

科技統計名詞定義手冊

行政院國家科學委員會

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前 言

在科學技術與知識經濟日益發展下，科技研發的投入與新技術的發展與應用，促使科學技術的研發與創新不斷累積與進步，進而成為國際競爭力及經濟成長的驅動力。因此，正確且完備的科技統計資料有助於了解我國科技活動的情況，以作為制定政策之依據。

鑒於科技統計資料的重要性，首要工作在於制定獲得大家共識及確認的統計名詞及定義，尤其是在資料蒐集者的支持與配合，俾取得一致且正確的統計資料。因此，本會於民國 78 年出版「中華民國科技統計名詞定義手冊(中華民國 78 年 12 月)」，共收錄 126 則科技統計名詞。

但鑒於民國 78 年迄今科技統計名詞及定義有所更動，及為配合行政院主計處「中華民國第四期統計發展中程計畫」之「加強科技研發統計」個案計畫，故本會於民國 92 年起組成本手冊修訂之「諮詢委員會」及「工作小組」，進行修訂作業。同時，為了與國際定義同軌，便於進行國際比較，以瞭解我國之科技水準，本手冊在名詞的定義以「經濟合作暨發展組織(Organisation for Economic cooperation and Development, OECD)」出版之「法城手冊(Frascati Manual)」、「奧斯陸手冊(Oslo Manual)」及「專利手冊(Patent Manual)」為主要參考之工具，收錄與研究發展、技術創新以及其他科技相關名詞及定義。

本手冊共收錄 129 則名詞，區分為八個部分：1 總括，2 科技人力統計，3 科技經費統計，4 科技計畫，5 科技服務，6 科技成果，7 研究發展與技術創新調查，8 其他科技統計。

科技統計名詞定義之修訂，在工作小組成員的熱心參與、提供建議，以及諮詢委員的逐條審議下，圓滿完成。惟闕漏之處仍在所難免，尚祈使用者不吝指正，藉供日後修訂之參考。

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科技統計名詞定義

Definitions of Science and Technology Statistics Terminology

分類編號	名詞	定 義
1520001	科技	廣義而言，科技即指科學與技術之簡稱；狹義而言，則強調利用創新而引發技術層面之應用。
1520002	科學	係指以假設、觀察、實驗、調查、分析、推論等方法，對自然現象或思考方式研究所得之有系統、有組織的知識。其目的在依據系統化與邏輯化的研究，發現、描述、組織和解釋事實；其特性則係根據實證觀察而提出假設及驗證的方法，並經由反覆的驗證發現，進而建立或累積之有系統、有組織的知識。
1520003	技術	係指將科學研究的成果應用於生產者，除實質的製造技術外，尚包括產品設計及相互配合之組織管理，是一種達到實用目的之知識、程式及技藝方法。
1520004 出處：法城手冊 (OECD)	科技活動	係指在科學技術領域中，凡與科技知識的產生、增加、傳播與應用等相關的系統化活動均為科技活動。科技活動包括：(1)研發(R&D)、(2)科技教育和訓練(STET)、(3)科技管理(STAd)、(4)科技服務(STS)及(5)科技人才延攬等。
1520005 出處：法城手冊 (OECD)	研究發展(研發)	係指在有系統的基礎上從事創造性的工作，其目的在擴大人類、文化和社會等知識的累積，以及運用累積的知識構思新的應用。(本手冊將研究發展統一稱為研發。)
1520006 出處：法城手冊 (OECD)	國防研發	係指所有主要因國防動機而進行的研發計畫，不論其內容為何，也不論是否有附帶的民間應用。國防研發的目標是創造或提升技術或設備，以提供國家、海外或多國的武力所使用。國防研發也包含了由企業所資助而主要應用在國防領域的研發，但不包含由國防部資助的民用研發。

CODE	ITEM	DEFINITION
1520001	S&T	In general, S&T is the abbreviated term for science and technology, in particular, S&T emphasize the utilization of innovation to bring about technological applications.
1520002	Science	The systematized knowledge processed or attained through the study of natural phenomena or philosophy by ways of hypothesis, observations, experiments, investigations, analysis and explain natural facts through systematic and logical study. Science proposes methods for hypothesis and verification based on practical observations, and gradually establishes or accumulates systematic and formulated knowledge through repeatedly verifying and discovering.
1520003	Technology	Technology is the application of results from scientific research to production, including practical manufacturing technology as well as product design and organizational management. It is a kind of knowledge, process and technique required for practical purpose.
1520004	S&T Activities (STA)	STA are systematic activities, which are concerned with the generation, advancement, dissemination and application of scientific and technical knowledge in all fields of science and technology. In addition to STA comprise (1) research and experimental development (R&D), (2) scientific and technical education and training (STET), (3) scientific and technological administration (STAd), (4) scientific and technological services (STS) and (5) scientific and technical personnel recruitment.
1520005	Research and Experimental Development (R&D)	R&D comprise creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.
1520006	Defense R&D	Defense R&D includes all R&D programs undertaken primarily for defense reasons, regardless of their content or whether they have secondary civil applications. The objective of defense R&D is the creation or enhancement of techniques or equipment for use by national, overseas or multinational armed. It also includes enterprise-financed R&D for which the main applications are in the defense area and doesn't include civil R&D financed by ministries of defense.

分類編號	名詞	定義
1520007	科技管理	係指從事科技活動發展策略及科技方案之研擬規劃、科技計畫之推動和計畫作業之管理等活動。
1520008	科技服務	係指與研發有關之系統化服務活動，其有助於科技知識之生產、傳播與應用。科技服務包括圖書館與博物館之科技活動，科技文獻之編譯，調查與探勘活動，與社經現象有關之資料蒐集，測試服務、標準化與品質管制、客戶諮詢與顧問服務、公務機關的專利與證照核發等業務。
出處：法城手冊 (OECD)		
1520009	科技教育與訓練	係指為增進員工成為科學家及工程師之職能，所從事高等教育、在職進修、研習、訓練等活動。科技教育與訓練涵蓋非大學之高等專長教育訓練、可獲大學學位、學士後其他深造之高等教育訓練、以及為訓練科學家及工程師所安排的終身訓練。這些活動大致符合國際教育標準分類的第 5 層及第 6 層。(參見附錄二)
出處：法城手冊 (OECD)		
1520010	海外科技人才延攬	係指吸引海外科技人才之措施。
1521201	科技人力資源	係指從事科技活動的人員，可根據學歷或目前職業來分類。若從學歷分類可依循「國際標準教育分類」(ISCED)(詳見附錄二);若從職業分類則依循「國際標準職業分類」(ISCO)。研發人力僅為科技人力資源之一部分。
出處：法城手冊 (OECD)		
1521202	科技管理人力	係指投入科技管理之人力。
1521203	科技服務人力	係指投入科技服務之人力。
1521101	科技教育與訓練人力	係指從事科技教育與訓練之人力。分為高等教育及科技訓練之師資。

CODE	ITEM	DEFINITION
1520007	S&T Administration (STAd)	STAd comprises all the activities concerned with the proposition and planning of S&T strategies and programs, the promotion of S&T projects and the management of S&T planning operations.
1520008	S&T Services (STS)	STS are systematic activities concerned with research and development and contributing to the generation, dissemination and application of scientific and technical knowledge. STS include scientific and technological activities (STA) of libraries and museums, translation and editing of S&T literature, surveying and prospecting, data collection on socio-economic phenomena, testing, standardization and quality control, client counseling and advisory services, patent and licensing activities by public bodies.
1520009	S&T Education and Training (STET)	STET comprise higher education or on-the-job study, work-shop, training to help increase employee's ability and upgrade them as scientists and engineers. STET cover all activities comprising specialized non-university higher education and training, higher education and training leading to a university degree, postgraduate and further training, and organized lifelong training for scientists and engineers. These activities correspond broadly to International Standard Classification of Education (ISCED) levels 5 and 6. (See appendix 2)
1520010	Overseas S&T Personnel Recruitment	The measures that attract overseas S&T personnel.
1521201	Human Resources for Science and Technology (HRST)	HRST cover all personnel engaged in scientific and technological activities. HRST are defined in terms of qualifications or current occupation. In the first case, the appropriate classification is the International Standard Classification of Education (ISCED)(See appendix 2) and, in the second, it is the International Standard Classification of Occupations (ISCO). R&D personnel are only parts of HRST.
1521202	Manpower of S&T Administration	Persons engaged in S&T administrative activities.
1521203	Manpower of STS	Persons engaged in STS activities.
1521101	Manpower of STET Activities	Persons engaged in STET activities are classified as higher education faculty and S&T training instructors.

分類編號	名詞	定義
1521204	高等教育師資	係指包括高等教育教師人數及其職級。
1521205	高等教育教師人數	係指任教於專科學校、獨立學院、大學及研究所之各校教師人數。
1521206	高等教育教師職級	係分為四級： 一、教授。 二、副教授。 三、助理教授。 四、講師。
1521102	科技訓練講師	係指從事在職進修、研習、訓練等科技訓練活動之講師。
1521207	潛在科技人力	係指透過科技教育與訓練活動所培育之人力。
1521208	高等教育	係指包括專科學校、獨立學院、大學及研究所教育。
1521209	高等教育畢業人數	係指專科學校、獨立學院、大學及研究所當年畢業之學生人數。
1521210	高等教育學生人數	係指專科學校、獨立學院、大學及研究所，依各學年度所統計之就讀人數。
1521103	在職進修	係指在職之科技人員，為應科技發展或社會變遷之需，提高其研究及技術的能力，而至教育部承認的國內、外大專院校內修讀學位或取得文憑。
1521104	在職研習	係指在職之科技人員，至國內、外大專院校或研究機構從事個案研究、實習或學習使用新設備及機器，以開發新工作或解決實際問題。

CODE	ITEM	DEFINITION
1521204	Faculty of Higher Education	Number and position levels of teachers in higher education sector.
1521205	Number of Teachers in Higher Education	The number of authorized faculty in junior colleges, universities/colleges and graduate schools, who meet the requirements stated in MOE's "Regulation Supervising Teachers' Qualification for University and College".
1521206	Higher Education Teachers Level	Higher Education Teachers are ranked at four levels: (1) Professor (2) Associate Professor (3) Assistant Professor (4) Lecturer
1521102	Teachers of S&T Training	The instructors conducting on-the-job study, workshops and training.
1521207	The Potential Manpower of STA	Manpower to be cultivated through STET.
1521208	Higher Education	Education provided by junior colleges, universities/colleges and graduate schools, education institutions.
1521209	Number of Higher Education Graduates	Number of graduates from junior colleges, universities/colleges and graduate schools at specific years.
1521210	Number of Higher Education Students	Number of students studying at junior colleges, universities/colleges and graduate schools for each academic year.
1521103	On-the-job Study	Advanced study for employed S&T personnel to pursue a higher degree at a university/college approved and accepted by MOE.
1521104	On-the-job Workshop	Training program provided by universities or research institutes at home or abroad for employed S&T personnel to conduct case studies or obtain practical experience in operating new facilities and machineries for exploitation of new work or resolution of existing problems.

分類編號	名詞	定義
1521105	在職訓練	係指在職之科技人員，參與各機關自行或委託其他機構辦理之有關基礎、專業、管理等課程之訓練，以習得較高層次或新的知識與技術。
1521106	延攬海外之科技人才	係指經由科技人才延攬措施而被延攬之科技人力。依期間之長短，可分為長期及短期延攬之科技人才。長期係指被延攬之人才在國內工作的時間達一年以上者；短期係指被延攬之人才在國內工作的時間未滿一年者。
1521211	學歷別	係指科技人力之學歷，分為五級： 一、博士。 二、碩士。 三、學士。 四、專科。 五、其他。
1521212	年齡組	係指科技人力之年齡，分為六組： 一、24 歲以下； 二、25 至 34 歲； 三、35 至 44 歲； 四、45 至 54 歲； 五、55 至 64 歲； 六、65 歲以上。
1523101	政府科技經費	係指政府投入於科技活動之經費，包括研發經費、科技管理經費、科技服務經費、科技教育與訓練經費(不含一般正規高等教育經費)以及科技人才延攬之經費。
1523102	研究發展計畫規劃性經費	係指投入於規劃研究發展政策、方案、訂定制度或研擬科技計畫之管理費用。

CODE	ITEM	DEFINITION
1521105	On-the-job Training	Training program for employed S&T personnel to participate in relevant basic, professional and management courses in order to obtain upgraded or advanced knowledge and technology.
1521106	Researchers Recruited from Overseas	S&T manpower recruited by recruitment measures. The recruited manpower is categorized by duration. Those who work more than one calendar year are long-term researchers and those working less than one year are short-term researchers.
1521211	Qualifications	Qualifications of S&T manpower include five levels: (1) Doctorate; (2) Master; (3) Bachelor; (4) Junior College Graduate; (5) Others
1521212	Age Groups	Age of S&T manpower includes six levels: (1) less than 24; (2) 25 to 34; (3) 35 to 44; (4) 45 to 54; (5) 55 to 64; (6) over 65.
1523101	S&T Expenditure of Government	S&T Expenditure of Government means the expenditure of central government investing in all S&T activities such as R&D, STAd, STS, STET (excluding general expenditure of higher education sector) and S&T personnel recruitment.
1523102	Planning Expenditure for R&D Projects	Expenditure for administrative activities incurred for planning of R&D strategies and programs and proposition of S&T projects.

分類編號	名詞	定義
1523103	研究發展計畫支援性經費來源	係指投入於研究發展單位之開辦費、非直接研究人員之人事費、共同研究設備及研究用建築與維護等之管理費用。
1523104	科技管理經費	係指投入於科技活動與科技管理方面之經費。包括研究發展計畫規劃性經費、研究發展計畫支援性經費及科技管理之人事、事務費。
1523105	科技服務經費	係指投入於科技服務方面之經費。
1523106	科技教育與訓練經費	係指投入於科技教育與訓練之經費。包括補助在職進修、研習及訓練經費支出。
1523107	高等教育經費	係指投入於高等教育之所有經費。
1523401	補助在職進修研習及訓練經費	係指投入於在職進修、研習及訓練方面之經費。
1523402	科技人才延攬之經費	係指投入於科技人才延攬方面之經費。
1520011	科技計畫	係指為達成及實現某項既定之科技發展目標，經由分析考量，所預為之具體的行動、策略、方法及步驟。
1520012	政府部門科技計畫	係指經費來自於中央、各級地方政府、國營與省市營機構之科技計畫。
1520013	民間部門科技計畫	係指經費來自民間部門，含民間企業、財團法人機構及國外委託國內單位之研究發展計畫。
1520014	重點科技計畫	係指政府為因應階段性需求，積極推動之策略性科技措施。

CODE	ITEM	DEFINITION
1523103	Supporting Expenditure for R&D Projects	The expenditure for operation cost of R&D institutes, personnel costs for the indirectly engaged researchers, administrative costs for installment and maintenance of joint research facilities and buildings.
1523104	S&T Administration Expenditure	The expenditure for administration associated with science and technology activities, including planning, supporting activities, personnel and administrative costs for R&D projects.
1523105	STS Expenditure	The expenditure invested in STS.
1523106	STET Expenditure	The Expenditure invested in STET, including spending for sponsoring on-the-job study, workshops and training.
1523107	Higher Education Expenditure	The expenditure invested in higher education
1523401	On-the-job Study, Workshop and Training Expenditure	The expenditure for on-the-job study, workshops and training.
1523402	S&T Personnel Recruiting Expenditure	The expenditure for recruitment of S&T manpower.
1520011	S&T Projects	Scientific and technologic projects are to actions, tactics, manners and steps following assays and analysis in order to reach and accomplish the objectives for scientific and technological development.
1520012	Government S&T Projects	The S&T projects sponsored by central & provincial government agencies and public enterprises.
1520013	Private S&T Projects	The S&T projects sponsored by the private sector. (including private enterprises, non-profit bodies and foreign units)
1520014	Strategic S&T Programs	The strategic S&T programs which are for the purpose of matching the demand of phase promoted by the government.

分類編號	名詞	定義
1520015	科技研究專案	係指為配合國家建設、經濟發展及民間企業之需要，集中人力財力，透過規劃作業，有系統、有目標的推動科技研究發展，並主動策劃邀請或委託有關機構進行個別研究或跨科際、上中下游之整合研究，可能包括數個相關的科技研究計畫。
1520016	科技研究計畫	係指為提高學術研究水準或配合各機關業務及民間企業需要，所從事之具有明確目標、實施進度、所需之經費預算、人力需求、預期效益及評鑑指標等之研究發展計畫。
1520017	自行研究計畫	係指研究計畫由單位本身從事進行，未委託其他單位進行研究，或與其他單位或個人共同進行者屬之。
1520018	委託研究計畫	係指研究計畫係透過某種程式，由他人或機構代為從事者，通常以契約定其權利及義務。可分為委託國內單位或個人及委託國外單位或個人研究之計畫。
1520019	委託國內單位研究計畫	係指委託國內單位或個人進行研究之計畫。
1520020	委託國外單位研究計畫	係指委託國外單位或個人進行研究之計畫。其經費未包括在全國研究發展經費項內。
1520021	合作研究計畫	係指兩個單位或個人以上(含兩個)對某項研究計畫共同規劃、協調進行研究者屬之。

CODE	ITEM	DEFINITION
1520015	S&T Research programs	The S&T research programs are initiated, promoted and implemented by organized manpower and money through deliberated and systematic planning of joint efforts in order to meet the requirements of national construction, economic development and the needs from private industries. It should also invite or commission agencies concerned with individual case studies and interdisciplinary joint research. A S&T research program may be comprised several relevant S&T research projects.
1520016	S&T Research Projects	The S&T project which is conducted under definite objectives, schedule, as well as budget, and is for the purpose of upgrading academic research levels or matching the need of government agencies or private enterprises.
1520017	Inhouse Research Projects	The inhouse research projects refer to R&D projects initiated and undertaken by the research unit itself, without commissioning other research units or individuals outside the unit.
1520018	Contract Research Projects	Contract research projects refer to R&D projects commissioned to other domestic or foreign research units or individuals, by using contracts to regulate obligation and rights on both sides.
1520019	Contract Research Projects to Domestic Organization	The ongoing R&D projects commissioned to domestic organization or individuals by contract.
1520020	Contract Research Projects to Foreign Organization	The R&D projects contracted to foreign organizations are excluded when national R&D expenditure is counted.
1520021	Joint Research Projects	Joint research projects refer to projects with more than two units or individuals engaged in planning, coordination and promotion.

分類編號	名詞	定義
1529101	科技資訊服務	<p>係指各項科技資訊服務活動之提供，包括：</p> <ol style="list-style-type: none"> 一、參考服務 二、閱覽服務 三、借閱服務 四、複印及複製服務 五、新知通報服務 六、諮詢服務 七、資料庫服務 八、翻譯服務 九、微縮品製作 十、專題選粹服務：根據記載使用者需求的資料檔，按期將某些特定主題有關的參考文獻書目、摘要、數據資料或文件等提供給使用者 十一、微縮服務：允許讀者參閱微縮式文件，及/或提供此類文件的複製 十二、視聽資料服務：提供實地視聽場所與設備，並可供視聽資料的外借 十三、印刷及供銷服務；提供文獻印刷及供銷設備與服務 十四、使用者訓練(如目錄使用、參考工具專題選粹、線上檢索等) 十五、資訊科學研訓：提供長期及/或短期有關資訊科學的研究訓練課程 十六、資訊交流服務：舉辦會議、研討會及展示會，以達資訊溝通與交換目的

CODE	ITEM	DEFINITION
1529101	S&T Information Services	<p>The S&T Information Service refers to activities associated with service to provide S&T information, including</p> <ol style="list-style-type: none"> (1) Reference services (2) On-site reading services (3) Loan services (4) Copying and reproduction services (5) Current-awareness services (6) Information and referral services (7) Database services (8) Translation services (9) Microform production (10) Selective dissemination of information - supply on a regular basis, references, abstracts, data or documents on specific subjects on the basis of user's needs described in a profile. (11) Microform services — permit consultation of documents in microform and / or supply reproduced copies of these documents. (12) Audio — visual information services — permit on-site consultation and / or loan of audio-visual information material. (13) Printing and distribution services — offer facilities and services in the printing and / or distribution of documents. (14) User training — (e.g. use of catalogues, reference tools, SDI, on-line search etc.) (15) Training in information services — provide long — and / or short-term training in information sciences. (16) Information communication services — organize meetings, workshops and exhibitions for information communication and exchange.

分類編號	名詞	定義
1529102	科技刊物之收藏量	係指專業科技資訊服務機構收藏以供參考之各種科技刊物之數量與種類。可分為： 一、期刊。 (一) 中文期刊。(統計單位：種) (二) 外文期刊。(統計單位：種) 二、出版品。 (一) 一般圖書。(統計單位：冊) (二) 參考書。(統計單位：冊) (三) 研究報告。(統計單位：冊) 三、專利文獻。
1529103	科技資訊網路服務	係指整合國內科技研究之資料庫或引進國外之資料庫，利用電信數據網路所提供之線上資訊檢索服務；或直接由國際通信網路查詢國外科技資訊系統之服務。科技資訊網路服務可用三種方式衡量： 一、網路之使用人次。 二、網路之使用時數。 三、設有網路之機構數。
1529104	科學儀器設備之校驗服務	係指工業技術研究院量測技術發展中心認定之二級以上的科學儀器校驗服務單位所提供之校驗服務。(統計單位：服務件數)
1529105	科技成果指標	係指衡量科技研究發展所產生效益、結果之指標，包括論文、專利、技術貿易額、技術密集產品輸出額及生產力指標等。

CODE	ITEM	DEFINITION
1529102	Volume of S&T Publication Collection	The volume and quantities of publication collected by specialized S&T includes : (1) Journals In Chinese (unit : types) In foreign languages (unit : types) (2) Publications Books (unit : copies) Reference books (unit : copies) Research reports (unit : copies) (3) Patent documents
1529103	S&T On Line Information Net Work Services	Database established to integrate information concerning national S&T research and development or databases imported from foreign countries to provide on-line information search service with the help of a telecommunication digital network; in addition to offering international on-line search service through international telecommunication network. Three indicators to evaluate S&T information service are : (1) Network users in man / times (2) Service time for network (3) Number of institutes with installed network
1529104	Calibration Services for Scientific Instruments	The calibration service institutes approved by the Center of Measures of Industrial Technology Research Institute to offer calibration service for scientific instruments. (unit: number of service case)
1529105	S&T Output Indicators	The indicators used to evaluate the efficiency and results of S&T research and development, including paper, patent, technological balance of payments, technology-intensive product outputs, and productivity.

分類編號	名詞	定義
1529106	科技論文	係指進行科技活動所產生的論文或專著。分為下列三類： 一、期刊論文。 二、研討會論文。 三、專著。
1529107	期刊論文	係指在學術性期刊上刊登之文章，其本文部分一般包括引言、方法、結果及討論，並且一定有參考文獻部分。
1529108	研討會論文	係指參加學術性會議所發表之論文，且尚未在學術性期刊上發表者。
1529109	專著	係指對某項主題進行專門性探討之純學術性作品。
1529110	技術報告	係指因從事某項技術之創新、設計及製程等研究發展活動所獲致的技術性報告，且並未公開發表者。
1529111	社會科學引用文獻索引	係於 1973 年創刊，與線上版本「社會科學研究」都是「湯笙科學公司」所屬「科學資訊所」的知名社會科學引用文獻月刊。可提供當期和過去各期社會科學期刊論文之書目資訊、作者摘要以及被引用的統計記錄等。
1529112	臺灣社會科學引文索引資料庫	係由「國科會社會科學研究中心」於 1999 年所規劃之國內資料庫，蒐集國內經濟、管理、教育、心理、社會、政治、人類、區域研究等學門期刊，提供國內學界相關的引用文獻與來源文獻等重要資訊以及各種量化指標。

CODE	ITEM	DEFINITION
1529106	S&T Papers	Papers or reports generated from the ongoing science and technology activities. (1) Referee Papers (2) Conference Papers (3) Monographs
1529107	Referee Papers	The papers published at academic journals comprising introduction approach, results and discussion provided with references.
1529108	Conference Papers	The papers presented at professional conferences, but not published in academic journals.
1529109	Monographs	Pure academic papers featuring selected specific topics.
1529110	Technical Reports	Technical reports refer to reports based on results of R&D activities on technological innovation, design and process that have not been published yet.
1529111	Social Sciences Citation Index (SSCI)	SSCI was launched in 1973. Both SSCI and the online version, Social SciSearch, are famous social science monthlies from the Institute for Scientific Information (ISI), of Thomson Scientific (U. S.). It provides access to current and retrospective bibliographic information, author abstracts, and cited references found in social science journals.
1529112	Taiwan Social Science Citation Index (TSSCI)	TSSCI has been planned by the Social Sciences Research Center, National Science Council since 1999. It composes domestic citations and sources of related literature and quantified indicators. It provides access to local journals comprising economics, management, education, psychology, sociology, politics, anthropology, area studies, and so on.

分類編號	名詞	定 義
1529113 出處：專利手冊 (OECD)	專利	係指國家產業財產相關法令授與的表徵。所謂賦予專利權，是指針對一項新技術設施或製程的全部或局部成果，由發明人公開此發明，透過對國家申請，使其在時限內受到法令的保護，禁止未經准許的製造、販賣、使用或進口。此產品或製程不需要實際製造或應用才算合乎專利資格。也就是說，專利不只是保護既有的原型或充分發展的製程。最重要的是申請人的發明是新穎的。所以賦予專利權即對特別定義的技術發明授予法律的地位。這對專利資料可以使用的方式設下了某些限制。〔國際上主要的專利機構有美國專利局(USPTO)、歐洲專利局(EPO)和日本專利局(JPO)。〕
1529114	專利申請件數	係指個人(或法人)向經濟部智慧財產局所提出專利申請之件數。可分為本國人提出申請之件數及外國人向中華民國提出申請之件數。
1529115	本國人專利申請件數	係指中華民國國民(或法人)向經濟部智慧財產局提出專利申請之件數。
1529116	外國人專利申請件數	係指外國人(或法人)向經濟部智慧財產局提出專利申請之件數。
1529117	專利核准件數	係指個人(或法人)向經濟部智慧財產局提出申請並獲核准之專利件數。可分為本國人獲核准之專利件數及外國人獲核准之專利件數。
1529118	本國人獲核准之專利件數	係指中華民國國民(或法人)向經濟部智慧財產局提出專利申請並獲核准之專利件數。
1529119	外國人獲核准之專利件數	係指外國人(或法人)向經濟部智慧財產局提出專利申請並獲核准之專利件數。

CODE	ITEM	DEFINITION
1529113	Patent	A patent is an expression of the industrial property laws of the country granting it. Patenting all or part of a new technological device or process involves its inventor in publicizing the invention, which receives time-limited statutory protection from the country of filing against unlicensed making, selling, using or importing. The product or process need not actually be made or applied to qualify for patent protection. That being so, a patent may not always be protecting some existing prototype or fully developed process. What is primarily signifies is that the applicant's invention is novel. So patenting expresses and gives legal status to a particular definition of technological invention. This sets certain limits to the ways in which patent data can be used. United States Patent and Trademark Office (USPTO), European Patent Office (EPO) and Japan Patent Office (JPO) nowadays are eminent patent offices in the world.
1529114	Number of filings on patent	The number of patent applications filed to the Intellectual Property Office of MOEA, including patents filed by ROC Nationals and by foreigners.
1529115	Number of filings on patent by ROC Nationals	The number of patent applications filed to the Intellectual Property Office of MOEA by ROC Nationals.
1529116	Number of filings on patent by foreigners	The number of patent applications filed to the Intellectual Property Office of MOEA by foreigners.
1529117	Number of Granted Patents	The number of patents granted by the Intellectual Property Office of MOEA including patents granted to ROC Nationals and Foreigners.
1529118	Number of Patents Granted to ROC Nationals	The number of patents granted to ROC Nationals by the Intellectual Property Office of MOEA.
1529119	Number of Patents Granted to Foreigners	The number of patents granted to foreigners by the Intellectual Property Office of MOEA.

分類編號	名詞	定義
1529120	國際專利分類	係指專利文件中所敘述之發明技術主題的分類，分為八大類： 1、人類生活需要。 2、處理、操作；運輸。 3、化學；冶金。 4、紡織；造紙。 5、固定建築物。 6、機械工程；照明；供熱；武器；爆破。 7、物理。 8、電學。
1529121	專利類型	係指我國專利分為發明、新型及新式樣三種，其權限自申請日起算分別為二十年、十二年與十二年屆滿。（日本專利分別稱為特許、實用新案及意匠；美國的專利分為發明、新型及植物；歐洲專利僅限發明。）
1529122	發明專利	係指利用自然法則之技術思想之創作且可供產業上利用者，得依法申請取得發明專利。其專利權期限為自申請日起算二十年屆滿。
1529123	新型專利	係指對物品之形狀、構造或裝置之創作且可供產業上利用者，得依法申請取得新型專利。其專利權期限為自申請日起算十二年屆滿。
1529124	新式樣專利	係指對物品之形狀、花紋、色彩或其結合，透過視覺訴求之創作且可供產業上利用者，得依法申請取得新式樣專利。其專利權期限為自申請日起算十二年屆滿。

CODE	ITEM	DEFINITION
1529120	International Patent Classification(IPC)	There are eight major categories of international patents: 1. Human necessities 2. Performing, operations and transportation 3. Chemistry, metallurgy 4. Textiles, paper 5. Fixed construction 6. Mechanical engineering, lighting, heating, weapons, blasting 7. Physics 8. Electricity
1529121	Type of Patents	Patents in R.O.C. comprise three types: invention, new utility model and new design. An invention patent right shall expire 20 years from the filing date of the patent application. It is 12 years for a new utility model or new design. (The types of patents in Japan Patent Office (JPO) are separately named patent, utility model and design. The types of patents in the U.S. comprise utility, design and plant. For European Patent Office (EPO), invention is the only type.)
1529122	Invention Patent	A creation of technical concept(s) by which natural rules are utilized and is industrially applicable, may obtain a patent upon application in accordance with the Law. An invention patent right shall endure for a term of twenty (20) years from the filing date of the patent application..
1529123	New Utility Model Patent	A creation which has been made in respect of the form, construction or fitting of an object and is industrially applicable, may obtain a patent upon application in accordance with the Law. A New Utility Model Patent right shall endure for a term of twelve (12) years from the filing date of the patent application.
1529124	New Design Patent	A creation which has been made in respect of the shape, pattern, color, or combination of an article in addition to being appealing to the eyes and which is industrially applicable, may obtain a new design patent upon application in accordance with the Law. A Design Patent right shall endure for a term of twelve (12) years from the filing date of the patent application.

分類編號	名詞	定 義
1529125	技術移轉	係指技術由某個單位被另一個單位所擁有的過程。我國目前之技術移轉，包括下列三類： 一、技術輸入。 二、技術輸出。 三、國內技術移轉。
1522701	研發人力 出處：法城手冊 (OECD)	係指直接參與或提供服務於研發活動之人員，但不包括間接提供服務者。惟在計算研發經常支出時，仍應將間接服務者的薪資歸入研發經費之經常性費用。
1522702	研究人員 出處：法城手冊 (OECD)	係指凡從事新知識、新產品、新製程、新方法和新系統之構思或創造之專業人員，以及相關計畫的專業管理階層均屬之。
1522703	技術人員及與其 等同人員 出處：法城手冊 (OECD)	係指研發活動中，在研究人員的督導下，從事科學技術上概念與操作方法之應用性工作之人員，其主要工作需具備工程、物理與生命科學中一個或一個以上領域之技術知識與經驗。在社會科學與人文學科領域中，與技術人員等同之人員是指在研究人員的督導下，執行研發相關工作者。
1522704	其他支援人員 出處：法城手冊 (OECD)	係指在研發執行部門參與研發有關之事務性及雜項工作者，如人事、會計、秘書、事務人員及維修、機電人員等。

CODE	ITEM	DEFINITION
1529125	Technology Transfer	The process of technology transfer from one unit to another. The current technology transfer includes: (1) Technology from a foreign countries (2) Technology to a foreign countries (3) Technology within a country
1522701	R&D Personnel	R&D personnel indicate persons employed directly on R&D, as well as those providing direct services. Persons providing indirect services should be excluded, even though their wages and salaries are included as an overhead cost when measuring R&D current expenditure.
1522702	Researchers	Researchers are professionals engaged in the conception or creation of new knowledge, products, processes, methods and systems and also in the management of the projects concerned.
1522703	Technicians and Equivalent Staff	Technicians and equivalent staff are persons whose main tasks require technical knowledge and experience in one or more fields of engineering, physical and life sciences or social sciences and humanities. Technicians participate in R&D by performing scientific and technical tasks involving the application of concepts and operational methods, normally under the supervision of researchers. Equivalent staff perform the corresponding R&D tasks under the supervision of researchers in the social sciences and humanities.
1522704	Other Supporting Staff	Other supporting staff are persons employed in S&T institutes and engaged in R&D related logistic activities, such as administrator, accountant, secretary, general affairs and maintenance, and metro-electronic personnel.

分類編號	名詞	定義
1522705 出處：法城手冊 (OECD)	國際標準教育分類	1997年ISCED之分類為： 0. 學前教育。 1. 國小或基礎教育第一階段。 2. 國中或基礎教育第二階段。 3. 高級中學教育。 4. 高級中學以上，但非第三級教育。 5. 第三級教育之第一階段 尚未達到高等研究之資格： 5A. 以理論為基礎的第三級學程，以取得高等研究之入學資格。 5B. 實務取向或職業明確之學程。 6. 第三級教育之第二階段 可達到高等研究之資格。 (見附錄二之國際標準教育分類階層、法城手冊研發人力學歷分類之標準圖解)
1522706 出處：法城手冊 (OECD)	全時約當數	係指從事某項研發工作的人數，經折算為全時間從事該項工作的人數。例如某一研究人員全年花一半的工作時間從事教學工作，一半的工作時間做研發，則此一研究人員相當於0.5個「全時約當數」(或0.5人年)；若全時間從事(每年250個工作日計)研究，則相當於1個「全時約當數」。
1522707 出處：法城手冊 (OECD)	人數	係包括全時和部分時間從事研發的總人數。
1522708 出處：法城手冊 (OECD)	國內研發支出	係指某一年度內，國內各部門所執行的研發經費總額，包含在國內各部門執行但由國外所資助的研發經費；但不含支付給國外執行的研發經費。
1522709 出處：法城手冊 (OECD)	國民研發支出	係指在某一年度內，國內各機構所資助，且由國內或國外各部門所執行研發經費的總和；但由國外資助，而由國內部門所執行的研發經費不包含在內。

CODE	ITEM	DEFINITION
1522705	International Standard Classification of Education (ISCED)	ISCED-97 categories are: 0. Pre-primary education. 1. Primary education or first stage of basic education. 2. Lower secondary or second stage of basic education. 3. Upper secondary education. 4. Post-secondary, non-tertiary education. 5. First stage of tertiary education – not leading to an advanced research qualification. 5A. Theoretically based tertiary programs to qualify for entry to advanced research programs. 5B. Practically oriented or occupation-specific programs. 6. Second stage of tertiary education – leading to an advanced research qualification. (See appendix 2 : Standard key for ISCED levels, classes of the Frascati Manual for R&D personnel by formal qualifications)
1522706	Full Time Equivalent (FTE)	The total manpower engaged in a R&D project is counted by the equivalent number of full time persons. For instance, a researcher spends 50 percent of his or her time on teaching and the rest on R&D, should be considered as 0.5 FTE (or 0.5 person-year). Researcher who spends full time on R&D (250 working days per year) is one FTE.
1522707	Headcount	Headcount means that data on the total number of persons who are mainly or partially employed on R&D.
1522708	Gross Domestic Expenditure on R&D (GERD)	GERD refers to total expenditure on R&D performed by all sectors within the national territory during a given year. It includes expenditure on R&D performed by all sectors within the national territory funding from abroad, but excludes expenditure on R&D performed abroad.
1522709	Gross National Expenditure on R&D (GNERD)	GNERD refers to the total expenditure on R&D performed within the country or abroad during a given year and funded by domestic organizations. It excludes R&D performed within the country but funded from abroad.

分類編號	名詞	定義
1522710 出處：法城手冊 (OECD)	研發經常支出	<p>係指因研發產生的人事費和其他經常費用：</p> <p>1.人事費：</p> <p>包括一年的工資與薪資以及各種相關費用或周邊福利，例如紅利、休假給付、退休基金的提撥、其他社會保險支出、薪資所得稅等。為研發提供間接服務，而不納入研發人力統計的人員（諸如警衛與維護人員，或是單位內中央圖書館、電腦部門與總部的職員）的人事費不含在內，而應列為其他經常費用。</p> <p>2.其他經常費用：</p> <p>係指為支援研發所購買的非資本支出，包括行政和其他經常性費用。所有單位內或單位外所提供之間接服務費用，皆應包含在此項內。利息費用除外。其他經常費用又可分為：</p> <p>(1) 業務費：指用於特定研發計畫項下所需之事務性費用。包括文具紙張、郵電、印刷、消耗、租金、稅金、油料等費用。</p> <p>(2) 維護費：指房屋、建築、交通工具與機械儀器設備使用於研發所需之修繕及養護費用。</p> <p>(3) 材料費：指用於研發用途之材料、物料、配件、消耗器材、藥品、實驗用動物或植物購買費等。</p> <p>(4) 其他費用：包括為了研發的旅運費、傭金等。</p>

CODE	ITEM	DEFINITION
1522710	R&D Current Expenditure	<p>R&D current expenditures are composed of labor costs and other current costs for R&D activities.</p> <p>1. Labor costs :</p> <p>These comprise annual wages and salaries and all associated costs or fringe benefits, such as bonus payments, holiday pay, contributions to pension funds and other social security payments, payroll taxes, etc. The labor costs of persons providing indirect services which are not included in the personnel data (such as security and maintenance personnel or the staff of central libraries, computer departments or head offices) should be excluded and included in other current costs.</p> <p>2. Other current costs :</p> <p>These comprise non-capital purchases to support R&D performed. Administrative and other overhead costs should also be included. All costs for indirect services should be included here, whether carried out within the organization concerned or hired or purchased from outside suppliers. Interest charges should be excluded. It can be divided into:</p> <p>(1) Administration : supplies and equipment to support R&D, including books and paper, post and telecommunication, electricity, printing, depreciation, rent, tax, oil and gas.</p> <p>(2) Maintenance : the cost incurred from repair and maintenance for houses, offices, transportation tools and machineries and utilities purchased or rented for R&D.</p> <p>(3) Materials : the costs for the purchasement or installment of materials, stocks, parts, dispensable instruments, medicine, animal and plants.</p> <p>(4) Other spending : other costs include traveling and commission.</p>

分類編號	名詞	定義
1522711 出處：法城手冊 (OECD)	研發資本支出	係指在被統計單位當年度使用於研發之固定資產毛支出。應以該年度所發生的全部支出計算，不以折舊方式逐年攤提。包括： 1.土地與建築支出： 包括為了研發而取得的土地(例如測試場、實驗室或先導工廠的用地)，興建或購買的建築物，也包括重大的改建、整修或維修。 2.儀器與設備支出： 指為執行研發而購買的主要儀器和設備，包括內建搭配的軟體。 3.電腦軟體支出： 指為了執行研發而購買的可獨立認定的電腦軟體，包含其程式說明、系統及應用軟體之支援工具。支付電腦軟體之執照年費亦屬之。為進行內部研發而自行開發的軟體應不列入，但可認列其相關之人事費或其他經常費用。
1522712	研究發展經費來源	係指研究發展經費來源，分為兩大項： 一、公共部門研究發展經費。 二、民間部門研究發展經費。
1522713 出處：法城手冊 (OECD)	政府研發預算	係指政府規劃投入研發之預算。在研發統計中，政府研發預算並非以內容來分類，而是依其社會與經濟目的(SEO)別來分類。
1522714 出處：法城手冊 (OECD)	大學一般基金	係指教育部或類似的政府單位，支援大學整體性的教學或研究活動的一般性撥款。由於大學對此經費用於研發之比例具有相當程度的自主性，故應將其用於研發的經費與一般政府研發經費分別臚列。

CODE	ITEM	DEFINITION
1522711	R&D Capital Expenditure	R&D capital expenditure are the annual gross expenditures on fixed assets used in the R&D programs of statistical units. They should be reported in full for the period when they took place and should not be registered as an element of depreciation. Capital expenditures are composed of expenditures on: 1. Land and buildings : This comprises land acquired for R&D (e.g. testing grounds, sites for laboratories and pilot plants) and buildings constructed or purchased, including major improvements, modifications and repairs. 2. Instruments and equipment : This covers major instruments and equipment acquired for use in the performance of R&D including embodied software. 3. Computer software : This includes acquisition of separately identifiable computer software for use in the performance of R&D, including program descriptions and supporting materials for both systems and applications software. Annual licensing fees for the use of acquired computer software are also included. Software for own account produced as part of R&D is included in the relevant cost category: labor costs or other current costs.
1522712	R&D Expenditures by Source of Funds	One method that distinguishes the sources of funds for expenditure. (1) Government agencies (2) Private sector
1522713	Government Budget Appropriations or Outlays for R&D (GBAORD)	GBAORD refers to the R&D budget planned and committed by the government and are classified by socio-economic objectives (SEO); this budget is not classified by content.
1522714	General University Funds (GUF)	GUF refer to general grants received from the ministry of education or from corresponding local authorities and used to support universities' overall teaching and research activities. Since universities have autonomous control of GUF to a certain extent, that portion of GUF used for R&D activities is listed as an item separate from general government R&D funding.

分類編號	名詞	定義
1522715 出處：法城手冊 (OECD)	內部研發經費	係指在被統計單位內部從事研發活動之經費，包含由其他單位支付之費用。
1522716 出處：法城手冊 (OECD)	外部研發經費	係指已付給或承諾付給其他單位、組織或部門執行研發所用的經費總額。它包括委託或資助其他單位執行研發的經費。
1522717	公共部門研究發展經費	係指直接或間接來自各級政府投入科技研究發展經費，即由中央、各級地方政府、國營與省市營機構等投入科技研究發展之經費。
1522718	民間部門研究發展經費	係指民間企業、財團法人機構及國外委託國內單位投入之科技研究發展經費。
1522719	科學引用文獻索引	係指 1963 年創刊，由美國的「科學資訊所」所建立的資料庫。另有線上版，名為 SciSearch。為一國際性跨學科領域資料庫，涵蓋科學、技術及生物醫農等方面 100 餘種學科。提供科學期刊論文當期和過去各期的書目資訊、作者摘要以及被科學期刊引用的統計記錄等。
1522720	工程索引	係由美國「工程資訊公司」出版的月刊，為著名的工程及應用科學文獻索引資料庫。1884 年創刊，1906 年以後改名為工程索引迄今。

CODE	ITEM	DEFINITION
1522715	Intramural R&D expenditures	Intramural R&D expenditures refer to the expenditures used for R&D activities within a statistical unit, and include funds paid by other units.
1522716	Extramural R&D Expenditures	Extramural R&D expenditures are the sums a unit, organization or sector reports having paid or committed themselves to pay to another unit, organization or sector for the performance of R&D. This includes acquisition of R&D performed by others or grants given to others for performing R&D.
1522717	Public R&D Expenditure	The R&D expenditure invested directly or indirectly by the government agencies, including central and provincial government agencies and public enterprises.
1522718	Private R&D Expenditure	The R&D expenditure invested in private enterprises, non-profit bodies and contracted by foreign units.
1522719	Science Citation Index (SCI)	SCI, launched in 1963, is the set of databases created by the Institute for Scientific Information (United States) and has the online version, SciSearch. It is an international multidisciplinary database covering more than 100 disciplines in natural sciences, engineering, medicine, and agriculture. It provides access to current and retrospective bibliographic information, author abstracts, and cited references found in scientific journals.
1522720	Engineering Index (EI)	The Engineering Index Monthly is an eminent publication of Engineering Information Inc.(U. S.) composing the index of engineering and applied science literature. Initially issued in 1884, it was renamed the Engineering Index in 1896.

分類編號	名詞	定義
1522734 出處：法城手冊 (OECD)	技術貿易額	係指經由技術合作、技術授權等方式，購買自外國（即技術輸入）或銷售至國外（即技術輸出）之技術的金額。它包含下列技術交流之經費：1.專利（採購、銷售）；2.專利授權；3.專門技術（非專利）；4.模型和設計；5.商標（包括經銷權）；6.技術服務；7.委託境外之企業研發經費。但下列交流業務之經費則排除在外：1.商業性、金融性、管理性和法律性的協助；2.廣告；3.保險；4.運輸；5.著作權範圍內的影片、錄音錄影產品、資料；6.設計；7.軟體。
1522735 出處：法城手冊 (OECD)	科技領域	係包括以下六個領域： 1. 理科。 2. 工科。 3. 醫科。 4. 農科。 5. 社會科學。 6. 人文學科。
1522736 出處：法城手冊 (OECD)	理科	係包括： 1.數學及計算機科學〔數學及其相關領域、計算機科學及其相關學科(僅含軟體發展，硬體開發應歸入工科)〕。 2.物理科學（天文及太空科學、物理學、其他相關學科）。 3.化學科學（化學、其他相關學科）。 4.地球和環境相關科學〔地質學、地球物理學、礦物學、自然地理學及其它地球科學、氣象學及其大氣科學（包括氣候研究、海洋學、火山學、古生態學、其他相關科學）〕。 5.生物科學（生物學、植物學、細菌學、微生物學、動物學、昆蟲學、遺傳學、生物化學、生物物理學、其他相關科學，但不含臨床醫學和獸醫學）。

CODE	ITEM	DEFINITION
1522734	Technology Balance of Payments (TBP)	The TBP registers the international flow of industrial property and know-how, bought from abroad (i.e. technology import) and sold to abroad (i.e. technology export), by ways of technological cooperation or technology licensing. The following operations are included in the TBP: 1.patents (purchases,sales); 2.licenses for patents; 3.know-how (not patented); 4.models and designs; 5.trademarks (including franchising); 6.technical services; 7.finance of industrial R&D outside national territory. The following operations are excluded: 1. commercial, financial,managerial and legal assistance; 2.advertising; 3.insurance; 4.transport; 5.films,recordings, material covered by copyright; 6.design; 7.software.
1522735	Field of Science and Technology (FOS)	FOS is composed of: 1. Natural sciences. 2. Engineering and technology. 3. Medical sciences. 4. Agricultural sciences. 5. Social sciences. 6. Humanities.
1522736	Natural Sciences	Natural sciences comprise: 1.Mathematics and computer sciences [mathematics and other allied fields: computer sciences and other allied subjects (software development only; hardware development should be classified in the engineering fields)]. 2.Physical sciences (astronomy and space sciences, physics, other allied subjects). 3.Chemical sciences (chemistry, other allied subjects). 4.Earth and related environmental sciences (geology, geophysics, mineralogy, physical geography and other geosciences, meteorology and other atmospheric sciences including climatic research, oceanography, vulcanology, palaeoecology, other allied sciences). 5.Biological sciences (biology, botany, bacteriology, microbiology, zoology, entomology, genetics, biochemistry, biophysics, other allied sciences, excluding clinical and veterinary sciences).

分類編號	名詞	定義
1522737 出處：法城手冊 (OECD)	工科	係包括： 1.土木工程學(建築工程學、建築科學和工程、營建工程學、都市和結構工程學及其相關學科)。 2.電機工程學、電子學〔電機工程學、電子學、傳播工程學和系統、計算機工程學(只限硬體)及其相關學科〕。 3.其他工程科學(化學工程學、航空太空工程學、機械工程學、冶金與材料工程學及其專業分科；林產學；應用科學如大地測量學、工業化學等；食品製造的科學和技術；跨科之專業科技，如系統分析、冶金術、採礦技術、紡織技術及其相關學科)。
1522738 出處：法城手冊 (OECD)	醫科	係包括： 1.基礎醫學(解剖學、細胞學、生理學、遺傳學、藥學、藥理學、毒理學、免疫學、臨床化學、臨床微生物學、病理學及其相關醫學)。 2.臨床醫學(麻醉學、小兒科學、婦產科學、內科學、外科學、牙醫學、神經科學、精神醫學、放射醫學、治療學、耳鼻喉科學、眼科學及其相關醫學)。 3.保健科學(公共衛生學、社會醫學、衛生學、護理學、流行病學及其相關醫學)。
1522739 出處：法城手冊 (OECD)	農科	係包括： 1.農業、林業、漁業及相關科學(農藝學、畜牧學、漁業學、林業學、園藝學、其他相關學科)。 2.獸醫學。

CODE	ITEM	DEFINITION
1522737	Engineering and Technology	Engineering and technology comprise: 1.Civil engineering (architecture engineering, building science and engineering, construction engineering, municipal and structural engineering and other allied subjects). 2.Electrical engineering, electronics [electrical engineering, electronics, communication engineering and systems, computer engineering (hardware only) and other allied subjects]. 3.Other engineering sciences (such as chemical, aeronautical and space, mechanical, metallurgical and materials engineering, and their specialized subdivisions; forest products; applied sciences such as geodesy, industrial chemistry, etc.; the science and technology of food production; specialized technologies of interdisciplinary fields, e.g. systems analysis, metallurgy, mining, textile technology and other allied subjects).
1522738	Medical Sciences	Medical sciences comprise: 1.Basic medicine (anatomy, cytology, physiology, genetics, pharmacy, pharmacology, toxicology, immunology, clinical chemistry, clinical microbiology, pathology and other allied medicine). 2.Clinical medicine (anaesthesiology, paediatrics, obstetrics and gynaecology, internal medicine, surgery, dentistry, neurology, psychiatry, radiology, therapeutics, otorhinolaryngology, ophthalmology and other allied medicine). 3.Health sciences (public health services, social medicine, hygiene, nursing, epidemiology and other allied medicine).
1522739	Agricultural Sciences	Agricultural sciences comprise: 1.Agriculture, forestry, fisheries and allied sciences (agronomy, animal husbandry, fisheries, forestry, horticulture, other allied subjects). 2.Veterinary medicine.

分類編號	名詞	定 義
1522740 出處：法城手冊 (OECD)	社會科學	係包括： 1.心理學。 2.經濟學。 3.教育科學（教育、訓練及其它相關學科）。 4.其他社會科學〔人類學（社會和文化）與民族學、人口學、地理學（人文、經濟和社會）、城鄉規劃、管理學、法律學、語言學、政治科學、社會學、組織與方法學、其他社會科學與跨際整合學科、與此領域相關的方法論和歷史性的科技活動。但是，體質人類學、自然地理學、心理生理學則通常歸類為理科〕。
1522741 出處：法城手冊 (OECD)	人文學科	係包括： 1.歷史（史前史與歷史及其相關歷史學科，如考古學、古幣學、古文字學、族譜學等）。 2.語言和文學（古代和現代的）。 3.其他人文學科〔哲學（包括科技史）、圖書館學、藝術、藝術史、藝術批評、繪畫、雕刻、音樂學、戲劇藝術（任何形式之藝術「研究」除外）、宗教、神學、其他與人文相關的領域與主題、與此類主題有關之方法論的、歷史性的與其他的科技活動〕。
1522742 出處：法城手冊 (OECD)	經濟合作暨發展組織(OECD)研發統計產業分類	係指經濟合作暨發展組織(OECD)基於研發統計之目的將國際標準行業分類(ISIC, 3.1版)重新歸類，詳見附錄一。國際標準行業分類3.0版與我國行業之對照，見行政院主計處「中華民國行業標準分類（第七次修訂）」。

CODE	ITEM	DEFINITION
1522740	Social Sciences	Social sciences comprise: 1.Psychology. 2.Economics 3.Educational sciences (education and training and other allied subjects). 4.Other social sciences [anthropology (social and cultural) and ethnology, demography, geography (human, economic and social), town and country planning, management, law, linguistics, political sciences, sociology, organization and methods, miscellaneous social sciences and interdisciplinary, methodological and historical scientific and technological activities (STA) relating to subjects in this group. Physical anthropology, physical geography and psychophysiology should normally be classified with the natural sciences].
1522741	Humanities	Humanities comprise: 1.History (history, prehistory and history, together with auxiliary historical disciplines such as archaeology, numismatics palaeography, genealogy, etc.). 2.Languages and literature (ancient and modern). 3.Other humanities [philosophy (including the history of science and technology), library science, arts, history of art, art criticism, painting, sculpture, musicology, dramatic art excluding artistic "research" of any kind, religion, theology, other fields and subjects pertaining to the humanities, methodological, historical and other scientific and technological activities (STA) relating to the subjects in this group].
1522742	Industrial Classification of OECD for R&D Statistics	The Organization for Economic Co-operation and Development (OECD) rearranges International Standard Industrial Classification (ISIC, Rev. 3.1) for the purpose of R&D statistics. See appendix 1 for details. The contrast between ISIC Rev. 3.0 and industrial classification of R.O.C. is manifest in "Standard Industrial Classification of the R.O.C. (7 th revised version)".

分類編號	名詞	定義
1522743 出處：法城手冊 (OECD)	社會經濟目的	係依照經濟合作暨發展組織 (OECD) 及各國之慣例，此慣例為非嚴謹作法，可分為： 1.地球探索與開發。 2.土地利用規劃與基礎建設。 3.環境保育與管制。 4.人類健康之維護與增進。 5.能源生產、分配與利用。 6.農林漁牧。 7.工業生產。 8.社會結構與關係。 9.太空的探索與開發。 10.非特定目的的研究。 11.其他民用研究。 12.國防。
1522744 出處：法城手冊 (OECD)	高科技產品及產業	係指 OECD 將製造業依技術密集度分為，“高”、“中高”、“中低”和“低”技術等四類產業。評估技術密集度之依據為： 1.研究發展經費除以產業附加價值； 2.研究發展經費除以產值。高科技產業係指下列產業：藥品業、辦公室及計算機器業、無線電、電視及通話設備業、醫療、精密和光學設備業以及航空器及太空船業。
1522745 出處：法城手冊 (OECD)	外資企業	係指主要的股東（持有 50% 以上的股份與投票權，不論是直接持有或間接經由子公司持有）是外國居民的企業。

CODE	ITEM	DEFINITION
1522743	Socio-economic Objectives (SEO)	SEO are conventions by OECD, not concluded to a meticulous or rigid classification. SEO comprise: 1.Exploration and exploitation of the Earth. 2.Infrastructure and general planning of land use. 3.Control and care of the environment. 4.Protection and improvement of human health. 5.Production, distribution and rational utilization of energy. 6.Agricultural production and technology. 7.Industrial production and technology. 8.Social structures and relationships. 9.Exploration and exploitation of space. 10.Non-oriented research. 11.Other civil research. 12.Defense.
1522744	High-Technology Product and Industry	Basing on technology intensity, OECD classifies manufacturing industries into four groups: “high”, “medium-high”, “medium-low” or “low” technology industries. Current indicators for technology intensity are: 1. R&D expenditures divided by value-added; 2.R&D expenditures divided by production. The high-technology industries are defined as the sum of pharmaceuticals, office and computing machinery, radio, TV and communication equipment, medical, precision and optical equipment and aircraft and spacecraft.
1522745	Foreign Enterprise	An enterprise must be considered as foreign when the main shareholder is a foreign resident with more than 50% ownership and voting power, either directly or indirectly through subsidiaries.

分類編號	名詞	定義
1522746 出處：法城手冊 (OECD)	研發統計之部門別	係指為研發統計之目的所用之部門分類。分為五個部門： 1.企業部門。 2.政府部門。 3.私人非營利部門。 4.高等教育部門。 5.國外。
1522747 出處：法城手冊 (OECD)	研發統計之企業部門	係包括： 1.凡生產並以具經濟效益之價格行銷貨物或服務（不含高等教育）給一般大眾為主要活動之公司、組織或機構均屬之。 2.以服務企業部門為主要活動之私人非營利機構。
1522748 出處：法城手冊 (OECD)	研發統計之政府部門	係包括： 1.凡以提供而非銷售共用性服務（不含高等教育）給社會大眾之機關和組織均屬之。這些共用性服務無法由其他機構以方便而經濟的方式提供。但公營企業屬於企業部門，而非政府部門。 2.管理國家和制訂經濟政策與社會政策之部門、機關及其它組織。 3.由政府資助和掌控(但非由高等教育部門管理)的非營利機構。
1522749 出處：法城手冊 (OECD)	研發統計之高等教育部門	係包括： 1.所有的大學、技術學院和其他專科學校，而不論其財源或法律上的身分。 2.所有附屬於高等教育機構，或受其直接監督或由其管理之研究機構、實驗站和醫療院所。

CODE	ITEM	DEFINITION
1522746	R&D Statistical Sector	R&D statistical sector is composed of : 1.Business enterprise sector (BE). 2.Government sector (GOV). 3.Private non-profit sector (PNP). 4.Higher education sector (HE). 5.Abroad.
1522747	R&D Statistical Business Enterprise Sector (BE)	BE sector in R&D statistics is composed of: 1.All firms, organizations and institutions whose primary activity is the market production of goods or services (other than higher education) for sale to the general public at an economically significant price. 2.The private non-profit institutions mainly serving them.
1522748	R&D Statistical Government Sector (GOV)	GOV sector in R&D statistics is composed of: 1.All departments, offices and other bodies which furnish, but normally do not sell to the community, those common services, other than higher education, which cannot otherwise be conveniently and economically provided, but public enterprises are included in the business enterprise sector and not included in the government sector. 2.All departments, offices and other bodies which administer the state and the economic and social policy of the community. 3.Non-profit institutions which are controlled and mainly financed by government, but not administered by the higher education sector.
1522749	R&D Statistical Higher Education Sector (HE)	HE sector in R&D statistics is composed of: 1.All universities, colleges of technology and other institutions of post-secondary education, whatever their source of finance or legal status. 2.It also includes all research institutes, experimental stations and clinics operating under the direct control of or administered by or associated with higher education institutions.

分類編號	名詞	定義
1522750 出處：法城手冊 (OECD)	研發統計之私人非營利部門	係包括： 1.非市場取向而以服務一般大眾為主要活動之私人非營利機構。 2.自然人或家戶。
1522751 出處：法城手冊 (OECD)	國外	係包括： 1. 凡在一國政治邊境以外的所有機構和個人均屬之，但不包括國內機構所操控的車輛、船舶、航空器和人造衛星，以及國內機構所擁有的測試基地。 2. 所有國際組織（不含跨國企業）在一國境內的設施與業務均屬之。
1522752 出處：法城手冊 (OECD)	研發類型	係包括： 1.基礎研究。 2.應用研究。 3.技術發展。
1522753 出處：法城手冊 (OECD)	基礎研究	係指實驗性或理論性的工作，其主要目的是為了獲得新知識，以作為瞭解某一現象或所觀察事實之根本基礎，並未預期在具體的時程內作特別的應用或利用。
1522754 出處：法城手冊 (OECD)	應用研究	係指在特定的實用目的及目標導向下，為獲得新知識而進行之原創性研究。
1522755 出處：法城手冊 (OECD)	技術發展	係指系統性的工作，包括利用從研究與實務經驗獲得的既有知識，用於生產新材料、新產品和新設備；或設置新製程、新系統和新服務；或具體改善既有的生產或設置。 在社會科學上，技術發展的定義是將研究所獲得的知識轉化成可操作的計畫的過程，包括為了測試和評估而進行的展示計畫。對人文學科而言，通常沒有技術發展活動。

CODE	ITEM	DEFINITION
1522750	R&D Statistical Private Non-profit Sector (PNP)	PNP sector in R&D statistics is composed of: 1.Non-market, private non-profit institutions serving households (i.e. the general public). 2.Private individuals or households.
1522751	Abroad	Abroad is composed of: 1.All institutions and individuals located outside the political borders of a country, except vehicles, ships, aircraft and space satellites operated by domestic entities and testing grounds acquired by such entities. 2.All international organizations (except business enterprises), including facilities and operations within the country's borders.
1522752	Type of R&D	Three types of R&D are: 1. Basic research. 2. Applied research. 3. Experimental development.
1522753	Basic Research	Basic research is experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
1522754	Applied Research	Applied research is also original investigation undertaken in order to acquire new knowledge. It is, however, directed primarily towards a specific practical aim or objective.
1522755	Experimental development	Experimental development is systematic work, drawing on knowledge gained from research and practical experience, that is directed to producing new materials, products and devices; to installing new processes, systems and services; or to improving substantially those already produced or installed. In the social sciences, experimental development is defined as the process of translating knowledge gained through research into operational programs, including demonstration projects undertaken for testing and evaluation purposes. The category has little or no meaning for the humanities.

分類編號	名詞	定義
1522756 出處：奧斯陸手冊 (OECD)	創新活動	係包括技術創新活動與非技術創新活動（如組織創新、管理創新等），科技統計上只涵蓋技術創新活動。
1522757 出處：奧斯陸手冊 (OECD)	技術創新活動	係包括製程、產品之技術創新及其相關之輔助活動，這些輔助活動係專為製程、產品之技術創新活動所必須，包括採購、銷售、會計、資訊或維修等部門之相關活動。但實際上，有關產品之輔助服務往往很難界定。
1522758 出處：奧斯陸手冊 (OECD)	技術新產品	係指新產品的技術特性或用途與現有的產品明顯不同。通常為： 1. 利用嶄新技術生產的產品，如第一顆「微處理器」或第一台「錄放影機」。 2. 結合現有技術產生新用途的產品，如「隨身聽」即是結合了磁帶技術與迷你頭戴式耳機的技術。
1522759 出處：奧斯陸手冊 (OECD)	技術改良產品	係指將現有產品的功能大幅改良或提升。 1. 結構簡單的產品，可透過使用高效能的材料（或零件）來進行技術性的大幅改良，如廚具或傢具採用塑膠材質取代金屬材質。 2. 對於結構複雜（由許多子系統構成）的產品可由改良某一子系統來產生技術上大幅改良的產品，如汽車加裝防鎖死剎車系統(ABS)。 在沒有混淆的情況下，技術上新產品往往包含了技術上改良產品。

CODE	ITEM	DEFINITION
1522756	Innovation Activities	Innovation activities comprise technological innovation and non-technological innovation activities (such as organizational and managerial innovations, etc.). In science and technology (S&T) statistics, only the technological innovation has been collected.
1522757	Technological Innovation Activities	It is namely “technological product and process innovation activities” or “TPP innovation activities”. Technological innovation can occur both in the production process and/or products of the firm and in their relative ancillary supporting activities supplied by its purchasing, sales, accounting, computing or maintenance departments. In practice it will be very difficult to identify product innovation in ancillary services.
1522758	Technologically New Product	A technologically new product is a product whose technological characteristics or intended uses differ significantly from those of previously produced products. Usually, 1. Products are made by use of radically new technologies. The first microprocessors and videocassette recorders were examples of this kind. 2. Products can be based on combining existing technologies in new uses, or can be derived from the use of new knowledge. The first portable cassette player, which combined existing tape and mini-headphone techniques, was a technologically new product of the second type, combining existing technologies in a new use.
1522759	Technologically Improved Product	A technologically improved product is an existing product whose performance has been significantly enhanced or upgraded. 1. A simple product may be improved through use of higher-performance materials or components, the substitution of plastics for metals in kitchen equipment or furniture is an example of the use. 2. A complex product which consists of a number of integrated technological sub-systems may be improved by partial changes to one of the sub-systems. The introduction of ABS braking in cars is one of the examples. Technologically new products frequently comprehend technologically improved products in the case of no confusion.

分類編號	名詞	定義
1522760 出處：奧斯陸手冊 (OECD)	技術新製程	係指採用技術上新的或大幅改良的製造方法，還包括了運送產品的新方法。這些方法可能涉及改變設備或生產架構，或兩者皆有。這些方法也可以是使用新知識的成果，其製程創新的目的為： 1. 生產或運送新的或大幅改良的產品，而這是現有製程所無法製造或運送的。 2. 增進現有產品的生產效率或運送效率，其經濟目的為增進產能或降低營運或人工成本。
1522761 出處：奧斯陸手冊 (OECD)	技術創新活動範圍	係包括： 1. 企業經由下列活動取得新知識或新技術： a. 研究發展活動。 b. 無形技術與專門技術的獲得。 c. 有形技術的引進。 2. 與為了新製程或生產新產品有關的準備活動，包括機具準備、工業工程、工業設計以及生產準備，包括研發範圍以外的先導工廠和原型等活動。 3. 與技術上新或改良產品有關的行銷活動：包括先期的市場研究、試賣、廣告宣傳等活動，但行銷網路的創新除外。
1522762 出處：奧斯陸手冊 (OECD)	成功的技術創新企業	係指已經推出技術新產品或技術改良產品，或使用技術新製程的企業，但不包括純粹組織、管理上或包裝、美工設計創新的改變。
1529126	科技研究機構	係指以科技研究發展活動為主要任務之獨立單位。

CODE	ITEM	DEFINITION
1522760	Technological Process Innovation	Technological process innovation is the adoption of technologically new or significantly improved production methods, including methods of product delivery. These methods may involve changes in equipment, or production organization, or a combination of these changes, and may be derived from the use of new knowledge. The methods may be intended 1. To produce or deliver technologically new or improved products, which cannot be produced or delivered using conventional production methods, 2. To increase the production or delivery efficiency of existing products, which economically intends to increase the productivity or reduce operation or labor costs.
1522761	Coverage of Technological Innovation Activities	Technological innovation activities comprise 1. Acquisition and generation of relevant knowledge new to the firm a. Research and experimental development b. Acquisition of disembodied technology and know-how. c. Acquisition of embodied technology. 2. Other preparations for new processes or producing for new products, i.e. activities for tooling up and industrial engineering, industrial design and production start-up, including other expenditure for pilot plants and prototypes not already included in R&D. 3. Marketing for new or improved products: Activities in connection with the launching of a technologically new or improved product. These may include preliminary market research, market tests and launch advertising, but will exclude the building of distribution networks to market innovations.
1522762	Successful Technological Innovators (or, TPP innovating firm)	A successful technological innovator is defined as an enterprise that has implemented technologically new or significantly improved products or used new processes, excluding innovative changes in pure organizational, managerial, packaging or decorative design aspects.
1529126	S&T Research Institutes	The independent unit featuring S&T research and development activities.

分類編號	名詞	定義
1529127	財團法人研究機構	係指以捐助財產為組織之基礎，有管理人員，並訂立捐助章程規定其目的及財產管理方法之法人，且以科技研究發展活動為主要任務者。
1529128	科技研討會	係指集合數位元相關專長之學者專家，就某特定科技主題，各人發表簡短之報告，並由全部與會者進行討論、研究之會議。科技研討會依開會地點及出席人員之國籍可分為國內科技研討會及國際科技研討會。
1529129	國內科技研討會	係指在國內召開，且出席人員以本國人為主之科技研討會。
1529130	國際科技研討會	係指廣邀國際人士參加或兩個以上國家（含兩個）合辦之科技研討會。
1529131	科技性學會	係指以研究學術或推廣技術以及促進各科技專業領域新知之交流為宗旨之團體。
1529132	科技性方案	係指為達成一整體性之科技發展目標，而擬定之構想、策略及行動指導方針等。一科技性方案之內容必須包括目標、策略與措施。

CODE	ITEM	DEFINITION
1529127	Non-profit Research Organizations	Organization donating assets as base of establishment, with personnel in charge of management, and with chapters regulating organization's objectives and financial management, and/with the mission primarily related to S&T research and development activities.
1529128	S&T Symposium	A meeting at which several speakers deliver short addresses on related topics, and discuss them with all the participants. According to the place of meeting and the nationality of participants, an S&T symposium can be a domestic symposium or an international symposium.
1529129	Domestic S&T Symposium	An S&T symposium held at home and participated in mainly by ROC nationals.
1529130	International S&T Symposium	An S&T symposium with a number of international participants or cosponsored by two or more countries.
1529131	S&T Society	A society for academic research, technology promotion, and information exchange enhancement in specific S&T areas.
1529132	S&T Plans	The thought, strategy and action guidelines which are proposed to achieve an integrated S&T development goal. A S&T plan must contain its goal, strategy and measurement system.

附錄 Appendices

附錄一：OECD 研發統計產業分類：「國際標準行業分類」(ISIC) 為研發統計目的重新歸類

OECD 產業名稱	ISIC Rev 3.1 類 / 組 / 級
農業、狩獵業、林業及漁業	01, 02, 05
礦業與土石採取業	10,11,12,13,14
製造業	15~37
食品、飲料及菸草製品製造業	15+16
食品及飲料製造業	15
菸草製品製造業	16
紡織業、毛皮及皮革製造業	17+18+19
紡織業	17
成衣製造業；毛皮整理業	18
皮革整製業	19
木材、紙類、印刷、出版業	20+21+22
木材、木製品及軟木製品製造業（家具除外）	20
紙及紙製品製造業	21
記錄媒體出版、印刷及複製業	22
煤、石油、核能燃料、化學製品、橡皮及塑膠業	23+24+25
焦炭、精煉石油製品及核子燃料製造業	23
焦炭及核子燃料製造業	23 less 232
精煉石油製品製造業	232
化學材料及化學製品製造業	24
化學材料及化學製品製造業（除製藥業外）	24 less 2423
製藥、醫藥的化學製品及植物製品製造業	2423

Appendix 1 : Industrial classification of OECD : ISIC rearranged for the purpose of R&D statistics

	ISIC Rev 3.1 (division)/(group) (class)
AGRICULTURE, HUNTING, FORESTRY AND FISHING	01, 02, 05
MINING AND QUARRYING	10,11,12,13,14
MANUFACTURING	15~37
Food beverages and tobacco	15+16
Food products and beverages	15
Tobacco products	16
Textiles, fur and leather	17+18+19
Textiles	17
Wearing apparel and fur	18
Leather products and footwear	19
Wood, paper, printing, publishing	20+21+22
Wood and cork (not furniture)	20
Paper and paper products	21
Publishing printing and reproduction of recorded media	22
Coke, petroleum, nuclear fuel, chemicals and products, rubber and plastics	23+24+25
Coke, refined petroleum products and nuclear fuel	23
<i>Coke and nuclear fuel</i>	23 less 232
<i>Refined petroleum products.</i>	232
Chemicals and chemical products	24
<i>Chemicals and chemical products (less pharmaceuticals)</i>	24 less 2423
<i>Pharmaceuticals.</i>	2423

OECD 產業名稱	ISIC Rev 3.1 類 / 組 / 級
橡皮及塑膠製品製造業	25
非鐵金屬礦物製品製造業	26
金屬基本製造業	27
鋼鐵基本製造業	271 & 2731
非鐵金屬製造業	272 & 2732
金屬製品、機械設備、儀器製造業及運輸業	28~35
金屬製品製造業（機械設備除外）	28
未分類機器設備製造業	29
原動機製造業，航空器、交通工具引擎除外	2911
特殊用途機械製造業	292
機械工具製造業	2922
武器及彈藥製造業	2927
辦公室、會計及計算機器製造業	30
未分類電力機械器具製造業	31
電力馬達、發電機及變壓器製造業	311
電力配送及控制裝置製造業(包括半導體)	312
絕緣電線及電纜製造業(包含光纖電纜)	313
蓄電池及原電池組製造業	314
電燈及照明設備製造業	315
其他未分類電力設備製造業	319
收音機、電視及通訊機械器材製造業	32
電子管及其他電子零件製造業	321
電視與收音機傳輸設備及電信器具製造業	322

	ISIC Rev 3.1 (division)/(group) /(class)
Rubber and plastics products	25
Nonmetallic mineral products	26
Basic metals	27
Basic metals, iron and steel	271 & 2731
Basic metals non ferrous	272 & 2732
Fabricated metal products, machinery and equipment, instruments and transport	28~35
Fabricated metal products, except machinery and equipment	28
Machinery and equipment, n.e.c.	29
Engines and turbines, except aircraft, vehicle and cycle.	2911
Special purpose machinery	292
Machine-tools.	2922
Weapons and ammunition.	2927
Office, accounting and computing machinery	30
Electrical machinery and apparatus n.e.c.	31
Electrical motors, generators and transformers.	311
Electricity distribution and control apparatus (includes semiconductors).	312
Insulated wire and cable (includes optic fibre cables).	313
Accumulators, primary cells and primary batteries.	314
Electric lamps and lighting equipment.	315
Other electrical equipment n.e.c..	319
Radio, television and communication equipment and apparatus	32
Electronic valves, tubes and components.	2423
TV, radio transmitters and line apparatus.	25

OECD 產業名稱	ISIC Rev 3.1 類 / 組 / 級
醫學、精密光學儀器及鐘錶製造業	33
醫藥儀器、裝置及控制設備製造業	331
測量、檢查、測試、航行及其他用途儀器製造業，工業控制設備除外	3312
工業控制設備製造業	3313
光學儀器製造業	332
鐘錶製造業	333
機動車輛、拖車及半拖車製造業	34
其他運輸工具製造業	35
船舶建造修配業	351
電動車及鐵路車輛製造業	352
航空器及太空船製造業	353
未分類運輸工具製造業	359
家具製造業；未分類製造業	36
家具製造業	361
未分類製造業	369
回收資源製品製造業	37
電力、燃氣及水供應業	40, 41
營造業	45
服務業	50~99
批發、零售、機動車輛維修	50, 51, 52
電腦及其周邊與軟體批發業	5151
電子零件與設備批發業	5152
餐旅業	55

	ISIC Rev 3.1 (division)/(group) /(class)
Medical precision and optical instruments, watches and clocks (instruments)	33
<i>Medical appliances, instruments and control equipment.</i>	331
<i>Instruments and appliances for measuring, checking, testing, navigating, and other purposes, except industrial process control equipment.</i>	3312
<i>Industrial process control equipment.</i>	3313
<i>Optical instruments and photographic equipment.</i>	332
<i>Watches and clocks.</i>	333
Motor vehicles, trailers and semi-trailers	34
Other transport equipment	35
<i>Ships and boats.</i>	351
<i>Railway and tramway locomotives and rolling stock.</i>	352
<i>Aircraft and spacecraft.</i>	353
<i>Transport equipment, n.e.c..</i>	359
Furniture; other manufacturing, n.e.c.	36
Furniture.	361
Other manufacturing, n.e.c..	369
Recycling	37
ELECTRICITY, GAS AND WATER SUPPLY	40, 41
CONSTRUCTION	45
SERVICES SECTOR	315
Wholesale, retail trade and motor vehicle repair	319
<i>Wholesale of computers, computer peripheral equipment and software.</i>	32
<i>Wholesale of electronic parts and equipment.</i>	2423
Hotels and restaurants	55

OECD 產業名稱	ISIC Rev 3.1 類 / 組 / 級
運輸、倉儲及通信業	60,61,62,63,64
電信業	642
其他	60~64 less 642
金融及其輔助業(包括保險)	65, 66, 67
不動產、租賃與商業活動	70,71,72,73,74
辦公室機器與設備的租賃 (含電腦)	7123
電腦及相關活動	72
軟體顧問業務及供應	722
研發	73
其他工商活動	74
建築、工程及其他技術活動	742
社區、社會及個人服務活動等	75~99
資料來源：OECD	

	ISIC Rev 3.1 (division)/(group) /(class)
Transport, storage and communications	60,61,62,63,64
Telecommunications.	642
Other	60~64 less 642
Financial intermediation (includes insurance)	65, 66, 67
Real estate, renting and business activities	70,71,72,73,74
<i>Renting of office machinery and equipment (including computers)</i>	7123
Computer and related activities	72
<i>Software consultancy and supply</i>	722
Research and development	73
Other business activities	74
Architectural, engineering and other technical activities	742
Community, social and personal service activities, etc.	75~99
Source : OECD	

附錄二：國際標準教育分類階層、法城手冊研發人力學歷分類之標準圖解與我國學歷別

Appendix 2 : Standard key for ISCED levels, classes of the Frascati Manual for R&D personnel by formal qualifications and qualifications of R.O.C.

ISCED-97 類別 ISCED-97 categories		OECD 人力類別 OECD personnel categories	我國學歷別 Qualifications
6. 第三級教育之第二階段 可達到高等研究之資格 6. Second stage of tertiary education – leading to an advanced research qualification		博士級大學學位之持有者 Holders of university degrees at PhD level	博士 Ph.D.
5. 第三級教育之第一階段 尚未達到高等研究之資格 5. First stage of tertiary education – not leading to an advanced research qualification	5A. 以理論為基礎的第三級學程，以取得高等研究之入學資格 5A. Theoretically based tertiary programs to qualify for entry to advanced research programs	低於博士級大學基本學位之持有者 Holders of basic university degrees below the PhD level	碩士 Master、學士 Bachelor、專科(不含五專前三年) Junior college (not including the first three years of five-year junior college) 註：我國將二專、三專及五專後二年學生列為高等教育學生
	5B. 實務取向或職業明確之學程 5B. Practically oriented or occupation-specific programs	其它第三級學位之持有者 Holders of other tertiary degrees	
4. 高級中學以上，但非第三級教育 4. Post-secondary, non-tertiary education		其它中等以上非第三級文憑之持有者 Holders of other post-secondary non-tertiary diplomas	
3. 高級中學教育 3. Upper secondary education		中等教育文憑之持有者 Holders of secondary education diplomas	專科(不含五專後二年) Junior college (not including the last two years of five-year junior college)
2. 國中或基礎教育第二段 2. Lower secondary or second stage of basic education		其它資格 Other qualifications	國民教育 Elementary and Junior High School Education
1. 國小或基礎教育第一段 1. Primary education or first stage of basic education			學前教育 Pre-primary education
0. 學前教育 0. Pre-primary education			

資料來源：OECD / Source : OECD

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