

## Appendix A. Categorization of industries, occupations, goods, services and space included in the PECAS model of Caracas

**Table A-1.** Industry categories defined for the Caracas region

Industry name	Industry name
Agriculture, forestry, fishing and hunting- Production	Transportation and Warehousing- Production
Agriculture, forestry, fishing and hunting- Office	Transportation and Warehousing- Office
Mining, quarrying, and oil and gas extraction- Production	Real Estate and Rentals
Mining, quarrying, and oil and gas extraction- Office	Professional and Technical Services
Manufacturing (Light Industries)- Production	Office of companies and enterprises
Manufacturing (Light Industries)- Office	Educational Services
Manufacturing (Heavy Industries)- Production	Public Administration & Social assistance (from government)
Manufacturing (Heavy Industries)- Office	Activities related to Health Services- Production
Utilities (includes waste management)- Production	Activities related to Health Services- Office
Utilities (includes waste management)- Office	Organizations related with employment, Unions and related- Office
Construction- Production	Entertaining, Media, Cultural Organizations Sport Organizations and others- Production
Construction- Office	Entertaining, Media, Cultural Organizations Sport Organizations and others- Office
Wholesale and Retail Trade- Production	
Wholesale and Retail Trade- Office	

**Table A-2.** Occupation categories defined for the Caracas region

Occupations
Managers (Public and Private Companies) - Professionals, Scientists and Intellectuals (including Quality control, Biology and affiliated) - Technicians in Administration and Finances - Custom and Taxes Agents
Medical Doctors and Nurses (Professionals and Technicians)
Higher Education
Primary, Special and Other Education (Professionals and Technicians)
Sales Representatives, Customer Services and other occupations involved in sales
Employees in Manufacturing (Mechanics, Machine Operators, Installers, Waste Collectors), Labourers (Manufacturing Transport and the no well specified category)
Drivers (skilled and Unskilled)
Agriculture and Farming Qualified Workers, Labourers (agriculture, farming and mining)
Occupations that do not use non-residential space (housekeeping cleaners, window cleaners and street vendors)

**Table A-3.** Good and services categories

Goods and Services		Goods and Services	
Agricultural Products		Finances, Insurance, Real Estate and Rental Services	
Mining, Quarrying, and Oil and Gas Extraction		Professional and Technical Services	
Light Manufacturing Products		Office of Companies and Enterprises Services	
Heavy Manufacturing Products		Public Administration & Social Assistance Services	
Utilities Services		Educational Services	
Construction Services		Health and related activities Services	
Wholesale and Retail Trade Services		Employment Organizations Services	
Transportation and Warehousing Services		Entertaining, Media and Sport Services	

**Table A-4.** Residential and non-residential floor space categories

Residential Space			Non-residential Space		
No	Space Code	Space Name	No	Space Code	Space Name
1	Slum_11	Centrally located	1	Retail	Retail
2	Slum_12	Less accessible	2	Office-retail	Office-retail
3	Slum_13	Less accessible and less dense	3	Industrial - Retail	Industrial - Retail
4	Slum_14	Poor accessibility small agriculture	4	Industrial	Industrial
5	Slum_15	Poor accessibility agriculture	5	Higher education	Higher education
6	SFR_21	The highest quality	6	Primary education	Primary education
7	SFR_22	Good quality	7	Hospitals	Hospitals
8	SFR_23	Medium quality	8	Government	Government
9	SFR_24	Medium minus quality	9	Sociocultural	Sociocultural
10	SFR_25	Low quality	10	Agriculture	Agriculture
11	SFR_26	The highest mixed quality	11	Utilities	Utilities
12	SFR_27	Medium mixed quality			
13	SFR_28	Low mixed quality			
14	MFR_29	High quality			
15	MFR_30	Medium-high quality			
16	MFR_31	Medium quality			
17	MFR_32	Medium-low quality			
18	MFR_33	Low quality			
19	MFR_34	High mixed quality			
20	MFR_35	Medium-low mixed quality			

Note: Slum = informal residential, SFR = Single Family Residential, and MFR = Multifamily Residential