



Guidelines on Statistical Business Registers

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Overview

- Aim & Structure of the Guidelines
- Roles of the SBR
- Data Sources
- Endorsement by the Conference of European Statisticians
- Topics for further work and research
- UNSD projects and initiatives

Aim of the Guidelines

- Provide practical guidance on core issues of establishing and maintaining the SBR.
- Clarify concepts and definitions, including for statistical units.
- Advise on use of administrative sources for SBR
- Use the SBR in its own right for production of business statistics
- Use the SBR combined with other statistical registers, administrative sources or surveys to produce new statistics.
- Clarify the role of SBRs in the modernisation of statistical production and services

Structure of the Guidelines

- Chapter 1 Introduction
- Chapter 2 Roles of SBR
- Chapter 3 Coverage of SBR
- Chapter 4 Units in the SBR
- Chapter 5 Characteristics of Units
- Chapter 6 Data Sources of the SBR**
- Chapter 7 Maintenance of the SBR**
- Chapter 8 Survey Frame Methodology**
- Chapter 9 Dissemination
- Chapter 10 Quality
- Chapter 11 Key Consideration in Establishing an SBR
- Chapter 12 Topics for Further Work and Research**



Structure of the Guidelines

Annex A Characteristics of Units by Unit Type

Annex B International Classifications

Annex C Examples of Statistical Business Registers

Annex D Examples Relating to SBR Quality Assurance

Annex E Additional Concepts and Procedures

	Role	Goal
1	SBR Live Register	The gateway between (different) source(s) and the statistical units
2	SBR Backbone	Coordinate populations of statistical and administrative units in space & time through register snapshots and frozen frames
3	SBR Survey Frame	Provide set of administrative units valid for the reference period with all attributes to draw a sample
4	SBR Survey support	Control administrative burden and monitor survey response
5	SBR based statistics	Business demography statistics, business dynamics based on register snapshots, and integration with external trade register
6	SBR Information Source	Support market investigation performance
7	SBR International data exchange	Coherence in global statistics

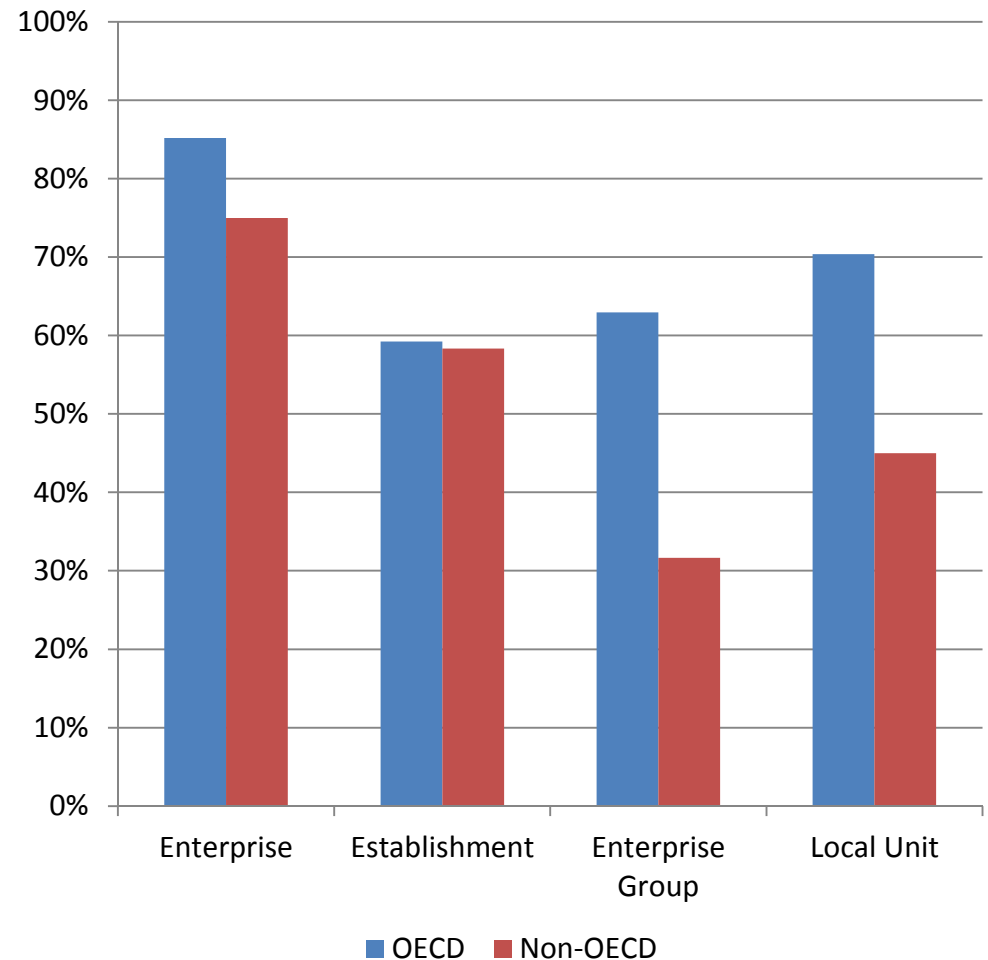
The main statistical units used internationally are:

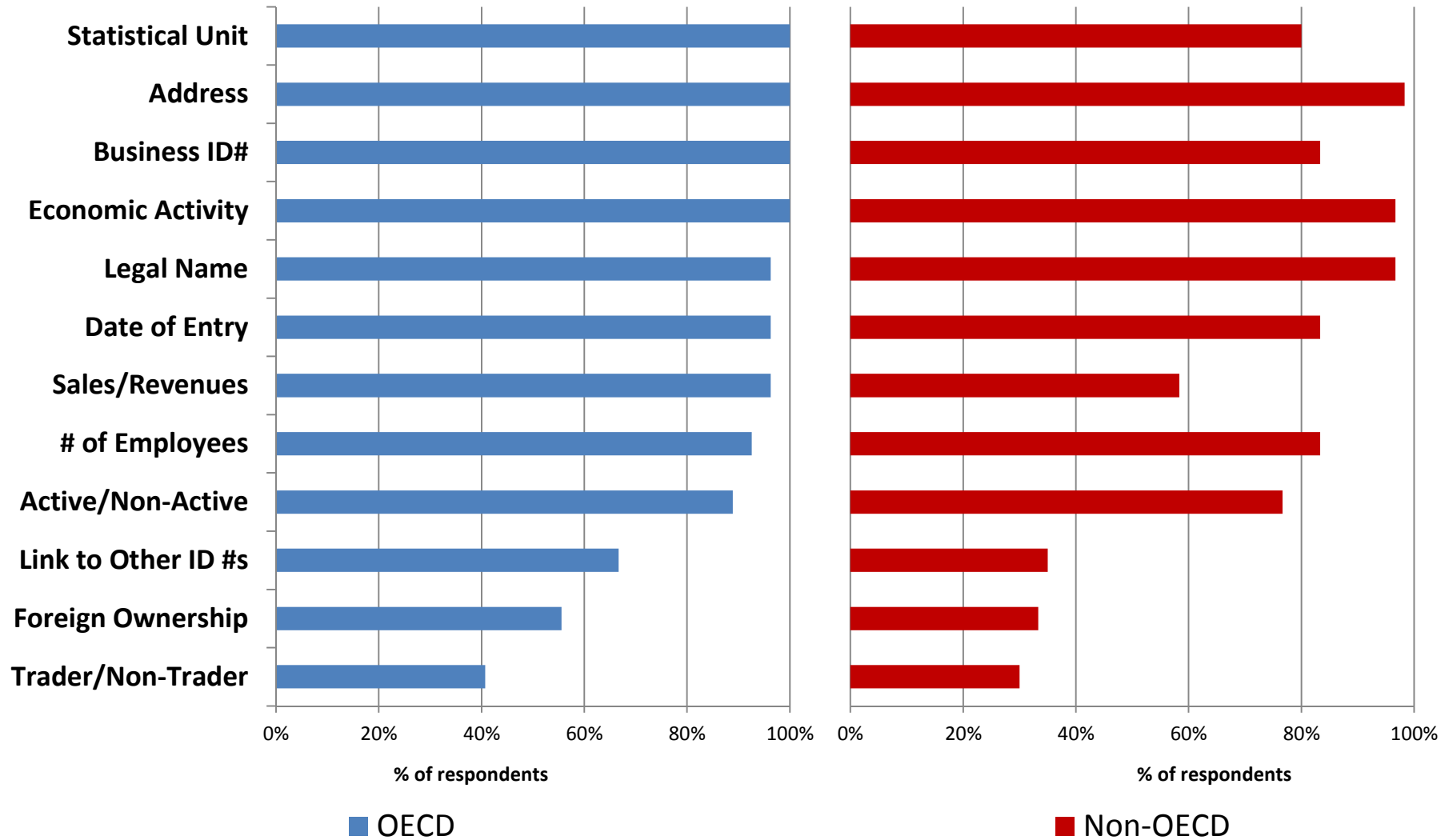
- **Enterprise group**
 - **Enterprise**
 - **Establishment, also called local kind-of-activity unit (LKAU)**
 - **Kind-of-activity unit (KAU)**
 - **Local unit**
- For each of these types of units, a set of characteristics is held in the SBR, such as economic activity code, size code, geographic location, date of entry, foreign ownership, and trader or non-trader
 - Guidelines recommend that four units – **enterprise group, enterprise, local unit and legal unit** – be maintained in SBRs

UNSD administered a global
**Survey on national practices
of linking trade statistics
and business registers** in
summer of 2015

94 economies responded
28 OECD and 66 non-OECD

Statistical unit(s) used in SBR







Data sources for SBR



The Guidelines recommend that SBRs be created and maintained *primarily* using Administrative Sources due to their high **coverage** and relatively **low cost and low response burden**.

- ❑ **Business registration/license registers**
- ❑ **Tax registers**
- ❑ **Company/trade associations and chambers of commerce registers**
- ❑ **Social security registers**
- ❑ **Industry association registers**
- ❑ **Central bank**
- ❑ **Agricultural administrative registers**
- ❑ **Water supply and electric association registers**

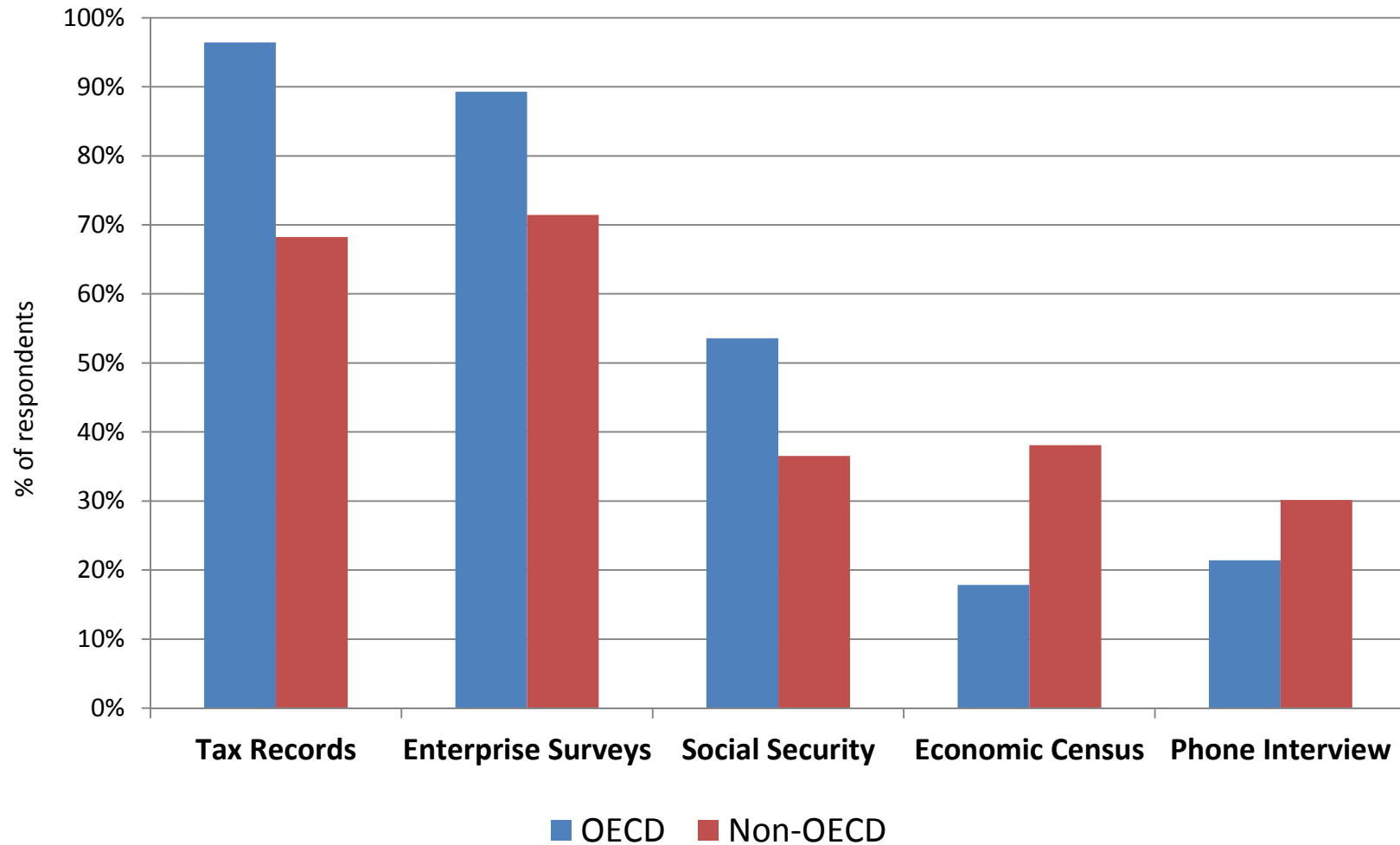
In practice, it is recommended to use a **combination of administrative and Statistical Sources**, which can offer additional or more detailed characteristics, or can be used to estimate characteristics missing from administrative sources.

- **Feedback from enterprise and establishment surveys** – useful for updating the SBR as it provides information on changes in contact address, changes in the economic stratification characteristics, deaths, etc.
- **SBR improvement surveys** – it is unlikely that all units in the SBR can be maintained equally. It is usually necessary to focus improvement surveys on specific strata to measure and improve coverage and quality.
- **Profiling** – using company accounts, often accompanied by interviews with senior enterprise officials, to build and define the structure of enterprises, mainly those involved in large complex enterprise groups

Other data sources for updating the SBR:

- ❖ **Telephone directories** – useful in adding or confirming SBR data
- ❖ **Payroll, taxation and accounting service providers**
- ❖ **Internet search** – information on the economic activity, on the production profile, on up-to-date addresses, etc.,
- ❖ **Commercial data providers**
- ❖ **Big Data** – so far no practical experience in their use in the SBR, but many possibilities

Data sources for SBR



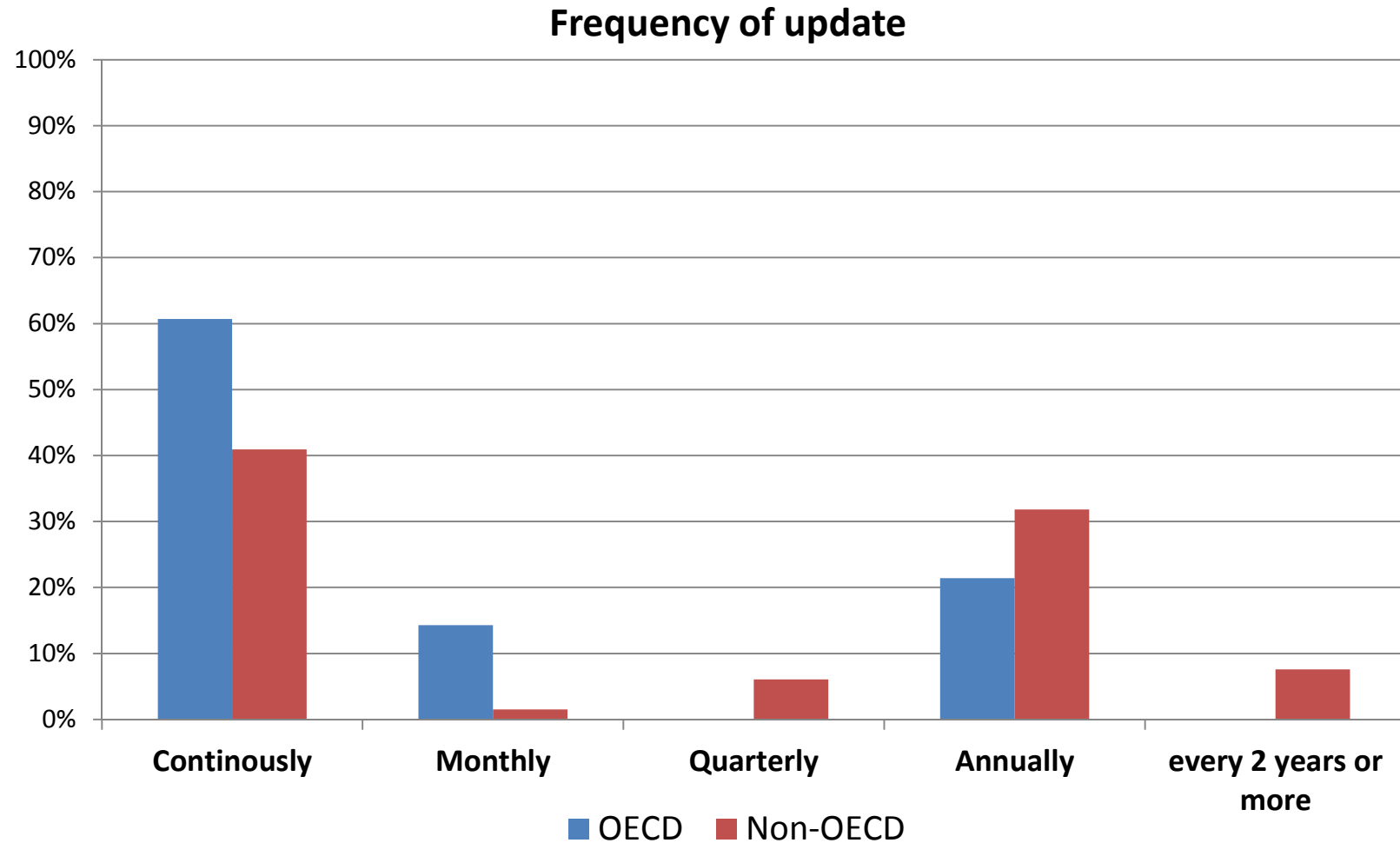
Maintenance of the SBR

- Identify new statistical units without overcoverage, under-coverage, or duplication
- Identify values of the characteristics of existing statistical units
- Identify dates of changes

Taking into account the statistical unit's size and potential impact on published statistics, its propensity to change, and available sources. And:

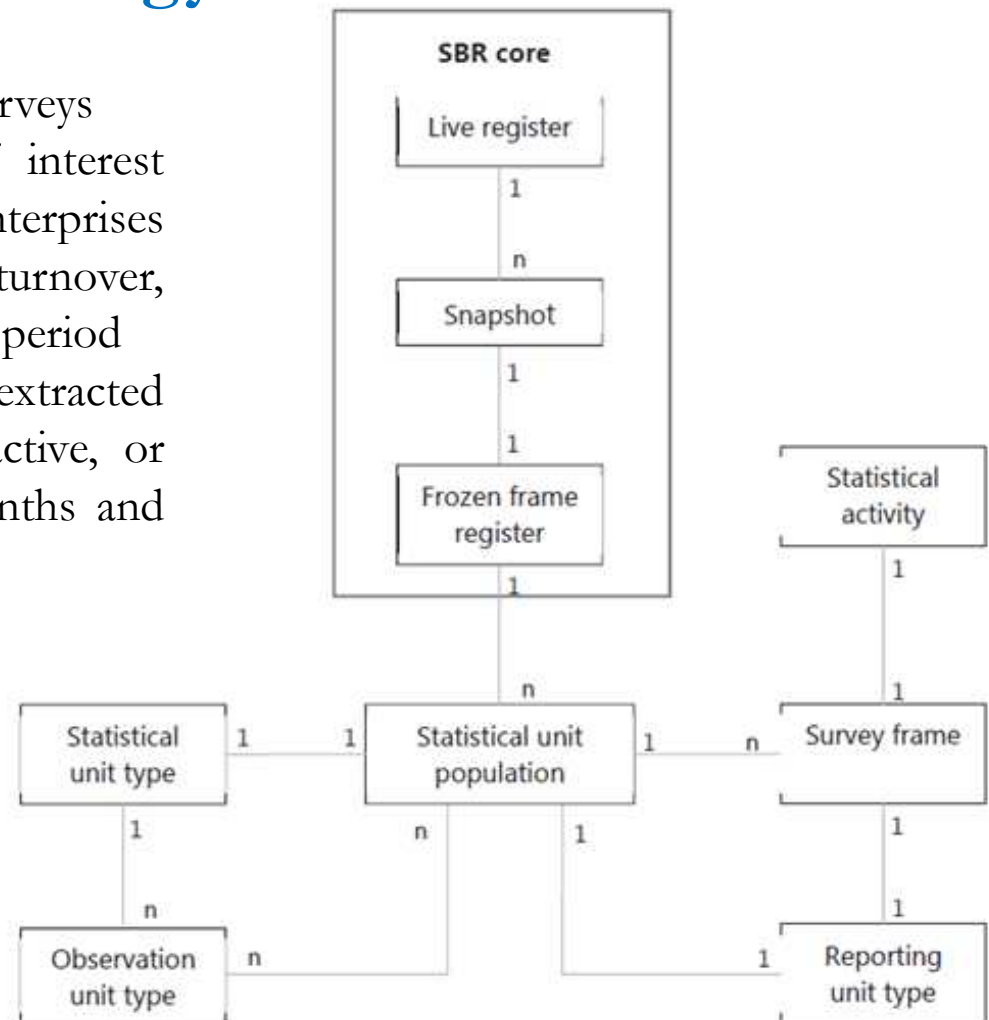
- ❖ Continuity rules: whether a statistical unit has continued despite significant changes (e.g., of ownership, size, economic activity and/or location), or has died and been replaced by another unit
- ❖ Stability rules: weigh speed of incorporating changes with stability

Maintenance of the SBR



Survey design frame methodology

- The live SBR is backbone for economic surveys
- First identify the survey's population of interest (e.g. manufacturing establishments, or enterprises with employees), a set of variables (e.g. turnover, employment, value added) and a reference period
- Snapshots of the live register are extracted containing all statistical units that are active, or have been active, within the past 12 months and their characteristics
- A survey frame is typically selected from a single frame population and consists of one type of statistical unit, e.g. enterprises for a financial survey or establishments for a production survey



Endorsement of Guidelines by the Conference of European Statisticians, Geneva, 15-17 June 2015

- ❖ The Guidelines were found comprehensive and helpful in supporting countries to maintain and improve SBRs;
- ❖ The Guidelines will be important for other regions; to be presented in Latin America in December; possibly translated into Spanish.
- ❖ Future work includes elaborating best practices for coordination with other organizations that provide data for business registers, such as Central Banks

Topics for Further Work and Research

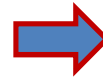
- **Statistical Units and Profiling:** best practices in profiling large and complex enterprises
- **SBR as a backbone of Integrated Economic Statistics:** multi-source datasets, single frame, harmonization of classifications
- **International Trade and Economic Globalisation:** micro-data linking, new global production arrangements (e.g. factoryless goods producers), supra-national SBR
- **Business statistics:** Linking, Business Demography, geo-coding of the SBR
- **Database software for SBR**
- **International Comparability**

UNSD – Costa Rica INEC Project: Linking trade statistics to SBR

Policy questions:

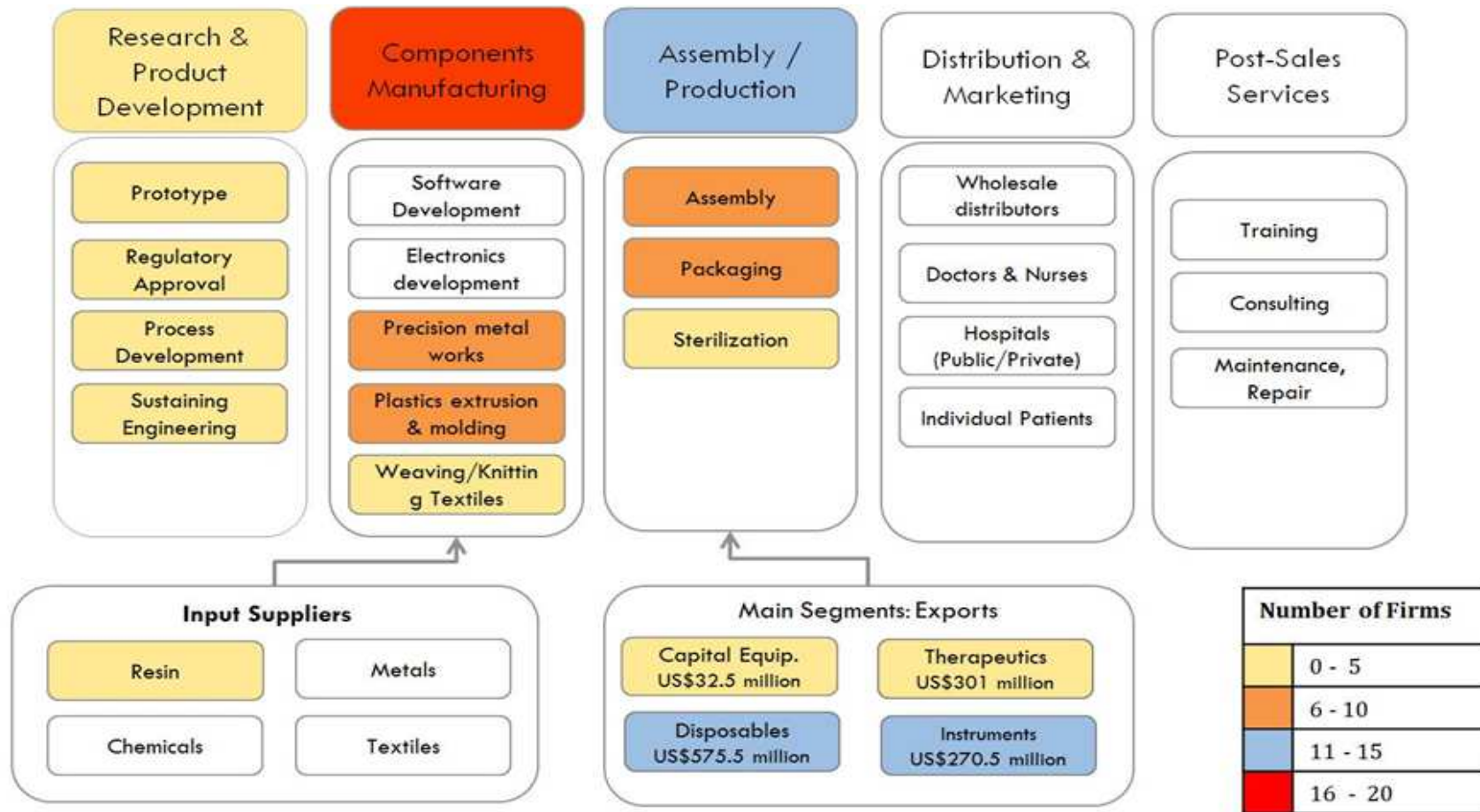
- Understand the role Costa Rica currently plays in three high priority GVCs;
- Identify potential upgrading trajectories for Costa Rica to increase the value of its participation in these GVCs; and
- Based on these outcomes, identify the set of public policies that should be implemented to consolidate, increase and strengthen Costa Rica's integration in industrial GVCs

Building on previous research



- Costa Rica: Trade Opening, FDI Attraction and Global Production Sharing (Monge, Jan 2011)
- Costa Rica's Global Value Chains in the Global Economy (Duke University, Jan 2012)
- Latin America's Prospects for Upgrading in Global Value Chains (Mexico, Mar 2012)

Costa Rica's position in the Medical Devices Global Value Chain



Local firms are mainly in packaging & support services (12 of 19) versus 4 in limited role in plastics molding & metal finishing

Results of second linking exercise (June – December 2012)

	Not linked	Linked	Total
Number of records	20,934	355,960	376,894
	5.6%	94.4%	100.0%
Value in '000 USD	130,354	3,248,470	3,378,824
	3.9%	96.1%	100.0%
Number of enterprises	n.a.	1,903	n.a.
Number of legal units	764	1,958	2,722
Number of establishments	n.a.	n.a.	n.a.

Main activity	All Business Register		Exporting enterprise		
	No. of firms	No. of employees	No. of firms	No. of employees	Value of exports (US\$)
A Agriculture, forestry and fishing	3,791	87,982	294	40,283	216,690,448
01 Crop and animal production	3,608	85,069	279	38,698	210,146,426
02 Forestry and logging	132	1,567	8	688	5,289,339
C Manufacturing	4,257	144,706	598	106,429	2,554,099,671
10 Manufacture of food products	1,078	48,328	137	34,661	447,071,957
14 Manufacture of wearing apparel	559	7,949	25	5,022	42,878,988
25 Manufacture of fabricated metal products	441	6,043	39	2,497	42,358,757
26 Manufacture of computer, electronics	40	6,531	21	6,369	787,049,178
27 Manufacture of electrical equipment	37	4,477	20	4,204	143,662,034
Wholesale and retail trade; G+H Transport, warehousing, and support activities	18,668	201,935	739	55,190	387,741,850
46 Wholesale trade, except motor vehicles	2,471	58,966	591	30,086	349,309,112
47 Retail trade, except of motor vehicles	11,663	88,411	60	17,370	25,826,992
Other activities	19,277	318,907	186	33,792	63,137,508
Hotel and Restaurants	4,892				
Professional and scientific services	2,472				
Social and Health services	1,871				
Unkown activity	2,988	15,771	71	864	24,375,886
Non-matches					131,689,763
TOTAL	48,981	769,301	1,894	236,794	3,378,826,643

ADB initiative on SBR for improved information on SMEs

- A 2009 regional survey: only 29 out of 45 ADB developing member countries had functioning SBRs
- With contributions from UNSD, ADB has launched a multi-year (2014-2017) technical assistance project with:
 - ❖ Bhutan, Cambodia, Lao PDR, Malaysia, Sri Lanka
- **National strategic development plans** developed to modernize and improve SBRs to improve the overall business environment and facilitate private sector development
- **Training programmes** and study visits designed and organized
- Strategies for continuing maintenance and improvement of SBRs
- UNSD providing capacity building in **linking the SBRs to trade statistics**

Training on Linking the Malaysian SBR with Trade Statistics

- 17-23 September 2015, Putrajaya, Malaysia
- Training in collaboration with the Department of Statistics, Malaysia (DOSM) and UNSD on the concepts and methods for linking SBR and Trade statistics and corresponding IT tool requirements
- Presenting the type of data analysis that can be derived from linking the two datasets