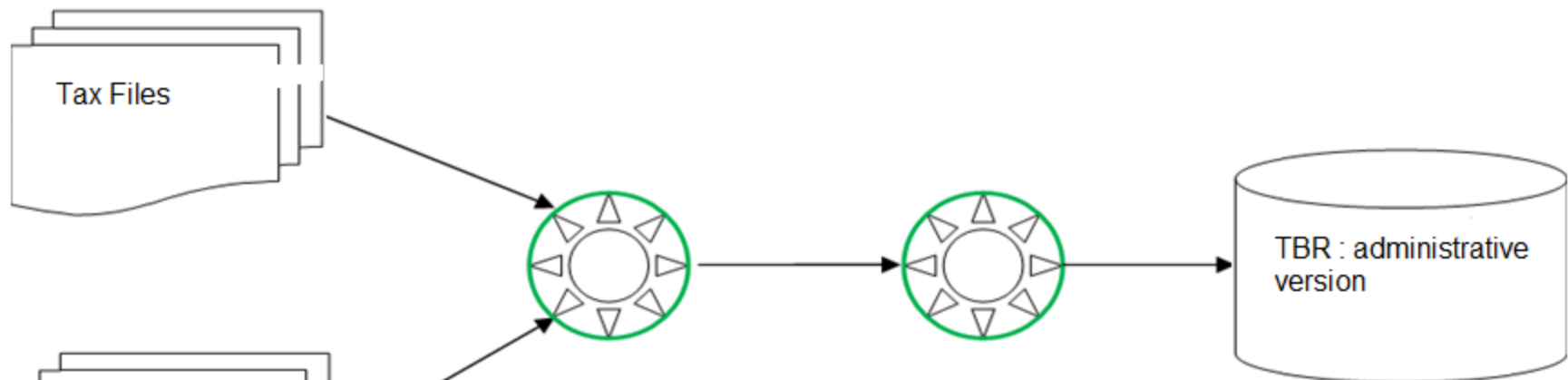
Source	Principal variables	Frequency	Coverage	Enterprise Identifier	Classifications
DGI (legal unit)	Identification, activities, turnover, benefits	quarterly	600 thousand	Fiscal code	Fiscal classifications : address, activity, legal form
CNSS (Employer and independant)	Identification, activity, salaried employee , wages	quarterly	120 thousand	Employer code	CNSS classifications : activity, address
	Identification	quarterly	400 thousand	Independant code	profession
Douane	Identification, imported and exported products	monthly	8000	Customs code	NSH product classification
API (Industrial units)	Identification, activity, size	annual	6000	API code	NAT

# Administrative sources problems



- Absence of unique definition of « enterprise »
- Absence of unique or common enterprise identifier
- Multiple classifications used to code address and economic activity
- Diversity in the way of writing the names of the society and person

# Updating the administrative version



# Unit identifier and matching



## Unit identifier :

- Attributed to each legal unit (active or no)
- sequential random with control key
- No relation with the activity or address or size,...

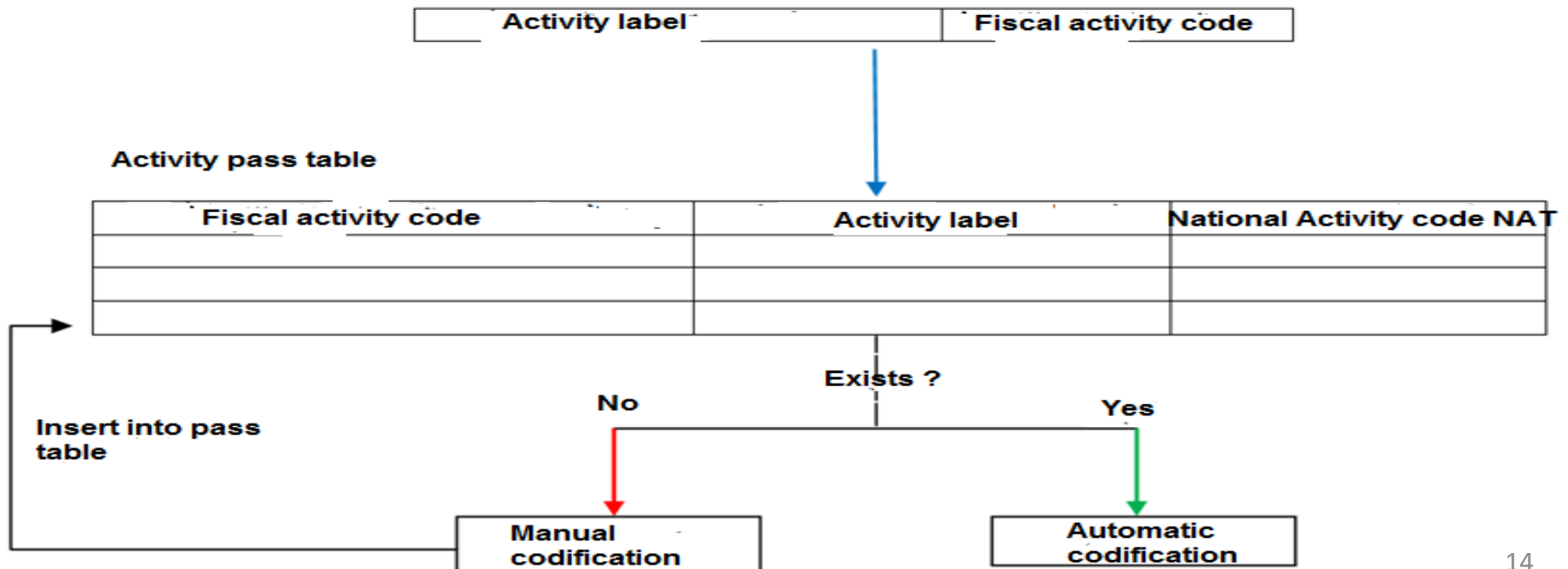
## Matching :

- Search, for each fiscal code, the correspondant code in the other files (cnss code, api code,..)
- Since 2010, the matching process is automates

# Variables codification



- Codification of activity, Gouvernorat, Delegation is based on pass tables
- Activity codification process :





- Units : private sector , associations, public enterprises and administrations
- Private sector:
  - Identification variables
  - Characteristics variables
  - Size variables

# TSBR : principal variables



## Identification

- Enterprise identifiers : INS, DGI, CNSS, douane, Api
- Name, address( ...,tel,email), dates

## Characteristics

- Principal and secondary activity (nat96,nat09), legal form, nationality, fiscal regime (offshore, forfaitaire, reel, ...)
- Etablissement : name, address, activity

## Size

- Employee, wages, turnover, benefits, export, import





# Quality control and improvement

- **Administrative sources problems**
- **Solution 1 : Improvement quality survey**
- **Solution 2 : Statistical methodology**

# Administrative source quality



Variable	Problems
Activity status	False active units (11%) : <ul style="list-style-type: none"><li>• Delay declaration of cessation : 25% of cessations are declared with a delay of 3 years</li></ul>
Address	Address default (8%) <ul style="list-style-type: none"><li>• Declaration , delay of update, ...</li></ul>
Economic activity	Problem of details <ul style="list-style-type: none"><li>• declaration, delay of update, special classifications, ...</li></ul>
Employee number	Only registred employment (70%), not covered all unpaid workers (only the owner)
Turnover	65% of units make declaration (delay and update) (35% missing value)

# BR quality improvement



## Solution 1 : quality survey

- Control and improvement quality survey (2006-2008)

## Solution 2 : developing statistical models using results of economic survey

- Diversify the administrative sources and dissemination the results of economic survey (since 2009)

# Control and improvement quality survey



Adresse inconnue   
  Inconnue à l'adresse   
  Entreprise identifiée

**LOCALISATION**

Localité 1 :

Adresse 1 :

Localité 2 :

Adresse 2 :

Exactitude adresse

Adresse Correcte  
 Adresse corrigée partiellement  
 Adresse changée totalement

Numéro voie :     type voie :   
 Libellé voie :   
 Complément d'adresse :   
 code postal :     Tél :     Fax :   
 E-Mail :

**ACTIVITE**

Activité principale :

Indiquer l'activité principale exercée :

Veuillez indiquer les deux activités secondaires par ordre d'importance :

Pour l'activité principale exercée, indiquer avec précision ( maximum de détails ) les principaux produits fabriqués ou transformés ainsi que les services rendus par ordre d'importance :

**STRUCTURE DE L'ENTREPRISE :**

Etes vous membre d'un groupe :    
 Nom du groupe :

Avez-vous des Etablissements :      Nombre d'établissements :

Adresses des établissements :

Rang	Num. Voie	Type Voie	Libellé Voie	Complément Adresse	Délégation
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

# Quality survey evaluation



## Costs :

- Preparation of questionnaire, technical study, survey manuel, storage application, ...
- 15 thousand entreprises : 150 thousand dollars
- Identification and response problems

## Recourse to the second solution

- Diversify the administrative sources
- Develop a methodology for the dissemination of the results of economic surveys

# imporvement quality statistical models



Variable	DGI	CNSS	API	Douane	Economic Surveys	Statistical model
Activity status	X	X	X	X	X	<b>Probabilistic model</b> ( logistic regression, signal of activity)
Address	X	X	X	X	X	<b>Deterministic model</b> (a prior quality of source)
Economic activity	X	X	X	X	X	<b>Deterministic model</b> (frequency on sources)
size	X	X		X	X	<b>Probabilistic model</b> (robust regression)



# Publications

# Annual publication



الجمهورية التونسية  
Ministère du Développement  
Économique et de la Promotion  
Industrielle et de la Technologie  
إحصاءات تونس  
STATISTIQUES TUNISIE



إحصاءات تونس  
STATISTIQUES TUNISIE



إحصاءات تونس  
STATISTIQUES TUNISIE

## Statistiques issues du Répertoire National des Entreprises

Nombre et démographie  
des entreprises  
du secteur privé

Octobre 2011

## STATISTIQUES ISSUES DU RÉPERTOIRE NATIONAL DES ENTREPRISES

Dynamique des entreprises du secteur privé  
durant la période de 1996 à 2011

Octobre 2012

2

## STATISTIQUES ISSUES DU RÉPERTOIRE NATIONAL DES ENTREPRISES

Edition 2013

3



إحصاءات تونس  
STATISTIQUES TUNISIE

## STATISTIQUES ISSUES DU REPERTOIRE NATIONAL DES ENTREPRISES

Edition 2014

4



# Web site : [www.ins.tn](http://www.ins.tn) (statistiques des entreprises)



ACTUALITES

STATISTIQUES

PUBLICATIONS

RECENSEMENT

METHODOLOGIES

Rechercher

ok

## ■ Répertoire National des Entreprises

- Présentation du RNE
- Analyse de la qualité du RNE
- Définitions et Concepts

## ■ Evolution du nombre des entreprises privées

- ... selon l'activité principale
- ... selon la tranche de salariés
- ... selon la forme juridique
- ... selon le gouvernorat
- ... selon la délégation
- ... selon le régime
- ... selon la nationalité de l'entreprise

## ■ Evolution de l'emploi salarié formel du secteur privé

- ... selon l'activité principale
- ... selon la tranche de salariés
- ... selon la forme juridique
- ... selon le régime
- ... selon la nationalité

## ■ Statistiques détaillées par année

- Entreprises (2009-2012)
- Salariés (2009-2012)

## ■ Démographie des Entreprises

- Entrées des entreprises
- Sorties des entreprises

## Répertoire National des Entreprises

### ► Nombre des entreprises privées selon:

- Activité principale , Tranche de salariés
- Activité principale , Région
- Activité principale , Gouvernorat
- Forme juridique , Tranche de salariés
- Gouvernorat , Tranche de salariés
- Activité principale , Forme juridique
- Activité principale , Nationalité de l'entreprise
- Tranche de salariés , Régime
- Tranche de salariés , Nationalité de l'entreprise
- Gouvernorat , Nationalité de l'entreprise
- Régime , Nationalité de l'entreprise

Date de mise à jour : 01-07-2014

# Publication in www.ins.tn



المعهد > ركن الصحافة > التعداد > منهجيات > نشریات > إحصائيات > مستجدات > ↑

الرئيسية > الإحصاءات > الإحصاءات حسب الموضوع > المؤسسات

منهجيات

نشریات

مستجدات

بيانات

⊕ الأجراء

⊖ تطور عدد المؤسسات

تطور عدد المؤسسات الخاصة حسب قطاع النشاط

تطور المؤسسات الخاصة حسب حجم المؤسسة

تطور المؤسسات الخاصة حسب الصيغة الجبائية

تطور المؤسسات حسب الجنسية

تطور المؤسسات حسب نظام الإنتاج

تطور عدد المؤسسات حسب الولاية

مؤشرات رئيسية

إحصائيات حسب المحور

إحصائيات حسب الأبجدية

البيانات التفصيلية

إختار المحور

المؤسسات



⊕ ديموغرافيا المؤسسات



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## Voices and Views: Middle East and North Africa

This page in [English](#) | [Français](#)

### This Blog

Voices and Views invites you to a conversation on the important and timely issues facing the Middle East and North Africa region during this period of profound change.

## Job creation: a big role for big firms

SUBMITTED BY **BOB RUKERS** ON FEBRUARY 5, 2012

*This blog is co-authored by: Bob Rijkers at the World Bank and Hassen Aroui at the Institut National de Statistique. Additional contributors include, Caroline Freund and Antonio Nucifora.*

SME promotion programs are becoming progressively more popular. While evidence on their effectiveness remains elusive, their policy prominence is predicated on the belief that small firms grow faster and generate the most jobs. Our preliminary analysis of the Tunisian registry of firms, which contains longitudinal information on all formal firms from 1996 until 2010.

#### Most Popular

- ▶ Can a game teach us how to better invest in the poor in Jordan?
- ▶ A silent data revolution in the Arab World
- ▶ Arab World ailments ill-served
- ▶ A Georgian Idol for the Middle East and North



## STAGNATION STRUCTURELLE

Données au niveau des entreprises sur la Création d'emplois en Tunisie

## STRUCTURAL STAGNATION

Firm-level Evidence on Job Creation in Tunisia

### ركود هيكلية

قراءة في دور المؤسسات في إحداثيات الشغل بتونس

# Futur developement



- Complete établissement information : size
  - Administrative sources : salaried employee files (address)
  - Special survey : activity of établissement and number of employee)
- Integration of enterprises accounts declared in DGI
  - Coverage : all « reel » regime units
  - First Enterprises Accounts Register 2013 – 2014 covering 150 accounts

# TBR : Lessons



- Before 1992 : economic census (cost, delay, update, response, demography)
- 1992 : beginning of discussion : constitution of BR based on administrative sources
- 1994 : legal framework: INS, DGI and CNSS
- 1996 : First BR : RNE 1996 (manual matching and codification)
- 2008 : quality improvement survey
- 2010 : intégration of APII and Douane sources, statistical methodology, automatic matching
- After 2010 : RNE (1996-2013) : database of sampling & estimation survey, economic studies and statistics



**Business Register** : An enterprises list (all, most important units : +90%GDP) containing at least : name, adress, economic activity, size (emploi, production)

To establish a BR based on administratives sources:

- Make a census of administrations files (fisc, social fund, customs, promotion agency,...)
- Study of unit coverage, contents, définitions, classifications, updates, ...
- Develop a methodology of integration (matching, codification,...)
- Establish a legal framework : using administrative sources for statistical purposes



Thank you !



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