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**MEASUREMENT OF DETAILED TURNOVER OF SERVICES**

**THE RESULTS OF THE SPECIAL SURVEY FOR  
PRODUCTS IN BRAZIL**

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# **THE RESULTS OF THE SPECIAL SURVEY FOR PRODUCTS IN BRAZIL**

## **Ranking of the leading products**

The Special Survey for Products in 2001 was applied to companies with twenty or more employees for modern and traditional segments of the economy. The modern segment comprises services related to new information and communication technology and the traditional segment covers transport activities. These segments are formed by activities as following:

### **Information Sector**

- Telecommunications
- Computer Services
- Audio-visual Services

### **Transport Sector**

- Road Transport
- Railroad Transport
- Water Transport
- Air Transport

The construction of a lists of products for these sectors aimed to obtain the designation of products as a first step in the development of a National Products Classification for Services internationally comparable. These lists also permits to evaluate the importance of these products based in the turnover generate by them.

The publishing of these statistics information, besides allowing economic analysis, contributes to the improvement of the information about the country's productive structure.

The following comments are concerned to the leading products in terms of their contribution to the net revenue in 2001.

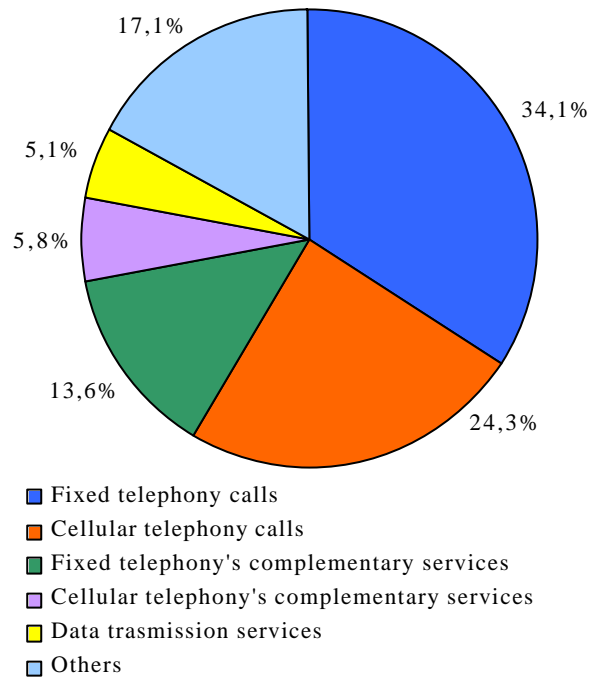
## I – The List of the 21 Leading Products of the Information Sector in 2001

Ranking	Products	Revenue (US\$10 <sup>6</sup> )
	<b>Total</b>	<b>31 772</b>
1	Phone calls - fixed telephony	7 304
	Basic local telephony	1 736
	Basic long distance calls - Intrastate fixed telephony	800
	Basic long distance calls - Interstate fixed telephony	2 071
	Internacional fixed telephony	388
	Basic fixed telephony public	276
	Fixed telephone to cellular telephone services	2 032
2	Phone calls - cellular telephony	5 239
	Celular local telephony and interconexion services	4 517
	Long distance calls - intrastate and interstate cellular telephony	389
	Roaming service	287
	International cellular telephony	46
3	Fixed telephony 's complementary services (subscriptions, changing in ownership, etc.)	2 925
4	Program distribution networks advertising at Television Broadcasting	2 031
5	Computer programs consultancy (softwares)	1 343
6	Celular telephony 's complementary services (subscriptions, changing in ownership, etc.)	1 245
7	Data processing services - including printing of reports	1 231
8	Data transmission in private network or especial transmission in packets	1 102
9	Sales of cellular telephones	876
10	Basic programming package at Pay Television	866
11	Hardwares mantainance services	718
12	Fixed telephony's interconexion services	715
13	Licensing and sale of softwares non-developed by the company	626
14	Internet service providers - including fax and special transmission	504
15	Carriers, internacional and nacional telex, lecture transmission in privare circuit and other services	399
16	Softwares mantainance services - including upgrades	387
17	Outsourcing	390
18	Internet backbone services	264
19	Radio broadcasting adversiting and merchandising	246
20	Sales of computer and peripheral equipments manufactured by others	231
21	Others information services	3 128

Source: IBGE, Surveys Directorate, Commerce and Services Department.

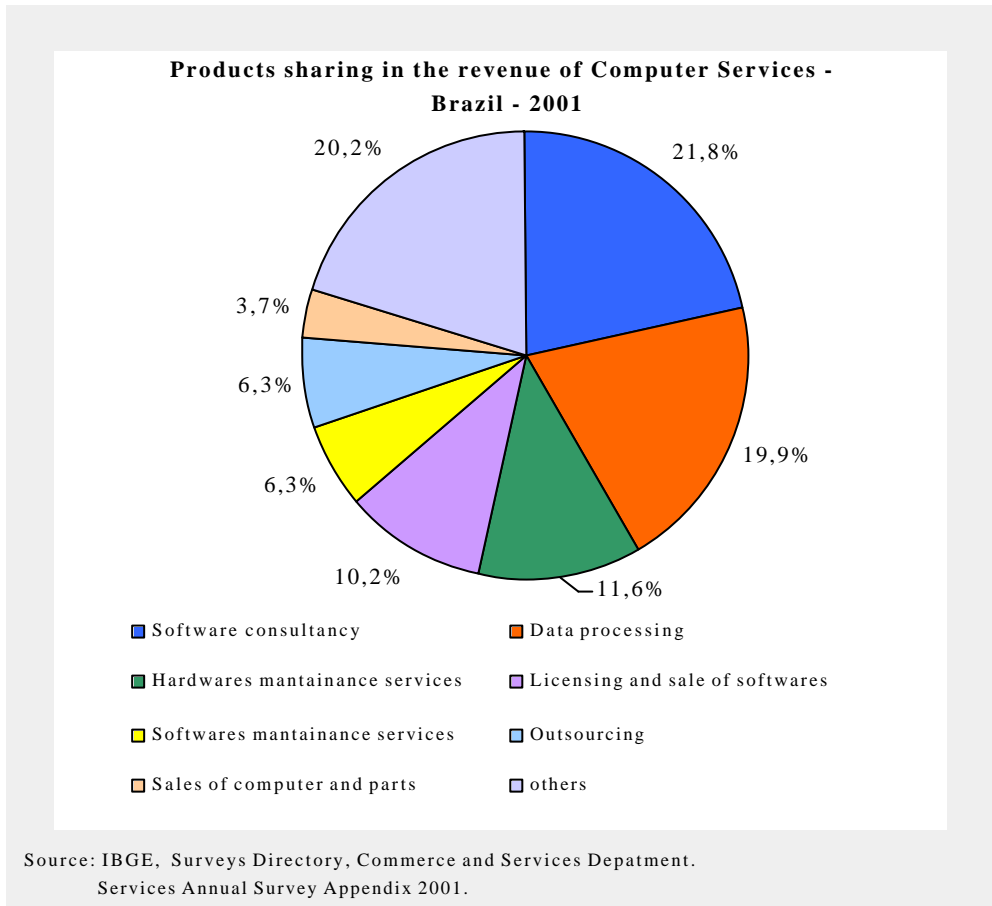
Telecommunication products accounted for 67,5% of the whole of the Information sector in 2001. The three leading products are “Fixed Telephony Calls”, “Cellular Telephony Calls” and “Fixed Telephony’s Complementary Services” and they accounted for 48,7% of the whole Information sector in 2001. These three products also represented 71,7% of the whole of Telecommunication’s revenue. The ten more important Telecommunication products accounted for 64,8% of the whole of the Information sector.

**Products sharing in the revenue of Telecommunication Services - Brazil - 2001**



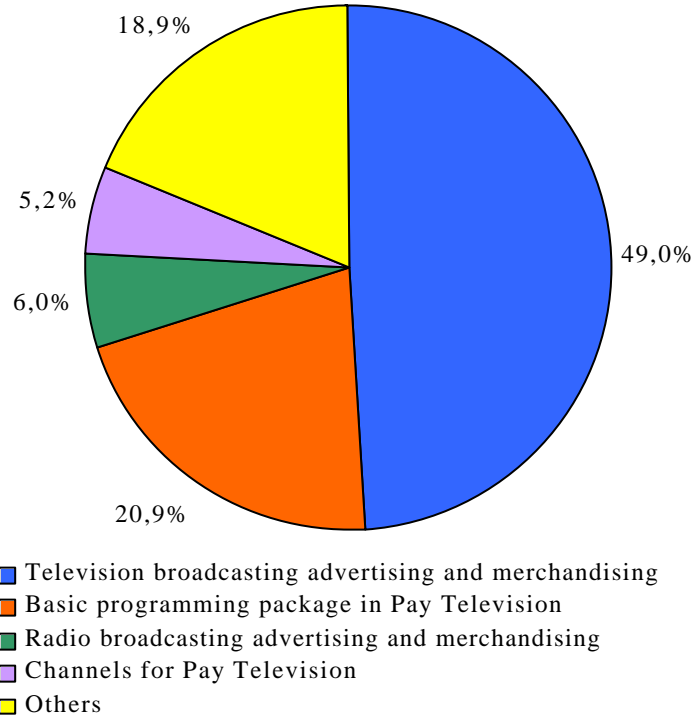
Source: IBGE, Surveys Directory, Commerce and Services Department.  
Services Annual Survey Appendix 2001.

Computer Services products as a whole accounted for 19,4% of the whole of the Information sector's revenue in 2001. Among the twenty one leading Information sector's products, seven are referred to Computer Services and accounted for 15,5% of the whole of Information sector's revenue. These seven leading products account for 79,8% of the whole Computer Services segment's revenue in 2001. The main Computer Service Product was "Development of Customized Software", which accounted for 4,2% of the whole of Information sector's revenue and 21,8% of the whole of Computer Services segment's revenue.



Audio-visual products in 2001 accounted for 13,0% of the whole of Information sector's revenue. Only three Audio-visual products belong to Information sector's leading products' list and together they sum 9,9% of the whole of Information sector's revenue. These three Audio-visual products accounted for 75,9% of the whole Audio-visual segment's revenue. The main Audio-visual product is "Television Broadcasting" it accounted for 49,0% of the whole Audio-visual segment's revenue. "Television Broadcasting" was also the fourth main product in Information sector, with 6,4% of the whole Information sector's revenue.

**Products sharing in the revenue of Audio-visual Services -  
Brazil - 2001**



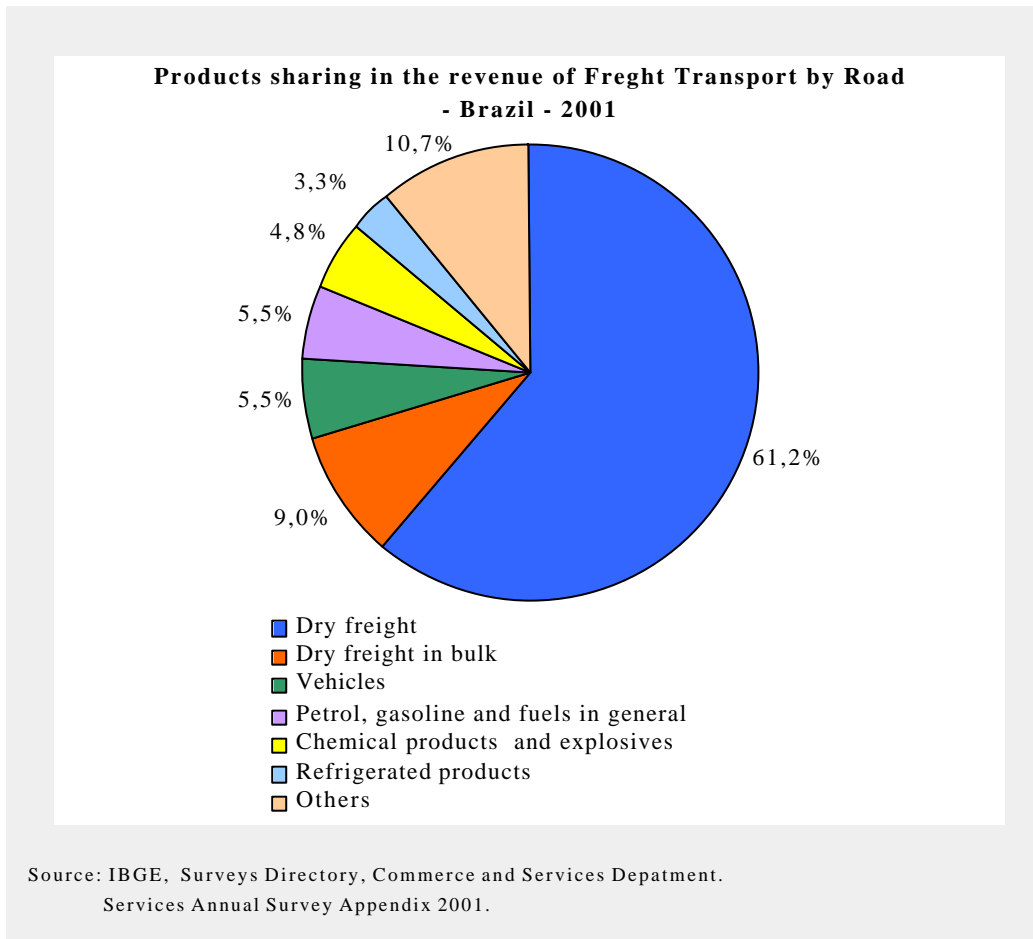
Source: IBGE, Surveys Directory, Commerce and Services Department.  
Services Annual Survey Appendix 2001.

## II – The List of the 21 Leading Transport Products in 2001

Ranking	Products	Revenue (US\$10 <sup>6</sup> )	% Total
	<b>Total</b>	<b>21 142</b>	<b>100,0</b>
1	Passengers transport by air in regular and scheduled routes	4 205	19,9
2	Passengers transport by road in regular and scheduled routes (urban, suburban and rural transporte within a city limit )	4 056	19,2
3	Dry freight transport by road (manufactured, baled and packed products)	3 611	17,1
4	Passengers transport by road in regular and scheduled routes (interurban)	1 318	6,2
5	Passengers transport by road in regular and scheduled routes (interstate)	659	3,1
6	Freight in general transport over water	622	2,9
7	Freight in containers transport over water	540	2,6
8	Solid products in bulk (cereals, sand, ore, coal and grains in general, etc.) transport by road	529	2,5
9	Oil, gasoline and fuels in general transport over water	492	2,3
10	Solid products in bulk (cereals, sand, ore, coal and grains in general, etc.) transport by railroad	485	2,3
11	Repair and mantainance of aircrafts not owned by the company	440	2,1
12	Vehicles transport by road	326	1,5
13	Petrol, gasoline, fuels em general and liquefied petroleum gas transport by road	323	1,5
14	Chemical products and explosives transport by road	284	1,3
15	Subway	281	1,3
16	Special passenger transport (school buses services, employees buses services, etc.) Not including tourism service	239	1,1
17	Refrigerated products transport by road	191	0,9
18	Non-dangerous liquid products (water, milk, juices, etc.) transport by road	180	0,9
19	Other kind of products transport by road	177	0,8
20	Passengers transport by railroad in interurban lines, urban and suburban lines within a city limit	142	0,7
21	Others transport service	2 041	9,8

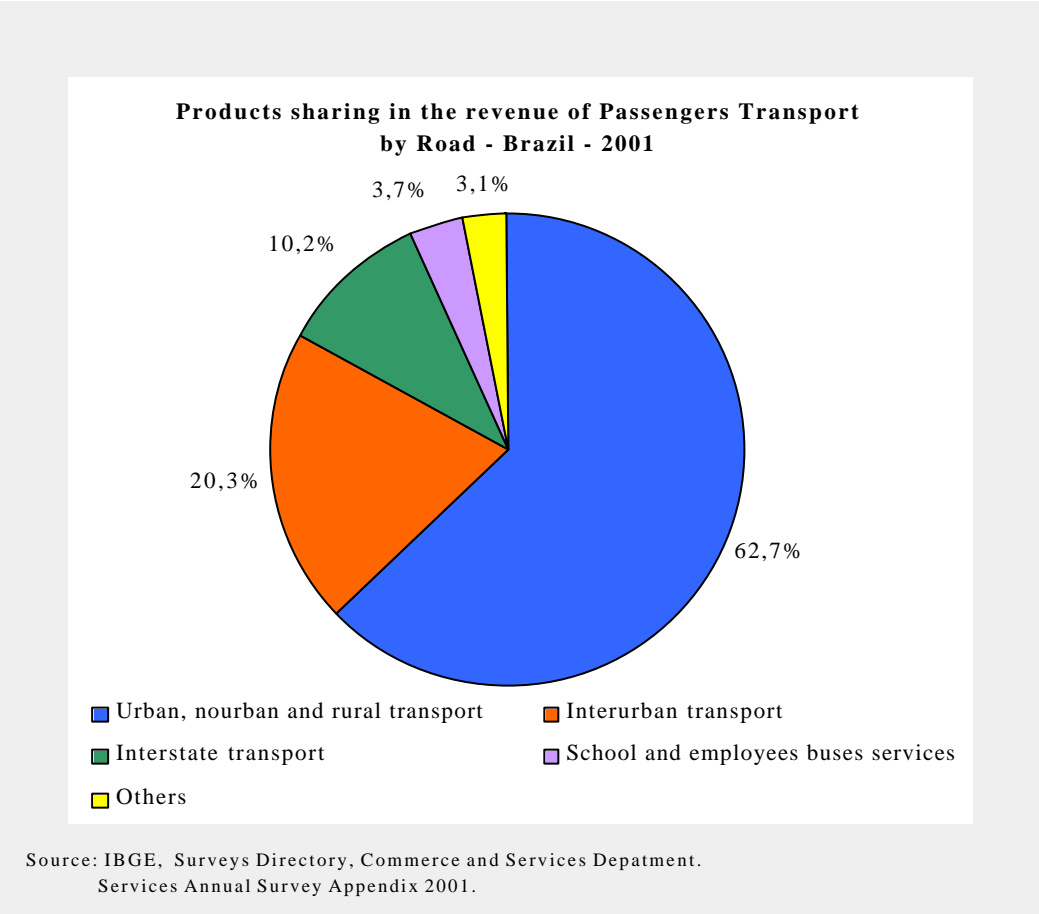
Source: IBGE, Surveys Directorate, Commerce and Services Department.

Freight transport by road's products accounted for 27,9% of the whole of Transport sector's revenue in 2001. The main Freight transport by road product is "Dry products (manufactured, baled and packed products)" and it accounted for 61,2% of the Freight transport by road's revenue and 17,1% of the whole of Transport sector's revenue. "Dry freight" is the third ranked product in the list of the twenty one leading transport sector products.

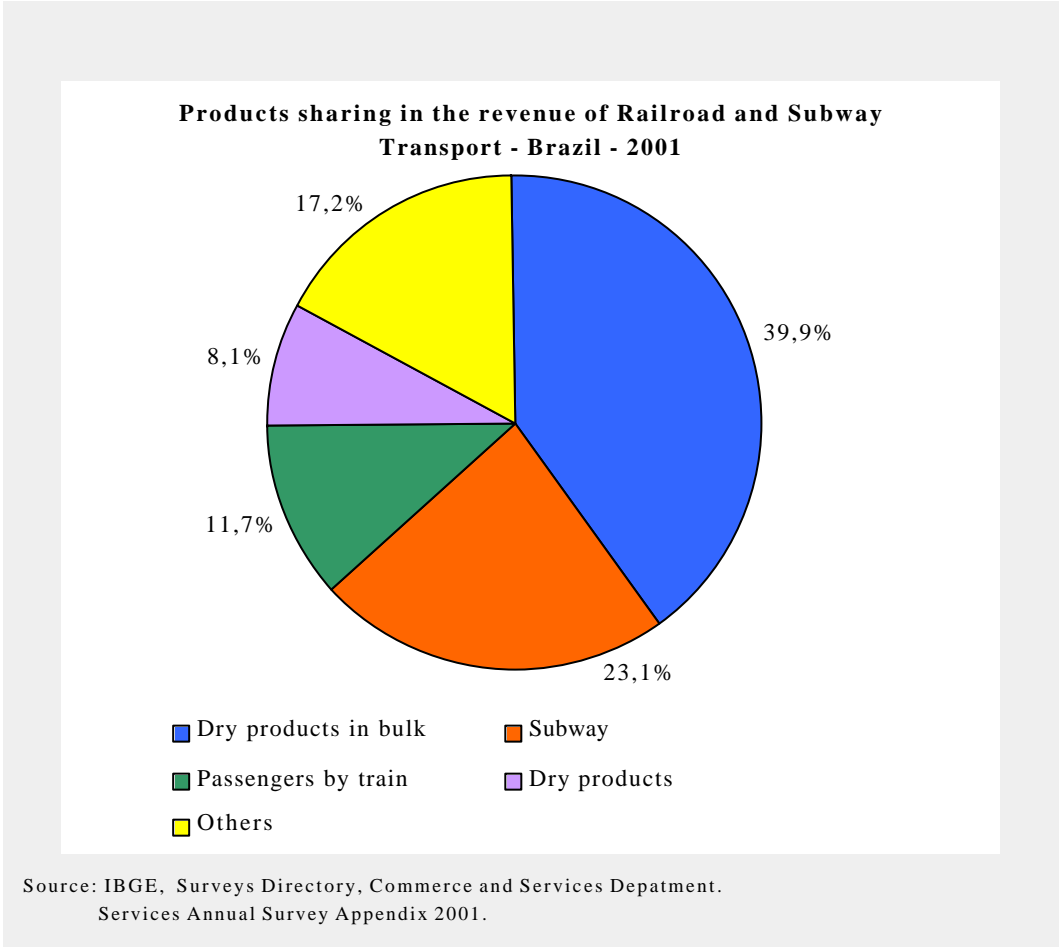


Passengers transport by road's products were the most important products in the whole of Transport sector, accounted for 30,6% of the total revenue. The three main products were "Urban, suburban and rural transport within city limit", "Interurban transport" and "Interstate transport" and they accounted for 28,5% of the whole of Transport sector's revenue. These products were ranked in second, fourth and fifth in the list of the twenty one leading transport sector products. "Urban, suburban and rural transport within city limit" accounted for 62,7% of the Passengers transport by road's revenue.



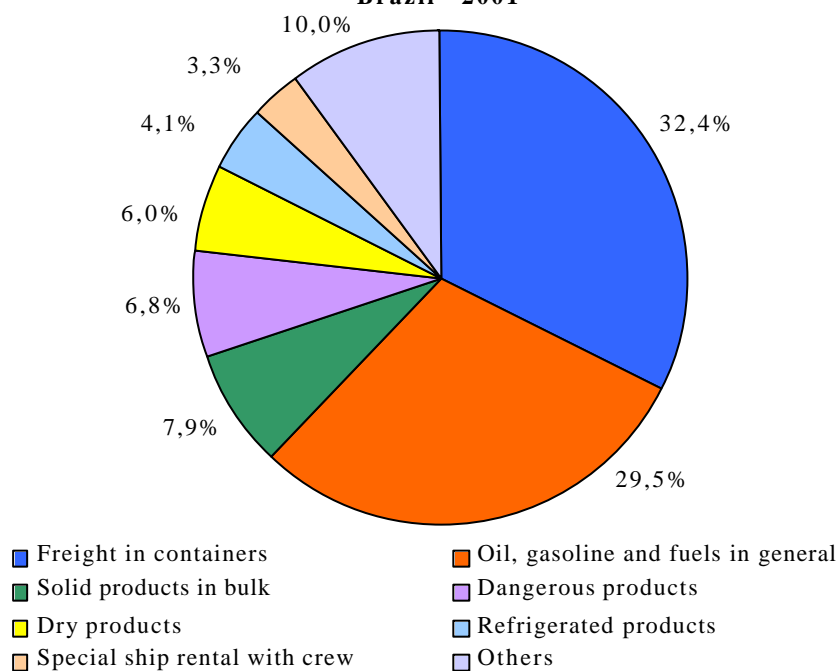


Railroad and subway transport’s products accounted for 5,7% of the whole of Transport sector’s revenue in 2001. The main product was “Solid products in bulk (cereals, sand, ore, coal and grains in general)” and it accounted for 40,0% of the Railroad transport’s revenue and 2,3% of the whole Transport sector’s revenue. Regarding Passengers transport, most part of the revenue came from subway (23,1%), almost the double of the urban and suburban transport by train (11,1%).



Water transport’s products accounted for 7,9% of the whole Transport sector’s revenue in 2001 and Freight transport over water represented 93,7% of the whole Water transport segment’s revenue. The two main products were “Freight in containers” and “Oil, gasoline and fuels in general” and they accounted for 32,4% and 29,5% of the whole of Water transport segment’s revenue, respectively. Together, these two products accounted for 5,0% of the whole Transport sector’s revenue.

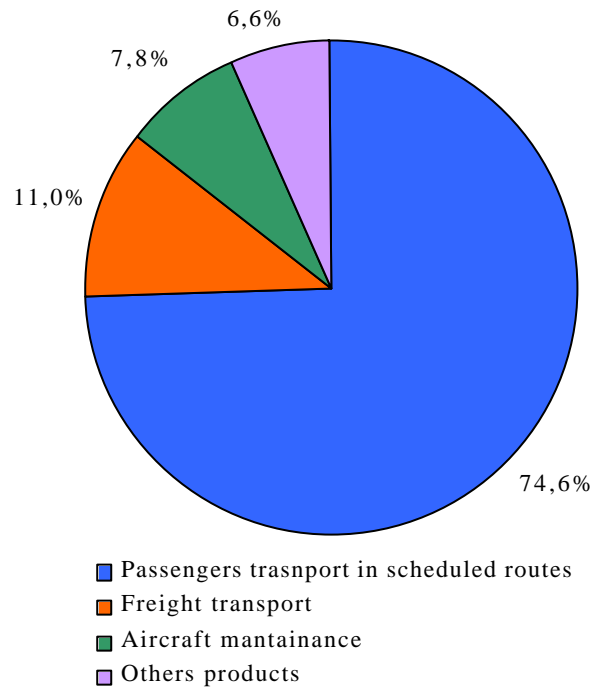
**Products sharing in the revenue of Water Transport -  
Brazil - 2001**



Source: IBGE, Surveys Directory, Commerce and Services Department.  
Services Annual Survey Appendix 2001.

Air transport's products accounted for 26,6% of the whole Transport sector's revenue. The main product is "Passengers transport in regular and scheduled routes" and it represented 74,6% of the whole Air transport's revenue and 19,9% of the whole Transport sector's revenue. "Freight transport" accounted for only 11,0% of the whole Air transport's revenue.

**Products sharing in the revenue of Air Transport -  
Brazil - 2001**



Source: IBGE, Surveys Directory, Commerce and Services Department.  
Services Annual Survey Appendix 2001.

**Table 1 - Net operating revenue of the Road Transport enterprises with 20 ou more employees, according products**

Products	2000				2001			
	Enterprises	Net operating revenue			Enterprises	Net operating revenue		
		Value (US\$ 1 000)	% Total	% Partial		Value (US\$ 1 000)	% Total	% Partial
<b>Total</b>	<b>4 436</b>	<b>14 469 505</b>	<b>100,0</b>		<b>4 704</b>	<b>12 626 230</b>	<b>100,0</b>	
<b>Passenger Transport by Road</b>	<b>1 926</b>	<b>7 580 177</b>	<b>52,4</b>	<b>100,0</b>	<b>1 976</b>	<b>6 472 975</b>	<b>51,3</b>	<b>100,0</b>
Regular and scheduled routes	1 806	7 369 587	50,9	97,2	1 861	6 292 849	49,8	97,2
Urban, suburban and rural transport within a city limit	1 240	4 795 078	33,1	63,3	1 267	4 056 142	32,1	62,7
Interurban transport	661	1 498 848	10,4	19,8	683	1 318 343	10,4	20,4
Interstate transport	218	784 256	5,4	10,3	228	658 992	5,2	10,2
International transport	24	20 519	0,1	0,3	25	20 149	0,2	0,3
Special transport (school buses services, employees buses services, etc.). Not including tourism services	368	270 886	1,9	3,6	362	239 224	1,9	3,7
Non-scheduled routes	437	210 591	1,5	2,8	463	180 126	1,4	2,8
Taxi operation services	52	35 513	0,2	0,5	47	23 060	0,2	0,4
Van services	9	7 958	0,1	0,1	17	4 708	0,0	0,1
Tourism services - sightseeing and excursions transport	329	122 967	0,8	1,6	361	109 962	0,9	1,7
Other non-scheduled transport	89	44 153	0,3	0,6	75	42 397	0,3	0,7
<b>Freight Transport by Road</b>	<b>2 686</b>	<b>6 686 860</b>	<b>46,2</b>	<b>100,0</b>	<b>2 894</b>	<b>5 904 517</b>	<b>46,8</b>	<b>100,0</b>
Dry freights - manufactured, baled and packed products	1 819	4 079 129	28,2	61,0	2 016	3 610 913	28,6	61,2
Solid products in bulk - cereals, sand, ore, coal and grains in general	359	473 003	3,3	7,1	427	528 744	4,2	9,0
Refrigerated products	174	215 005	1,5	3,2	195	191 474	1,5	3,2
Non-dangerous liquid products - water, milk, juices, etc.	183	205 423	1,4	3,1	216	179 914	1,4	3,0
Petrol, gasoline, fuels in general and liquefied petroleum gas	191	375 734	2,6	5,6	183	322 962	2,6	5,5
Chemical products and explosives	200	317 185	2,2	4,7	202	283 857	2,2	4,8
Freight in containers	121	174 389	1,2	2,6	110	132 015	1,0	2,2
Large tonnage products - hydroelectric turbines, generators, cranes, tractors, etc.	52	52 588	0,4	0,8	49	64 588	0,5	1,1
Animals	12	5 402	0,0	0,1	17	2 756	0,0	0,0
Vehicles	41	356 344	2,5	5,3	37	326 492	2,6	5,5
Soft products - mail, small packs, etc.	85	104 728	0,7	1,6	84	29 257	0,2	0,5
Furniture removal	100	65 807	0,5	1,0	102	55 000	0,4	0,9
Other kind of products	205	262 124	1,8	3,9	218	176 543	1,4	3,0
<b>Other services</b>	<b>123</b>	<b>138 607</b>	<b>1,0</b>	<b>100,0</b>	<b>139</b>	<b>141 132</b>	<b>1,1</b>	<b>100,0</b>
Renting of vehicles without drivers	36	53 161	0,4	38,4	35	53 537	0,4	37,9
Renting of machinery and equipment - cranes, tractors, fork-lifty, etc., without operators	24	20 023	0,1	14,4	36	18 999	0,2	13,5
Advertisements in vehicles	4	475	0,0	0,3	4	2 140	0,0	1,5
Loading and unloading services	37	17 454	0,1	12,6	51	13 519	0,1	9,6
Warehousing and storage services, including furniture	39	40 354	0,3	29,1	41	45 553	0,4	32,3
Freight brokerage services	7	4 043	0,0	2,9	10	2 148	0,0	1,5
Cargo packing services	14	3 096	0,0	2,2	12	5 238	0,0	3,7
<b>Other activities (industry, trade, etc.)</b>	<b>86</b>	<b>63 860</b>	<b>0,4</b>	<b>100,0</b>	<b>92</b>	<b>107 605</b>	<b>0,9</b>	<b>100,0</b>

Source: IBGE, Surveys Directory, Commerce and Services Department.

**Table 2 - Net operating revenue of the Railroad and Subway Transport enterprises with 20 ou more employees, according products**

Products	2000			2001		
	Enterpri- ses	Net operating revenue		Enterpri- ses	Net operating revenue	
		Value (US 1 000)	% Total		Value (US 1 000)	% Total
<b>Total</b>	<b>21</b>	<b>1 369 359</b>	<b>100,0</b>	<b>21</b>	<b>1 215 931</b>	<b>100,0</b>
<b>Passengers Transport by Railroad (urban, suburban and Interurban lines)</b>	<b>4</b>	<b>165 626</b>	<b>12,1</b>	<b>4</b>	<b>142 269</b>	<b>11,7</b>
<b>Subway</b>	<b>5</b>	<b>296 121</b>	<b>21,6</b>	<b>5</b>	<b>280 744</b>	<b>23,1</b>
<b>Freight Transport by Railroad</b>	<b>11</b>	<b>688 684</b>	<b>50,3</b>	<b>11</b>	<b>680 231</b>	<b>55,9</b>
Liquid products and gas	6	85 536	6,2	5	85 820	7,1
Solid products in bulk - cereals, sand, ore, coal and grains in general	9	558 862	40,8	9	485 128	39,9
Dry freights - manufactured, baled and packed products	7	26 241	1,9	8	98 774	8,1
Freights in Containers	4	18 045	1,3	3	10 508	0,9
<b>Other services (towing services by railroad, warehousing and storage services, etc.)</b>	<b>7</b>	<b>218 929</b>	<b>16,0</b>	<b>8</b>	<b>112 687</b>	<b>9,3</b>

Source: IBGE, Surveys Directory, Commerce and Services Department

**Table 3 - Net operating revenue of the Water Transport enterprises with 20 ou more employees,  
according products**

Products	2000				2001			
	Enterpri- ses	Net operating revenue			Enterpri- ses	Net operating revenue		
		Value (US 1 000)	% Total	% Partial		Value (US 1 000)	% Total	% Partial
<b>Total</b>	<b>98</b>	<b>1 511 229</b>	<b>100,0</b>		<b>102</b>	<b>1 666 125</b>	<b>100,0</b>	
<b>Freight transport over water</b>	<b>75</b>	<b>1 411 308</b>	<b>93,4</b>	<b>100,0</b>	<b>81</b>	<b>1 561 831</b>	<b>93,7</b>	<b>100,0</b>
Oil, gasoline and fuels in general	22	382 908	25,3	27,1	23	491 971	29,5	31,5
Dry freight - manufactured, baled and packed products	17	98 781	6,5	7,0	19	100 141	6,0	6,4
Solid products in bulk - cereals, sand, ore, coal and grains in general	13	146 838	9,7	10,4	15	131 166	7,9	8,4
Refrigerated products	5	102 887	6,8	7,3	3	68 840	4,1	4,4
Freight in containers	12	505 761	33,5	35,8	11	539 528	32,4	34,5
Dangerous products - chemical products and explosives, not including oil, gasoline and fuels in general	7	87 221	5,8	6,2	9	112 850	6,8	7,2
Animals	1	(x)	(x)	(x)	1	(x)	(x)	(x)
Vehicles	15	23 467	1,6	1,7	24	16 139	2,3	2,4
Large tonnage products - hydroelectric turbines, generators, cranes, tractors, etc.	5	(x)	(x)	(x)	4	54 778	1,4	1,5
Soft products - mail, small packs, etc.	-	-	-	-	1	(x)	(x)	(x)
Other kind of freights	1	(x)	(x)	(x)	5	(x)	(x)	(x)
Special ship rental with crew	9	41 708	2,8	3,0	7	54 816	3,3	3,5
<b>Passengers transport over water</b>	<b>36</b>	<b>62 302</b>	<b>4,1</b>	<b>100,0</b>	<b>33</b>	<b>62 891</b>	<b>3,8</b>	<b>100,0</b>
Regular and scheduled routes	24	44 054	2,9	70,7	20	32 532	2,0	51,7
Tourism services - sightseeing and excursions	9	2 138	0,1	3,4	6	577	0,0	0,9
Special ship rental with crew	6	16 110	1,1	25,9	8	29 782	1,8	47,4
<b>Other services/activities</b>	<b>19</b>	<b>37 619</b>	<b>2,5</b>	<b>100,0</b>	<b>16</b>	<b>41 403</b>	<b>2,5</b>	<b>100,0</b>
Piloting vessels and towing services	3	25 557	1,7	67,9	7	31 341	1,9	75,7
Ship freight brokerage services	2	(x)	(x)	(x)	1	(x)	(x)	(x)
Cargo grouping and packing services	1	(x)	(x)	(x)	-	-	-	-
Ship rental without crew	4	2 646	0,2	7,0	5	7 039	0,4	17,0
Other services	13	5 034	0,3	13,4	6	(x)	(x)	(x)

Source: IBGE, Surveys Directory, Commerce and Services Department.

**Table 4 - Net operating revenue of the Air Transport enterprises with 20 ou more employees,  
according products**

Products	2000				2001			
	Enterpri- ses	Net operating revenue			Enterpri- ses	Net operating revenue		
		Value (US 1 000)	% Total	% Partial		Value (US 1 000)	% Total	% Partial
<b>Total</b>	<b>53</b>	<b>5 825 997</b>	<b>100,0</b>		<b>60</b>	<b>5 633 621</b>	<b>100,0</b>	
<b>Passengers Transport by Air</b>	<b>49</b>	<b>4 545 482</b>	<b>78,0</b>	<b>100,0</b>	<b>52</b>	<b>4 438 388</b>	<b>78,8</b>	<b>100,0</b>
Regular and scheduleled routes	19	4 256 084	73,1	93,6	19	4 205 481	74,6	94,8
Domestic routes to cities with more or less than one million inhabitants	19	3 313 732	56,9	72,9	19	(x)	(x)	(x)
International routes	3	942 353	16,2	20,7	2	(x)	(x)	(x)
Non-regular routes	36	289 397	5,0	6,4	37	232 907	4,1	5,2
Charter flights and aircrafts rental with crew and pilot	13	163 804	2,8	3,6	14	125 518	2,2	2,8
Air taxi - including helicopter services	25	125 593	2,2	2,8	26	107 389	1,9	2,4
<b>Freight Transport by Air</b>	<b>21</b>	<b>919 660</b>	<b>15,8</b>	<b>100,0</b>	<b>26</b>	<b>706 830</b>	<b>12,5</b>	<b>100,0</b>
Domestic and international air mail	6	77 023	1,3	8,4	8	84 619	1,5	12,0
Domestic and international air freight	19	842 636	14,5	91,6	21	622 211	11,0	88,0
<b>Other services</b>	<b>19</b>	<b>360 856</b>	<b>6,2</b>	<b>100,0</b>	<b>12</b>	<b>488 403</b>	<b>8,7</b>	<b>100,0</b>
Repair and manatenance of aircrafts not owned by the company	11	324 823	5,6	90,0	6	440 140	7,8	90,1
Excess baggage charges	4	253	0,0	0,1	2	(x)	(x)	(x)
Other services	12	35 779	0,6	9,9	8	(x)	(x)	(x)

Source: IBGE, Surveys Directory, Commerce and Services Department.



**Table 5 - Net operating revenue of the Computer Services enterprises with 20 or more employees, according products**

(continua)

Products	2000				2001			
	Enterprises	Net operating revenue			Enterprises	Net operating revenue		
		Value (US 1 000)	% Total	% Partial		Value (US 1 000)	% Total	% Partial
<b>Total</b>	<b>720</b>	<b>6 585 380</b>	<b>100,0</b>		<b>864</b>	<b>6 173 922</b>	<b>100,0</b>	
<b>Hardware consultancy</b>	<b>108</b>	<b>325 489</b>	<b>4,9</b>	<b>100,0</b>	<b>122</b>	<b>256 444</b>	<b>4,2</b>	<b>100,0</b>
Computer hardware consultancy on type and configuration and incidental software development, user's needs analysis and consultancy for purchases of computers	86	192 032	2,9	59,0	84	180 354	2,9	70,3
Networks development projects	52	67 577	1,0	20,8	64	57 324	0,9	22,4
Consultancy for purchases of computer facilities related to hardwares's security	27	4 148	0,1	1,3	20	4 340	0,1	1,7
Computer auditing services	19		0,9	19,0	19	14 427	0,2	5,6
<b>Development of customized softwares and data base development projects</b>	<b>358</b>	<b>1 645 423</b>	<b>25,0</b>	<b>100,0</b>	<b>346</b>	<b>1 343 139</b>	<b>21,8</b>	<b>100,0</b>
<b>Services related to computer security (antiviruses, criptografy, hackers protection systems)</b>	<b>30</b>	<b>20 985</b>	<b>0,3</b>	<b>79,3</b>	<b>35</b>	<b>28 416</b>	<b>0,5</b>	<b>78,4</b>
<b>Software disaster recovery services</b>	<b>22</b>	<b>5 482</b>	<b>0,1</b>	<b>20,7</b>	<b>16</b>	<b>7 813</b>	<b>0,1</b>	<b>21,6</b>
<b>Development and production of softwares ready to use (1)</b>	<b>65</b>	<b>114 899</b>	<b>1,7</b>	<b>100,0</b>	-	-	-	-
<b>Licensing and leasing of softwares ready to use (2)</b>	-	-	-	-	<b>125</b>	<b>208 819</b>	<b>3,4</b>	<b>100,0</b>
<b>Computer services related with Internet (not including Internet access provider)</b>	<b>64</b>	<b>56 512</b>	<b>0,9</b>	<b>100,0</b>	<b>77</b>	<b>66 405</b>	<b>1,1</b>	<b>100,0</b>
Web design	49	28 209	0,4	49,9	59	39 942	0,6	60,1
Internet database development and management activities	41	28 304	0,4	50,1	37	26 463	0,4	39,9
<b>Database activities (except for Internet)</b>	<b>19</b>	<b>72 851</b>	<b>1,1</b>	<b>100,0</b>	<b>30</b>	<b>83 218</b>	<b>1,3</b>	<b>100,0</b>
<b>Special processing services</b>	<b>24</b>	<b>12 890</b>	<b>0,2</b>	<b>100,0</b>	<b>23</b>	<b>16 654</b>	<b>0,3</b>	<b>100,0</b>
Photos, sound, maps, images and all kinds of documents	24	12 890	0,2	100,0	23	16 654	0,3	100,0
<b>Data processing</b>	<b>197</b>	<b>1 484 771</b>	<b>22,5</b>	<b>100,0</b>	<b>243</b>	<b>1 296 202</b>	<b>21,0</b>	<b>100,0</b>
Data processing services	176	1 389 990	21,1	93,6	213	1 230 680	19,9	94,9
Time share computer services	14	51 585	0,8	3,5	8	7 222	0,1	0,6
Data entry services	27	43 196	0,7	2,9	35	52 318	0,8	4,0
Web hosting (2)	-	-	-	-	10	5 982	0,1	0,5
<b>Maintenance and repair services</b>	<b>291</b>	<b>1 557 362</b>	<b>23,6</b>	<b>100,0</b>	<b>289</b>	<b>1 210 699</b>	<b>19,6</b>	<b>100,0</b>
Softwares maintenance services (including upgrades)	186	533 118	8,1	34,2	166	387 008	6,3	32,0
Maintenance and repair of computer and peripheral equipment	166	1 024 244	15,6	65,8	146	718 341	11,6	59,3
Maintenance and repair of office and account machinery (2)	-	-	-	-	31	105 351	1,7	8,7
<b>Other services related to computer services</b>	<b>87</b>	<b>73 159</b>	<b>1,1</b>	<b>100,0%</b>	<b>129</b>	<b>183 139</b>	<b>3,0</b>	<b>100,0%</b>
Special printing services (visiting-cards, identification cards for workers, logotypes, etc.)	7	5 278	0,1	0,1%	8	1 249	0,0	0,0%
Computer training services	80	67 881	1,0	1,0%	79	39 653	0,6	0,6%
Computer and facilities rental services (2)	-	-	-	-	28	120 743	2,0	2,0%
Internet access provider (2)	-	-	-	-	14	21 495	0,3	0,3%
<b>Outsourcing (2)</b>	-	-	-	-	<b>52</b>	<b>390 330</b>	<b>6,3</b>	<b>100,0</b>
<b>Sales of goods</b>	<b>126</b>	<b>1 009 445</b>	<b>15,3</b>	<b>100,0</b>	<b>160</b>	<b>962 621</b>	<b>15,6</b>	<b>100,0</b>
Sales of computer equipment manufactured by the company	11	24 220	0,4	2,4	10	106 031	1,7	11,0
Sales of computer and peripheral equipments manufactured by others	77	377 390	5,7	37,4	98	230 502	3,7	23,9
Licensing and sale of softwares non-developed by the company	52	607 835	9,2	60,2	75	626 088	10,1	65,0
<b>Other services</b>	<b>72</b>	<b>206 113</b>	<b>3,1</b>	<b>100,0</b>	<b>55</b>	<b>120 020</b>	<b>1,9</b>	<b>100,0</b>

Source: IBGE, Surveys Directory, Commerce and Services Department.

(1) Productas not surveyed in 2001.

(2) Productas not surveyed in 2000.

**Table 6 - Net operating revenue of the Telecommunications Services enterprises with 20 or more employees, according products**

Products	2000				2001			
	Enterprises	Net operating revenue			Enterprises	Net operating revenue		
		Value (US 1 000)	% Total	% Partial		Value (US 1 000)	% Total	% Partial
<b>Total</b>	<b>174</b>	<b>23 154 161</b>	<b>100,0</b>		<b>182</b>	<b>21 454 577</b>	<b>100,0</b>	
<b>Basic fixed telephony</b>	<b>38</b>	<b>12 910 593</b>	<b>55,8</b>	<b>100,0</b>	<b>27</b>	<b>11 221 476</b>	<b>52,3</b>	<b>100,0</b>
Basic fixed local telephony	29	4 046 682	17,5	31,3	20	1 736 017	8,1	15,5
Basic fixed long distance calls	28	3 934 887	17,0	30,5	20	2 871 058	13,4	25,6
Intrastate fixed telephony	24	1 287 642	5,6	10,0	17	800 047	3,7	7,1
Interstate fixed telephony	26	2 647 245	11,4	20,5	19	2 071 011	9,7	18,5
International fixed telephony	7	610 962	2,6	4,7	5	388 373	1,8	3,5
Basic fixed telephony public	22	429 771	1,9	3,3	14	276 307	1,3	2,5
Fixed telephone to cellular telephone (1)	-	-	-	-	15	2 032 292	9,5	18,1
Interconnection services in fixed telephony	15	671 270	2,9	5,2	13	714 540	3,3	6,4
Telephony services paid by the company that receives the calls	12	69 954	0,3	0,5	8	68 109	0,3	0,6
Added value services (directory search, tourism information, etc.)	16	122 354	0,5	0,9	10	71 162	0,3	0,6
Additional services (follow me, calling features, call waiting, telephone agenda, recall, etc.)	20	108 141	0,5	0,8	12	138 823	0,6	1,2
Complementary services (subscriptions, changing in ownership, etc.)	24	2 916 573	12,6	22,6	13	2 924 794	13,6	26,1
<b>Mobile telephone (cellular telephony and radio)</b>	<b>47</b>	<b>7 305 185</b>	<b>31,6</b>	<b>100,0</b>	<b>51</b>	<b>7 494 309</b>	<b>34,9</b>	<b>100,0</b>
Cellular local telephony and interconnection services	45	3 931 771	17,0	53,8	46	4 516 644	21,1	60,3
Long distance calls	42	481 463	2,1	6,6	40	389 142	1,8	5,2
Cellular international telephony	12	33 078	0,1	0,5	9	46 041	0,2	0,6
Added value services (directory search, tourism information, etc.)	11	84 510	0,4	1,2	10	35 237	0,2	0,5
Additional services (follow me, calling features, call waiting, telephone agenda, recall, etc.)	20	110 659	0,5	1,5	17	79 340	0,4	1,1
Complementary services (subscriptions, changing in ownership, etc.)	38	1 192 654	5,2	16,3	37	1 245 477	5,8	16,6
Roaming services	33	295 834	1,3	4,0	32	286 865	1,3	3,8
Sending messages services (1)	-	-	-	-	7	11 349	0,1	0,2
Wireless Internet (1)	-	-	-	-	5	8 242	0,0	0,1
Sales of cellular telephones	40	1 175 216	5,1	16,1	36	875 973	4,1	11,7
<b>Other telecommunications services</b>	<b>68</b>	<b>1 803 485</b>	<b>7,8</b>	<b>100,0</b>	<b>64</b>	<b>1 530 098</b>	<b>7,1</b>	<b>100,0</b>
Other mobile telephony services( air and water communication)	4	10 731	0,0	0,6	5	28 285	0,1	1,8
Paging services	21	54 612	0,2	3,0	3	480	0,0	0,0
Data transmission in private network or special transmission in packets	29	1 197 400	5,2	66,4	29	1 102 034	5,1	72,0
Other services (carriers, telex, lecture transmission in private circuit, etc.)	23	540 742	2,3	30,0	31	399 299	1,9	26,1
<b>Telecommunications by Internet</b>	<b>56</b>	<b>378 573</b>	<b>1,6</b>	<b>100,0</b>	<b>59</b>	<b>768 442</b>	<b>3,6</b>	<b>100,0</b>
Internet backbone services	11	86 132	0,4	22,8	10	264 068	1,2	34,4
Internet service providers	48	292 441	1,3	77,2	52	504 374	2,4	65,6
<b>Maintenance services</b>	<b>11</b>	<b>756 326</b>	<b>3,3</b>	<b>100,0</b>	<b>31</b>	<b>440 252</b>	<b>2,1</b>	<b>100,0</b>
Installation and maintenance of telephone equipment	6	200 768	0,9	26,5	17	169 138	0,8	38,4
Telecommunications network maintenance services	4	94 658	0,4	12,5	4	72 333	0,3	16,4
Other maintenance services	7	460 900	2,0	60,9	14	198 781	0,9	45,2

Source: IBGE, Surveys Directory, Commerce and Services Department.

(1) Products not surveyed in 2000.

Note: For comparison with 2000, the Fixed telephone to cellular telephone product must be added with Basic fixed local telephony, Basic fixed long distance calls and International fixed telephony.

**Table 7 - Net operating revenue of the Audio-visual Services enterprises with 20 ou more employees, according products**

Products	2000				2001			
	Enterpri- ses	Net operating revenue			Enterpri- ses	Net operating revenue		
		Value (US\$ 1 000)	% Total	% Partial		Value (US\$ 1 000)	% Total	% Partial
<b>Total</b>	<b>848</b>	<b>4 898 139</b>	<b>100,0</b>		<b>859</b>	<b>4 143 346</b>	<b>100,0</b>	
<b>Pay television distribution services (cable and subscription programming television)</b>	<b>70</b>	<b>957 243</b>	<b>19,5</b>	<b>100,0</b>	<b>92</b>	<b>1 033 165</b>	<b>24,9</b>	<b>100,0</b>
Basic programming package	66	832 297	17,0	86,9	86	866 492	20,9	83,9
Premium programming package	38	103 208	2,1	10,8	41	143 700	3,5	13,9
Pay-per-view	25	21 738	0,4	2,3	30	22 973	0,6	2,2
<b>Channels for Pay television distribution services</b>	<b>5</b>	<b>256 860</b>	<b>5,2</b>	<b>100,0</b>	<b>5</b>	<b>214 544</b>	<b>5,2</b>	<b>100,0</b>
<b>Television broadcasting</b>	<b>204</b>	<b>2 787 558</b>	<b>56,9</b>	<b>100,0</b>	<b>205</b>	<b>2 160 747</b>	<b>52,1</b>	<b>100,0</b>
Program distribution networks advertising	197	2 709 569	55,3	97,2	195	2 031 281	49,0	94,0
Sales of soap operas, special programs, etc.	11	38 484	0,8	1,4	23	56 076	1,4	2,6
Rent of TV network	33	17 310	0,4	0,6	39	24 862	0,6	1,2
Other services connected to television broadcasting	38	22 196	0,5	0,8	40	48 530	1,2	2,2
<b>Radio broadcasting</b>	<b>471</b>	<b>349 784</b>	<b>7,1</b>	<b>100,0</b>	<b>463</b>	<b>264 289</b>	<b>6,4</b>	<b>100,0</b>
Radio broadcasting advertising and merchandising	442	315 215	6,4	90,1	460	246 332	5,9	93,2
Other services connected to radio broadcasting	130	34 568	0,7	9,9	106	17 958	0,4	6,8
<b>Motion picture and video production</b>	<b>52</b>	<b>132 601</b>	<b>2,7</b>	<b>100,0</b>	<b>54</b>	<b>102 615</b>	<b>2,5</b>	<b>100,0</b>
Motion picture production	8	23 001	0,5	17,3	9	17 705	0,4	17,3
Educational, training, corporate, religious and direct-to-home films and video/DVDs production	13	6 829	0,1	5,2	11	5 010	0,1	4,9
Commercial films and advertising videos	34	74 288	1,5	56,0	34	57 577	1,4	56,1
Television films and shows production	8	14 917	0,3	11,2	7	8 226	0,2	8,0
Postproduction services	13	11 459	0,2	8,6	15	12 764	0,3	12,4
Films development	6	1 498	0,0	1,1	5	1 824	0,0	1,8
Audio-visual postproduction services	7	2 671	0,1	2,0	5	799	0,0	0,8
Dubbing	6	7 290	0,1	5,5	8	10 141	0,2	9,9
Rental of set	3	2 107	0,0	1,6	4	1 333	0,0	1,3
<b>Motion picture distribution</b>	<b>22</b>	<b>117 010</b>	<b>2,4</b>	<b>100,0</b>	<b>14</b>	<b>70 363</b>	<b>1,7</b>	<b>100,0</b>
Domestic movies	15	22 340	0,5	19,1	9	3 737	0,1	5,3
Foreign movies	18	94 670	1,9	80,9	11	66 626	1,6	94,7
<b>Video commerce and distribution</b>	<b>12</b>	<b>84 856</b>	<b>1,7</b>	<b>100,0</b>	<b>15</b>	<b>94 605</b>	<b>2,3</b>	<b>100,0</b>
To video home	12	75 697	1,5	89,2	14	72 680	1,8	76,8
To DVD	3	4 200	0,1	4,9	5	10 088	0,2	10,7
To broadcasting television stations and cable and subscription programming television	3	4 959	0,1	5,8	5	11 837	0,3	12,5
<b>Motion picture and video exhibition</b>	<b>57</b>	<b>212 228</b>	<b>4,3</b>	<b>100,0</b>	<b>58</b>	<b>188 269</b>	<b>4,5</b>	<b>100,0</b>
Motion picture theater, including drive-in	55	211 350	4,3	99,6	58	187 305	4,5	99,5
Special motion picture and video exhibitions	5	878	0,0	0,4	5	964	0,0	0,5
<b>Other audio-visual services</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20</b>	<b>14 749</b>	<b>0,4</b>	<b>100,0</b>

Source: IBGE, Surveys Directory, Commerce and Services Department.

