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INTERREGIONAL INPUT-OUTPUT TABLE FOR COSTA RICA: DATABASE DESCRIPTION AND CONSTRUCTION STEPS BASED ON THE IIOA METHOD

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Abstract. This technical note outlines the hypotheses and methodologies employed in estimating the Interregional Input-Output Table for Costa Rica (IIOT-CRI) for 2019. The construction process involves utilizing limited information to develop a comprehensive interregional input-output database, shedding light on the intricate spatial linkages within the Costa Rican economy across its 82 cantons and 27 sectors. We provide detailed insights into the methodological procedures adopted for generating the interregional system and the accompanying database.

1. Introduction

This note presents the main hypotheses and procedures applied to estimate the interregional input-output table for Costa Rica (IIOT-CRI) for 2019. A fully specified interregional input-output database is developed under conditions of limited information. The IIOT-CRI provides the opportunity to understand better the spatial linkage structure associated with the Costa Rican economy in the context of its 82 cantons and 27 sectors.

We provide detailed insights into the methodological procedures adopted for generating the interregional system and the accompanying database. This note presents also presents initial illustrative indicators from the estimated database, revealing some of the main structural features of Costa Rican's economy.

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The estimation of the IIOT-CRI is based on the Interregional Input-Output Adjustment System (IIOAS) method.[4] The IIOAS method is developed to estimate interregional input-output systems under conditions of limited information.[5] We succinctly outline the primary tasks and working hypotheses integral to the treatment of the initial database used in the construction process of IIOT-CRI.

Procedural steps of the IIOAS method involves (i) constructing the national input-output table for Costa Rica, (ii) disaggregating national data into 82 regions using specific variables to estimate regional values, (iii) estimating interregional trade matrices that guarantee balance between regional demand and supply, and (iv) building the interregional input-output system. These steps summarize a comprehensive description of the method, as thoroughly expounded by Haddad et al. (2017) and Haddad et al. (2023).

2. Interregional Input-Output Table for Costa Rica

2.1 Initial Data Treatment

We have used data from national and regional accounts provided by the *Instituto Nacional de Estadística y Censos* and *Banco Central de Costa Rica* for 2019. The data consist mainly of the Supply and Use Tables (SUT) at the national level and regional data on sectoral production and employment:

- **Supply and Use Tables**: *Cuadro de oferta y utilización 2019. Cuentas Nacionales período de referencia 2017, Banco Central de Costa Rica*. Link: https://www.bccr.fi.cr/ indicadores-economicos/cuentas-nacionales-periodo-de-referencia-2017.

[4] This approach has been applied for distinct interregional systems: interisland model for the Azores (Haddad et al., 2015), interregional models for Brazil (Haddad et al., 2017), Colombia (Haddad et al., 2018), Egypt (Haddad et al., 2016), Greece (Haddad et al., 2020), Lebanon (Haddad, 2014), Mexico (Haddad et al., 2020b), Morocco (Haddad et al., 2020c), Paraguay (Haddad et al. 2021), Ukraine (Haddad et al., 2022), and Croacia (Haddad et al., 2023).

[5] For surveys on recent approaches to non-survey estimation of inter-regional trade systems, refer to Gabela (2020) and Hewings & Oosterhaven (2021).

- **Regional data**:

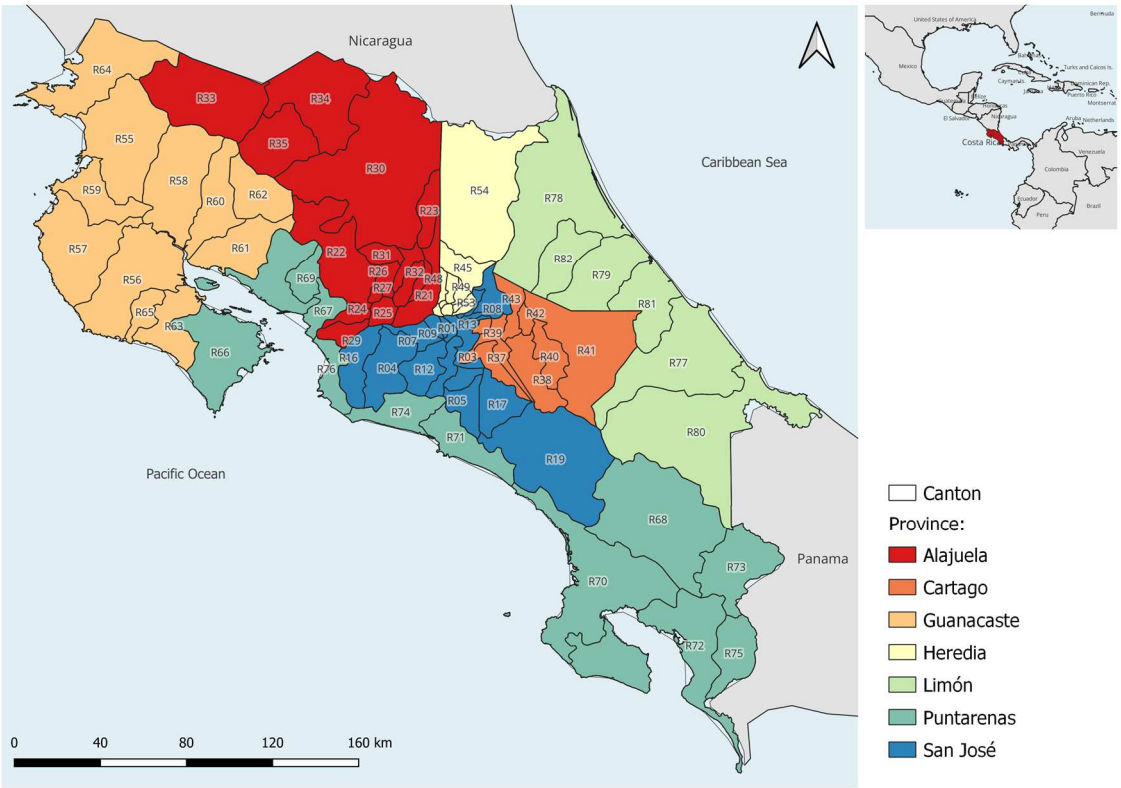
  - ✓ **Regional value added**: *Valor agregado por cantón y actividad económica 2020, PIB Cantonal, Indicadores Económicos, Banco Central de Costa Rica*. Link: https://www.bccr.fi.cr/indicadores-economicos.
  - ✓ **Foreign export**: *Exportación and importación por cantón 2020, PIB Cantonal, Indicadores Económicos, Banco Central de Costa Rica*. Link: https://www.bccr.fi.cr/indicadores-economicos.
  - ✓ **Employment**: *Población en fuerza de trabajo, 2019. Estadísticas Demográficas, Instituto Nacional de Estadística y Censos* (INEC). Link: https://inec.cr/estadisticas-fuentes/estadisticas-demograficas.

The Supply and Use Table is employed to derive an absorption matrix encompassing primary flows, margins, and both domestic and imported taxes. We employ the regional databases to regionalize production vectors (gross output, value-added, intermediate consumption) derived from the Supply and Use Table across 27 economic activities. Then, we disaggregate the national data into the 82 regions of Costa Rica (Figure 1). Table A1 presents the list of sectors and Table A2 shows the list of regions (in the Appendix).

We use shares from specific variables to estimate the regional value for the final demand (Table 1). The regional shares for regionalizing gross capital formation are computed based on construction value-added data per canton. Household consumption and non-profit institutions serving households (NPISH) consumption use the regional shares calculated from total value-added per canton. Meanwhile, government consumption is derived from the value-added of public administration. The regional shares of foreign exports follow the export data per canton provided by the Central Bank of Costa Rica.

The value added data per canton and economic activity, provided by the Central Bank of Costa Rica, is utilized to calculate regional shares for the regionalization of production vectors (gross output and value added). Table 2 and Figure 2 display the regional shares categorized by economic activity.

Figure 1. List of Regions in the Interregional Input-Output Table for Costa Rica



Note: The label for the regions can be found in Table A2 in the Appendix.

Table 1. Shares used to Estimate the Final Demand Components: Costa Rica, 2019

Region	ID provincia	Provincia	ID Cantón	Cantón	Gross capital formation	Household consumption	Government consumption	NPISH consumption	Foreign export
R01	1	San José	101	San José	12.81	25.25	44.71	25.25	35.73
R02	1	San José	102	Escazú	4.61	2.78	1.60	2.78	0.67
R03	1	San José	103	Desamparados	1.19	2.30	1.33	2.30	2.42
R04	1	San José	104	Puriscal	0.44	0.31	0.32	0.31	0.10
R05	1	San José	105	Tarrazú	0.21	0.20	0.13	0.20	0.07
R06	1	San José	106	Aserrí	0.22	0.39	0.22	0.39	0.14
R07	1	San José	107	Mora	0.23	0.34	0.17	0.34	0.14
R08	1	San José	108	Goicoechea	2.03	2.11	5.03	2.11	1.30
R09	1	San José	109	Santa Ana	5.42	2.14	0.38	2.14	0.60
R10	1	San José	110	Alajuelita	0.50	0.66	0.20	0.66	0.48
R11	1	San José	111	Vázquez de Coronado	0.23	0.89	0.18	0.89	0.81
R12	1	San José	112	Acosta	0.16	0.15	0.13	0.15	0.06
R13	1	San José	113	Tibás	0.90	1.00	0.61	1.00	0.61
R14	1	San José	114	Moravia	0.59	0.83	1.33	0.83	0.60
R15	1	San José	115	Montes de Oca	2.49	2.27	3.02	2.27	0.42
R16	1	San José	116	Turrubares	0.11	0.06	0.08	0.06	0.00
R17	1	San José	117	Dota	0.09	0.09	0.24	0.09	0.00
R18	1	San José	118	Curridabat	3.14	1.61	1.50	1.61	0.70
R19	1	San José	119	Pérez Zeledón	1.40	1.43	1.53	1.43	0.27
R20	1	San José	120	León Cortés Castro	0.08	0.21	0.06	0.21	0.01
R21	2	Alajuela	201	Alajuela	13.41	9.88	4.92	9.88	24.15
R22	2	Alajuela	202	San Ramón	0.94	1.08	0.93	1.08	0.36
R23	2	Alajuela	203	Grecia	1.16	1.10	0.42	1.10	1.07
R24	2	Alajuela	204	San Mateo	0.11	0.10	0.05	0.10	0.01
R25	2	Alajuela	205	Atenas	0.24	0.30	0.19	0.30	0.08
R26	2	Alajuela	206	Naranjo	0.30	0.45	0.22	0.45	0.23
R27	2	Alajuela	207	Palmares	0.32	0.44	0.18	0.44	0.30
R28	2	Alajuela	208	Poás	0.22	0.38	0.13	0.38	0.16
R29	2	Alajuela	209	Orotina	0.21	0.25	0.17	0.25	0.18
R30	2	Alajuela	210	San Carlos	1.81	2.68	1.83	2.68	1.71
R31	2	Alajuela	211	Zarcero	0.16	0.27	0.11	0.27	0.04
R32	2	Alajuela	212	Sarchí	0.14	0.25	0.14	0.25	0.12
R33	2	Alajuela	213	Upala	0.48	0.45	0.50	0.45	0.08
R34	2	Alajuela	214	Los Chiles	0.16	0.31	0.44	0.31	0.01
R35	2	Alajuela	215	Guatuso	0.21	0.16	0.14	0.16	0.03
R36	2	Alajuela	216	Río Cuarto	0.29	0.16	0.06	0.16	0.15
R37	3	Cartago	301	Cartago	2.75	3.63	2.10	3.63	5.73
R38	3	Cartago	302	Paraíso	0.44	0.82	0.29	0.82	0.40
R39	3	Cartago	303	La Unión	1.97	1.82	0.51	1.82	0.82
R40	3	Cartago	304	Jiménez	0.15	0.26	0.13	0.26	0.03
R41	3	Cartago	305	Turrialba	0.40	0.87	0.60	0.87	0.16
R42	3	Cartago	306	Alvarado	0.13	0.13	0.09	0.13	0.03
R43	3	Cartago	307	Oreamuno	0.24	0.35	0.15	0.35	0.17
R44	3	Cartago	308	El Guarco	1.30	0.68	0.12	0.68	0.39
R45	4	Heredia	401	Heredia	4.19	5.33	2.81	5.33	8.99
R46	4	Heredia	402	Barva	0.43	0.57	0.26	0.57	0.18
R47	4	Heredia	403	Santo Domingo	1.68	0.90	1.12	0.90	0.64
R48	4	Heredia	404	Santa Bárbara	0.39	0.36	0.09	0.36	0.11
R49	4	Heredia	405	San Rafael	0.69	0.48	0.17	0.48	0.11
R50	4	Heredia	406	San Isidro	0.37	0.36	0.16	0.36	0.05
R51	4	Heredia	407	Belén	3.88	1.75	0.26	1.75	0.34
R52	4	Heredia	408	Flores	0.29	0.53	0.99	0.53	0.16
R53	4	Heredia	409	San Pablo	0.52	0.45	0.11	0.45	0.06
R54	4	Heredia	410	Sarapiquí	0.95	0.83	0.54	0.83	0.48
R55	5	Guanacaste	501	Liberia	2.53	1.84	1.67	1.84	0.26
R56	5	Guanacaste	502	Nicoya	1.50	0.57	0.68	0.57	0.13
R57	5	Guanacaste	503	Santa Cruz	3.21	0.77	0.73	0.77	0.10
R58	5	Guanacaste	504	Bagaces	0.38	0.49	0.18	0.49	0.07
R59	5	Guanacaste	505	Carrillo	1.69	0.55	0.25	0.55	0.19
R60	5	Guanacaste	506	Cañas	0.34	0.44	0.32	0.44	0.29
R61	5	Guanacaste	507	Abangares	0.17	0.26	0.17	0.26	0.08
R62	5	Guanacaste	508	Tilarán	0.26	0.45	0.23	0.45	0.08
R63	5	Guanacaste	509	Nandayure	0.13	0.10	0.14	0.10	0.00
R64	5	Guanacaste	510	La Cruz	0.27	0.18	0.48	0.18	0.14
R65	5	Guanacaste	511	Hojancha	0.19	0.06	0.09	0.06	0.00
R66	6	Puntarenas	601	Puntarenas	2.71	1.75	2.11	1.75	0.92
R67	6	Puntarenas	602	Esparza	0.52	0.34	0.23	0.34	0.23
R68	6	Puntarenas	603	Buenos Aires	0.43	0.40	0.32	0.40	0.05
R69	6	Puntarenas	604	Montes de Oro	0.11	0.14	0.14	0.14	0.02
R70	6	Puntarenas	605	Osa	0.82	0.44	0.45	0.44	0.02
R71	6	Puntarenas	606	Quepos	0.48	0.48	0.64	0.48	0.15
R72	6	Puntarenas	607	Golfito	0.42	0.39	0.75	0.39	0.18
R73	6	Puntarenas	608	Coto Brus	0.60	0.34	0.38	0.34	0.03
R74	6	Puntarenas	609	Parrita	0.19	0.21	0.16	0.21	0.04
R75	6	Puntarenas	610	Corredores	0.39	0.46	0.94	0.46	0.37
R76	6	Puntarenas	611	Garabito	0.87	0.35	0.30	0.35	0.10
R77	7	Limón	701	Limón	0.97	1.36	1.92	1.36	0.67
R78	7	Limón	702	Pococí	1.48	1.70	1.17	1.70	1.70
R79	7	Limón	703	Siquirres	0.66	1.07	0.52	1.07	0.94
R80	7	Limón	704	Talamanca	0.29	0.32	0.35	0.32	0.01
R81	7	Limón	705	Matina	0.28	0.61	0.31	0.61	0.19
R82	7	Limón	706	Guácimo	0.33	0.52	0.70	0.52	0.40
				Costa Rica	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**

Table 2. Regional Shares of Sectoral Output: Costa Rica, 2019 (%)

Region	Cantón	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27
R01	San José	0.40	0.00	0.63	0.00	1.86	10.91	14.99	28.41	47.34	6.85	1.18	4.16	20.80	5.53	12.81	24.83	16.56	21.07	26.74	36.63	10.46	59.09	60.48	44.71	10.65	37.68	27.20
R02	Escazú	0.18	0.00	0.10	0.00	0.00	0.27	0.91	0.12	0.57	0.09	0.02	0.03	1.29	0.43	4.61	5.85	2.51	2.28	9.21	3.67	4.38	1.03	0.56	1.60	1.58	1.94	5.90
R03	Desamparados	0.36	0.06	1.45	0.00	0.00	0.88	7.12	6.64	2.80	0.75	0.01	1.34	3.07	0.64	1.19	3.85	3.01	1.68	3.22	3.35	4.03	1.67	1.40	1.33	2.98	1.39	2.80
R04	Puriscal	0.35	0.91	0.56	0.00	0.24	0.03	1.42	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.44	0.27	0.48	0.11	0.25	0.35	0.56	0.08	0.48	0.32	0.49	0.33	0.44
R05	Tarrazú	1.17	0.14	5.00	0.00	0.03	0.86	1.07	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.21	0.08	0.19	0.08	0.11	0.22	0.14	0.09	0.02	0.13	0.20	0.15	0.09
R06	Aserrí	0.23	0.09	0.95	0.00	0.00	0.10	1.54	0.01	0.00	0.06	0.00	0.02	0.23	0.08	0.22	0.36	0.52	0.40	0.27	0.72	1.14	0.28	0.15	0.22	0.69	0.25	0.19
R07	Mora	0.03	0.97	0.15	0.00	1.11	0.56	0.47	0.00	0.00	0.00	0.00	0.16	0.05	0.24	0.23	0.19	0.20	0.16	0.24	0.79	0.72	0.11	0.13	0.17	0.59	0.41	0.47
R08	Goicoechea	0.01	0.33	0.04	0.00	0.00	5.61	0.38	0.00	0.51	0.67	0.05	0.04	0.79	0.53	2.03	3.26	1.37	0.96	1.62	2.71	3.32	0.98	0.58	5.03	1.90	2.86	1.51
R09	Santa Ana	0.15	0.03	0.25	0.00	4.48	0.05	0.66	0.03	0.00	0.66	0.17	1.63	1.48	1.33	5.42	3.14	1.42	0.62	5.68	2.04	3.17	5.46	0.59	0.38	0.87	0.55	2.71
R10	Alajuelita	0.01	0.01	0.00	0.00	0.00	0.16	4.04	0.13	0.00	0.04	0.00	0.00	0.23	0.35	0.50	0.51	1.04	3.13	0.27	0.54	1.26	0.54	0.23	0.20	1.06	0.67	0.67
R11	Vázquez de Coronado	0.02	0.93	0.11	0.00	0.00	0.17	5.22	0.25	0.00	0.46	0.00	0.00	0.52	0.29	0.23	0.59	1.94	6.76	0.53	1.01	1.06	0.67	0.11	0.18	0.93	0.83	0.97
R12	Acosta	0.34	0.55	1.13	0.00	0.00	0.28	0.54	0.02	0.00	0.01	0.00	0.13	0.02	0.03	0.16	0.06	0.25	0.03	0.10	0.17	0.19	0.05	0.16	0.13	0.32	0.15	0.09
R13	Tibás	0.01	0.00	0.06	0.00	0.00	0.09	1.62	0.03	0.00	4.02	0.00	0.88	2.29	0.24	0.90	1.62	0.71	0.97	0.71	1.48	2.13	0.53	0.36	0.61	1.17	0.88	1.76
R14	Moravia	0.04	0.05	0.11	0.00	0.00	0.41	2.10	1.12	0.00	0.38	0.01	8.66	0.45	0.20	0.59	0.66	0.40	0.65	0.57	1.52	2.14	0.63	0.16	1.33	1.22	0.32	1.48
R15	Montes de Oca	0.00	0.01	0.00	0.00	1.14	0.09	1.16	0.55	1.02	0.01	0.00	0.00	0.33	0.44	2.49	1.03	0.76	3.51	5.75	2.29	2.54	2.03	0.24	3.02	8.18	1.70	2.73
R16	Turrubares	0.06	0.99	0.16	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.01	0.08	0.04	0.02	0.04	0.09	0.01	0.09	0.08	0.07	0.05	0.17
R17	Dota	0.58	0.20	1.73	2.13	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.09	0.02	0.07	0.13	0.04	0.09	0.07	0.02	0.01	0.24	0.10	0.06	0.06
R18	Curridabat	0.01	0.00	0.02	0.00	0.16	0.93	0.56	0.00	0.61	1.87	0.01	0.34	0.95	0.37	3.14	1.98	1.26	1.60	2.82	1.70	3.66	1.56	0.20	1.50	1.32	0.43	4.23
R19	Pérez Zeledón	1.80	3.15	5.00	0.00	1.26	2.00	3.45	0.00	0.00	0.00	0.04	0.00	1.23	0.55	1.40	1.70	1.34	2.69	0.65	1.21	1.45	0.46	0.46	1.53	2.45	2.10	1.51
R20	León Cortés Castro	0.70	0.06	3.29	0.00	0.00	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.08	0.05	0.54	0.12	0.07	0.06	0.13	0.09	0.01	0.06	0.20	0.11	0.10
R21	Alajuela	1.69	5.31	2.93	0.00	13.88	31.93	1.47	13.04	0.22	30.85	54.26	45.34	12.74	6.28	13.41	7.24	13.17	4.72	6.00	4.74	7.94	2.98	8.81	4.92	7.35	4.89	6.21
R22	San Ramón	0.70	4.69	2.50	0.00	1.01	0.89	2.86	0.32	0.00	0.01	0.00	0.00	0.82	2.85	0.94	1.15	1.08	0.71	0.92	0.89	1.41	0.49	0.32	0.93	1.69	1.45	0.98
R23	Grecia	0.53	4.31	1.92	0.00	0.87	2.01	3.71	0.57	0.00	0.04	0.00	16.07	0.92	0.70	1.16	1.30	1.61	1.53	0.80	1.00	1.21	0.31	0.36	0.42	1.13	1.30	1.06
R24	San Mateo	0.08	0.45	0.24	0.00	0.01	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.11	0.01	1.08	0.01	0.03	0.03	0.10	0.02	0.01	0.05	0.09	0.03	0.24
R25	Atenas	0.36	0.64	1.00	0.00	1.72	0.06	0.00	0.23	0.00	0.00	0.07	2.48	0.29	1.25	0.24	0.36	0.33	0.21	0.09	0.32	0.49	0.04	0.02	0.19	0.45	0.16	0.35
R26	Naranjo	0.51	0.73	1.98	0.15	0.00	0.61	2.53	0.00	0.00	1.15	0.00	0.02	0.87	0.70	0.30	0.46	0.74	0.27	0.36	0.43	0.68	0.26	0.28	0.22	0.57	0.18	0.56
R27	Palmares	0.21	0.54	0.50	0.00	0.20	0.47	0.26	0.01	0.00	0.19	0.00	0.05	2.03	0.02	0.32	0.69	0.45	0.36	0.17	0.41	0.76	0.15	0.16	0.18	0.66	0.31	0.35
R28	Poás	0.73	0.81	1.27	0.00	0.26	0.18	0.64	0.32	0.00	0.00	0.00	0.04	0.12	4.29	0.22	0.23	0.48	0.15	0.11	0.42	0.47	0.10	0.08	0.13	0.44	0.12	0.17
R29	Orotina	0.27	1.01	0.61	0.00	0.05	0.03	0.39	0.00	0.00	0.04	0.00	0.00	0.99	0.07	0.21	0.16	0.84	0.37	0.06	0.20	0.37	0.06	0.05	0.17	0.33	0.09	0.37
R30	San Carlos	9.85	18.10	8.64	0.28	2.98	2.63	1.14	0.15	1.51	0.00	0.00	0.00	3.09	4.14	1.81	2.47	4.26	6.05	0.80	1.72	1.88	0.76	1.08	1.83	3.14	2.36	2.84
R31	Zarcero	0.78	1.91	0.56	0.00	0.08	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.16	0.20	1.38	0.05	0.07	0.12	0.22	0.40	0.01	0.11	0.15	0.07	0.26
R32	Sarchí	0.47	0.25	0.64	0.00	0.00	0.07	0.02	0.00	0.00	0.00	0.00	0.05	0.47	1.78	0.14	0.09	0.06	0.51	0.05	0.19	0.52	0.01	0.06	0.14	0.34	0.25	0.23
R33	Upala	2.10	4.31	2.17	0.00	0.77	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.44	0.48	0.12	0.22	0.24	0.08	0.32	0.34	0.01	0.13	0.50	0.86	0.49	0.27
R34	Los Chiles	4.20	2.34	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.03	0.16	0.08	0.19	0.03	0.03	0.09	0.20	0.01	0.02	0.44	0.45	0.41	0.14
R35	Guatuso	0.68	2.57	0.55	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.21	0.12	0.15	0.11	0.03	0.11	0.09	0.21	0.02	0.14	0.24	0.10	0.12
R36	Río Cuarto	2.47	0.00	0.84	0.00	1.04	0.02	0.00	4.09	0.00	0.00	0.00	0.11	0.00	0.00	0.29	0.02	0.12	0.18	0.00	0.08	0.10	0.03	0.01	0.06	0.20	0.01	0.07
R37	Cartago	2.69	0.61	2.14	0.00	5.87	2.55	10.20	8.69	28.96	22.93	11.06	2.73	11.83	2.06	2.75	3.88	2.08	1.72	2.37	2.82	3.65	1.28	2.04	2.10	4.87	4.14	2.44
R38	Paraíso	2.48	0.35	2.01	0.00	0.13	0.56	0.09	0.01	0.00	0.05	0.00	0.00	1.49	5.45	0.44	1.05	1.01	0.28	0.65	0.71	0.92	0.11	0.79	0.29	0.74	0.26	0.46
R39	La Unión	0.10	0.10	0.38	0.00	0.00	0.81	2.74	22.22	0.00	0.06	0.01	0.92	0.72	2.58	1.97	1.90	0.95	0.69	4.59	2.35	2.67	3.16	0.50	0.51	2.26	1.51	1.53
R40	Jiménez	0.20	0.12	0.73	0.00	0.00	0.38	0.09	0.03	0.00	0.00	0.00	0.00	0.02	4.91	0.15	0.04	0.06	0.06	0.08	0.13	0.19	0.02	0.14	0.13	0.19	0.04	0.26
R41	Turrialba	0.83	1.64	1.52	0.00	0.32	0.31	0.84	0.00	0.00	0.00	0.00	0.00	3.48	1.81	0.40	0.99	1.49	0.31	0.42	0.71	0.90	0.28	0.30	0.60	1.41	1.12	0.91

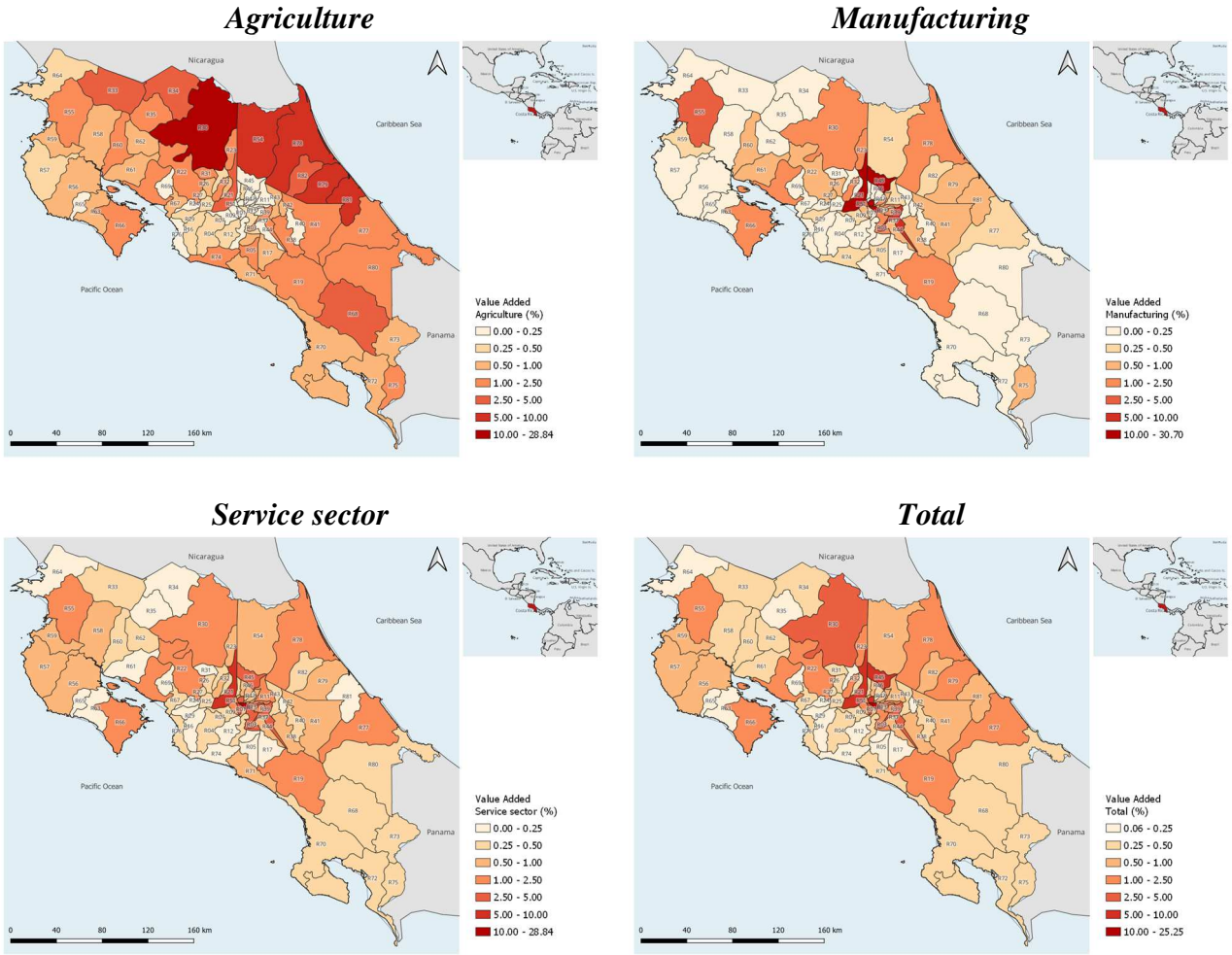
Source: Interregional Input-Output Table for Costa Rica, 2019.

Table 2. Regional Shares of Sectoral Output: Costa Rica, 2019 (%) – Cont.

Region	Cantón	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27
R42	Alvarado	0.93	0.63	0.37	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.55	0.13	0.12	0.06	0.09	0.06	0.13	0.10	0.03	0.03	0.09	0.21	0.01	0.08
R43	Oreamuno	0.74	0.89	0.51	0.00	0.00	0.43	0.02	0.00	0.00	0.00	0.02	0.00	0.21	0.16	0.24	0.29	0.34	0.62	0.12	0.43	0.73	0.08	0.46	0.15	0.41	0.22	0.51
R44	El Guarco	0.16	0.16	0.39	0.00	0.00	0.28	0.13	0.92	0.00	0.03	0.51	0.28	1.35	0.66	1.30	0.52	0.56	0.28	0.15	0.63	1.23	0.15	0.20	0.12	1.39	1.83	0.25
R45	Heredia	0.06	0.30	0.16	0.00	1.07	2.73	14.50	0.87	8.39	9.08	32.54	13.24	2.47	1.43	4.19	4.88	5.76	1.20	15.58	3.58	6.34	4.05	1.98	2.81	5.14	3.62	3.94
R46	Barva	0.37	0.20	0.37	0.00	0.00	0.17	0.45	0.05	0.00	0.01	0.00	0.26	0.27	2.33	0.43	0.46	0.85	0.22	0.22	0.94	1.13	0.22	0.19	0.26	0.84	0.92	0.35
R47	Santo Domingo	0.10	0.00	0.22	0.00	0.00	1.84	1.64	0.39	8.00	1.16	0.00	0.00	1.91	0.18	1.68	1.22	0.91	0.41	0.26	1.08	1.39	0.23	0.23	1.12	1.36	0.60	0.62
R48	Santa Bárbara	0.14	0.21	0.43	0.00	1.43	0.10	0.01	0.00	0.00	0.05	0.00	0.00	0.45	0.01	0.39	0.41	0.47	0.26	0.22	0.56	0.88	0.20	0.40	0.09	0.54	0.14	0.43
R49	San Rafael	0.06	0.10	0.21	0.00	0.00	0.14	0.01	0.00	0.00	0.04	0.00	0.01	0.07	0.17	0.69	0.40	0.41	0.32	0.33	0.90	1.48	0.62	0.20	0.17	0.53	0.34	0.83
R50	San Isidro	0.13	0.03	0.11	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.04	0.37	0.24	0.55	0.09	0.70	0.46	0.76	0.40	0.07	0.16	0.60	0.51	0.31
R51	Belén	0.12	0.01	0.04	0.00	5.32	2.32	0.00	0.43	0.00	5.86	0.00	0.12	5.60	0.86	3.88	1.91	0.27	0.56	0.47	0.62	0.98	4.37	6.95	0.26	0.68	0.36	0.69
R52	Flores	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.13	0.00	0.00	0.39	0.02	0.29	2.46	0.78	0.10	0.15	0.62	0.53	0.07	0.07	0.99	0.36	0.05	0.61
R53	San Pablo	0.03	0.00	0.10	0.00	0.00	0.32	0.76	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.52	0.43	1.24	0.22	0.56	0.97	1.41	0.12	0.25	0.11	0.35	0.13	0.61
R54	Sarapiquí	7.34	4.25	2.32	0.00	0.65	0.53	0.67	0.00	0.00	0.00	0.00	0.36	0.09	3.97	0.95	0.28	0.86	0.53	0.37	0.41	0.44	0.17	0.21	0.54	1.13	0.32	0.45
R55	Liberia	0.84	1.29	3.53	0.00	0.46	9.86	0.33	0.00	0.00	0.00	0.00	0.00	0.14	6.51	2.53	1.64	1.09	2.43	0.31	1.09	1.05	0.69	0.76	1.67	2.06	1.96	1.18
R56	Nicoya	0.32	1.91	0.51	0.00	1.58	0.09	0.08	0.00	0.00	0.00	0.01	0.00	0.18	0.15	1.50	0.37	0.42	1.42	0.24	0.49	0.91	0.09	0.13	0.68	0.98	1.10	0.40
R57	Santa Cruz	0.16	1.13	0.44	0.00	0.33	0.08	0.03	0.01	0.00	0.00	0.00	0.00	0.19	0.56	3.21	0.51	0.83	3.50	0.29	0.73	1.11	0.06	0.37	0.73	0.97	0.34	1.14
R58	Bagaces	0.59	1.83	2.30	0.00	3.79	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	8.47	0.38	0.14	0.87	0.16	0.05	0.16	0.24	0.12	0.22	0.18	0.31	0.13	0.14
R59	Carrillo	0.82	0.31	1.97	0.12	0.37	0.85	0.21	0.03	0.00	0.00	0.00	0.02	0.06	0.30	1.69	0.33	0.58	2.91	0.17	0.33	0.78	0.12	0.51	0.25	0.56	0.19	0.39
R60	Cañas	0.50	2.07	2.71	13.30	3.09	1.45	0.09	0.00	0.00	0.00	0.00	0.00	0.65	0.85	0.34	0.28	1.10	0.17	0.10	0.27	0.33	0.07	0.21	0.32	0.47	0.42	0.21
R61	Abangares	0.18	2.01	0.42	0.00	3.15	0.13	0.00	0.00	0.00	0.00	0.00	0.00	2.92	0.12	0.17	0.17	0.46	0.05	0.04	0.12	0.18	0.02	0.07	0.17	0.23	0.14	0.12
R62	Tilarán	0.08	2.20	0.36	0.00	1.38	0.07	0.00	0.45	0.00	0.00	0.00	0.36	0.01	7.74	0.26	0.12	0.19	0.63	0.05	0.20	0.31	0.09	0.10	0.23	0.31	0.18	0.51
R63	Nandayure	0.44	0.99	0.41	0.00	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.13	0.04	0.14	0.15	0.03	0.06	0.09	0.00	0.05	0.14	0.13	0.09	0.41
R64	La Cruz	0.42	0.49	0.19	1.90	0.00	0.40	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.27	0.09	0.14	0.59	0.03	0.12	0.12	0.01	0.17	0.48	0.35	0.15	0.10
R65	Hojancha	0.05	0.32	0.10	0.00	0.23	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.19	0.05	0.04	0.06	0.02	0.04	0.06	0.02	0.03	0.09	0.09	0.06	0.20
R66	Puntarenas	1.23	4.25	2.30	23.58	1.78	4.39	1.94	7.53	0.06	0.17	0.00	0.00	1.36	0.78	2.71	1.76	2.45	3.28	0.43	1.19	1.48	0.26	0.41	2.11	2.13	2.68	1.96
R67	Esparza	0.02	0.53	0.08	46.40	0.00	0.05	0.51	0.83	0.00	0.00	0.00	0.00	0.23	0.28	0.52	0.22	1.13	0.77	0.13	0.30	0.50	0.02	0.06	0.23	0.54	0.34	0.20
R68	Buenos Aires	2.84	2.33	1.84	0.00	0.00	0.05	0.16	0.00	0.00	0.00	0.00	0.00	0.25	0.07	0.43	0.11	0.43	0.18	0.11	0.25	0.29	0.04	0.32	0.32	0.90	0.43	0.61
R69	Montes de Oro	0.02	0.56	0.08	0.00	0.72	0.31	0.46	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.11	0.04	0.30	0.34	0.05	0.12	0.27	0.03	0.01	0.14	0.16	0.12	0.27
R70	Osa	0.96	0.48	1.38	0.00	0.63	0.01	0.32	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.82	0.20	0.21	1.58	0.07	0.22	0.39	0.12	0.09	0.45	0.47	1.62	0.77
R71	Quepos	0.56	0.13	1.05	9.62	0.60	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.11	0.48	0.29	0.61	3.00	0.24	0.29	0.49	0.07	0.40	0.64	0.52	0.59	0.73
R72	Golfito	0.86	0.91	1.58	1.68	0.47	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.42	0.31	0.46	0.63	0.08	0.35	0.46	0.12	0.09	0.75	0.76	0.90	0.22
R73	Coto Brus	0.52	2.13	2.23	0.00	0.57	0.42	0.46	0.00	0.00	0.00	0.00	0.00	0.19	0.09	0.60	0.25	0.37	0.09	0.13	0.24	0.27	0.12	0.04	0.38	0.79	0.57	0.29
R74	Parrita	1.24	0.62	1.53	0.00	0.07	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.06	0.19	0.09	0.16	0.11	0.07	0.15	0.19	0.02	0.07	0.16	0.29	0.16	0.27
R75	Corredores	1.70	0.35	3.21	0.00	0.00	1.64	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.19	0.39	0.21	0.40	0.14	0.11	0.30	0.51	0.07	0.03	0.94	0.74	0.83	0.17
R76	Garabito	0.04	0.26	0.15	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.06	0.87	0.28	0.33	1.95	0.12	0.22	0.58	0.04	0.30	0.30	0.36	0.15	1.15
R77	Limón	3.02	0.33	0.59	0.84	0.89	0.14	1.52	0.02	0.00	0.00	0.00	0.00	0.96	0.49	0.97	2.12	4.06	0.80	0.27	1.01	1.18	0.22	1.02	1.92	2.13	2.33	1.29
R78	Pococí	8.88	3.70	3.58	0.00	15.43	0.42	0.04	1.34	0.00	0.00	0.01	0.16	3.93	0.63	1.48	2.46	1.52	1.83	0.61	1.05	1.74	0.32	1.11	1.17	2.18	1.51	0.88
R79	Siquirres	8.53	1.18	1.78	0.00	4.60	0.75	0.00	0.00	0.00	9.10	0.00	0.00	0.06	5.83	0.66	0.58	1.08	0.55	0.28	0.42	0.50	0.35	0.35	0.52	1.25	1.11	0.78
R80	Talamanca	1.76	0.13	0.71	0.00	0.39	0.02	0.00	0.11	0.00	0.00	0.00	0.00	0.03	0.19	0.29	0.14	0.32	1.75	0.05	0.13	0.21	0.04	0.06	0.35	0.66	0.30	0.47
R81	Matina	10.22	0.26	1.75	0.00	11.14	0.07	1.30	0.00	0.00	0.00	0.00	0.00	0.96	0.07	0.28	0.15	0.37	0.40	0.06	0.19	0.23	0.03	0.13	0.31	0.62	0.19	0.36
R82	Guácimo	4.68	1.21	1.24	0.00	0.21	0.45	0.00	0.00	0.00	3.18	0.00	0.00	0.21	0.22	0.33	0.79	0.52	0.08	0.12	0.23	0.36	0.03	0.08	0.70	0.97	0.18	0.23
	Costa Rica	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**

Source: Interregional Input-Output Table for Costa Rica, 2019.

Figure 2. Regional Shares by Economic Activity: Costa Rica, 2019 (%)



Source: Interregional Input-Output Table for Costa Rica, 2019.

2.2 Estimation of the Interregional Trade Matrices

After computing regional data, we generate interregional trade matrices among the 82 regions of Costa Rica for each of the 27 economic activity. We assume that regional demands for domestic and imported products align with the national consumption patterns for all user categories. The calculation of regional demand is based on the information provided in the national use matrix. The 27 trade matrices estimated are consistent with the national supply and demand in each sector.

To estimate the interregional trade matrix, we set the initial values of intra-regional trade at 0.5 for tradable sectors and 0.9 for non-tradable sectors, as defined by Haddad et al. (2023). We defined the impedance parameters, β, as equal to 1. The travel time matrix between each origin-destination pair (82 x 82 cantons) was determined as the minimum travel time in land transportation using the Google Maps Distance Matrix API through the gmapsdistance package in R.

Table 3 displays the trade flows among the seven provinces and the rest of the world in the form of interregional trade flows tables for the sum of sectors S01-S27. To facilitate data visualization, we grouped the 82 cantons into the seven provinces. The number along each row (other than the diagonal) represents the exports of the province to other provinces and to the rest of the world. The number down each column (other than the diagonal) represents the imports of the province from other provinces and from the rest of the world. The number in the diagonal represents a province's consumption of domestically-produced goods and services. Table 4 shows interregional exports and imports, along with the balance of interregional trade, by canton. By definition the sum of interregional trade across all cantons balances to zero as the interregional exports from one canton are the interregional imports of another.

We further ascertain the regional value-added components by using the sectorial national coefficients to each region. We use the accounting identities of the input-output model to verify balance, ensuring that the aggregate regional output aligns with the total demand of each region.

Table 3. Interregional and International Trade Flows in Costa Rica, 2019 (Million, CRC)

	Province	Destination region							Foreign exports	**Total demand**	Interregional exports
		1	2	3	4	5	6	7			
		San José	Alajuela	Cartago	Heredia	Guanacaste	Puntarenas	Limón			
Origin region	1 San José	15,934,636	1,570,081	488,432	878,389	333,242	314,281	304,258	5,713,310	**25,536,630**	3,888,683
	2 Alajuela	1,678,567	5,673,880	211,635	437,512	211,816	168,773	154,344	3,629,237	**12,165,763**	2,862,646
	3 Cartago	919,868	277,345	2,621,314	139,517	87,070	80,493	98,436	978,061	**5,202,103**	1,602,728
	4 Heredia	1,137,329	612,160	116,664	3,402,196	110,375	94,365	101,544	1,407,424	**6,982,057**	2,172,436
	5 Guanacaste	608,050	308,924	98,294	133,279	2,178,903	119,346	81,898	169,244	**3,697,937**	1,349,791
	6 Puntarenas	534,703	242,529	78,770	105,773	92,537	1,936,794	57,742	267,899	**3,316,747**	1,112,054
	7 Limón	516,055	268,271	96,395	134,453	80,323	63,910	1,742,501	495,237	**3,397,145**	1,159,407
	Foreign imports	4,958,962	2,835,712	1,141,702	1,563,263	858,396	750,191	730,014	0	**12,838,241**	0
	Total supply	**26,288,170**	**11,788,904**	**4,853,206**	**6,794,382**	**3,952,661**	**3,528,153**	**3,270,736**	**12,660,413**	**73,136,624**	14,147,745
	Interregional imports	5,394,572	3,279,311	1,090,190	1,828,922	915,362	841,168	798,221	0	14,147,745	0

Source: Interregional Input-Output Table for Costa Rica, 2019.

Table 4. Interregional Balance of Trade: Costa Rica, 2019 (Million, CRC)

Region	Cantón	Regional exports	Regional imports	Trade balance
R01	San José	2,867,968	5,353,383	-2,485,416
R02	Escazú	653,602	443,821	209,781
R03	Desamparados	404,146	342,553	61,593
R04	Puriscal	58,599	40,797	17,801
R05	Tarrazú	73,037	46,353	26,684
R06	Aserrí	90,687	49,315	41,372
R07	Mora	87,820	52,951	34,870
R08	Goicoechea	432,965	528,929	-95,964
R09	Santa Ana	478,889	339,749	139,140
R10	Alajuelita	156,095	107,870	48,225
R11	Vázquez de Coronado	229,601	151,305	78,296
R12	Acosta	37,896	25,042	12,853
R13	Tibás	229,450	158,369	71,081
R14	Moravia	171,366	172,257	-891
R15	Montes de Oca	527,118	414,849	112,269
R16	Turrubares	18,750	13,690	5,061
R17	Dota	29,026	25,651	3,375
R18	Curridabat	345,349	308,661	36,687
R19	Pérez Zeledón	292,484	152,655	139,829
R20	León Cortés Castro	78,837	41,370	37,467
R21	Alajuela	1,431,505	2,662,947	-1,231,442
R22	San Ramón	224,188	126,904	97,284
R23	Grecia	240,185	170,557	69,627
R24	San Mateo	41,264	25,011	16,253
R25	Atenas	81,738	44,537	37,201
R26	Naranjo	108,794	56,907	51,887
R27	Palmares	108,195	64,205	43,991
R28	Poás	107,790	62,463	45,327
R29	Orotina	66,019	46,956	19,063
R30	San Carlos	610,320	364,290	246,030
R31	Zarcero	102,625	54,782	47,843
R32	Sarchí	71,642	44,855	26,788
R33	Upala	132,652	90,204	42,448
R34	Los Chiles	121,496	78,023	43,473
R35	Guatuso	46,621	29,608	17,013
R36	Río Cuarto	61,761	51,211	10,549
R37	Cartago	588,721	622,578	-33,857
R38	Paraíso	211,713	113,131	98,582
R39	La Unión	450,261	269,535	180,725
R40	Jiménez	95,591	58,192	37,399
R41	Turrialba	233,189	100,759	132,430
R42	Alvarado	40,627	25,054	15,574
R43	Oreamuno	85,675	48,496	37,179
R44	El Guarco	168,078	123,572	44,506
R45	Heredia	722,088	915,415	-193,327
R46	Barva	139,484	77,001	62,483
R47	Santo Domingo	193,200	198,558	-5,358
R48	Santa Bárbara	83,544	43,030	40,514
R49	San Rafael	112,486	66,797	45,689
R50	San Isidro	90,270	46,568	43,702
R51	Belén	607,028	404,580	202,448
R52	Flores	155,304	136,367	18,937
R53	San Pablo	126,026	65,520	60,506
R54	Sarapiquí	248,375	180,455	67,920
R55	Liberia	619,230	418,407	200,822
R56	Nicoya	111,402	104,695	6,707
R57	Santa Cruz	168,893	181,126	-12,233
R58	Bagaces	183,531	112,124	71,407
R59	Carrillo	145,304	124,030	21,274
R60	Cañas	132,247	91,358	40,888
R61	Abangares	112,544	61,743	50,801
R62	Tilarán	150,294	90,787	59,506
R63	Nandayure	32,045	21,524	10,521
R64	La Cruz	31,843	47,316	-15,473
R65	Hojancha	11,574	11,365	209
R66	Puntarenas	383,980	318,657	65,323
R67	Esparza	87,630	67,774	19,855
R68	Buenos Aires	119,493	68,638	50,855
R69	Montes de Oro	42,211	25,947	16,265
R70	Osa	119,083	85,504	33,579
R71	Quepos	115,643	84,254	31,389
R72	Golfito	53,837	54,977	-1,140
R73	Coto Brus	75,675	48,714	26,961
R74	Parrita	67,953	39,183	28,770
R75	Corredores	85,184	97,588	-12,404
R76	Garabito	84,159	72,725	11,433
R77	Limón	231,532	175,947	55,585
R78	Pococí	317,974	257,210	60,764
R79	Siquirres	283,344	202,515	80,830
R80	Talamanca	104,235	65,621	38,614
R81	Matina	264,870	159,318	105,552
R82	Guácimo	136,224	116,382	19,842
	Costa Rica	**19,444,074**	**19,444,074**	**0**

Source: Interregional Input-Output Table for Costa Rica, 2019.

3. Availability of Data and Material

The datasets generated and/or analyzed during the current study follow as supplementary file.

Link to data: https://ideas.repec.org/p/ris/nereus/2023_012.html

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Appendix

Table A1. List of Sectors

Sector	Description
S01	Agriculture
S02	Livestock
S03	Support activities for crop and animal production
S04	Fishing and aquaculture
S05	Mining and quarrying
S06	Manufacture of food products and beverages
S07	Manufacture of textiles, wearing apparel, and leather and related products
S08	Manufacture of chemicals and chemical products
S09	Manufacture of pharmaceuticals, medicinal chemical and botanical products
S10	Manufacture of rubber, plastics and glass products
S11	Manufacture of medical and dental instruments and supplies
S12	Manufacture of electrical equipment
S13	Other manufacturing
S14	Electricity, water supply, and sewerage
S15	Construction
S16	Wholesale and retail trade; repair of motor vehicles and motorcycles
S17	Transportation and storage
S18	Accommodation and food service activities
S19	Information and communication
S20	Financial and insurance activities
S21	Real estate activities
S22	Professional, scientific and technical activities
S23	Administrative and support service activities
S24	Public administration and defense; compulsory social security
S25	Education
S26	Human health and social work activities
S27	Other service activities

Table A2. List of Regions

Region	ID provincia	Provincia	ID Cantón	Cantón
R01	1	San José	101	San José
R02	1	San José	102	Escazú
R03	1	San José	103	Desamparados
R04	1	San José	104	Puriscal
R05	1	San José	105	Tarrazú
R06	1	San José	106	Aserrí
R07	1	San José	107	Mora
R08	1	San José	108	Goicoechea
R09	1	San José	109	Santa Ana
R10	1	San José	110	Alajuelita
R11	1	San José	111	Vázquez de Coronado
R12	1	San José	112	Acosta
R13	1	San José	113	Tibás
R14	1	San José	114	Moravia
R15	1	San José	115	Montes de Oca
R16	1	San José	116	Turrubares
R17	1	San José	117	Dota
R18	1	San José	118	Curridabat
R19	1	San José	119	Pérez Zeledón
R20	1	San José	120	León Cortés Castro
R21	2	Alajuela	201	Alajuela
R22	2	Alajuela	202	San Ramón
R23	2	Alajuela	203	Grecia
R24	2	Alajuela	204	San Mateo
R25	2	Alajuela	205	Atenas
R26	2	Alajuela	206	Naranjo
R27	2	Alajuela	207	Palmares
R28	2	Alajuela	208	Poás
R29	2	Alajuela	209	Orotina
R30	2	Alajuela	210	San Carlos
R31	2	Alajuela	211	Zarcero
R32	2	Alajuela	212	Sarchí
R33	2	Alajuela	213	Upala
R34	2	Alajuela	214	Los Chiles
R35	2	Alajuela	215	Guatuso
R36	2	Alajuela	216	Río Cuarto
R37	3	Cartago	301	Cartago
R38	3	Cartago	302	Paraíso
R39	3	Cartago	303	La Unión
R40	3	Cartago	304	Jiménez
R41	3	Cartago	305	Turrialba

Table A2. List of Regions (Cont.)

Region	ID provincia	Provincia	ID Cantón	Cantón
R42	3	Cartago	306	Alvarado
R43	3	Cartago	307	Oreamuno
R44	3	Cartago	308	El Guarco
R45	4	Heredia	401	Heredia
R46	4	Heredia	402	Barva
R47	4	Heredia	403	Santo Domingo
R48	4	Heredia	404	Santa Bárbara
R49	4	Heredia	405	San Rafael
R50	4	Heredia	406	San Isidro
R51	4	Heredia	407	Belén
R52	4	Heredia	408	Flores
R53	4	Heredia	409	San Pablo
R54	4	Heredia	410	Sarapiquí
R55	5	Guanacaste	501	Liberia
R56	5	Guanacaste	502	Nicoya
R57	5	Guanacaste	503	Santa Cruz
R58	5	Guanacaste	504	Bagaces
R59	5	Guanacaste	505	Carrillo
R60	5	Guanacaste	506	Cañas
R61	5	Guanacaste	507	Abangares
R62	5	Guanacaste	508	Tilarán
R63	5	Guanacaste	509	Nandayure
R64	5	Guanacaste	510	La Cruz
R65	5	Guanacaste	511	Hojancha
R66	6	Puntarenas	601	Puntarenas
R67	6	Puntarenas	602	Esparza
R68	6	Puntarenas	603	Buenos Aires
R69	6	Puntarenas	604	Montes de Oro
R70	6	Puntarenas	605	Osa
R71	6	Puntarenas	606	Quepos
R72	6	Puntarenas	607	Golfito
R73	6	Puntarenas	608	Coto Brus
R74	6	Puntarenas	609	Parrita
R75	6	Puntarenas	610	Corredores
R76	6	Puntarenas	611	Garabito
R77	7	Limón	701	Limón
R78	7	Limón	702	Pococí
R79	7	Limón	703	Siquirres
R80	7	Limón	704	Talamanca
R81	7	Limón	705	Matina
R82	7	Limón	706	Guácimo