

Statistics of Testing and Certification Activities in Hong Kong

Census and Statistics Department
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Census and Statistics Department
Hong Kong Special Administrative Region

Coverage

- Category A establishments
 - ◆ Covering private independent establishments mainly engaging in the following activities:
 - (i) technical testing and analysis;
 - (ii) cargo inspection, sampling and weighing services;
and
 - (iii) medical and X-ray laboratories



Coverage

- Category B establishments
 - ◆ Covering in-house laboratories in large manufacturers and exporters
- Category C establishments
 - ◆ Covering laboratories in Government departments / public organisations



Data Sources*

- Annual Survey of Economic Activities (ASEA)[#]
 - Category A establishments
 - Category B establishments
- Special data collection exercise
 - Category C establishments

Notes :

* *Fully implemented as from 2010.*

An ad hoc survey entitled “2009 Survey of Testing and Certification Activities” was conducted during December 2009 to January 2010 to collect business performance, operating characteristics and data on manpower profile for testing and certification activities in 2009, covering Category A, B and C establishments.

Please refer to the [ASEA webpage](https://www.censtatd.gov.hk/en/page_1300.html) (https://www.censtatd.gov.hk/en/page_1300.html) for details.



Data Items Collected for Testing and Certification Activities

- Category A establishments
 - ◆ Business performance, operating characteristics and data on manpower profile

- Category B and C establishments
 - ◆ Data on manpower profile

Note on interpretation of survey results

Although the overall sampling fraction for testing and certification activities was already quite high, the statistics concerned are however estimated based on data collected from a relatively small number of sampled establishments. The survey results may be subject to large sampling fluctuations and thus should be interpreted with caution.





Statistics on Category A Establishments



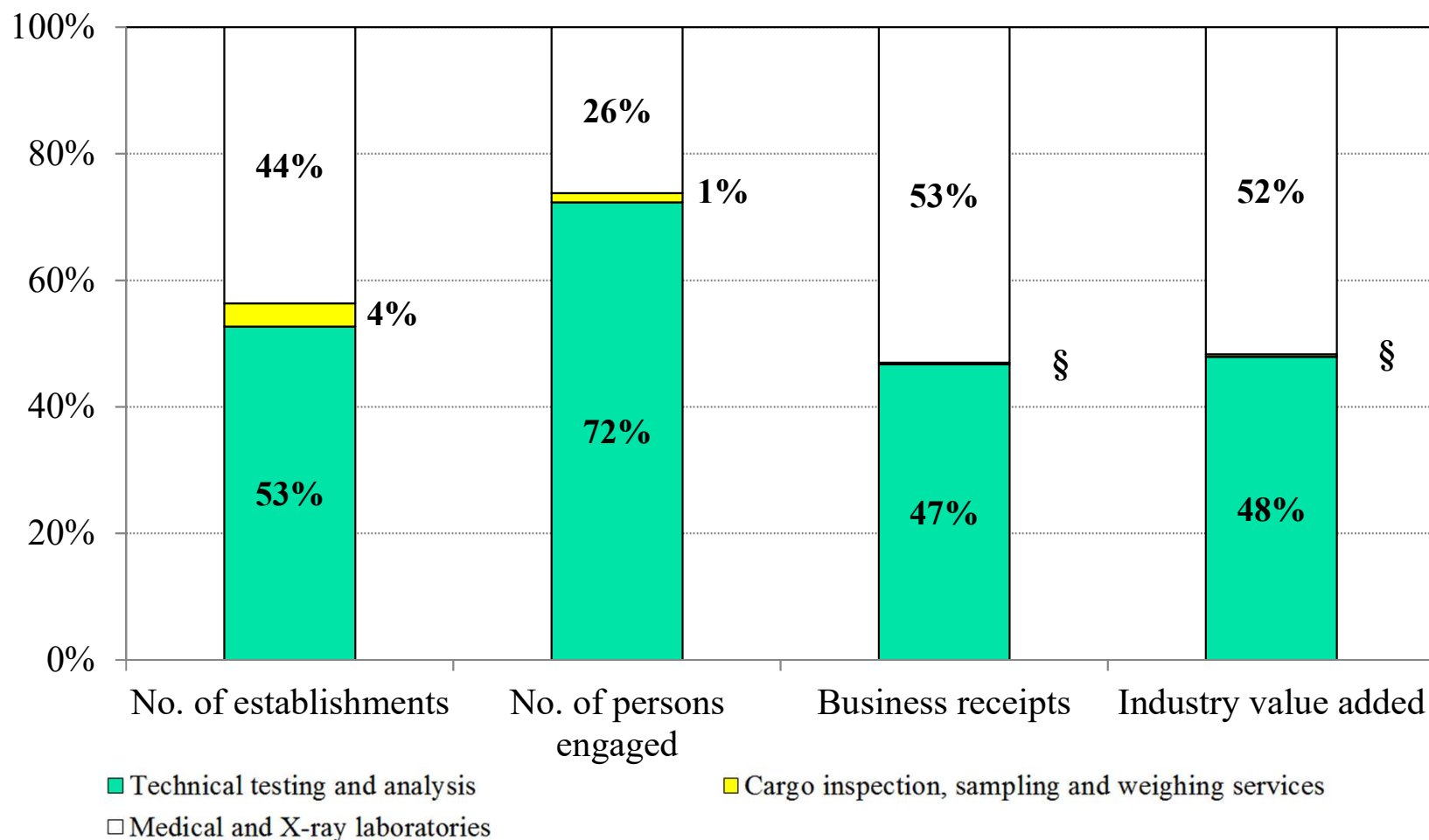
Principal Statistics of Category A Establishments

	No. of establishments	No. of persons engaged	Business receipts (HK\$ million)	Industry value added (HK\$ million)
2019	770 (+5.5%)	14 790 (+1.2%)	14,947 (-3.9%) [-3.6%]	7,338 (-4.4%)
2020	800 (+3.9%)	15 110 (+2.2%)	14,925 (-0.1%) [+1.2%]	6,714 (-8.5%)
2021	820 (+2.5%)	15 270 (+1.1%)	20,030 (+34.2%) [+34.2%]	9,285 (+38.3%)
2022	850 (+3.7%)	15 060 (-1.4%)	24,899 (+24.3%) [+25.7%]	10,887 (+17.3%)

- (1) The numbers of establishments and persons engaged are rounded to the nearest 10.
 (2) Figures in brackets represent percentage changes over previous year.
 (3) Figures in square brackets represent percentage changes over previous year by excluding dividends.



Principal Statistics of Category A Establishments Contributions of Component Industries, 2022

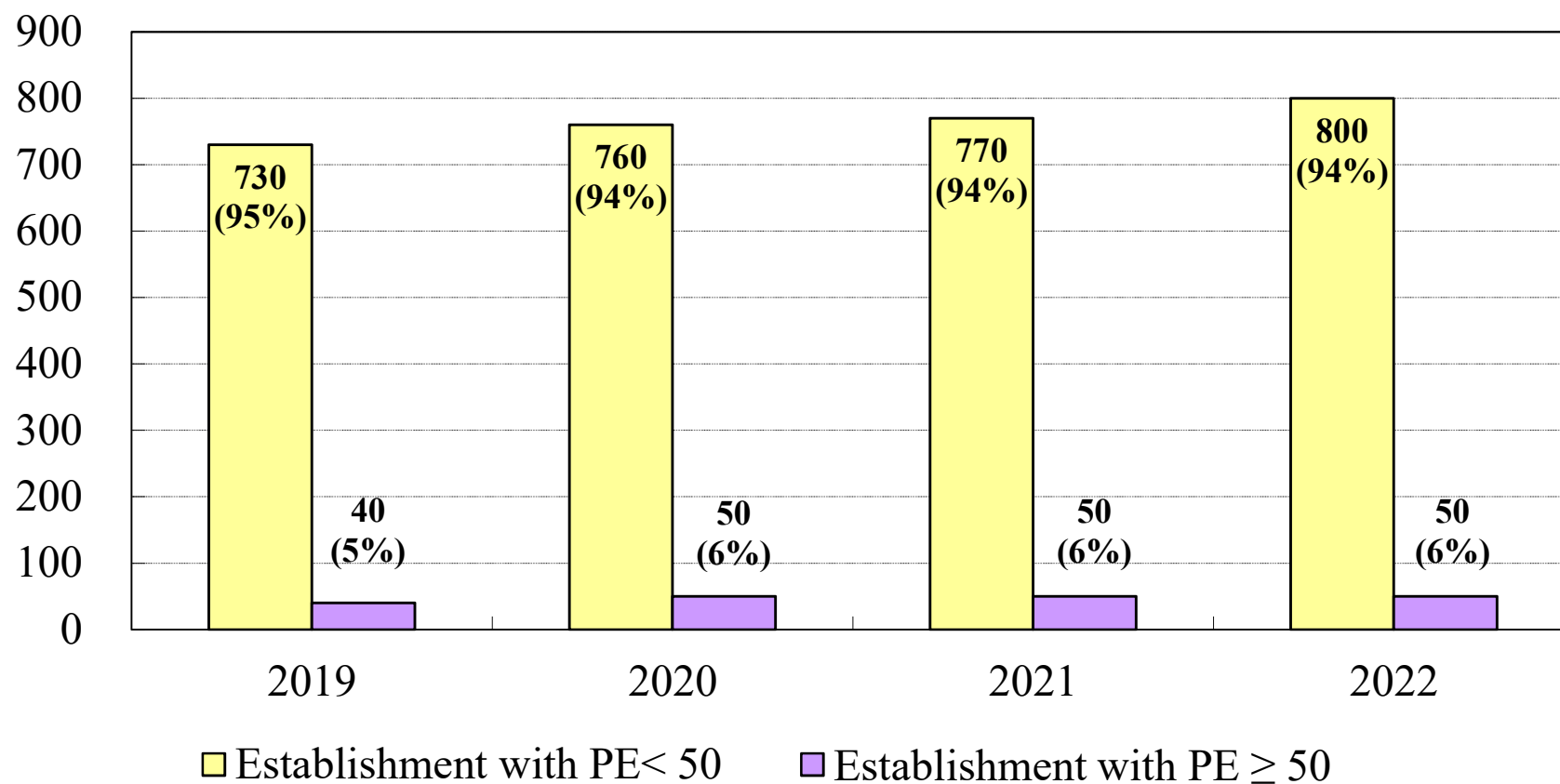


§ Percentage less than 0.05%.

(1) Figures may not add up to 100% due to rounding.



No. of Category A Establishments by Size of Establishment, 2019 – 2022

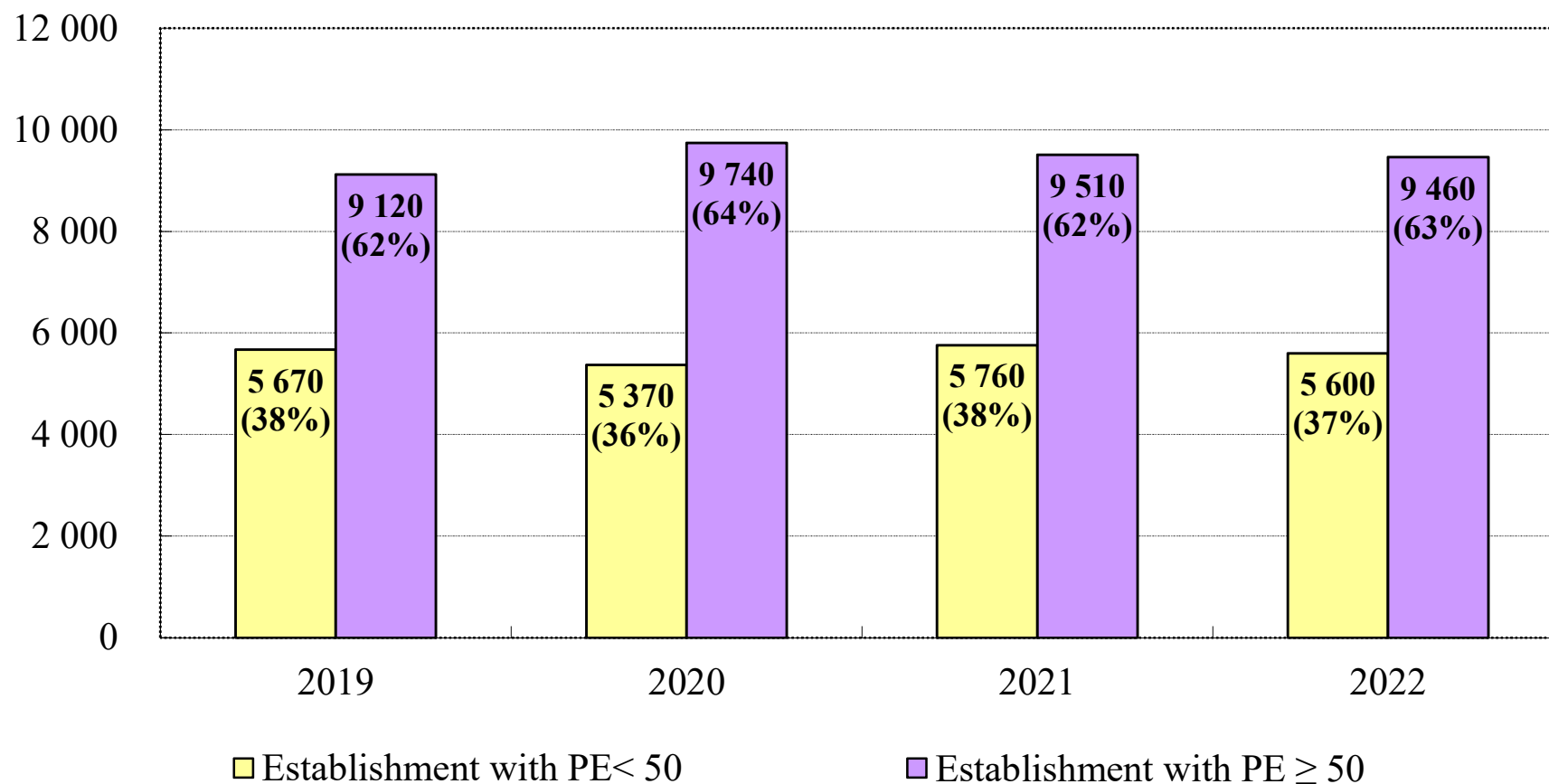


(1) Figures in brackets denote the respective % shares of the totals.

(2) The numbers of establishments are rounded to the nearest 10 and may not add up to the corresponding totals on page 7 due to rounding.



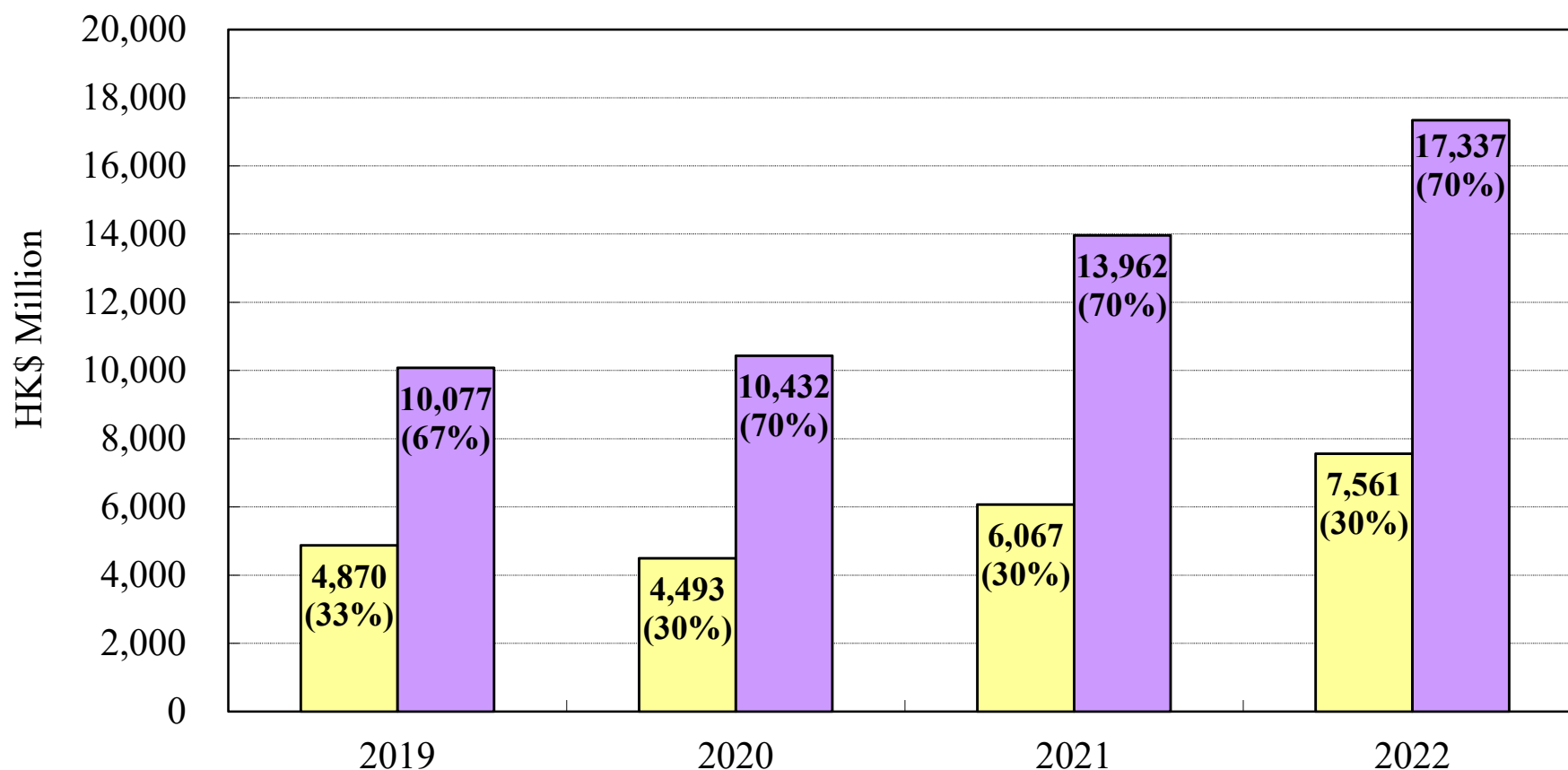
No. of Persons Engaged in Category A Establishments by Size of Establishment, 2019 - 2022



- (1) Figures in brackets denote the respective % shares of the totals.
- (2) The numbers of persons engaged are rounded to the nearest 10 and may not add up to the corresponding totals on page 7 due to rounding.



Business Receipts of Category A Establishments by Size of Establishment, 2019 - 2022



□ Establishment with PE < 50 □ Establishment with PE ≥ 50

(1) Figures in brackets denote the respective % shares of the totals.

(2) The business receipts may not add up to the corresponding totals on page 7 due to rounding.



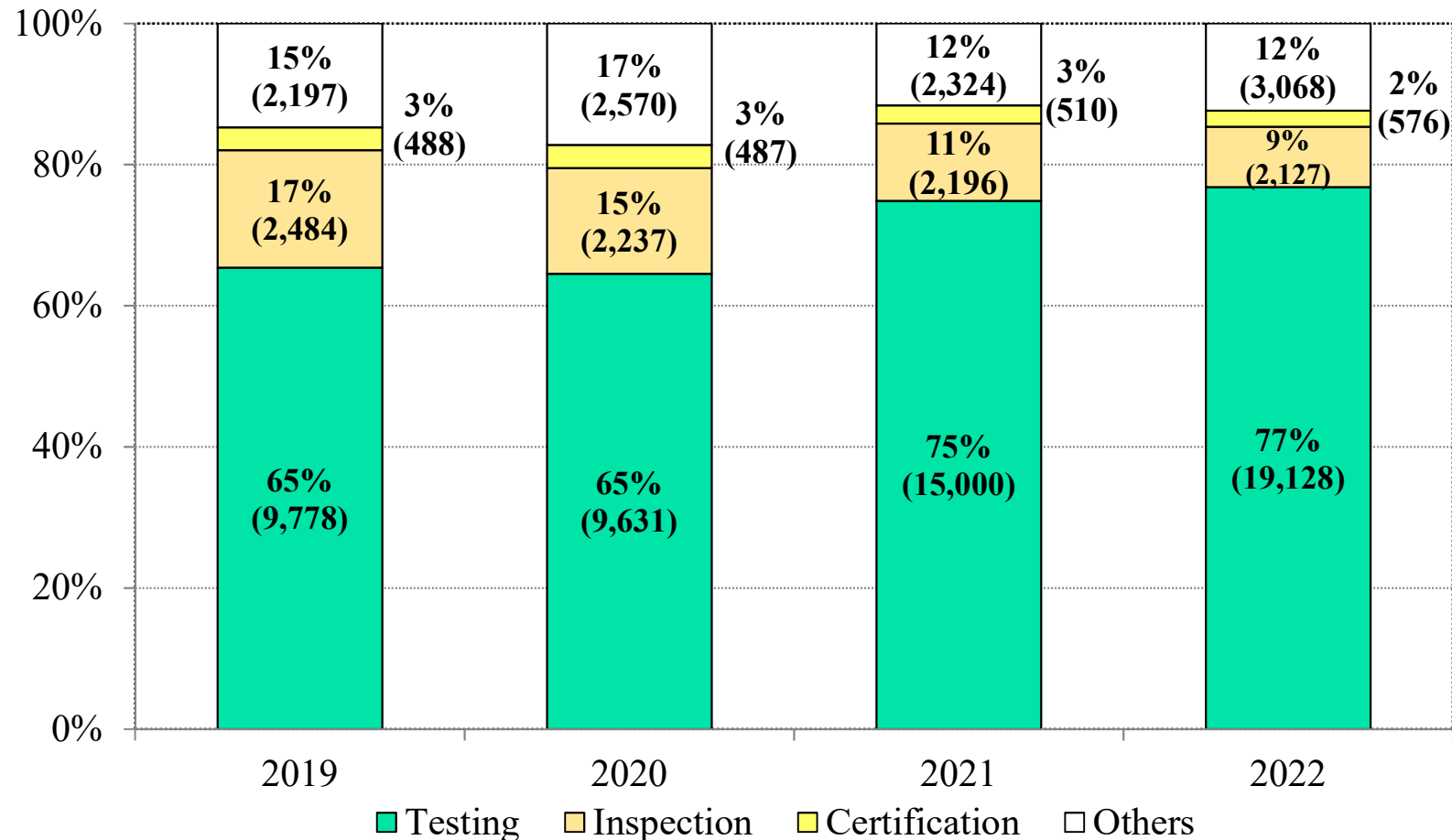
Business Concentration of Category A Establishments, 2019 - 2022

	Proportion accounted for by establishments engaging 100 persons or more		
	Establishments	Persons engaged	Business receipts
2019	3.5% (30)	57%	64%
2020	3.8% (30)	56%	60%
2021	3.0% (30)	51%	49%
2022	3.3% (30)	52%	49%



Figures in brackets denote the number of establishments involved and are rounded to the nearest 10.

Distribution of Business Receipts of Category A Establishments by Type of Services, 2019 - 2022



(1) "Others" includes other service receipts as well as dividends and interests received. It also includes the amount of subsidy related to anti-epidemic measures in 2020-2022.

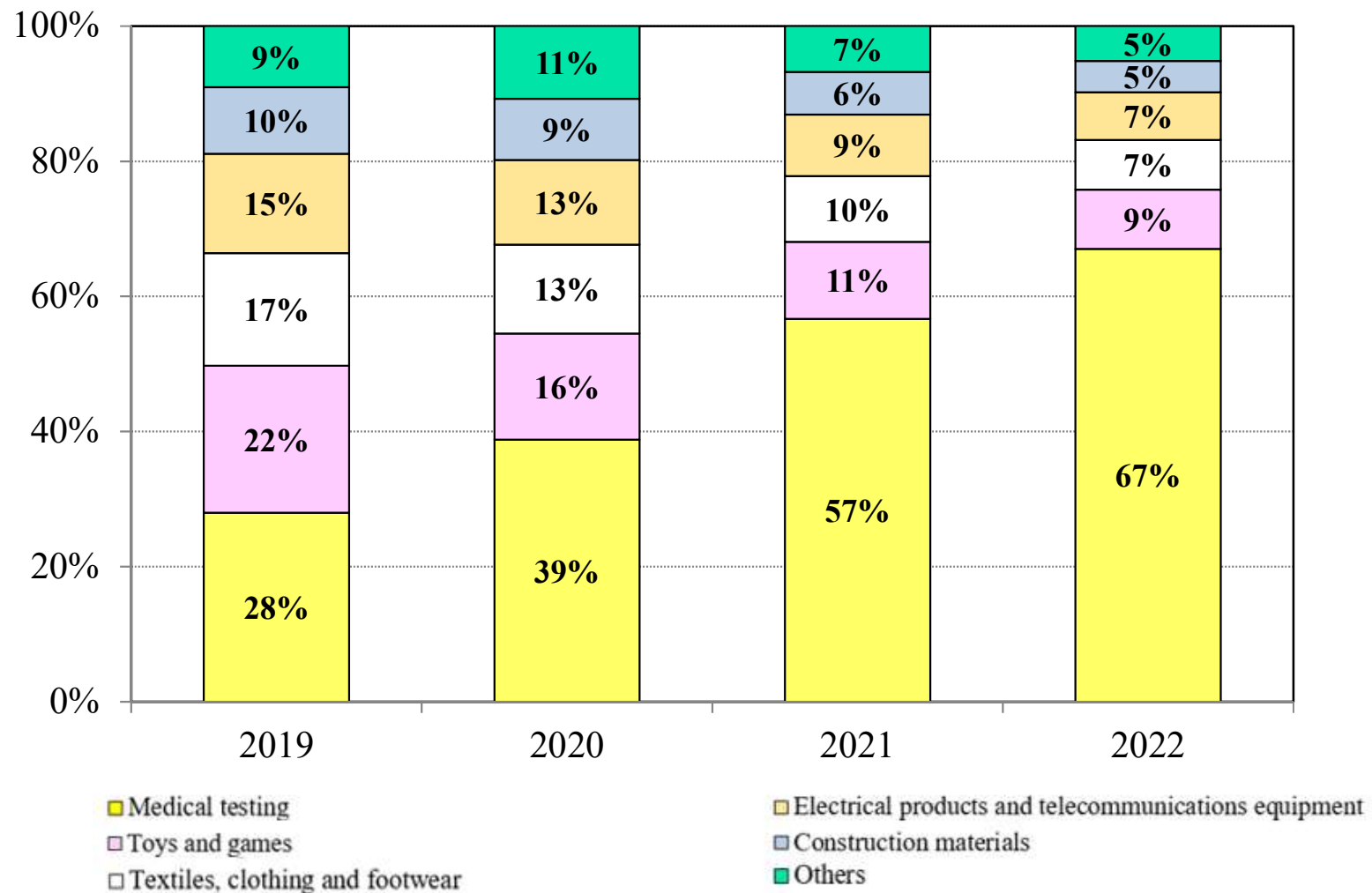
(2) Figures may not add up to 100% due to rounding.

(3) Figures in brackets denote the value of business receipts in HK\$ million.

(4) The business receipts may not add up to the corresponding totals on page 7 due to rounding.



Distribution of Business Receipts of Category A Establishments from Rendering Testing Services by Product/Services Tested, 2019 - 2022



Figures may not add up to 100% due to rounding.



Business Receipts of Category A Establishments from Rendering Testing Services by Product/Service Tested, 2019 - 2022

HK\$ Million

Product / Service	2019	2020	2021	2022
Medical testing	2,734 (28%)	3,738 (39%)	8,501 (57%)	12,825 (67%)
Toys and games	2,129 (22%)	1,513 (16%)	1,712 (11%)	1,677 (9%)
Textiles, clothing and footwear	1,629 (17%)	1,264 (13%)	1,460 (10%)	1,407 (7%)
Electrical products and telecommunications equipment	1,436 (15%)	1,206 (13%)	1,366 (9%)	1,346 (7%)
Construction materials	967 (10%)	876 (9%)	946 (6%)	886 (5%)
Others	882 (9%)	1,034 (11%)	1,016 (7%)	987 (5%)
Total	9,778 (100%)	9,631 (100%)	15,000 (100%)	19,128 (100%)

(1) Figures in brackets denote the respective % shares of the totals.

(2) Figures may not add up to the total or 100% due to rounding.



Gross Surplus / Business Receipts Ratio

- Business receipts include service receipts, receipts from sales of goods, commissions, rental, interest and other income (e.g. dividends and government subvention)
- $\text{Gross surplus} = \text{Business receipts} - \text{Compensation of employees} - \text{Operating expenses}$
- Broadly measures the business profit situation



Gross Surplus / Business Receipts Ratios of Selected Major Industries

	2019	2020	2021	2022
Testing and certification services industry - Category A establishments	25.3% [18.7%]	22.9% [17.1%]	24.9% [19.3%]	27.6% [23.1%]
Other selected industries :				
Manufacturing	6.4%	5.5%	6.7%	7.7%
Import / export trade	7.9%	8.0%	8.0%	9.2%
Retail trade	5.9%	4.9%	4.5%	6.0%
Food services	6.6%	6.5%	3.1%	3.3%

Ratios compiled by excluding dividends are given in square brackets.



Gross Surplus / Business Receipts Ratios of Selected Major Industries (Cont'd)

	2019	2020	2021	2022
Testing and certification services industry - Category A establishments	25.3% [18.7%]	22.9% [17.1%]	24.9% [19.3%]	27.6% [23.1%]
Other selected industries (cont'd) :				
Professional, scientific and technical activities	17.7%	19.7%	19.0%	20.2%
<i>Architectural, surveying and engineering services related to real estate and construction</i>	12.2%	11.3%	13.2%	14.1%
<i>Accounting, bookkeeping and auditing activities, tax consultancy</i>	18.8%	20.3%	18.0%	20.0%
<i>Legal activities</i>	33.7%	34.8%	34.6%	34.8%
Financing (except banking)	55.0%	54.2%	51.6%	54.2%

Ratios compiled by excluding dividends are given in square brackets.

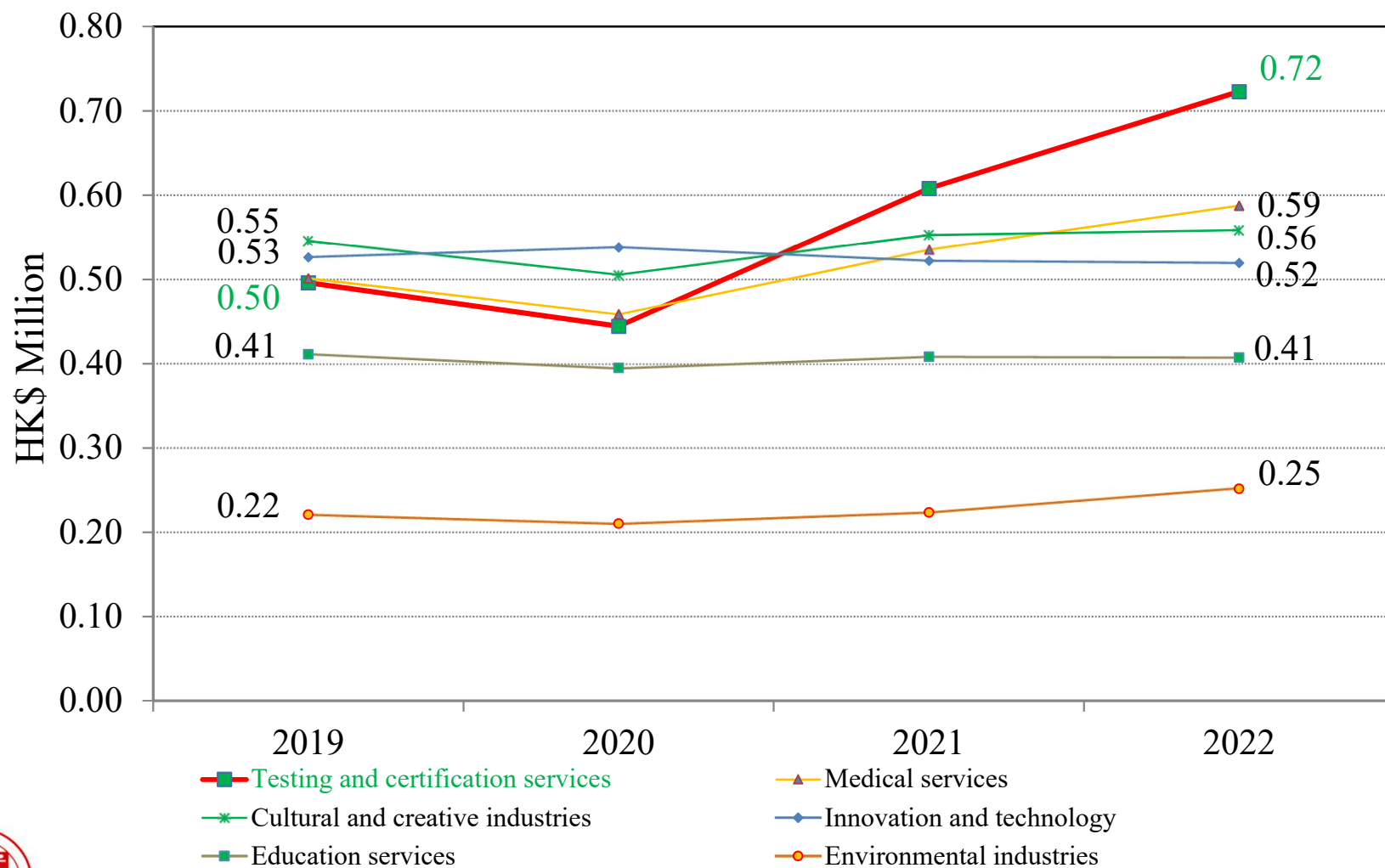


Value Added of Testing and Certification Services Industry (Category A Establishments)

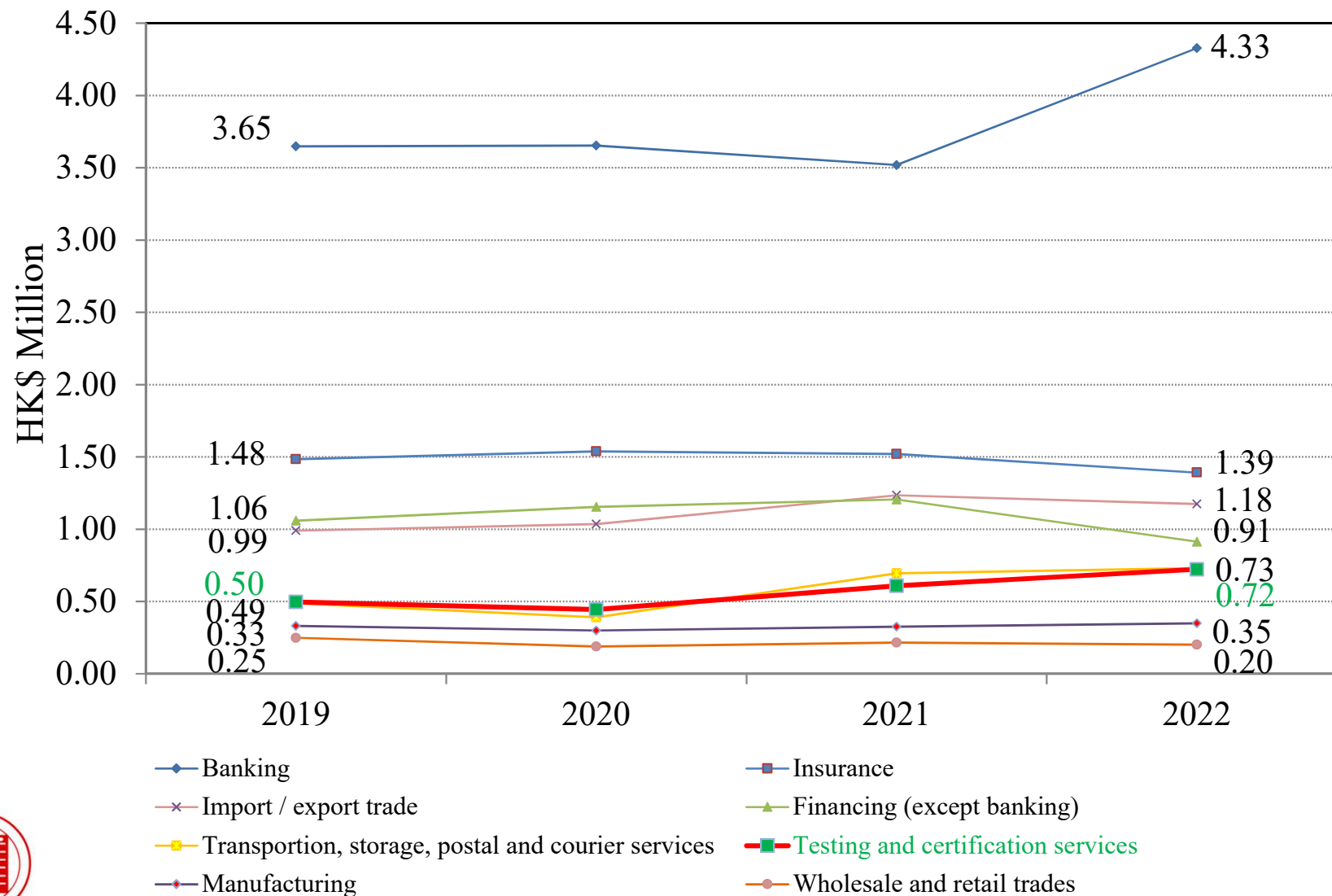
- Measures the net output of an economic activity
(Value of output minus value of goods and services
used in production)
- Value added increased from \$7.3 billion in 2019 to
\$10.9 billion in 2022
(0.4% of Hong Kong's GDP in 2022)
- Value added per person engaged increased from
\$0.50 million in 2019 to \$0.72 million in 2022



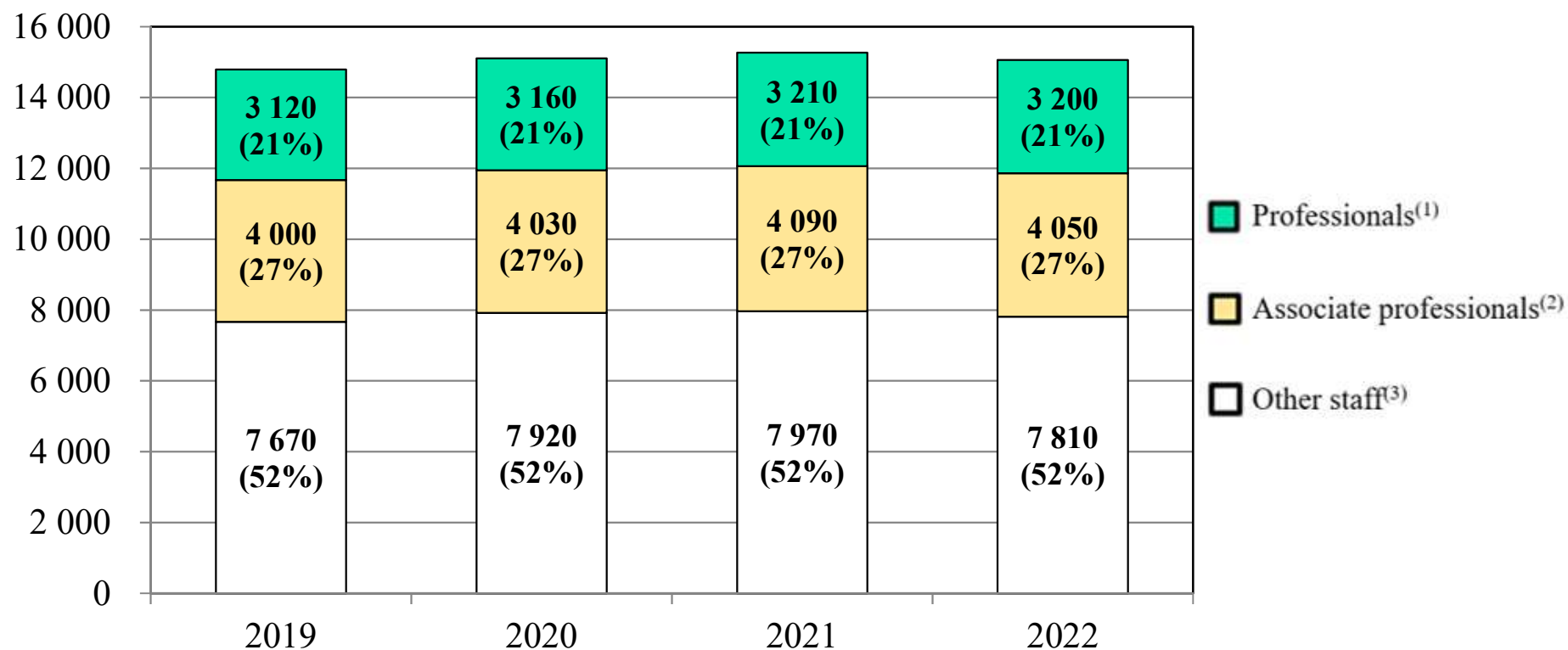
Value Added per Person Engaged of Selected Industries, 2019 - 2022



Value Added per Person Engaged of Selected Major Industries, 2019 - 2022



No. of Persons Engaged in Category A Establishments by Occupation, 2019 – 2022



(1) Refer to professional staff providing testing, inspection and certification services who engage in the practical application of scientific concepts and theories (e.g. physicists, biologists, chemists, biochemists, etc.).

(2) Refer to associate professional staff providing testing, inspection and certification services who assume operational responsibility and giving technical support to professionals in engineering and natural sciences (e.g. life science technicians, medical science technicians, medical laboratory technicians, etc.).

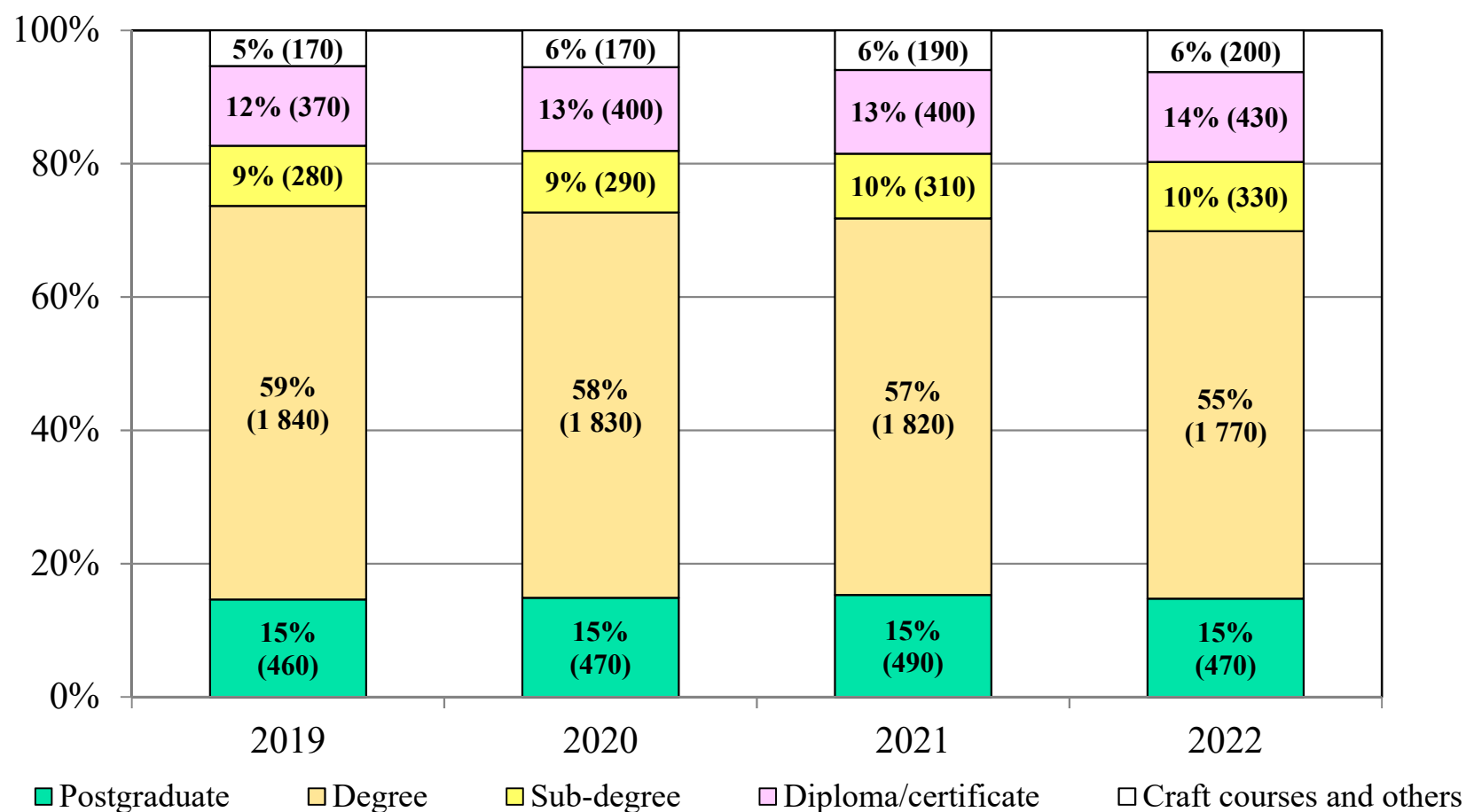
(3) Include managers and administrators; other professional and associate professional staff and sales workers.

(4) Figures in brackets denote the respective % shares of the totals, and may not add up to 100% due to rounding.

(5) The numbers of persons engaged are rounded to the nearest 10 and may not add up to the corresponding totals on page 7 due to rounding.



Proportion of Professional Staff Providing Testing, Inspection and Certification Services in Category A Establishments by Educational Attainment, 2019 - 2022




(1) Figures may not add up to 100% due to rounding.

(2) Figures in brackets denote the number of persons engaged.

(3) The numbers of professional staff above are rounded to the nearest 10 and may not add up to the corresponding totals on page 22 due to rounding.





Statistics on Category B and Category C Establishments



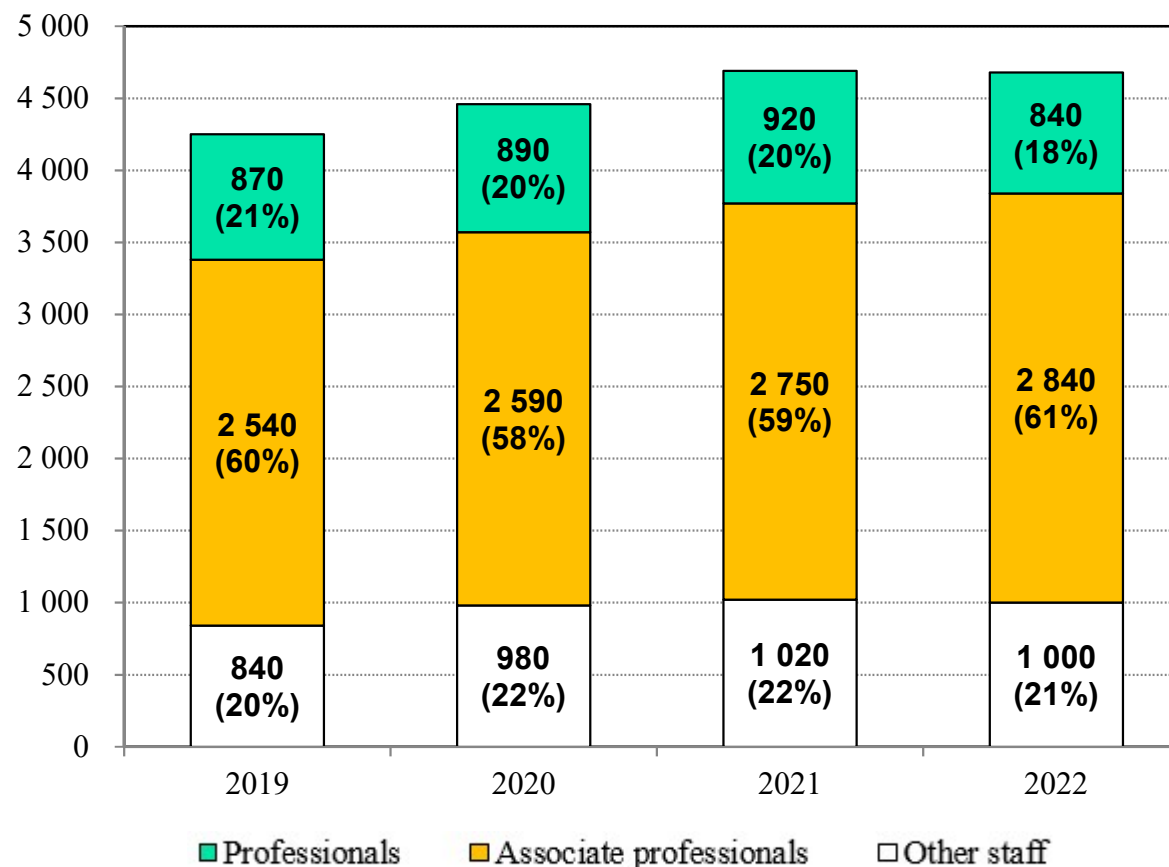
Principal Statistics of Testing and Certification Activities

	No. of establishments				No. of persons engaged			
	Category A	Category B	Category C	Total	Category A	Category B	Category C	Total
2019	770	40	60	870	14 790	590	3 660	19 040
2020	800	45	60	905	15 110	660	3 800	19 560
2021	820	45	60	925	15 270	660	4 040	19 970
2022	850	40	60	950	15 060	630	4 050	19 730

Figures are rounded to the nearest 5 or 10 and may not add up to the corresponding totals due to rounding.



No. of Persons Engaged by Occupation in Category B and C Establishments, 2019 - 2022



- (1) Figures in brackets denote the respective % shares of the totals, and may not add up to 100% due to rounding.
- (2) The numbers of persons engaged are rounded to the nearest 10 and may not add up to the corresponding total number of persons engaged for Category B and C establishments on page 25 due to rounding.



Thank You

