

# Supplementary Materials: Mapping Urban Land Use by Using Landsat Images and Open Social Data.

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**Table S1.** Types of original and aggregated POIs.

Aggregated Type	Initial Type	Description
Residential	Residential area	communities, villas
Marketing & Recreation	Automobile sales and service	Automobile brand stores, car marketing and car maintenance places etc.
	Life service	removers, travel agencies, laundries, express logistics, business halls of mobile or electric power, beauty salons, <i>etc.</i>
	Marketing service	shopping malls, convenience and department stores, home building material marketplaces, electronic appliance stores, special stores ( <i>i.e.</i> , pawnshop, auction), supermarkets, business streets, <i>etc.</i>
	Leisure service	recreational places( <i>i.e.</i> , nightclub, KTV, bar), holiday resorts, sport stadiums etc.
Service building	Business building	flats, business office buildings, business premises, <i>etc.</i>
	Banking and insurance service	banks, insurance and security companies etc.
	Business enterprise	internet technology, commercial trade, media and advertising affairs, <i>etc.</i>
Hotel & Restaurant	Hotel	guesthouses, star-rated hotels, motels etc.
	Restaurant	Chinese and foreign restaurants, cafeterias, coffee shops, dessert shops, snack bars, teahouses, <i>etc.</i>
Industrial	Industrial factory	metallurgy, chemicals, machinery, <i>etc.</i>
Medical	Medical treatment	special and general hospitals, clinics, animal medical facilities, <i>etc.</i>
Educational	Educational place	primary and secondary schools, universities, colleges, research institutions
Institutional infrastructure	Cultural service	convention centers, museums of art and science etc.
	Places of interest	park plazas, monuments
Government & Social organization	Government workplace	government units, public security institutions, traffic management agencies, military workplaces, <i>etc.</i>
	Foreign affair agency	foreign embassies and offices
	Social organization	social organizations, democratic parties and institutions
Transportation	Transportation facilities	parking, railway stations, bus stations, airports, <i>etc.</i>
	Road ancillary facilities	toll and service stations