

DECOMPOSING GROSS FIXED CAPITAL FORMATION BY ECONOMIC ACTIVITY FOR COSTA RICA 2012-2013¹.

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The ideas expressed in this document are those of the authors and do not necessarily represent views of the Central Bank of Costa Rica.

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ABSTRACT

This paper presents a methodology to calculate Gross Fixed Capital Formation (GFCF) by Economic Activity (EA) for the Costa Rican economy. Recently, the Central Bank of Costa Rica has been working on the update of national accounts and has implemented several methodological changes to obtain more accurate statistics.

As an additional product of the rebase of national accounts project, the Central Bank has been working on introducing the GFCF matrix compilation in order to provide a high-quality disaggregation by type of asset and economic activity.

The GFCF matrix was calculated for 2012 and 2013 using three different estimation methods.

Keywords: RAS Methodology, Gross Fixed Capital Formation, National Accounts, Economic Activities.

1. Overview.

The recent publication of the Rebase Year of the Costa Rican National Accounts has been a transcendental improvement in the national statistics system, not only because of the actualization itself, but also for the variety of additional methodological innovations that have emerged in the development of the project.

Several new contributions have been published along with the new national accounts; Costa Rica import matrices compilation: proportionality assumption and tracking imported inputs (Saborio and Ramirez; 2016); Input-Output tables by product and by economic activity; and a new disaggregation of the Supply and Use Tables by trade regime (Saborio 2016); just to mention a few examples.

This present paper introduces a new estimation of the gross fixed capital formation matrix by economic activity, which was developed as an additional product of the rebase year project and the update of the Costa Rican national accounts.

The article is ordered as follows: the first part details the main sources of information, the second part explains the three methods used to approach the Gross Fixed Capital Formation (GFCF) Matrix²: i) by the sum of the GFCF matrix of each institutional sector, ii) by the sum of GFCF matrices of imported and national fixed capital formation products and iii) as a combination of both previous methods.

Then, the main results are presented and analyzed and finally some conclusions and recommendations are suggested.

² The GFCF Matrix in this article presents the assets in the rows and the economic activities in the columns.

2. Sources of data

- **International trade registers (ITR):** The customs office (Dirección General de Aduanas) provide a dataset for exports and imports comprising tariff heading country of departure, importer's ID, insurance, freight, among others. The Department of Macroeconomic Statistics matches ITR and "Business Registry" REVEC³ according with the ID of the importer, so it is possible to know which company is importing the product and its related data (ISIC, Standard Classification of Economic Activities for Costa Rica, Standard Classification of Products for Costa Rica, sales, number of employees, turnover, codes of harmonized system, CPC ver. 2, etc.).
- **Ministry of Finance special report, Model-D151: Annual Statement of summary of customers, suppliers and specific expenses:** All companies must submit this declaration to the Ministry of Finance each year. This is a very detailed administrative record that shows whom-to-whom transactions in an annual basis. Each company declares its sales and purchases by counterpart for amounts higher than the equivalent of 5.000 US dollars in a fiscal year. The firm making the declaration is called "Reporter". Each reporter must record the value and the company ID ("reported") involved in the specific sale or purchase. This database also is matched with the REVEC, so it is possible to classify wholesaler's sales by economic activity.
- **Corporate Economic Study:** In the rebase of the national accounts a survey to non-agricultural business has been developed and it is the main source of information for the non-financial sector. The survey comprised more than 2.000 enterprises from the manufacturing, wholesale and retail; and services industries.

³ The original name of the Business Registry is REVEC: Registro de Variables Económicas.

- **Case studies:** For agricultural activities, the information was obtained from interviews and compilation of data in rural areas. Administrative registries, when available, were also used in the compilations of the accounts for this industries.
- **Import Matrix:** The Import Matrix provides a high quality disaggregation for the use of the imported inputs by product and economic activity (Saborio and Ramirez, 2015). This matrix is part of the products derived from the Rebase of National Accounts Project.
- **National Producer Household Survey:** The information of households participating in economic activities was captured by a particular survey and some case studies mentioned above. Only in few cases it was possible to get data of fixed capital formation for producer households, nevertheless, the information obtained in these studies is taken as a reference in the estimations.
- **Administrative records and balance sheets:** This information is available for General Government and Non-Financial Public Institutions referred mainly to financial statements and budget executions of the public sector. Also information from General Comptroller's Office of the Republic, General Superintendence of Financial Entities and Ministry of Finance, was used to calculate the accounts for its respective institutional sectors. In the case of financial corporations, the main information comes from the financial statements of public and private institutions.

3. Gross Fixed Capital Formation Matrix Compilation in the rebase year (2012).

The GFCF Matrix was built from two different approaches: The first by the sum of GFCF matrices for each institutional sector. Those matrices were estimated from

the capital account of the integrated economic accounts and separated by economic activity with different methods given the availability of information in each case. Theoretically, the sum of these matrices should be equal to the GFCF matrix for the economy.

The second approach is by the estimation of a GFCF Matrix for the imported products by economic activity from the Import Matrix⁴, converting basic prices into purchasers' prices by using the data of the Matrix of Margins⁵ (Saborio and Aguero, 2016) for the base year. A GFCF Matrix for products locally produced at purchasers' prices must be estimated and the compilation of both matrices should be consistent with the GFCF vector by product for the total economy.

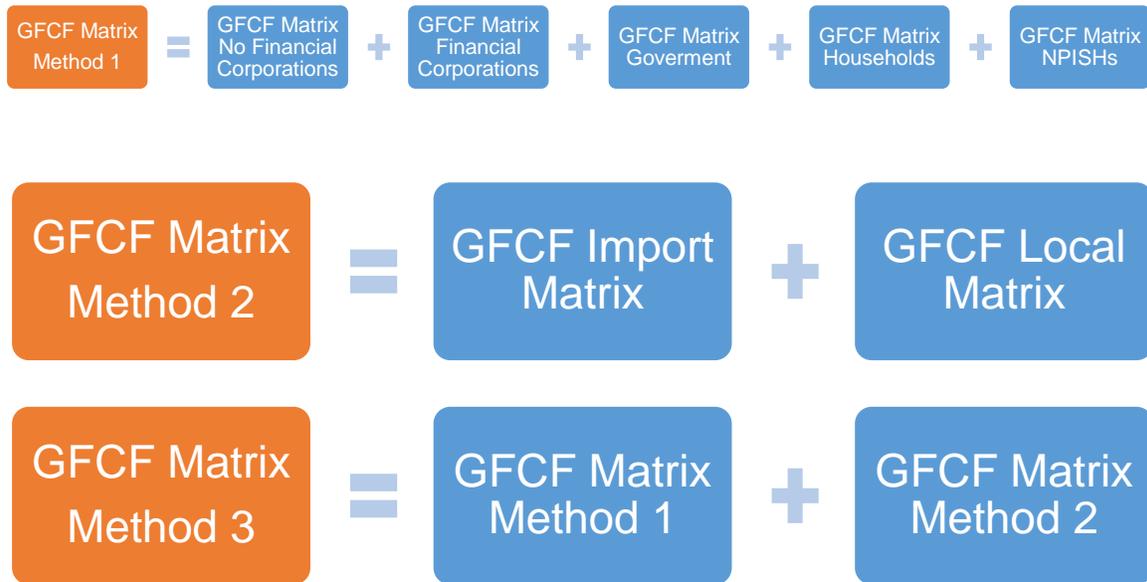
The diagram 1 explains the two approaches used in the estimation of the GFCF matrix. The first method can be summarized as the sum of the GFCF matrix by institutional sector at purchasers' prices. Theoretically, if the information is complete for each sector, the sum would present a sufficient approximation of the GFCF for the economy. In this approach the main limitation is the availability of information⁶, especially for the non-agricultural activities in Households and Non-Financial corporations sector.

⁴ The methodological aspects of the Import Matrix for Costa Rican economy is available in Saborio, G. and Ramirez, F. (2015). **Costa Rica Import Matrices Compilation: Proportionality Assumption and Tracking Imported Inputs**. Rebase of National Accounts Project, Macroeconomic Statistics Department. Central Bank of Costa Rica.

⁵ Due to the Import Matrix is at CIF values, the information has to be converted to purchaser prices by adding the margins and taxes by product.

⁶ For several industries, the detail of the capital account is not available or insufficient by product.

Diagram 1. Estimation Methods of the GFCF Matrix for Costa Rica



The second method uses the information available in the Import Matrix by product. This information also can be disaggregated by economic activity, from which a GFCF matrix for import products can be developed. For the local products of GFCF, a similar approach is used in addition to other information sources.

This matrix has plenty information about machinery and equipment assets. Nevertheless, the main limitation in this case is that there is not enough information for some kinds of products such as buildings and other constructions, biological resources and intangible assets such as intellectual property products.

A third method integrates the results obtained in the first two estimations, since second method provides more consistent results for the machinery and equipment

assets⁷. On the other hand, the information of the rest of tangible and intangible assets are more accurate in the first method.

a. GFCF Compilation by institutional sector (M1)

The first step is to calculate a matrix for each institutional sector. The methodology is not the same in all cases due to the availability of information; in some cases it was necessary to complete the information by statistical methods, such as the RAS method which is explained Annex A.

i. Non-Financial Corporations

The Non-Financial Corporations include public and private non-financial companies. Private corporations can be separated in two groups: The “Largest Companies” that are businesses with a considerable weight in terms of production and employment in the economy; and the small and medium size enterprises (SME’s).

In the case of the SME’s agriculture and construction activities are include but the information for gross capital formation was not available. For this particular case, the RAS methodology is applied with exogenous information from case studies.

⁷ In the case of Costa Rican Economy, 95% of its assets in GFCF of machinery and equipment are imported and registered in customs. For these assets the Import Database is more robust than the information that can be obtained in the Corporate Economic Study that also excludes the agricultural and construction activities.

ii. Public non-financial Corporations

The GFCF matrix for public non-financial corporations was built with the financial statements of a group of government companies; the capital account of this sector was disaggregated into the following activities:

- ✓ EA049: Distillation, rectification and blending of alcoholic beverages and wines
- ✓ EA058: Activities of printing, editing and reproduction of video recordings, except computing programs.
- ✓ EA083: Supply of electricity, gas, steam and air conditioning.
- ✓ EA084: Supply of potable water and removal of residual waters.
- ✓ EA085: Waste management and decontamination.
- ✓ EA088: Construction of public service works and other civil engineering works.
- ✓ EA090: Trade.
- ✓ EA097: Transportation-related services activities.
- ✓ EA099: Postal and courier activities.
- ✓ EA103: Telecommunications activities.
- ✓ EA118: Activities related to renting and leasing of tangible and intangible non-financial assets.
- ✓ EA123: Administrative and office support activities, and other business support activities.
- ✓ EA128: Activities related to human health care and social assistance.
- ✓ EA129: Artistic, entertainment and recreational activities.

iii. Private non-financial corporations

The estimation for this sector in 2012 includes the data available for non-agricultural industries (except construction) that were collected from the *Corporate*

Economic Study developed for the rebase year project. To complete the matrix to all the economic activities, information from case studies was used mainly in agricultural activities to define the composition of the tangible and intangible assets⁸.

iv. Households

The information used for the Household sector was taken from several cases of small companies selected from the Corporate Economic Study for non-agricultural industries and the data of case studies for agricultural activities. A GFCF Matrix at purchasers' prices was built for the base year (2012) and for 2013. The complete list of economic activities included in the matrices is presented in the Annex B1.

v. Financial Corporations

For the financial corporations, there is plenty of information available. Thus, the institutional sector matrix was built directly from the full sequence of accounts. In this case, the economic activities included are:

- ✓ EA105: Monetary intermediation activities.
- ✓ EA106: Activities of holding companies, investment funds and corporations, and other financial services activities.
- ✓ EA107: Insurance, reinsurance and pension fund activities, except for compulsory social security schemes.
- ✓ EA108: Auxiliary activities of financial, insurance and pension funds services
- ✓ EA130: Activities of associations.

⁸ For 2013, there is no available information for the agricultural activities from study cases to estimate the composition of the gross capital formation. RAS methodology was applied to calculate a matrix of GFCF for the all activities in this subsector using the information obtained for 2012 and estimations of the total amount of GFCF for industry and by asset.

vi. General Government sector

Similarly to the financial corporations, GFCF matrix was built from the available information of the national accounts sequence. The capital account was disaggregated by economic activity:

- ✓ EA084: Supply of potable water and removal of residual waters.
- ✓ EA085: Waste management and decontamination.
- ✓ EA089: Specialized construction activities.
- ✓ EA092: Rail Transport.
- ✓ EA124: Public administration, implementation of community economic and social policies.
- ✓ EA125: Provision of services to the community in general.
- ✓ EA126: Activities related to compulsory social security schemes.
- ✓ EA086OU⁹: Construction of buildings (Own use)
- ✓ EA087OU: Construction of roads and railways (Own use)
- ✓ EA088OU: Construction of public service works and other civil engineering works (Own use)

vii. Non-profit institutions serving household's sector

The GFCF matrix for this sector was built for the economic activity 130 (EA130) Activities of associations; which includes various types of organizations, non-governmental institutions and political associations. The information to estimate this matrix was obtained from the Corporate Economic Study.

⁹ The economic activities are also classified by final destination of the production. The System of National Accounts 2008 (SCN-2008) recognizes three types of production: market production, own use production (OU) and nonmarket production.

viii. *Compilation of the matrices and GFCF matrix for the economy*

When the GFCF matrices for all the institutional sectors are calculated, the sum of all is equal to a GFCF matrix by economic activity at purchasers' prices consistent with the gross fixed capital formation vector estimated in the integrated economic accounts:

$$GFCF = \sum_{j=1}^n IS_j \quad (1)$$

Where:

GFCF: Gross Capital Fixed Formation Matrix at purchasers' prices.

IS: Institutional Sector "j" Gross Fixed Capital Formation Matrix at purchasers' prices. The dimensions of this matrices are the number of fixed assets in the rows and the number of economic activities included in the columns.

b. GFCF Compilation by institutional sector (M2)

In Costa Rica's case, most gross capital formation is given by imported goods (95%)¹⁰. Hence, it is possible to estimate the GFCF Matrix as the composition of two matrices: The GFCF Import Matrix, and GFCF Local Matrix, both at basic prices:

$$\begin{pmatrix} Ktot_{11} & \dots & Ktot_{1j} \\ \dots & \ddots & \dots \\ Ktot_{i1} & \dots & Ktot_{ij} \end{pmatrix} = \begin{pmatrix} Kimp_{11} & \dots & Kimp_{1j} \\ \dots & \ddots & \dots \\ Kimp_{i1} & \dots & Kimp_{ij} \end{pmatrix} + \begin{pmatrix} Kloc_{11} & \dots & Kloc_{1j} \\ \dots & \ddots & \dots \\ Kloc_{i1} & \dots & Kloc_{ij} \end{pmatrix} \quad (2)$$

¹⁰ Particularly in the assets of machinery and equipment.

Where:

Ktot: Gross Fixed Capital Formation of the Economy.

Kloc: Gross Fixed Capital Formation locally produced.

Kimp: Import Gross Fixed Capital Formation.

Additionally; the GFCF Import matrix must be adjusted to purchasers' prices as follow:

$$\begin{pmatrix} Kimp_{11} & \dots & Kimp_{1j} \\ \dots & \ddots & \dots \\ Kimp_{i1} & \dots & Kimp_{ij} \end{pmatrix}_{cp} = \begin{pmatrix} Wm_{11} & \dots & Wm_{1j} \\ \dots & \ddots & \dots \\ Wm_{i1} & \dots & Wm_{ij} \end{pmatrix} + \begin{pmatrix} Rm_{11} & \dots & Rm_{1j} \\ \dots & \ddots & \dots \\ Rm_{i1} & \dots & Rm_{ij} \end{pmatrix} + \begin{pmatrix} T_{11} & \dots & T_{1j} \\ \dots & \ddots & \dots \\ T_{i1} & \dots & T_{ij} \end{pmatrix}$$

Where:

Wm: Wholesale margin by product and economic activity for import matrix.

Rm: Retail margin by product and economic activity for import matrix.

T: Taxes by product and economic activity for import matrix.

Also, for the GFCF local matrix the process to convert basic prices into purchasers' prices as follows:

$$\begin{pmatrix} Kloc_{11} & \dots & Kloc_{1j} \\ \dots & \ddots & \dots \\ Kloc_{i1} & \dots & Kloc_{ij} \end{pmatrix}_{cp} = \begin{pmatrix} Wm_{11} & \dots & Wm_{1j} \\ \dots & \ddots & \dots \\ Wm_{i1} & \dots & Wm_{ij} \end{pmatrix} + \begin{pmatrix} Rm_{11} & \dots & Rm_{1j} \\ \dots & \ddots & \dots \\ Rm_{i1} & \dots & Rm_{ij} \end{pmatrix} + \begin{pmatrix} T_{11} & \dots & T_{1j} \\ \dots & \ddots & \dots \\ T_{i1} & \dots & T_{ij} \end{pmatrix}$$

Where:

Wm: Wholesale margin by product and economic activity for local matrix.

Rm: Retail margin by product and economic activity for local matrix.

T: Taxes by product and economic activity for import matrix.

The Wholesale margin matrix and the Retail margin matrix by product and economic activity were calculated by the respective margin coefficient to the imported or local product by economic activity. This information is obtained from the Import Matrix and the GFCF vector for the economy calculated in the full sequence of accounts. Also, the margin coefficients were estimated from the information obtained in the Corporate Economic Study. The estimation is for “j” industries or economic activities and “i” assets tangibles and intangibles.

To develop the matrices, the first step is to associate each tariff heading with its own NP of the Nomenclature of Products for Costa Rica (NPCR) according to the CPC Ver. 2 code. In order to identify GFCF goods, two criteria were established:

- The nature of the product: there are goods which are intrinsically capital products: trucks, buses, X-ray machines, and many others.
- The type of economic unit that uses it; so for example, a car imported by a company for its own use is considered capital formation, nevertheless, the same car imported directly by a household is considered final consumption.

i. GFCF Import Matrix

Through the foreign-trade database, it is possible to identify who buys which product, so it is feasible to construct a product-industry gross capital formation matrix.

The capital goods imported by trading companies, are distributed by economic activity with a structure made using the Model-D151 of the Ministry of Finance.

It is important to clarify the treatment of GFCF goods directly imported and those who are imported by wholesalers and retailers:

- GFCF goods imported directly are at basic prices.
- GFCF goods imported by traders have to be taxed and there has to be a profit (trade margins).

In order to obtain the GFCF at purchasers' prices, taxes and trade margins has to be included. For this case, the GFCF matrix was adjusted to express it at purchasers' prices.

ii. GFCF national Matrix

For the construction of GFCF matrix it is necessary to identify each of the companies producing GFCF products. With the information of the Model-D151, it is possible to obtain the sales of each company (the amount but also the name and I.D number); and then split them by product (NPCR) and economic activity (EACR).

Hence, a GFCF national matrix is developed and combined with the imported GFCF matrix. It is important to mention that this approach of estimation has used plenty of data for some types of assets, like machinery and equipment, which are easily identified in the trade registers; but for the rest of assets (such as biological resources, buildings, and intellectual property products) the information has several limitations.

c. GFCF Matrix combined from methods 1 and 2 (M3)

An additional matrix is calculated as a combination of M1 and M2. From M2 the distribution for the Machinery and Equipment Assets by economic activity is used to adjust the results in M1; this estimation is also at purchasers' prices, so it must

be consistent with the gross fixed capital formation vector obtained in the national accounts.

For those activities related with the General Government and the Financial Corporations sectors, the complete estimation of method one is conserved, since the information for this sectors is complete.

For the base year, this approach is selected as the best estimation that can be obtained with the available information after an analysis and comparison of the results. The final matrix includes 136 economic activities and the disaggregation of gross fixed capital formation by type presented in table 1:

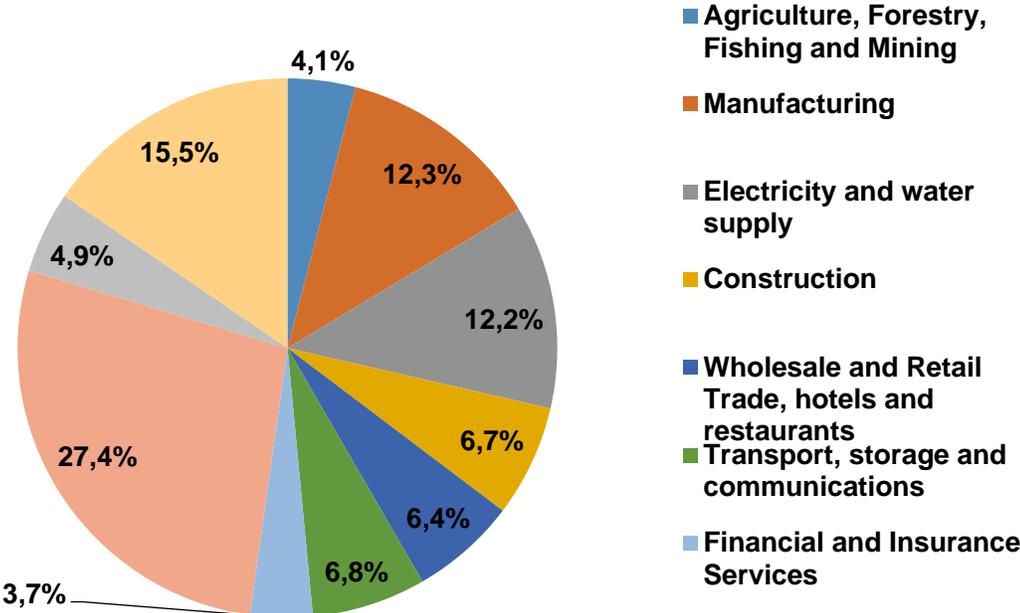
Table 1: Gross Fixed Capital Formation by types used in the GFCF Matrix

Gross Fixed Capital Formation by type:	
A. Dwellings.	
B. Other buildings and structures.	
	No residential buildings.
	Other structures and land improvements.
C. Machinery and Equipment.	
	Transportation equipment.
	Communication equipment.
	Computers and related equipment.
	Other machinery and equipment (includes weapons and military).
D. Cultivated Biological Resources.	
	Animal resources.
	Trees, crops, vegetable resources and other recurrent products.
E. Intellectual property products.	
	Research and development (includes patented rights).
	Software programs and databases.
	Originals for entertainments, literature or artistic.
	Other intellectual property products.

4. Description of the main results for the base year.

The GFCF Matrix was aggregated in ten activities for analytical purposes, but the appendix 7a shows the complete detail of Gross Fixed Capital Formation Matrix for the years 2012 and 2013. The activities analyzed include the usual classification by industry.

Graph 1. Costa Rica: Gross Fixed Capital Formation by Industry in 2012.



For 2012 the capital formation was 9.573 USD millions, of which 27,4% was produced in Real-State Activities (2.624 USD millions); followed by Other Services with a contribution of 15,5% (1.481 USD millions) and manufacturing and electricity and water supply with 12,3% and 12,2% respectively.

In Real Estate industry, the biggest portion of GFCF correspond to dwellings, which represents 64% of the total in this activity in 2012 (around 1.674 USD

millions). For the other services industry, the main component is machinery and equipment, with a contribution of 48,7% of the GFCF and other buildings and structures, that represents a 45,5% of the capital formation.

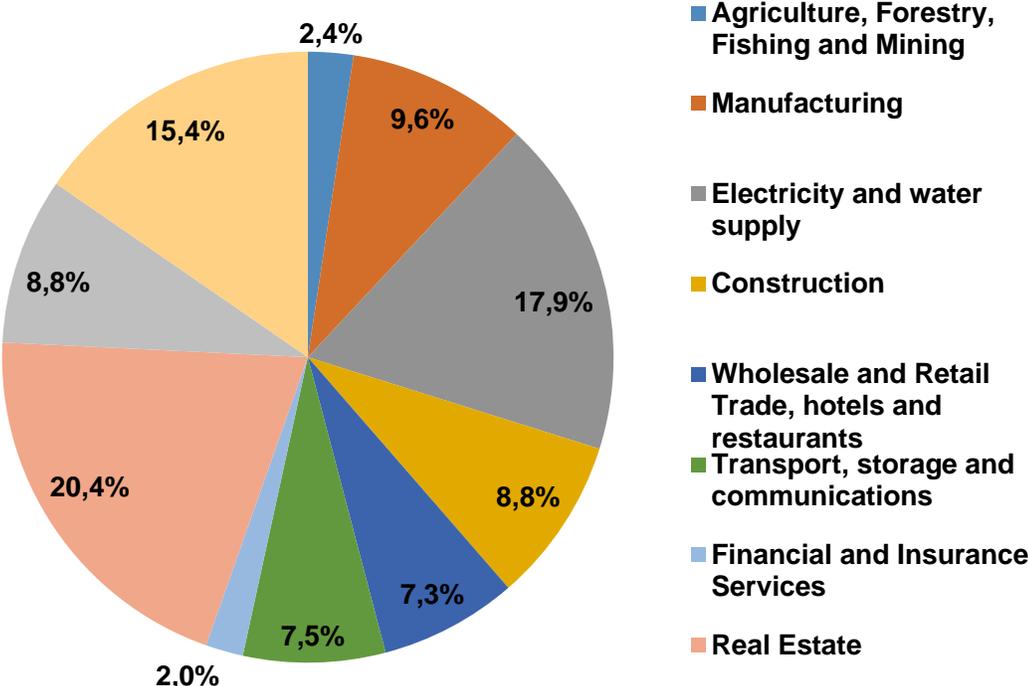
Gross Fixed Capital Formation by industry and asset

Dwellings. As mentioned previously, real estate activity comprises mainly residential dwellings, and for the whole economy this industry represent almost 100% of this asset. The total amount of GFCF on this asset in base year was 1.675 USD million, which represents a 17,5% of the total GFCF.

Other Buildings and Structures. In the base year, from a total of 4.383 USD million in capital formation in this type of assets, 20,4% were in Real Estate industry (893 USD millions), followed by the electricity and water supply industry with 17,9% participation of the total amount (784 USD millions). The third industry in importance was other services, with a 15,4% (674 USD millions); where the activities of Teaching, Administrative and office support activities and Advertising and market research are the main contributors¹¹.

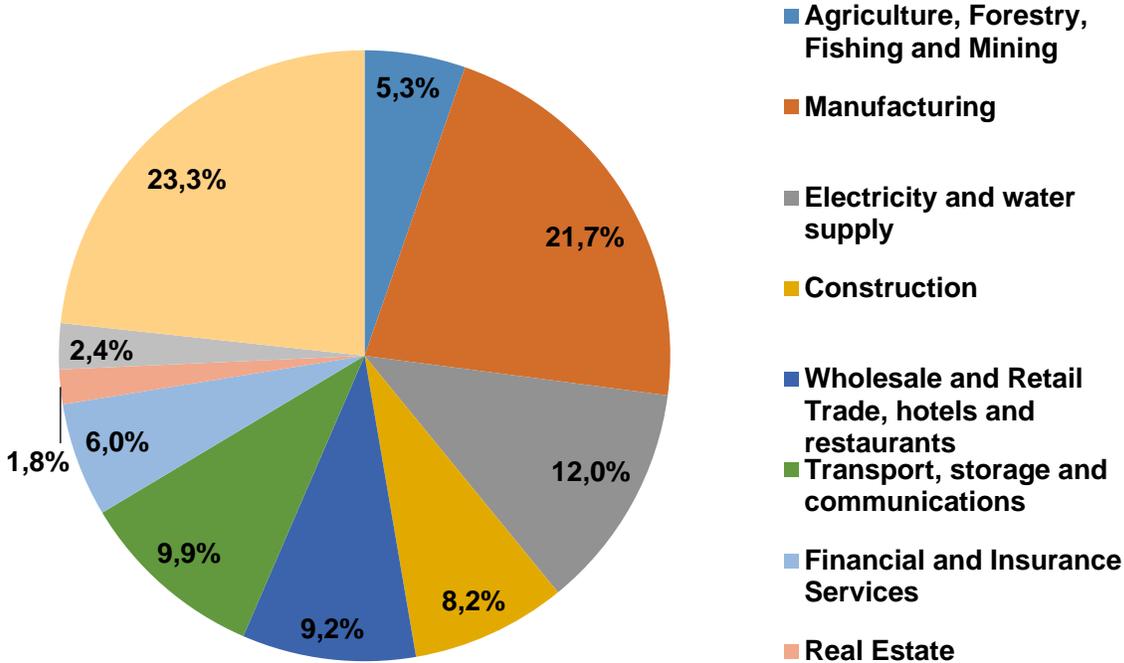
¹¹ These three economic activities represent 56,8% of the total of gross capital formation in other services.

Graph 2. Costa Rica: Gross Fixed Capital Formation in Other Buildings and Structures by Industry in 2012.



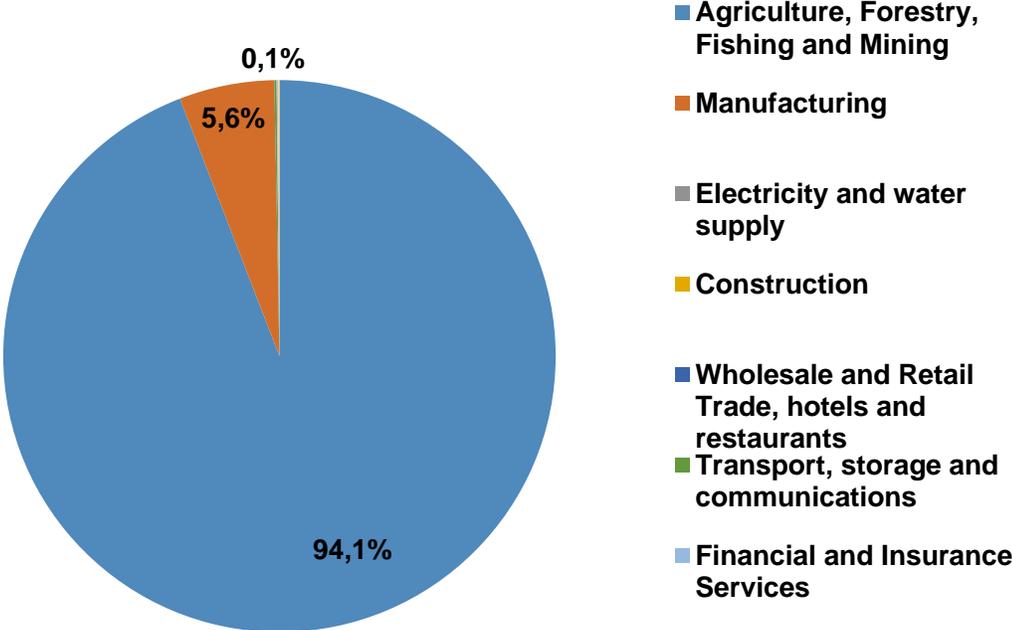
Machinery and Equipment. The total capital formation in machinery and equipment for the economy in 2012 was 3.101 USD million, which represents 32,4% of gross capital formation in that year. A 21,7% of the assets flow in 2012 belong to Manufacturing Industries, (674 USD million), and 23,3% (722 USD million) are from the other services, where Teaching and Activities related to human health care and social assistance are the main industries in the group of other services; followed by Electricity and Water Supply with a contribution of 12,0% (373 USD millions).

Graph 3. Costa Rica: Gross Fixed Capital Formation in Machinery and Equipment by Industry in 2012.

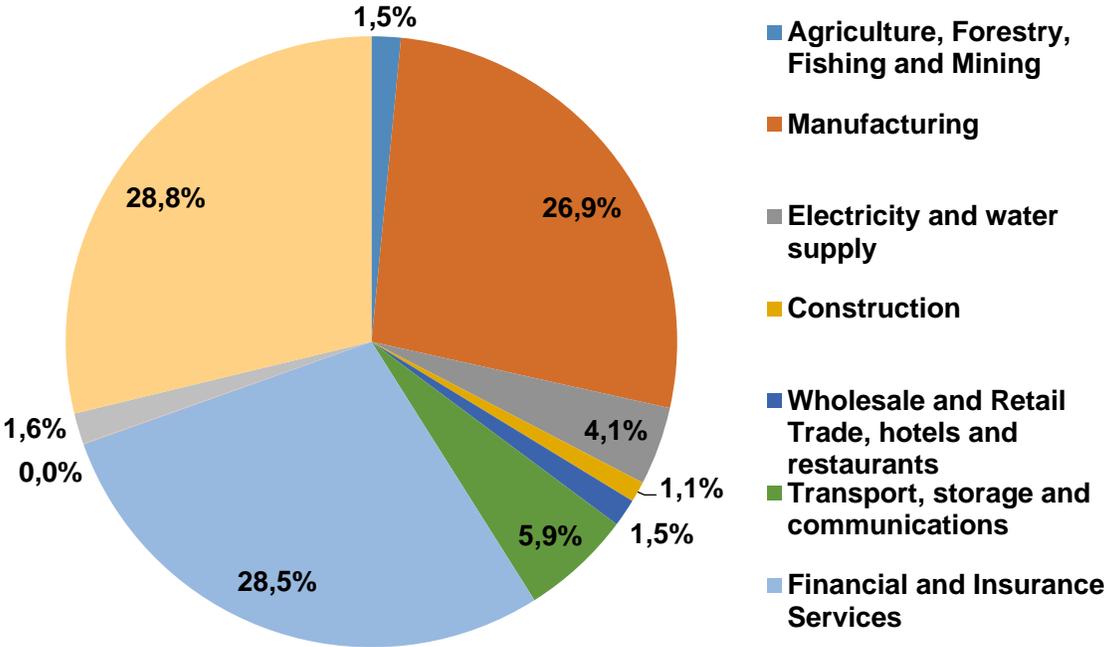


Cultivated Biological Resources. A 94,1% of the capital formation of this asset is in the agriculture industry, where the main activities in the capital formation of these assets are poultry industry, cattle breeding and banana cultivation. In 2012, the capital formation of Biological Resources was 121 USD million of which 114 USD million were in agriculture; as expected. The rest corresponds mainly to Manufacturing Industries.

Graph 4. Costa Rica: Gross Fixed Capital Formation in Cultivated Biological Resources by Industry in 2012.



Graph 4. Costa Rica: Gross Fixed Capital Formation in Intellectual Property Products by Industry in 2012.



Intellectual Property Products. This asset is more distributed across industries, although its weight in capital formation is just 3,0% (292 USD million). The Other Services Industry has the majority of the capital formation in intellectual and property products; 28,8% of the total (84 USD million); followed by Financial and Insurance Industry and Manufacturing with 28,5% and 26,9% respectively.

5. Final Remarks

This article has presented the first GFCF matrix estimated for the Costa Rican economy. This work has been possible due to the availability of information and human resources of the rebase project of national accounts, developed by the Macroeconomic Statistics Department, from the Central Bank of Costa Rica.

The GFCF matrix includes the fixed capital formation detailed for 136 economic activities and it was developed with various sources of information from economic surveys, case studies, and the new methodologies of national accounts were included in the process.

The GFCF matrix can be replicated for annual estimations with the available data and the use of statistical methods such as the RAS methodology implemented in this paper. The main goal of this work is not only develop an estimation for the fixed capital formation by economic activity, but also to introduce a methodology that could be used and improved in later actualizations of the GFCF matrix.

Nevertheless, the limitations of this matrix should be considered. The restrictions to obtain information for some activities and institutional subsectors due its own nature present a future challenge for a correct and consistent estimation of the capital formation flows. Major efforts should be encouraged to increase the coverage of the economic surveys for weight the capital formation of tangible and intangible assets and develop some other methods to capture the data from the industries.

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Annex A. The RAS Methodology

The RAS method was developed by Richard Stone in 1961 (Stone, 1961) and it is part of a group of bivariate methods of estimation for input-output tables. It is called “bivariate” because it corrects the rows and columns of an IO table estimate at the same time.

The procedure is as follows:

$$A^p = RAS \quad (1)$$

A^p : Adjusted coefficient Matrix.

A: Coefficient matrix in base year.

R: Diagonal matrix of multipliers for rows

S: Diagonal matrix of multipliers for columns

The values of the matrix of intermediate inputs are adjusted to obtain coefficients consistent with the given values of total inputs by column and by row. The main advantage of this method is simplicity. However, it does not allow to set restrictions to the estimation. For example, if there is exogenous information about a particular sector that should be included in the calculations this method cannot integrate it.

This method can also be analyzed as an optimization problem. In this case, the basic idea is to minimize z:

$$z = \sum \sum Q_{ij} x_i * \log \left(\frac{Q_{ij} x_j}{A_{ij} x_j} \right) \quad (2)$$

Restricted to:

$$\sum_i Q_{ij}x_i = V_j \quad (3)$$

$$\sum_j Q_{ij}x_j = U_i \quad (4)$$

$$Q_{ij} \geq 0 \quad \forall i, j$$

Where

Q_{ij} Adjusted coefficient matrix

X: Production vector ("i" if it's rows and "j" if it's columns).

A_{ij} : Coefficient Matrix in base year.

V_j : row vector for total intermediate demand.

U_j : column vector for total intermediate demand.

By solving equation (2) the problem allows to set restrictions for particular values in the activities; which could be useful in the actualization of IO tables if there is exogenous information. The solution process is iterative, in equation (1) the target is to find the values of the coefficient matrix that would be consistent with the sum of intermediate demand by row and by column.

Another advantage of the RAS methodology is the comparatively low cost in monetary resources and time to estimate input-output tables, since the only requirement it is to have information for the border column and row vectors and the rest of the information of national accounts.

This bivariate procedure allows interpreting the adjustment to the row as a *Substitution Effect* and the adjustment to the column as a *Manufacturing Effect*. The *Substitution Effect* could be interpreted as the change in the use of a particular product for the rest of industries in the economy for a period; the composition of the intermediate demand of a product could vary on time, depending on the changes of the technology used in the industries, availability of the products, costs, etc. On the other hand, the *Manufacturing Effect* could be explained as the changes on the cost structure or composition of the intermediate demand for a particular industry. Again, the composition of the inputs demanded for an industry can change for a given period; and this would have consequences on the value added and on the interrelations with the rest of industries.

Hence, in this article, the method is adapted to estimate GFCF matrices in the cases where the information is not complete, particularly in the case of Households and Private Non-Financial Corporations.

The same estimation methodology was applied to calculate GFCF matrices by an initial matrix with the structure of the gross capital formation for economic activity taken for the base year (2012) and replicated with row and column vectors for 2013.

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2012

	EA015	EA016	EA017	EA018	EA019	EA020	EA021	EA022	EA023	EA024	EA025	EA026	EA027	EA028	EA029
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	0,8	69,3	15,3	18,6	11,7	2,4	3,2	63,0	13,7	50,8	1,5	10,4	2,2	0,4	5,5
AN111 <i>Houses</i>	-	-	-	0,1	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	0,4	1,3	1,6	2,4	2,6	0,7	0,7	38,8	7,9	22,0	0,1	4,7	0,8	-	0,9
AN1121 No residential buildings	0,4	1,3	1,4	2,4	0,3	0,2	0,1	16,1	7,9	21,7	0,0	4,7	0,8	-	0,6
AN1122 Other structures and land improvements	-	-	0,2	-	2,3	0,5	0,5	22,6	0,1	0,2	0,1	-	0,0	-	0,4
AN113 <i>Machinery and Equipment</i>	-	67,9	3,4	2,3	2,1	0,2	1,6	5,1	0,4	1,9	0,6	5,2	1,2	0,3	4,1
AN1131 Transportation equipment	-	32,8	1,8	1,9	1,0	0,0	1,3	3,1	0,4	1,2	0,6	4,6	0,9	0,3	1,3
AN1132 Communication equipment	-	0,1	-	-	-	-	-	-	-	-	-	0,0	-	-	-
AN1133 Computers and related equipment	-	3,8	0,0	-	-	-	-	-	-	-	-	-	-	-	0,0
AN1139 Other machinery and equipment (includes weapons and military)	-	31,2	1,6	0,4	1,1	0,1	0,3	2,0	0,0	0,7	0,1	0,5	0,3	0,0	2,8
AN115 <i>Cultivated Biological Resources</i>	0,3	-	10,0	13,6	6,9	1,5	1,0	18,2	5,3	26,8	0,8	-	-	-	0,4
AN1151 Animal resources	-	-	0,3	0,5	-	-	-	18,2	5,3	26,8	0,8	-	-	-	0,4
AN1152 Trees, crops, vegetable resources and other recurrent products	0,3	-	9,7	13,1	6,9	1,5	1,0	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,1	0,3	0,2	0,1	0,0	0,0	0,9	0,1	0,2	0,0	0,5	0,1	0,1	0,0
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	-	-	0,0	0,0	-	-	-	-	-
AN1172 Software programs and databases	0,0	0,1	0,3	0,2	0,1	0,0	0,0	0,9	0,1	0,1	0,0	0,5	0,1	0,1	0,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2012

	EA030	EA031	EA032	EA033	EA034	EA035	EA036	EA037	EA038	EA039	EA040	EA041	EA042	EA043	EA044
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	11,7	-	0,0	80,7	9,6	19,4	60,9	32,7	54,7	2,8	1,9	40,2	24,8	5,3	1,2
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	0,8	-	-	16,7	2,0	8,1	31,2	27,4	39,8	(3,3)	0,3	32,1	(6,8)	4,1	0,5
AN1121 No residential buildings	0,8	-	-	14,2	(0,7)	4,1	30,6	21,1	39,8	6,6	0,3	32,1	(6,8)	3,3	0,5
AN1122 Other structures and land improvements	-	-	-	2,4	2,7	4,0	0,6	6,3	-	(9,9)	-	-	-	0,8	-
AN113 <i>Machinery and Equipment</i>	10,6	-	0,0	2,5	7,6	8,8	28,2	5,4	14,4	6,1	1,6	8,1	27,4	1,2	0,7
AN1131 Transportation equipment	2,7	-	-	1,4	3,5	1,0	4,0	0,9	1,4	0,9	0,8	3,9	3,3	-	0,5
AN1132 Communication equipment	-	-	-	0,1	-	0,0	0,3	-	0,0	0,0	0,0	-	0,0	-	-
AN1133 Computers and related equipment	-	-	-	0,2	0,2	0,1	0,0	0,3	0,1	0,0	0,0	0,0	-	-	-
AN1139 Other machinery and equipment (includes weapons and military)	7,9	-	0,0	0,8	3,9	7,7	23,9	4,3	13,0	5,1	0,7	4,1	24,1	1,2	0,2
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	1,8	-	-	-	-	-	5,0	-	-
AN1151 Animal resources	-	-	-	-	-	-	(0,0)	-	-	-	-	-	(0,0)	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	1,8	-	-	-	-	-	5,0	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,3	-	-	61,5	0,0	2,5	(0,3)	(0,0)	0,4	-	0,0	0,0	(0,7)	(0,0)	0,0
AN1171 Research and development (includes patented rights)	-	-	-	61,4	-	-	-	(0,0)	-	-	-	-	(0,7)	-	-
AN1172 Software programs and databases	-	-	-	0,1	0,0	2,5	(0,3)	0,0	0,4	-	0,0	0,1	0,0	(0,0)	0,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	0,3	-	-	0,0	-	(0,0)	-	-	-	-	0,0	(0,0)	-	-	0,0

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2012

	EA045	EA046	EA047	EA048	EA049	EA050	EA051	EA052	EA053	EA054	EA055	EA056	EA057	EA058	EA059
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	4,1	5,3	26,6	17,5	0,7	49,1	2,4	0,9	(25,3)	12,9	0,0	2,4	28,6	35,8	2,1
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	2,1	1,9	19,7	14,4	0,7	17,0	0,8	0,4	(33,4)	12,7	-	0,8	16,6	11,0	-
AN1121 No residential buildings	0,1	0,1	7,9	16,6	0,1	17,0	0,8	0,4	8,0	1,2	-	0,2	14,7	11,0	-
AN1122 Other structures and land improvements	2,0	1,8	11,8	(2,1)	0,6	-	-	0,0	(41,4)	11,5	-	0,6	1,9	-	-
AN113 <i>Machinery and Equipment</i>	2,0	2,9	6,8	3,1	0,0	31,7	1,6	0,5	8,2	0,2	0,0	1,7	12,0	17,3	2,1
AN1131 Transportation equipment	0,9	1,8	1,2	1,1	-	1,3	0,7	0,1	1,1	0,1	0,0	0,7	1,0	5,1	1,2
AN1132 Communication equipment	-	-	0,1	0,0	-	-	-	0,0	0,0	-	-	0,0	0,0	0,8	-
AN1133 Computers and related equipment	0,0	0,0	0,4	0,1	-	0,0	0,0	0,0	0,2	-	-	0,0	0,6	0,7	-
AN1139 Other machinery and equipment (includes weapons and military)	1,1	1,1	5,2	1,9	0,0	30,5	0,9	0,3	6,8	0,1	0,0	1,0	10,4	10,7	0,9
AN115 <i>Cultivated Biological Resources</i>	0,0	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	0,0	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,5	0,0	0,0	-	0,4	-	0,0	(0,0)	0,0	-	0,0	0,0	7,5	-
AN1171 Research and development (includes patented rights)	0,0	(0,0)	-	-	-	-	-	-	(0,0)	-	-	-	-	-	-
AN1172 Software programs and databases	0,0	0,5	0,0	0,0	-	0,4	-	0,0	(0,0)	0,0	-	0,0	0,0	0,3	-
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	7,2	-
AN1174 Other intellectual property products	(0,0)	-	-	-	-	0,1	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
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	EA045	EA046	EA047	EA048	EA049	EA050	EA051	EA052	EA053	EA054	EA055	EA056	EA057	EA058	EA059
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	4,1	5,3	26,6	17,5	0,7	49,1	2,4	0,9	(25,3)	12,9	0,0	2,4	28,6	35,8	2,1
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	2,1	1,9	19,7	14,4	0,7	17,0	0,8	0,4	(33,4)	12,7	-	0,8	16,6	11,0	-
AN1121 No residential buildings	0,1	0,1	7,9	16,6	0,1	17,0	0,8	0,4	8,0	1,2	-	0,2	14,7	11,0	-
AN1122 Other structures and land improvements	2,0	1,8	11,8	(2,1)	0,6	-	-	0,0	(41,4)	11,5	-	0,6	1,9	-	-
AN113 <i>Machinery and Equipment</i>	2,0	2,9	6,8	3,1	0,0	31,7	1,6	0,5	8,2	0,2	0,0	1,7	12,0	17,3	2,1
AN1131 Transportation equipment	0,9	1,8	1,2	1,1	-	1,3	0,7	0,1	1,1	0,1	0,0	0,7	1,0	5,1	1,2
AN1132 Communication equipment	-	-	0,1	0,0	-	-	-	0,0	0,0	-	-	0,0	0,0	0,8	-
AN1133 Computers and related equipment	0,0	0,0	0,4	0,1	-	0,0	0,0	0,0	0,2	-	-	0,0	0,6	0,7	-
AN1139 Other machinery and equipment (includes weapons and military)	1,1	1,1	5,2	1,9	0,0	30,5	0,9	0,3	6,8	0,1	0,0	1,0	10,4	10,7	0,9
AN115 <i>Cultivated Biological Resources</i>	0,0	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	0,0	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,5	0,0	0,0	-	0,4	-	0,0	(0,0)	0,0	-	0,0	0,0	7,5	-
AN1171 Research and development (includes patented rights)	0,0	(0,0)	-	-	-	-	-	-	(0,0)	-	-	-	-	-	-
AN1172 Software programs and databases	0,0	0,5	0,0	0,0	-	0,4	-	0,0	(0,0)	0,0	-	0,0	0,0	0,3	-
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	7,2	-
AN1174 Other intellectual property products	(0,0)	-	-	-	-	0,1	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2012

	EA060	EA061	EA062	EA063	EA064	EA065	EA066	EA067	EA068	EA069	EA070	EA071	EA072	EA073	EA074
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	21,3	0,4	(6,4)	7,4	7,8	1,3	11,3	18,5	37,0	8,7	(4,6)	15,6	3,1	11,9	205,7
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	16,8	0,3	0,2	3,0	2,5	0,2	6,1	9,8	20,0	-	(4,9)	(13,7)	(0,6)	(3,1)	11,8
AN1121 No residential buildings	16,8	0,3	0,2	3,0	2,5	0,2	6,1	9,8	20,0	-	(8,0)	(13,7)	(0,6)	4,4	9,5
AN1122 Other structures and land improvements	-	-	0,0	-	-	-	-	-	0,7	-	3,1	-	0,0	(7,6)	2,3
AN113 <i>Machinery and Equipment</i>	4,4	0,1	0,6	4,8	5,3	1,0	4,8	8,6	19,7	8,5	1,0	32,4	3,6	15,0	193,9
AN1131 Transportation equipment	1,7	-	0,3	0,8	1,9	0,5	1,6	1,2	2,2	0,0	0,1	3,6	0,8	3,2	0,1
AN1132 Communication equipment	-	-	-	-	0,1	0,0	0,1	0,0	0,0	0,0	-	0,1	0,2	0,1	2,2
AN1133 Computers and related equipment	0,0	-	-	0,1	-	-	0,1	0,4	0,1	0,0	0,0	1,1	0,0	0,1	60,1
AN1139 Other machinery and equipment (includes weapons and military)	2,7	0,1	0,4	3,9	3,3	0,5	3,0	7,0	17,3	8,5	0,8	27,7	2,5	11,7	131,5
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,1	-	(7,2)	(0,4)	0,0	-	0,4	0,2	(3,4)	0,1	(0,6)	(3,2)	0,2	0,0	0,0
AN1171 Research and development (includes patented rights)	-	-	(8,2)	(0,4)	-	-	0,4	0,2	(0,0)	-	(0,7)	(3,0)	-	0,0	-
AN1172 Software programs and databases	0,1	-	0,0	0,0	0,0	-	0,0	-	(3,4)	0,1	(0,1)	(0,1)	0,2	0,0	0,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	0,1	-	1,0	-	(0,0)	-	-	-	-	-	-	(0,0)	0,0	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
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2012

	EA075	EA076	EA077	EA078	EA079	EA080	EA081	EA082	EA083	EA084	EA085	EA086	EA087	EA088	EA089
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	1,8	55,3	16,9	(0,8)	36,9	228,8	3,9	(91,5)	1.127,4	41,6	40,3	217,0	86,9	33,2	144,4
AN111 <i>Houses</i>	-	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	(0,7)	7,4	0,0	(0,9)	20,6	126,8	0,7	(148,4)	747,2	36,8	32,1	139,5	11,8	24,3	56,7
AN1121 No residential buildings	(0,7)	5,7	0,0	(0,9)	20,6	103,8	0,7	6,4	48,9	2,2	29,8	139,5	11,8	21,6	56,5
AN1122 Other structures and land improvements	-	1,6	-	-	(0,0)	23,1	-	(154,8)	698,3	34,6	2,2	-	-	2,7	0,2
AN113 <i>Machinery and Equipment</i>	2,5	47,7	16,9	0,2	16,3	81,9	3,2	56,8	368,3	4,7	8,2	75,8	74,9	8,7	87,0
AN1131 Transportation equipment	-	1,4	14,6	0,0	1,2	1,4	0,5	36,3	15,4	3,5	3,2	16,8	5,3	2,8	11,0
AN1132 Communication equipment	0,0	0,2	-	-	0,0	4,7	0,0	0,1	12,2	-	0,1	0,1	0,1	0,1	1,9
AN1133 Computers and related equipment	0,1	0,3	0,0	-	0,1	4,9	0,1	1,5	49,0	0,1	0,0	0,2	0,0	0,1	0,4
AN1139 Other machinery and equipment (includes weapons and military)	2,4	45,8	2,3	0,1	15,0	70,9	2,5	19,0	291,7	1,1	4,9	58,7	69,4	5,7	73,7
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,3	-	-	0,1	20,0	-	0,0	12,0	0,1	(0,0)	1,7	0,1	0,3	0,7
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1172 Software programs and databases	0,0	0,3	-	-	0,1	0,4	-	0,0	12,0	0,1	(0,0)	1,7	0,1	0,3	0,7
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	19,6	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
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	EA090	EA091	EA092	EA093	EA094	EA095	EA096	EA097	EA098	EA099	EA100	EA101	EA102	EA103	EA104
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	470,9	72,4	8,2	57,4	0,6	86,4	7,0	18,5	46,7	4,9	79,5	58,2	67,6	357,0	97,6
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	231,9	13,5	7,9	(1,5)	-	34,1	1,0	12,0	(0,7)	(0,0)	48,2	39,4	25,5	251,1	19,7
AN1121 No residential buildings	157,2	5,6	-	1,4	-	15,2	0,8	11,6	(0,7)	(0,0)	60,9	39,4	16,0	6,7	17,6
AN1122 Other structures and land improvements	74,7	7,8	7,9	(2,8)	-	18,9	0,2	0,4	0,0	0,0	(12,7)	-	9,5	244,4	2,2
AN113 <i>Machinery and Equipment</i>	233,5	58,9	0,3	58,9	0,6	52,4	6,0	6,4	47,3	4,7	31,0	20,3	42,2	89,0	58,5
AN1131 Transportation equipment	192,8	54,5	0,2	57,8	0,6	47,3	0,8	4,0	28,8	3,2	6,2	5,7	3,7	4,5	1,8
AN1132 Communication equipment	-	0,0	-	0,0	-	0,1	-	0,1	0,5	0,0	0,7	0,0	32,4	6,4	0,5
AN1133 Computers and related equipment	-	0,3	-	0,0	-	0,1	-	0,0	1,9	0,1	0,2	0,0	0,9	12,8	50,2
AN1139 Other machinery and equipment (includes weapons and military)	40,7	4,0	0,0	1,1	-	4,8	5,1	2,3	16,1	1,4	23,9	14,6	5,1	65,3	6,0
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	0,2	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	0,2	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	5,5	0,0	-	0,0	-	-	0,0	0,1	0,0	0,2	0,3	(1,5)	(0,0)	16,7	19,4
AN1171 Research and development (includes patented rights)	0,2	-	-	-	-	-	-	-	-	-	0,0	(1,7)	0,7	(2,0)	-
AN1172 Software programs and databases	5,3	0,0	-	0,0	-	-	0,0	0,1	0,0	0,2	0,3	0,2	0,0	18,8	19,4
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	(0,7)	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2012

	EA105	EA106	EA107	EA108	EA109	EA110	EA111	EA112	EA113	EA114	EA115	EA116	EA117	EA118	EA119
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	223,2	107,8	14,9	11,5	1.051,1	19,1	(11,4)	69,7	33,3	0,8	155,8	52,1	1,4	72,3	23,4
AN111 <i>Houses</i>	-	-	-	-	101,5	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	36,4	40,1	9,5	0,9	892,8	1,9	(14,8)	57,2	18,0	-	116,7	(1,1)	-	6,3	-
AN1121 No residential buildings	35,9	37,6	9,5	0,9	829,2	1,9	0,1	9,7	0,7	-	(4,4)	(1,3)	-	(6,9)	-
AN1122 Other structures and land improvements	0,5	2,6	-	0,0	63,6	-	(14,8)	47,5	17,3	-	121,1	0,2	-	13,2	-
AN113 <i>Machinery and Equipment</i>	141,4	35,3	4,2	6,4	56,7	17,1	3,0	13,4	15,0	0,8	38,9	53,2	1,4	61,2	23,4
AN1131 Transportation equipment	2,2	1,9	0,2	0,4	13,0	1,5	2,3	3,7	6,9	0,5	8,7	1,0	0,8	31,4	1,6
AN1132 Communication equipment	0,3	0,0	-	0,2	1,3	-	0,0	0,4	0,4	-	1,1	23,4	0,0	0,2	0,1
AN1133 Computers and related equipment	35,6	1,8	2,0	3,8	0,2	15,3	0,5	4,3	0,5	0,1	20,6	22,1	0,0	0,7	21,7
AN1139 Other machinery and equipment (includes weapons and military)	103,4	31,6	2,0	2,0	42,3	0,3	0,1	5,0	7,3	0,2	8,4	6,7	0,6	28,9	0,1
AN115 <i>Cultivated Biological Resources</i>	-	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	-	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	45,4	32,4	1,2	4,3	0,1	0,0	0,4	(0,8)	0,3	0,0	0,2	0,0	-	4,8	-
AN1171 Research and development (includes patented rights)	20,5	31,9	-	0,4	-	-	(0,0)	(2,0)	-	-	-	-	-	(0,1)	-
AN1172 Software programs and databases	24,9	0,5	1,2	3,9	0,1	0,0	0,4	1,1	0,3	0,0	0,2	0,0	-	4,8	-
AN1173 Originals for entertainments, literature or artistic	-	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
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	EA120	EA121	EA122	EA123	EA124	EA125	EA126	EA127	EA128	EA129	EA130	EA131	EA132	EA133	EA134
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	8,9	20,9	5,0	160,5	433,8	33,4	0,9	232,1	206,2	42,4	75,5	14,5	0,1	27,0	3,1
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	0,9	4,0	1,7	114,2	368,8	19,0	0,1	152,0	94,2	25,1	64,4	4,8	0,1	26,1	1,6
AN1121 No residential buildings	0,6	1,9	1,7	79,8	79,4	10,0	0,1	72,4	36,8	24,2	10,3	2,5	0,1	26,1	1,4
AN1122 Other structures and land improvements	0,3	2,0	-	34,5	289,4	9,0	-	79,5	57,4	0,9	54,1	2,3	-	-	0,2
AN113 <i>Machinery and Equipment</i>	8,0	16,9	3,3	44,6	60,7	13,9	0,7	79,4	111,9	17,0	10,8	9,7	0,1	0,9	1,5
AN1131 Transportation equipment	7,3	9,6	2,8	2,3	20,6	10,7	0,1	9,7	14,0	7,1	8,5	0,7	0,0	0,9	1,4
AN1132 Communication equipment	0,0	4,0	-	1,4	4,1	0,9	0,0	17,9	9,6	0,3	1,2	1,7	-	-	-
AN1133 Computers and related equipment	0,0	0,5	0,1	30,4	14,0	0,7	-	7,1	0,6	0,1	0,2	3,7	-	-	-
AN1139 Other machinery and equipment (includes weapons and military)	0,7	2,7	0,5	10,5	22,0	1,6	0,7	44,6	87,7	9,5	1,0	3,6	0,1	0,0	0,1
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	0,1	-	-	(0,0)	-	0,0	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	0,1	-	-	(0,0)	-	0,0	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,0	0,0	1,6	4,2	0,5	0,1	0,7	0,1	0,3	0,4	-	-	-	(0,0)
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	-	-	-	-	(0,0)	-	-	-	-
AN1172 Software programs and databases	0,0	0,0	0,0	1,6	4,2	0,5	0,1	0,7	0,1	0,3	0,4	-	-	-	(0,0)
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	0,0	-	-	(0,0)	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
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	EA135	EA136	EA086UF	EA087UF	EA088UF	EA109UF	EA114UF	EA086NM	EA114NM	EA127NM	EA128NM
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	7,0	1,1	20,3	97,0	43,1	1.573,3	58,3	-	-	54,9	27,7
AN111 <i>Houses</i>	-	-	-	-	-	1.573,3	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	-	-	19,7	92,9	39,2	-	1,7	-	-	54,9	27,7
AN1121 No residential buildings	-	-	19,1	0,0	2,3	-	1,7	-	-	19,0	27,5
AN1122 Other structures and land improvements	-	-	0,6	92,9	36,9	-	0,0	-	-	35,9	0,2
AN113 <i>Machinery and Equipment</i>	7,0	1,1	0,5	4,1	3,5	-	-	-	-	-	-
AN1131 Transportation equipment	4,7	1,0	0,0	1,3	0,7	-	-	-	-	-	-
AN1132 Communication equipment	0,3	0,0	0,0	0,0	0,1	-	-	-	-	-	-
AN1133 Computers and related equipment	0,4	0,0	0,1	0,1	0,8	-	-	-	-	-	-
AN1139 Other machinery and equipment (includes weapons and military)	1,6	0,1	0,3	2,6	1,9	-	-	-	-	-	-
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	0,1	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	0,1	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	-	0,0	0,0	0,3	-	56,6	-	-	(0,1)	0,0
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	55,2	-	-	-	-
AN1172 Software programs and databases	0,0	-	0,0	0,0	0,3	-	1,3	-	-	(0,1)	-
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	0,1	0,0

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2013

	SCN	EA001	EA002	EA003	EA004	EA005	EA006	EA007	EA008	EA009	EA010	EA011	EA012	EA013	EA014
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	9.646,5	1,6	0,9	0,4	5,3	0,9	1,0	1,7	1,8	1,3	12,1	70,8	1,8	1,5	22,9
AN111 <i>Houses</i>	1.726,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	3.983,3	0,1	0,0	-	0,5	0,4	0,5	0,3	0,9	0,3	0,9	7,0	1,1	1,2	4,3
AN1121 No residential buildings	2.053,2	0,1	0,0	-	0,5	0,4	0,5	0,3	0,1	0,3	0,7	7,0	0,9	0,8	3,0
AN1122 Other structures and land improvements	1.930,1	-	-	-	-	-	-	-	0,7	-	0,2	-	0,3	0,4	1,3
AN113 <i>Machinery and Equipment</i>	3.526,7	1,4	0,9	0,4	4,8	0,5	0,5	1,4	0,9	1,0	11,3	55,0	0,4	0,3	9,5
AN1131 Transportation equipment	932,8	0,4	0,2	0,4	2,0	0,4	0,3	0,7	0,4	0,5	5,0	28,8	0,1	0,1	5,0
AN1132 Communication equipment	128,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1133 Computers and related equipment	419,3	-	-	-	0,4	0,0	0,0	0,1	0,0	0,1	0,2	0,5	0,0	0,1	0,7
AN1139 Other machinery and equipment (includes weapons and military)	2.045,6	1,0	0,7	0,1	2,4	0,1	0,1	0,6	0,5	0,4	6,1	25,6	0,3	0,1	3,9
AN115 <i>Cultivated Biological Resources</i>	116,3	0,0	-	-	-	-	-	-	-	0,0	-	8,8	0,1	0,0	9,1
AN1151 Animal resources	62,8	0,0	-	-	-	-	-	-	-	0,0	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	53,5	-	-	-	-	-	-	-	-	-	-	8,8	0,1	0,0	9,1
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	294,0	-	-	-	0,0	0,0	0,1	0,0	0,0						
AN1171 Research and development (includes patented rights)	115,2	-	-	-	-	-	-	-	-	-	-	-	0,1	-	-
AN1172 Software programs and databases	149,2	-	-	-	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
AN1173 Originals for entertainments, literature or artistic	7,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	22,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
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	EA015	EA016	EA017	EA018	EA019	EA020	EA021	EA022	EA023	EA024	EA025	EA026	EA027	EA028	EA029
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	2,4	4,3	15,6	36,1	14,1	2,8	2,0	82,8	16,9	56,9	1,2	25,9	5,8	4,1	2,6
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	0,4	0,9	2,1	2,8	4,6	1,3	1,3	39,6	6,1	15,8	0,1	4,1	0,5	-	1,1
AN1121 No residential buildings	0,4	0,9	1,7	2,8	0,3	0,2	0,1	9,0	6,0	15,5	0,0	4,1	0,5	-	0,4
AN1122 Other structures and land improvements	-	-	0,4	-	4,3	1,1	1,2	30,6	0,1	0,3	0,1	-	0,0	-	0,7
AN113 <i>Machinery and Equipment</i>	1,9	3,4	7,8	9,3	5,5	0,9	0,4	21,4	4,1	9,5	0,3	21,9	5,3	4,1	1,0
AN1131 Transportation equipment	0,3	0,7	5,1	5,5	1,6	0,5	0,2	10,3	1,0	1,4	0,1	15,4	3,1	3,2	0,6
AN1132 Communication equipment	-	-	-	-	0,0	-	0,0	0,0	-	-	-	0,1	-	0,2	-
AN1133 Computers and related equipment	0,0	0,1	0,9	0,4	0,1	0,0	0,0	1,3	0,1	0,5	0,0	0,5	0,1	0,4	0,1
AN1139 Other machinery and equipment (includes weapons and military)	1,6	2,5	1,8	3,5	3,8	0,4	0,2	9,8	3,0	7,5	0,2	5,8	2,1	0,2	0,3
AN115 <i>Cultivated Biological Resources</i>	0,1	-	5,7	24,0	4,1	0,6	0,3	21,6	6,8	31,6	0,8	-	-	-	0,5
AN1151 Animal resources	-	-	0,7	0,8	-	-	-	21,6	6,8	31,6	0,8	-	-	-	0,5
AN1152 Trees, crops, vegetable resources and other recurrent products	0,1	-	5,0	23,3	4,1	0,6	0,3	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,1	0,0	0,0	0,0	0,0	0,0
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	-	-	0,0	0,0	-	-	-	-	-
AN1172 Software programs and databases	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,1	0,0	0,0	0,0	0,0	0,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
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	EA030	EA031	EA032	EA033	EA034	EA035	EA036	EA037	EA038	EA039	EA040	EA041	EA042	EA043	EA044
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	23,0	0,0	-	102,0	13,6	7,4	35,9	28,7	52,4	3,5	6,2	54,9	76,0	4,2	7,9
AN111 <i>Houses</i>	-	-	-	-	-	-	-	0,0	-	-	0,1	-	-	-	-
AN112 <i>Other buildings and structures</i>	0,4	-	-	24,1	0,4	(3,5)	24,3	22,5	30,2	5,8	4,3	25,4	(7,8)	3,5	5,3
AN1121 No residential buildings	0,4	-	-	17,6	(0,0)	(3,6)	23,5	13,9	30,2	(2,6)	4,3	25,4	(7,8)	2,4	5,2
AN1122 Other structures and land improvements	-	-	-	6,5	0,4	0,2	0,8	8,6	-	8,4	-	-	-	1,1	0,2
AN113 <i>Machinery and Equipment</i>	22,5	0,0	-	73,3	13,3	10,5	13,4	6,2	22,2	(2,3)	1,8	29,6	80,1	0,7	2,4
AN1131 Transportation equipment	3,6	0,0	-	38,3	1,1	0,6	1,5	0,2	7,5	0,2	0,4	5,6	3,3	(0,0)	(0,0)
AN1132 Communication equipment	-	-	-	(0,0)	-	-	-	-	(0,3)	-	-	-	0,0	-	-
AN1133 Computers and related equipment	0,4	-	-	14,7	1,3	0,5	1,6	0,7	(4,3)	-	0,1	2,7	0,4	0,0	-
AN1139 Other machinery and equipment (includes weapons and military)	18,5	0,0	-	20,3	10,9	9,5	10,3	5,3	19,4	(2,5)	1,4	21,2	76,4	0,7	2,4
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	(1,8)	-	-	-	-	-	3,6	-	-
AN1151 Animal resources	-	-	-	-	-	-	(0,0)	-	-	-	-	-	(0,0)	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	(1,8)	-	-	-	-	-	3,6	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	-	-	4,7	0,0	0,3	(0,0)	(0,0)	0,0	-	0,0	(0,1)	0,1	(0,0)	0,1
AN1171 Research and development (includes patented rights)	-	-	-	4,4	-	-	-	(0,0)	-	-	-	-	0,0	-	-
AN1172 Software programs and databases	-	-	-	0,2	0,0	0,3	(0,0)	(0,0)	0,0	-	0,0	(0,1)	0,1	(0,0)	0,2
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	0,0	-	-	-	-	0,0	-	-	-	-	(0,0)	-	-	-	(0,0)

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	EA045	EA046	EA047	EA048	EA049	EA050	EA051	EA052	EA053	EA054	EA055	EA056	EA057	EA058	EA059
F51b (AN11)															
<i>Gross Fixed Capital Formation by type</i>	2,7	2,9	29,1	37,4	0,5	35,3	3,0	1,6	(26,3)	14,4	0,2	17,8	22,6	29,1	-
AN111	-	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Houses</i>															
AN112	2,7	0,0	14,9	7,3	0,5	7,5	0,4	0,2	(29,5)	11,2	-	0,6	12,2	5,0	-
<i>Other buildings and structures</i>															
AN1121	1,0	0,0	2,8	9,8	0,0	11,0	0,4	0,2	3,1	0,5	-	0,1	9,6	4,3	-
No residential buildings															
AN1122	1,7	-	12,1	(2,6)	0,5	(3,5)	-	0,0	(32,6)	10,7	-	0,5	2,5	0,7	-
Other structures and land improvements															
AN113	(0,1)	2,6	14,3	30,2	(0,0)	19,1	2,6	1,4	3,2	3,2	0,2	17,2	10,4	10,3	-
<i>Machinery and Equipment</i>															
AN1131	0,1	0,3	1,3	1,0	(0,0)	1,8	0,3	(0,0)	0,3	0,2	0,0	0,7	0,5	0,3	-
Transportation equipment															
AN1132	-	0,1	-	0,0	-	0,4	-	0,0	0,2	-	-	-	(0,0)	(0,0)	-
Communication equipment															
AN1133	0,1	0,2	3,3	0,5	0,1	1,0	-	1,1	0,4	1,8	0,1	0,2	(0,0)	2,0	-
Computers and related equipment															
AN1139	(0,4)	2,0	9,7	28,7	(0,1)	15,9	2,3	0,3	2,3	1,2	0,2	16,2	10,0	8,0	-
Other machinery and equipment (includes weapons and military)															
AN115	(0,0)	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
<i>Cultivated Biological Resources</i>															
AN1151	(0,0)	-	-	0,0	-	-	-	-	-	-	-	-	-	-	-
Animal resources															
AN1152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trees, crops, vegetable resources and other recurrent products															
AN116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cost of transfer of ownership of non-produced assets</i>															
AN117	0,1	0,3	0,0	0,0	-	8,7	-	0,0	(0,0)	0,0	-	0,0	0,0	13,8	-
<i>Intellectual property products</i>															
AN1171	0,0	(0,0)	-	-	-	5,6	-	-	(0,0)	-	-	-	-	-	-
Research and development (includes patented rights)															
AN1172	0,0	0,3	0,0	0,0	-	3,1	-	0,0	(0,0)	0,0	-	0,0	0,0	0,0	-
Software programs and databases															
AN1173	-	-	-	-	-	-	-	-	-	-	-	-	-	13,8	-
Originals for entertainments, literature or artistic															
AN1174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other intellectual property products															

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2013

	EA060	EA061	EA062	EA063	EA064	EA065	EA066	EA067	EA068	EA069	EA070	EA071	EA072	EA073	EA074
F51b (AN11) <i>Gross Fixed Capital Formation by type</i>	27,0	0,6	(10,1)	11,0	1,8	0,5	12,5	26,6	30,6	11,1	47,5	23,4	16,8	5,7	277,0
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	8,1	0,2	0,2	7,8	0,8	0,1	3,7	16,9	17,3	(4,1)	(0,7)	7,0	(2,6)	(18,3)	8,7
AN1121 No residential buildings	8,1	0,2	0,2	7,8	0,8	0,1	3,7	16,9	16,4	(4,1)	(3,4)	7,0	(2,6)	4,4	(5,6)
AN1122 Other structures and land improvements	-	-	0,0	-	-	-	-	-	0,9	(0,0)	2,7	0,0	-	(22,8)	14,3
AN113 <i>Machinery and Equipment</i>	18,7	0,4	(10,0)	3,1	0,9	0,4	8,8	10,2	14,0	15,3	48,2	16,4	19,3	24,1	268,3
AN1131 Transportation equipment	1,8	0,1	(0,0)	0,0	0,6	(0,5)	0,3	0,5	0,6	0,2	1,5	2,2	0,9	4,8	0,0
AN1132 Communication equipment	2,0	-	0,3	-	-	-	-	-	-	-	-	0,1	-	-	-
AN1133 Computers and related equipment	1,4	0,0	1,3	0,2	(0,6)	0,1	1,4	0,9	0,7	0,0	11,4	0,4	0,4	1,3	0,2
AN1139 Other machinery and equipment (includes weapons and military)	13,6	0,3	(11,5)	2,8	0,9	0,8	7,0	8,9	12,6	15,0	35,4	13,8	18,0	18,0	268,1
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,3	-	(0,4)	0,1	0,0	-	0,0	(0,5)	(0,7)	0,0	(0,0)	(0,0)	0,0	(0,1)	0,0
AN1171 Research and development (includes patented rights)	0,1	-	(0,6)	0,1	-	-	0,0	(0,5)	(0,0)	-	(0,0)	(0,0)	-	0,0	-
AN1172 Software programs and databases	0,0	-	0,0	0,0	0,0	-	0,0	-	(0,7)	0,0	0,0	(0,0)	0,0	(0,1)	0,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	0,2	-	0,2	-	-	-	-	-	-	-	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2013

	EA075	EA076	EA077	EA078	EA079	EA080	EA081	EA082	EA083	EA084	EA085	EA086	EA087	EA088	EA089
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	1,4	37,3	1,1	(0,8)	26,5	203,3	5,4	(121,6)	712,1	54,7	100,2	160,3	82,0	32,3	131,2
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	(0,3)	2,0	(0,0)	(0,8)	16,0	127,5	0,3	(131,2)	617,7	47,0	18,7	111,1	7,6	20,4	38,9
AN1121 No residential buildings	(0,3)	0,3	(0,0)	(0,8)	16,0	101,8	0,3	2,7	39,8	2,0	16,6	111,1	7,6	17,1	38,7
AN1122 Other structures and land improvements	-	1,7	-	-	(0,0)	25,7	-	(133,9)	577,9	45,0	2,1	-	-	3,3	0,1
AN113 <i>Machinery and Equipment</i>	1,7	35,1	1,1	-	10,5	65,3	5,0	9,6	82,1	7,8	81,5	49,2	74,5	12,0	92,3
AN1131 Transportation equipment	0,0	0,7	0,2	-	3,5	0,4	0,0	1,6	14,2	3,4	5,5	26,5	73,4	5,0	75,5
AN1132 Communication equipment	-	-	0,0	-	-	0,1	-	-	7,8	0,5	0,0	6,4	0,2	0,5	4,9
AN1133 Computers and related equipment	0,0	0,2	0,1	-	1,4	1,0	1,1	0,3	1,1	0,3	2,8	6,0	0,1	0,8	0,3
AN1139 Other machinery and equipment (includes weapons and military)	1,6	34,2	0,8	-	5,6	63,7	3,9	7,7	59,1	3,6	73,3	10,3	0,8	5,8	11,6
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,3	-	-	0,0	10,5	-	0,0	12,3	(0,1)	(0,0)	0,1	0,0	0,0	0,0
AN1171 Research and development (includes patented rights)	-	-	-	-	-	8,0	-	-	-	-	-	-	-	-	-
AN1172 Software programs and databases	0,0	0,3	-	-	0,0	0,3	-	0,0	8,8	(0,1)	(0,0)	0,1	0,0	0,0	0,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	2,2	-	-	3,4	0,0	0,0	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2013

	EA090	EA091	EA092	EA093	EA094	EA095	EA096	EA097	EA098	EA099	EA100	EA101	EA102	EA103	EA104
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	568,5	34,6	7,5	27,6	20,8	71,4	2,5	(2,7)	5,5	0,4	21,0	104,8	43,8	444,9	82,6
AN111 <i>Houses</i>	3,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	210,2	13,4	1,0	(2,7)	-	29,2	0,6	4,5	(0,3)	0,1	2,7	23,4	22,2	151,4	13,8
AN1121 No residential buildings	123,6	3,9	-	0,8	-	8,3	0,4	(0,7)	(0,3)	(0,0)	23,7	23,2	8,7	8,4	11,0
AN1122 Other structures and land improvements	86,7	9,6	1,0	(3,5)	-	20,9	0,2	5,1	0,0	0,1	(20,9)	0,2	13,5	143,1	2,8
AN113 <i>Machinery and Equipment</i>	317,2	21,2	6,6	30,3	20,8	42,2	1,9	(7,1)	5,8	0,1	21,6	81,0	27,8	249,9	66,8
AN1131 Transportation equipment	56,8	11,7	6,5	24,0	15,5	19,8	0,2	0,4	0,4	0,6	2,4	0,5	1,0	149,0	0,4
AN1132 Communication equipment	4,5	0,0	-	1,3	2,4	1,2	-	0,1	0,0	0,0	0,1	-	0,5	63,1	0,7
AN1133 Computers and related equipment	58,6	3,3	-	2,5	2,9	4,2	0,7	0,3	1,4	0,1	6,6	15,3	3,6	16,9	27,5
AN1139 Other machinery and equipment (includes weapons and military)	197,4	6,2	0,1	2,5	0,0	17,1	1,1	(7,9)	3,8	(0,7)	12,5	65,3	22,6	20,8	38,3
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	0,3	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	0,3	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	37,1	0,0	-	0,0	-	-	0,0	(0,1)	0,0	0,2	(3,3)	0,5	(6,2)	43,2	2,0
AN1171 Research and development (includes patented rights)	2,1	-	-	-	-	-	-	-	-	-	0,0	0,1	0,2	17,5	-
AN1172 Software programs and databases	35,0	0,0	-	0,0	-	-	0,0	(0,1)	0,0	0,2	(3,3)	0,1	0,3	25,6	2,0
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	(6,7)	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	-	-	0,4	-	0,1	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
2013

	EA105	EA106	EA107	EA108	EA109	EA110	EA111	EA112	EA113	EA114	EA115	EA116	EA117	EA118	EA119
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	254,9	272,8	85,3	12,4	971,2	5,3	(4,6)	85,8	34,1	1,2	142,8	6,3	0,9	199,0	0,5
AN111 <i>Houses</i>	0,5	-	-	-	135,4	-	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	72,0	156,1	74,8	1,2	710,5	1,1	(14,8)	50,1	15,8	-	105,8	(0,4)	-	11,8	-
AN1121 No residential buildings	57,6	152,0	74,8	2,0	609,8	1,1	0,0	5,7	0,3	-	(1,9)	(0,6)	-	(4,1)	-
AN1122 Other structures and land improvements	14,4	4,1	-	(0,8)	100,6	-	(14,8)	44,4	15,5	-	107,7	0,2	-	15,9	-
AN113 <i>Machinery and Equipment</i>	136,2	86,5	8,8	5,4	125,3	4,2	10,2	35,5	18,3	1,2	37,0	6,8	0,9	187,0	0,5
AN1131 Transportation equipment	3,3	8,9	0,1	0,3	1,5	0,4	0,2	0,6	0,5	(3,7)	1,7	0,0	0,2	180,8	0,0
AN1132 Communication equipment	0,2	0,0	-	0,3	-	-	-	0,1	0,1	-	0,3	0,0	-	0,4	-
AN1133 Computers and related equipment	20,6	5,4	6,9	3,6	0,8	2,5	9,6	13,9	9,4	1,4	13,8	1,1	0,1	6,1	0,5
AN1139 Other machinery and equipment (includes weapons and military)	112,1	72,2	1,8	1,3	123,0	1,3	0,4	20,9	8,3	3,5	21,1	5,6	0,5	(0,3)	0,0
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	46,3	30,3	1,7	5,8	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0	-	0,2	-
AN1171 Research and development (includes patented rights)	(3,6)	19,6	-	0,2	-	-	(0,0)	0,1	-	-	-	-	-	(0,0)	-
AN1172 Software programs and databases	49,9	0,0	1,7	5,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	-	0,2	-
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	10,6	-	0,1	-	-	-	-	-	-	-	-	-	0,0	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
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	EA120	EA121	EA122	EA123	EA124	EA125	EA126	EA127	EA128	EA129	EA130	EA131	EA132	EA133	EA134
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	2,4	11,5	9,5	160,3	443,1	43,8	0,9	178,4	94,5	30,6	105,2	18,6	0,2	24,4	2,1
AN111 <i>Houses</i>	-	-	-	-	-	-	-	-	-	-	0,1	-	-	-	-
AN112 <i>Other buildings and structures</i>	0,6	3,0	1,0	86,1	333,4	24,5	0,1	127,1	76,7	20,4	80,2	3,8	0,0	23,3	1,2
AN1121 No residential buildings	0,3	1,0	1,0	45,9	37,9	9,1	0,1	41,2	16,2	18,9	21,7	1,3	0,0	23,3	1,0
AN1122 Other structures and land improvements	0,3	2,1	-	40,3	295,5	15,4	-	85,9	60,4	1,4	58,5	2,5	-	-	0,2
AN113 <i>Machinery and Equipment</i>	1,8	8,5	8,5	74,1	94,1	18,6	0,7	51,2	17,8	9,8	24,1	14,8	0,1	1,1	0,9
AN1131 Transportation equipment	0,8	1,3	4,4	2,2	32,2	11,9	0,2	1,5	0,1	0,7	1,5	0,6	0,0	-	0,3
AN1132 Communication equipment	0,0	1,2	0,0	0,0	19,8	2,1	0,0	1,7	0,1	-	0,1	-	-	-	0,0
AN1133 Computers and related equipment	0,8	3,8	1,3	35,3	9,2	1,2	-	25,0	4,3	2,4	13,1	0,7	0,0	1,1	0,2
AN1139 Other machinery and equipment (includes weapons and military)	0,2	2,2	2,8	36,5	33,0	3,4	0,5	22,9	13,2	6,7	9,4	13,6	0,1	(0,0)	0,4
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	0,1	-	-	(0,0)	-	0,0	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	0,1	-	-	(0,0)	-	0,0	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	0,0	0,0	0,1	15,5	0,7	0,1	0,1	(0,0)	0,4	0,8	-	-	-	(0,0)
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	-	-	-	-	(0,1)	-	-	-	-
AN1172 Software programs and databases	0,0	0,0	0,0	0,1	15,4	0,7	0,1	0,1	(0,0)	0,4	0,9	-	-	-	(0,0)
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	0,0	-	(0,0)	(0,0)	-	0,0	-	-	-	-	-

Costa Rica: Gross Fixed Capital Formation by Economic Activity
Millions of USD
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	EA135	EA136	EA086UF	EA087UF	EA088UF	EA109UF	EA114UF	EA086NM	EA114NM	EA127NM	EA128NM				
P51b (AN11) <i>Gross Fixed Capital Formation by type</i>	0,8	(0,0)	24,4	161,7	53,5	1.586,3	68,1	-	-	141,1	93,2	-	-	-	-
AN111 <i>Houses</i>	-	-	-	-	-	1.586,3	-	-	-	-	-	-	-	-	-
AN112 <i>Other buildings and structures</i>	-	-	23,5	159,7	49,5	-	0,8	-	-	76,7	52,3	-	-	-	-
AN1121 No residential buildings	-	-	22,2	0,2	3,4	-	0,5	-	-	37,1	51,9	-	-	-	-
AN1122 Other structures and land improvements	-	-	1,3	159,6	46,1	-	0,4	-	-	39,5	0,3	-	-	-	-
AN113 <i>Machinery and Equipment</i>	0,8	(0,0)	1,0	2,0	4,0	-	5,3	-	-	58,1	40,9	-	-	-	-
AN1131 Transportation equipment	0,6	-	-	1,0	0,3	-	0,2	-	-	2,1	1,9	-	-	-	-
AN1132 Communication equipment	-	-	0,0	0,0	0,2	-	0,0	-	-	3,8	0,9	-	-	-	-
AN1133 Computers and related equipment	0,1	(0,0)	0,1	0,1	0,7	-	0,3	-	-	9,7	0,4	-	-	-	-
AN1139 Other machinery and equipment (includes weapons and military)	0,1	-	0,8	0,8	2,8	-	4,7	-	-	42,5	37,8	-	-	-	-
AN115 <i>Cultivated Biological Resources</i>	-	-	-	-	-	-	-	-	-	0,0	-	-	-	-	-
AN1151 Animal resources	-	-	-	-	-	-	-	-	-	0,0	-	-	-	-	-
AN1152 Trees, crops, vegetable resources and other recurrent products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN116 <i>Cost of transfer of ownership of non-produced assets</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN117 <i>Intellectual property products</i>	0,0	-	-	0,0	0,0	-	62,0	-	-	6,3	0,0	-	-	-	-
AN1171 Research and development (includes patented rights)	-	-	-	-	-	-	61,8	-	-	-	-	-	-	-	-
AN1172 Software programs and databases	0,0	-	-	0,0	0,0	-	0,2	-	-	0,9	-	-	-	-	-
AN1173 Originals for entertainments, literature or artistic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN1174 Other intellectual property products	-	-	-	-	-	-	-	-	-	5,4	0,0	-	-	-	-

Annex B2. Costa Rica: Economic Activities.

Economic Activity	
EA001	Bean cultivation
EA002	Corn cultivation
EA003	Cultivation of other cereals, legumes and oil seeds (not previously classified)
EA004	Rice cultivation
EA005	Watermelon cultivation
EA006	Melon cultivation
EA007	Onion cultivation
EA008	Chayote cultivation
EA009	Potato cultivation
EA010	Cultivation of other vegetables, roots and tubers (not previously classified)
EA011	Sugar cane cultivation
EA012	Flower cultivation
EA013	Foliage cultivation
EA014	Banana cultivation
EA015	Plantain cultivation
EA016	Pineapple cultivation
EA017	African palm (oil palm) cultivation
EA018	Coffee cultivation
EA019	Cultivation of other fruits, nuts and other oleaginous fruits
EA020	Cultivation of other non-perennial and perennial plants
EA021	Plant propagation
EA022	Beef cattle breeding
EA023	Pig breeding
EA024	Raising chickens
EA025	Breeding of other animals
EA026	Support activities for agriculture, livestock and post-harvest activities
EA027	Silviculture, timber extraction, and hunting
EA028	Marine and freshwater fishing
EA029	Marine and freshwater aquaculture
EA030	Extraction of stone, sand and clay
EA031	Salt extraction
EA032	Other mining and quarrying (not previously classified)
EA033	Preparation and preservation of poultry and poultry cold cuts
EA034	Preparation and preservation of meat and cold cuts of cattle and pigs, and other types of meats
EA035	Processing and preservation of fish, crustaceans and shellfish
EA036	Processing and preservation of fruits and vegetables
EA037	Production of oils and fats of vegetable and animal origin
EA038	Production of dairy products
EA039	Rice processing
EA040	Production of milling products, except rice, and starches and starch products
EA041	Production of bakery products and tortillas
EA042	Sugar processing
EA043	Production of cocoa, chocolate and confectionery products
EA044	Production of macaroni, noodles, and similar starchy products
EA045	Preparation of unroasted coffee
EA046	Production of coffee products
EA047	Production of foods, prepared meals, and other food products
EA048	Production of animal feed
EA049	Distillation, rectification and blending of alcoholic beverages and wines
EA050	Production of malt beverages, malt, non-alcoholic beverages, mineral waters, and other bottled waters
EA051	Production of tobacco products
EA052	Manufacture of textile products
EA053	Manufacture of clothing
EA054	Manufacture of leather and related products, except footwear
Economic Activity	
EA055	Manufacture of footwear
EA056	Timber production and manufacture of timber and cork products, except furniture; manufacture of straw articles and of plaiting materials

EA057	Manufacture of paper and paper products
EA058	Activities of printing, editing and reproduction of video recordings, except computing programs
EA059	Manufacture of refined petroleum products and coke
EA060	Manufacture of basic chemical substances, fertilizers and nitrogen compounds
EA061	Manufacture of plastics and synthetic rubber in primary forms
EA062	Manufacture of pesticides and other chemical products for agricultural use
EA063	Manufacture of paints, varnishes and similar coating products, printing inks and resins
EA064	Manufacture of soaps and detergents, preparations for cleansing and polishing, perfumes and toiletries
EA065	Manufacture of other chemical products (not previously classified) and manufactured fibers
EA066	Manufacture of pharmaceutical products, medicinal chemicals and botanical products
EA067	Manufacture of rubber products
EA068	Manufacture of plastic products
EA069	Manufacture of glass and glass products
EA070	Manufacture of refractory products, clay construction materials, and other porcelain and ceramic products
EA071	Manufacture of cement, lime, plaster, and articles of concrete, cement and plaster, and other non-metallic minerals, (not previously classified)
EA072	Manufacture of common metals
EA073	Manufacture of metal products, except machinery and equipment
EA074	Manufacture of electronic components and circuit boards, computers and peripheral equipment
EA075	Manufacture of electronic and optical products
EA076	Manufacture of electrical equipment and machinery (not previously classified)
EA077	Manufacture of motor vehicles, trailers and semi-trailers
EA078	Manufacture of other transport equipment
EA079	Manufacture of furniture
EA080	Manufacture of medical and dental instruments and supplies
EA081	Other manufacturing industries
EA082	Repair and installation of machinery and equipment
EA083	Supply of electricity, gas, steam and air conditioning
EA084	Supply of potable water and removal of residual waters
EA085	Waste management and decontamination
EA086	Construction of buildings
EA087	Construction of roads and railways
EA088	Construction of public service works and other civil engineering works
EA089	Specialized construction activities
EA090	Trade
EA091	Maintenance and repair of motor vehicles
EA092	Rail transport
EA093	Land passenger transport, except taxis
EA094	Passenger taxi transport
EA095	Sea, air, and road freight transport
EA096	Warehousing and storage
EA097	Transportation-related services activities
EA098	Freight handling and other transportation support activities
EA099	Postal and courier activities
EA100	Lodging activities
EA101	Food and messaging services activities
EA102	Activities related to movie, video and television program production, sound recording; music editing, programming and transmission
EA103	Telecommunications activities
EA104	Information, programming and computing consulting activities, editing of computing and related programs
EA105	Monetary intermediation activities
Economic Activity	
EA107	Insurance, reinsurance and pension fund activities, except for compulsory social security schemes
EA108	Auxiliary activities of financial, insurance and pension funds services
EA109	Real estate activities
EA110	Legal activities
EA111	Accounting, bookkeeping, fiscal advisory, and other accounting-related activities
EA112	Activities related to consulting in financial management, human resources, marketing, main offices,

	and related
EA113	Architecture and engineering-related activities; technical testing and analysis
EA114	Scientific research and development activities
EA115	Advertising and market research
EA116	Other professional, scientific and technical activities
EA117	Veterinary activities
EA118	Activities related to renting and leasing of tangible and intangible non-financial assets
EA119	Employment-related activities
EA120	Activities of travel agencies, tour operators, reservation services and related activities
EA121	Security and investigation-related activities
EA122	General building cleaning and landscaping activities
EA123	Administrative and office support activities, and other business support activities
EA124	Public administration, implementation of community economic and social policies
EA125	Provision of services to the community in general
EA126	Activities related to compulsory social security schemes
EA127	Teaching
EA128	Activities related to human health care and and social assistance
EA129	Artistic, entertainment and recreational activities
EA130	Activities of associations
EA131	Repair of computers, personal belongings and household goods
EA132	Activities related to washing, drying and cleaning fabric and leather garments
EA133	Hairdressing and other beauty treatment activities
EA134	Funerals and other related activities
EA135	Other services activities (not previously classified)
EA136	Activities of households as employers of domestic staff

Annex B3. Assets included in the GFCF Matrix and NPCR correlative.

	<i>NPCR - CODE</i>	<i>Name</i>
Gross Fixed Capital Formation by type:		
A. Dwellings.	NP121	Residential buildings
B. Other buildings and structures.		
No residential buildings.	NP122	Non Residential buildings
Other structures and land improvements.	NP094	Metal products for structural use, tanks, reservoirs, metal containers, and steam generators
	NP123	Roads and railways
	NP124	Construction of public service projects and other civil engineering works
C. Machinery and Equipment.		
Transportation equipment.	NP107	Motor vehicles, car bodies, trailers and semi-trailers
	NP108	Parts and components for motor vehicles
	NP109	Other types of transport equipment
Communication equipment.	NP097	Communications equipment, and consumer electronic devices
	NP100	Optical, photographic instruments, magnetic and optical supports
Computers and related equipment.	NP096	Electronic components and switchboards, computers and peripheral equipment
Other machinery and equipment (includes weapons and military).	NP095	Other metal products
	NP098	Measuring, testing, navigation and control equipment, and watches
	NP099	Irradiation, electronic, medical and therapeutic equipment
	NP101	Motors, generators, electric transformers, distribution devices, and devices for the control of electrical energy
	NP102	Cells, batteries, storage batteries, cables and wiring devices
	NP103	Electrical lighting equipment
	NP104	Refrigerators, stoves, washers and other household appliances
	NP105	Other types of electrical equipment
	NP106	Machinery for general and special use, parts and components
	NP110	Wooden furniture
	NP111	Furniture made with other types of materials, except rock, concrete, and ceramics
NP112	Medical and dental instruments and supplies	
NP113	Other manufactured products	
D. Cultivated Biological Resources.		
Animal resources.	NP028	Beef cattle
	NP029	Pigs
	NP030	Live chickens
	NP031	Other live animals

	NP001	Beans
	NP002	Corn
	NP003	Wheat
	NP004	Other cereals
	NP005	Legumes and other oil seeds
	NP006	Rice
	NP007	Watermelon
	NP008	Cantaloupe
	NP009	Onion
	NP010	Chayote
	NP011	Potatoes
	NP012	Roots and tubers n.e.c.
	NP013	Garden produce n.e.c.
<i>Trees, crops, vegetable resources and other recurrent products.</i>	NP014	Sugarcane
	NP015	Flowers
	NP016	Foliage
	NP017	Bananas
	NP018	Plantains
	NP019	Pineapple
	NP020	Oil palm
	NP021	Coffee beans
	NP022	Mangoes
	NP023	Oranges
	NP024	Heart of palm
	NP025	Other products of non-perennial and perennial plants n.e.c.
	NP026	Other fruits, nuts and other oleaginous fruits
	NP027	Live plants and roots
E. Intellectual property products.		
<i>Research and development (includes patented rights).</i>	NP159	<i>Research and development services</i>
<i>Software programs and databases.</i>	NP145	<i>Information services, programing and informatic consultancy, software program edition and other</i>
<i>Originals for entertainments, literature or artistic.</i>	NP072	<i>Products related to publishing, printing and recording, except computer programs</i>
	NP141	<i>radi, tv shows, movies and others</i>