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Business Services in Europe

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### roduction and background

observed.

f the main features in the economic ment in Europe in the last two decades is the importance of the services sectors. Around e Member States of the European Union were erised by the market services 36 - 42% of the gross value added ting ed in the total economy. In all member states

all pattern of growth in market services´ share otal economy in the period from 1970 to 1990

In 1990 the market services

ly with between 45% and 55% of the gross dded generated in the economy in 1990, cf. er, the growth pattern within the services

as the most important sector in the European

is not uniform as on the one hand the tive trades sector shows a declining share of and on the other hand the major part of the growth found in the sector other market services ma generated by the subsector business services. several of the Member States the increase importance of the services sectors is stron connected with the development of the busine

services.

the total gross value added in many Member Sta

subsectors within for instance business services hampered by the fact that the statistical coverage these subsectors are relatively limited in m The growing importance and Member States. limited statistical coverage of the services sectors the main forces behind the statistical program for

development of the services statistics adopted by

European Council, cf. Council Decision 92/326/El

18

1:

16

More detailed analysis of the performance of differ

Table 1.1

Breakdown of gross value added at market prices and employment, by sector in per cent of the total economy, 1970-1990. Other market services Market services

Gross value added	Employment	Gross value added	Employment	Gross value added	Employment	Gross value added	Employme
1970	1970	1990	1990	1970	1970	1990	1990

added		added		added		added	
1970	1970	1990	1990	1970	1970	1990	1990
 42.4	36,9	54.4	48.4	13.6	9.7	21.3	

1970 1970		1970 1990 1990		1970	1970	1990	1990	
42.4	36.9	54.4	48.4	13.6	9.7	21.3		
46.6	34.5	47.8	36.3	13.2	7.1	20.1		
05.0	00.4	40.0	00.0	10.5	66	25.5		

35.9 30.4 48.8 38.0 13.5 6.6 25.5 39.5\* na na na na na na 51.2<sup>5</sup> 16.2\*<sup>5</sup> 38.3 14.9 na 40.3 na 9.2 24.5 32.8

16.3 41.2 52.2 40.3 11.3<sup>1</sup> 15.1  $31.7^{1}$ 32.3\* 40.1 na na 5.6 20.7 39.2 28.8 51.5 42.6 13.4

1:  $7.7^{1}$ 38.7<sup>1</sup> 16.8 ıra 36.2 57.4 52.5 12.8 1 erlands 42.6 41.5 55.8 53.2 15.3 12.6 27.8 2

42.4\*4 23.1\*<sup>2</sup> 47.0 28.8 8.0\*4 2.5\*2 8.8 42.1<sup>1</sup> 39.8\*3 48.5\* 9.31 13.6\*<sup>3</sup> 23.8 d Kingdom 51.3 d by EUROSTAT.

'9 (Incl. services of credit and insurance institutions).

UROSTAT, National Accounts ESA, Detailed tabels by branch 1970-1984 (1986) and 1985- 1991 (1993).

۲,

- set out an European reference framework for atistics on services defining the and methods
- anaging and monitoring Community policies, specially the implementation of the Single uropean Act, and for satisfying the needs of ational, regional and local administrations,

in objectives of this program are:

concepts

propriate

re twofold:

d in the pilot survey.

- ternational organisations, economic operators nd professional associations;
- establish an European statistical information stem for services;

promote and support harmonization of atistics on services in the Member States.

jectives of the pilot survey on the business

thods and definitions used in the pilot survey Iministration of the pilot survey

ot survey launched by EUROSTAT has been

- out in all Member States except for Belgium. ountries the survey was carried out by the statistical institute under contract to STAT, and for Ireland and United Kingdom the
- were carried out by a private institute<sup>2</sup>. The I statistical institutes in Finland and Sweden lunteered to participate in the pilot survey. er the data were mainly compiled by using statistical information in the two countries did not cover the total range of variables

Bøegh-Nielsen and S. Rikama, Methodological Implications

ot survey on business services undertaken by Member

the European Communities, published in papers and final

reland the survey was conducted by Service Industries Center, Dublin, and for the United Kingdom by Services

the 8th Meeting on Services Statistics, Oslo 1993.

Research Center, Portsmouth.

1)

- 2)
- to test and develop a methodology for regular collection of statistical data on busine

**States** 

- services to be provided on a harmonized ba by all Member States
- This paper is a result of the first objective of the p survey on business services, i.e. the provision basic statistical information on the Europe business services sector. The results of the test
- of the methodology was presented at the Voorb Group Meeting in 19931. The structure of the pa is first to present the methods and definitions used

to provide basic statistical information on business services sector within the Mem

the pilot survey and secondly to give some ba statistical information on the 8 subsectors survey in this study.

were then processed in accordance with guidelines mentioned below and submitted EUROSTAT for further analysis. In order to assist the Member States in carrying the pilot survey and to collect data on a harmonia

The national pilot surveys were carried out in 19

covering the statistical year 1990 except for Gree

where the survey was carried out in 1992. The d

basic, EUROSTAT decided to develop a set guidelines for data collection covering pract issues related to the carrying out of the survey3. guidelines included a model questionnaire to be s

to the enterprises within the services sector, paragraph 2.3, sampling procedures, cf. paragraph 2.4 and a number of designed tables to be submit to EUROSTAT for further analysis.

The methodological manual on the services see which was elaborated in its first version in autu

1990 provided the framework for the definition of business services subsectors, cf. paragraph 2.2, a also the definitions of the variables to be collect cf. paragraph 2.3.

## 2.2 Definition of the business services sector

The husiness services sector includes v

OSTAT: Guidelines for a Pilot Survey on the business costor, document SO/01/OG EN Mosting of 13-14 March

ctor has been divided into eight subsectors are defined by four digit classes of the activity Table 2.1

Computer and computer related services

Labour recruitment and provision of personnel

Professional services Marketing services

Renting and leasing services

Technical services

ctoral level to give a meaningful appreciation

lifferent activities constituting the sector. Thus

Definition of the business services sector by NACE.Rev1

Enterprises.

- Operational services Other business services
- ime when the pilot survey was carried out the
- tivity classification, NACE.Rev1, had not been ented in the Member States which were using own national nomenclatures of economic
- . In order to arrive at a common definition of usiness services sector and the tors each Member State needed to:
- st the various activities making up the ubsectors lentify these activities in terms of NACE.Rev1
- lassification and in terms of the country's own omenclature egroup these activities into the subsectors efined in the pilot survey
- efinition of the collected variables ntioned above the variables collected in the rvey have been defined by the Methodological I elaborated by EUROSTAT which gives a
- d classification and definition of variables to be ed4. The variables in the manual relevant for a cal description of the services industries can ded into three groups:

1) demographic and structural variables (activ age, size class, legal status) 2) economic variables (turnover, gross va added, labour costs, investments) 3) employment variables (number of pers

classification NACE.Rev1. The eight subsectors

presented in table 2.1 and a more deta

(NACE.Rev1: 72.10 - 72.60) (NACE.Rev1: 74.11, 74.12, 74.14)

(NACE.Rev1: 74.13, 74.40) (NACE.Rev1: 74.20, 74.30)

(NACE.Rev1: 71.10 - 71.30)

(NACE.Rev1: 74.81 - 74.84)

4 Cf. EUROSTAT, Methodological Manual of Statistics on Se.

(NACE.Rev1: 74.50) (NACE.Rev1: 74.60, 74.70)

description is given in annex I.

- employed, part-time employees) 2.4 Survey universe and identificati
  - methods

2.4.1 Identification of the universe

According to the recommendations laid down in data collection guidelines, the Member States sho survey a sample of 1 500 or 3 000 enterprises with

the business services sector depending on the of the Member State. The pilot survey revealed that the Member Sta

had relatively uneven conditions for identifying universe as only a few Member States had busir registers with a full coverage of all enterprises wi the business services sector. In broad terms, the

for identifying the universe;

kind of survey frames were used in the pilot sur

etherlands - and also in Finland and Sweden tatistical registers used for specific statistical urposes, i. e. production or accounts statistics, ith a limited sectoral or size coverage as in

usiness registers with a total and updated

overage as in Denmark, France and the

ermany, Spain, Greece, Italy, Luxembourg nd Portugal rivate data bases with only a limited coverage he surveyed population by nationality

nd updating as in Ireland and United Kingdom oblem of inadequate registers combined with -mandatory status of the pilot survey resulted verage response rate of 46.8%, cf. table 2.2. any countries the response rate was even

e.g. the United Kingdom (12.8%) and

Altogether the pilot surveys

ny (24.6%).

As a consequence of the heterogeneous samp procedures and the response rates obtained possibilities for comparative studies of the collection data between the Member States remain rat modest. Only for France and Germany the data raised to the level of the total business servi sector. For all other Member States the data of give information about the responding population the sample.

consisted of 44 084 enterprises - or about 3% of

total estimated universe of enterprises within

business services sector.

Due to the raised data the Fre population constituted nearly two thirds of the t number of surveyed enterprises, thus make analysis on the EUR(11) level impossible due to unequal national distribution in the pilot survey.

%-share of total number of

accepted responses

na

Response rate (%)

Number of surveyed	Number of accepted
enterprises	responses

na

		·
2.1	925	1715
9.5	4169	16954
2.5	1108	2500
6.9	3037	10589
63.2	27856	38567

na

Tabel 2.2

Size of samples and accepted responses in the pilot survey in each Member State.

4	2.5	1108	2500
2	6.9	3037	10589
7	63.2	27856	38567
1	1.0	426	3008
3	3.5	1564	4860

1097 470 1.1 10 1500 1500 3.4 3307 1500 3.4

erlands d Kingdom 10189 1301 3.0

100,0 94286 44084

UROSTAT. Pilot survey data.

In 1990 a little more than half of ne statistical results of the pilot survey give no enterprises and two thirds of the employment wi on of the total magnitude of the European the business services sector are found in the th ss services. The best statistical information on sue are found in the EUROSTAT publication

largest economies of the European Commun Germany, France and The United Kingdom, the la orises in Europe". In this publication the total being the main contributor, cf. table 2.3. an universe of business services enterprises mated to 1.9 million employing 8.4 million

Table 2.3

The national shares of the total business services sector at EUR(12) level, 1990, %-share.

	Enterprises	Employed	Turnover		
	3.5	2.3	;		
	1.2	1.7			
	19.6	16.3	2		
	3.2	1.4	!		
	15.1	8.6			
	12.5	19.3	1		
	na	na			
	0.6	2.4			
ırg	0.1	0.1			
erlands	2.3	3.0			
	2.4	1.1			
d Kingdom	20.6	30.5	3		
UROSTAT. Enterprises in Europe (1	1994).				

he surveyed population by size-class ferences in the coverage of the sample frames

n the different Member States are also d by analyzing the size distribution of the ed enterprise population. Generally, the ed samples show a bias towards the larger ises (100+ persons employed) as 1.2% of the ed enterprises belongs to medium-sized (100-

employees) or large enterprises

ees) compared to 0.3% at the EUR(12) level

ted in the study by EUROSTAT "Enterprises

ope", cf. table 2.4. Especially the sample

States the national differences in the proportion micro enterprises are difficult to interpret.

populations in Italy, the Netherlands and the Un

Kingdom show high shares of larger enterprise Also the small enterprises (10-99 employe

showed a high share of the surveyed enterprise

the three above mentioned countries and in fur

three Member States; Denmark, Spain and Irela

particularly dominant in Germany, Greece

France, but as the self-employed persons were

included in the sample population in all Mem

micro enterprises (0-9 employees) w

Table 2.4

10-99 employees

The surveyed enterprises broken down by size class in 1990, %-share.

1-9 employees

				<u> </u>	
	na	na	na	na	
	18	52	28	2	
	28	59	12	1	
	na	94	6	1	
	na	66	30	3	
	3	85	11	1	
	1	64	32	3	
	na	na	87	11	
ırg	2	75	23 <sup>1</sup>	.1	
erlands	36	26	31	5	
	na	77	20	2	
d Kingdom	1	38	46	11	
	60	36	4	0	
	na	88	11	1	
mbourg the large	est size class is 10+ due to co	infidentiality.			
UROSTAT, Pilot	survey data.				

level.

ı at the size structures broken down by

tors, the pilot survey showed that the large ises mainly were found in the subsectors

slightly from this pattern with 82%.

spectively 59% of the total employment, cf.

S.

0 employees

recruitment and provision of personnel and onal services. On the other hand all the other showed a uniform size structure with the enterprises constituting 85 - 90% of the total of enterprises; only computer services

tors labour recruitment and provision of al and operational services were ding in their share of small enterprises which out 32 respectively 22% on the EUR(11) ly, the size structure of the sample is also d by the importance of the different Member

three quarters of the total employment in this s The large enterprises in all the of class. subsectors only accounted for less than 20% of total employment in their respective subsector.

table 2.5. Remarkably, the large Italian enterpri

only accounted for 26% of the total employmen

the Italian population compared to the average sh of 32% for the large enterprises at the EUR(

The importance of the employment in the la

enterprises can be traced back to the importance the two subsectors labour recruitment and provis

of personal and operational services represent

100-499 employees

500+ employees

The medium sized enterprises were characterised a pattern of most subsectors showing a share are the EUR(11) average of 22%. Operational servi is the only subsector with a significant higher sh (32%) and professional and technical servi showed considerably lower share (1 а respectively 12%).

concerning the employment in the business Thus the employment of the surveyed ises in the Netherlands and the United m is dominated by the large enterprises with

Table 2.5

Employment in the surveyed enterprises broken down by size class, 1990, %-share.

	0-9 employees	10-99 employees	100-499 employees	500+ employees
<b>.</b>				
	na	na	na	na
	10	38	15	37
	26	25	21	28
	36	42	23	0
	1	34	28	38
	26	30	16	28
	10	30	26	34
	na	38	36	26
urg	20	80	na	na
erlands	2	19	19	61
	16	26	28	30
ed Kingdom	2	14	25	60
	27	30	18	25
	25	35	40	na

on of personnel and operational services with employment nificant lower share (11% tively 12%). icro enterprises which employed the smallest er of employees were dominated by the three

% respectively 1%.

nall enterprises also showed a rather uniform with a share around 38% for all subsectors,

for professional services with a relatively

share (48%) and labour recruitment and

ctors professional services (36%), technical es (34%) and other business services (33%). other end the employment shares of the ctors labour recruitment and provision of

inel and operational services are neglectable umber of local units per enterprise is another ation about the demographic structure of the red enterprises. On average, the surveyed

Italy and the United Kingdom which were characterized by a relatively huge amount of la enterprises in the surveyed population. The structural pattern is rather uniform when bro

down by subsectors as 5 subsectors (comp services, professional services, marketing servi technical services and operational services) sho an average number of local units amounting to The subsector showing the highest ave number of local units per enterprise is renting leasing services (1.8 local units). This is mainly to the relatively high numbers in Italy (3.9 local u

enterprises consisted of 1.5 local unit per enterp

cf. table 2.6. The main deviations with 2.3 local u per enterprise are found in the sample population

and the United Kingdom (4.1 local units).

Table 2.6

Technical

Number of local units per enterprise, 1990.

Renting and

Recruitment

Operational

Other

ΑII

services	services	services	services	leasing services	and provision of	services	business services	subsectors
					personnel			
na	na	na		na	na	na	na	r
1.3	1.1	1.1	1.5	1.1	na	1.4	2.3	1
1.1	1.1	1.0	1.1	1.2	2.6	1.2	1.0	1
1.0	1.0	1.0	1.0	1.2	1.3	1.0	1.0	1
2.3	1.4	1.7	1.7	2.2	1.3	2.3	1.4	1
1.1	1.1	1.1	1.1	1.2	2.8	1.2	1.1	1
1.1	1.0	1.3	1.2	1.2	1.4	1.8	2.5	1
2.0	2,4	4.2	2.0	3.9	na	1.5	1.8	2
1.1	1.0	1.0	1.0	1.2	1.2	1.1	1.1	1
1.1	2.0	1.3	1.7	1.1	1.9	1.9	1.1	1
1.2	1.1	1.2	1.1	1.8	1.2	1.3	1.2	1
2.3	2.3	0.9	2.2	4.1	1.7	1.5	2.9	2
1.1	1.1	1.0	1.1	1.0	na	1.7	1.1	1
	1.1	1.0		1.3	1.1	1.2	1.0	1

ne surveyed population by legal status

Computer

Professional

Marketing

t demographic variable to be analysed is the

y is the most frequent among the surveyed ses in 7 Member States (Denmark, Spain, Italy, Luxembourg, the Netherlands and the But in 3 Member States Kingdom). Greece and France) the nγ, orship is the most frequent legal status, s partnership is the dominant legal status in The differences between the national pilot

orm pattern can be found as the legal status

United Kingdom which both were dominated by lar enterprises and consequently by companies (6) respectively 83%). atus of the surveyed enterprises, cf. table 2.7. The subsectors showed distributions which differ from the general pattern of legal status. The companies dominated in computer services a marketing services in all Member States except Germany and Portugal. In renting and leas services companies were dominant in all Memi States except for Portugal where partnerships we the most frequent legal status - as for all of subsectors. On the other hand sole proprietors

was the most frequent legal status in professio services in 6 Member States (Denmark, Germa Greece, Spain, France and Ireland).

may reflect real differences between r States due to e.g. the legislative conditions number of cases the recorded differences

sed by the sample frame e.g. Italy and the

Sole proprietorship	Partnership
Sole proprietoiship	raineisiip
	<u> </u>
na	
42	
76	

70

41 52 30 8 33

Table 2.7

The surveyed enterprises broken down by legal status, 1990, %-share

na

na

14

14

na

11

18

11

4

6

81

11

14

29

37 12 4

ırg

erlands

d Kinadom

UROSTAT. Pilot survey data.

representative

25 11

atistical results of the pilot survey

ntioned above the statistical results obtained possibilities

ne pilot survey cannot be characterised as the ability between Member States are rather

In this section a number of basic variables e compared between subsectors in order to try tify the most basic structures and differencies n the different subsectors in the Member

so

to the skewness in the national distribution in the total

economic variables, cf. table 3.15. subsectors as professional services was the m

States. Keeping the quality of the data in mind th comparisons will mainly be done by ranking subsectors in the different Member States in rela

table 3.1.

60 59

Company

46 6 83

na

58

9

16 54

35

50

67

62

Other

to a number of basic demographic, employment The surveyed enterprises showed a clear pati concerning distribution of enterprises among

Kingdom the subsector professional services was minor importance. Also technical services shower frequent representation in the samples as subsector ranked second in 8 Member States, Altogether the two most frequ

subsectors stood for nearly 55% of all the surve enterprises. In France and the United Kingdom subsector other business services was the n numerous and in Italy computer services ran

numerous subsector in 8 of the Member States came second in 2. Only in the sample of the Un

number one. The structural pattern is more scattered w investigating the importance of the subsec regarding employment. In general the subse operational services showed the highest ranking

services sector at the European level; st step in the analysis each subsector is ranked within each in terms of number of enterprises, employees, turnover .1), turnover per employee, gross value added per e, labour costs per employee, investments per employee, es per enterprise (tables 3.1.1-3.8.1), exports and types of ables 3.1.2-3.8.2). econd step the EUR(11) average has been calculated as ighted average of the national rankings for each analysed

of surveyed enterprises at the EUR(11) level the following

has been used for profiling the subsectors and the total

ands and Portugal and becoming the second subsector in Denmark, Greece, Spain and Technical services was the most important tor in Denmark, Spain, Ireland and the second nportant in the Netherlands. Totally the two operational and technical services ed to half the employment registered in the ed enterprises. Professional services which

ors

second most important subsector in 4 Mem States concerning employment. France showe different pattern with the subsector recruitment a provision of personnel as the most import subsector with nearly 20% of the total employment the business services sector in France.

showed the highest number of enterprises was

UK

EUR

(11)

Ρ F **IRL** L NL В DK D GR Ε

Table 3.1

Ranking of number of enterprises, employees and turnover by subsector and member state, 1990.

												500000	
es													
services	na	6	5	4	6	5	4	1	3	5	6	2	
al services	na	1	1	1	1	2	1	2	1	1	1	4	
services	na	5	3	5	3	4	6	5	4	7	4	5	
ervices	na	2	2	2	2	3	2	3	2	2	2	3	
d leasing	na	7	7	6	5	7	8	7	7	4	5	7	
t and provision	na	na	8	8	8	8	5	na	8	8	8	8	
el													
l services	na	3	6	7	7	6	7	4	5	6	7	6	
ness services	na	4	4	3	4	1	3	6	6	3	3	1	
es													
services	na	3	5	5	4	6	5	1	3	5	8	2	
al services	na	4	2	6	3	2	4	4	2	4	2	4	
services	na	6	6	1	5	7	6	5	5	6	4	8	
ervices	na	1	3	3	1	5	1	3	4	2	3	3	
d leasing	na	7	8	7	6	8	8	7	8	7	6	6	
nt and provision	na	na	4	8	8	1	7	na	7	8	7	7	
el												3.000	
ıl services	na	2	1	2	2	3	3	2	1	1	1	5	
ness services	na	5	7	4	7	4	2	6	6	3	5	1	

t

ness services UROSTAT. Pilot survey data

services

services

services d leasing

al services

el

nt and provision

al services

na

na

na

na

ng services, standing at first place in r States and number two in Italy and Spain. subsectors stood for a little less than half the gistered turnover in the pilot survey. ngly, the subsector operational services which e highest employment showed only a minor (8%) of the total turnover of the surveyed ises. emputer and related services

ubsector computer services accounted for

The computer and related services are

studying the third basic variable, turnover, the

tor technical services again shows a high

being at first place in 5 Member States and

tor showing the highest amount of turnover is

in additional 2 Member States.

#### 11 - 15% of the total number of n ises, employment and turnover in the pilot

erised by being one of the fastest growing s industries. The enterprises producing er services are also often involved in er hardware/software sales and thus causing ns in the definition of the principal activity cation between trade and services activities. tance in the case of Luxembourg NACE.Rev1 51.64 Wholesale of office machinery and ent was also included in the sample and taken count if the enterprises received more than

10% of their turnover from computer servi activities. This definition is clearly reflected in the collected of

as turnover per employee in Luxembourg exce

the amount of all other Member States. In gene computer services was ranked as the third or for highest subsector concerning turnover per emplo (Denmark, Germany, Spain, France, Italy, Netherlands, Portugal and the United Kingdom) concerning gross value added per emplo (Denmark, Germany, Greece, Spain, Italy, Netherlands and Portugal), cf. table 3.1.1. Only surveyed enterprises in Ireland showed figures

ably different from the other European countries.

Computer services showed in 5 (Germany, Gree

France, Luxembourg and the Netherlands) out of Member States the highest labour costs The same pattern was registered emplovee. Finland and Sweden. Concerning investments th is no clear pattern but on average the comp services is the subsector ranking third concern investments per employee. Nor concerning num of employees per enterprise a uniform pattern acr the Member States is found. Especially the Un Kingdom sample differs with a very high aver-

employment per enterprise - more than

employees per enterprise.

Table 3.1.1 Computer services. Ranking of economic key variables 1990.

Tu	rnover per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
	1	<u></u>			
	na	na	na	. na	
	3	4	2	2	
	4	4	1	2	
	2	3	1	3	
	4	3	2	5	
	3	2	1	2	
	7	7	7	7	
	4	4	4	5	
urg	2	2	1	na	
erlands	4	3	1	5	
	3	3	3	4	
ed Kingdom	3	2	2 1	3 3	
	3	2	1	2	
	2	4	1	3	

UROSTAT. Pilot survey data.

lot survey also included a breakdown of the er into domestic sales, exports to other EC es and exports to countries outside the EC. In mber States (Denmark, Germany, France, and the United Kingdom) computer services

er in computer services) and the United

e subsector with the highest exports share to EC countries, cf. tabel 3.1.2. Especially ter services in Ireland (15% of the total

(9%).



Kingdom (7%) showed high exports shares; altho-

the highest share was found in Luxembourg (2 even if computer services only ranked second Luxembourg. Concerning exports to extra countries the pattern was different. Only in Port computer services was ranked at the first plant Extra EC exports came out with relatively shares in Denmark (9%), Ireland (9%) and Port

Ranking of turnover in computer services broken down by exports and type of clients, 1990.

Exports

Type of clients

	Other EC countries	Extra EC	Households	Government	
	na	na	na		
	1	4	5		
	1	4	8		
	8	3	6		
	5	2	na		
	1	4	6		
	1	2	6		
	5	5	2		
l	2	5	6		
ands	2	3	5		
	4	1	5		
Kingdom	1	5	7		
	1	4	6		
ROSTAT, Pilot surv	vev data				
11001711. 1 110. 52.7	oy data.				

subsectors.

nking second in the Italian survey. In all other r States the computer services showed a share of turnover sold to households than in an survey. ter services also ranked medium concerning ment as client in comparison with the other both for computer services tors. But ises in Greece (22%) and Italy (31%) ment constituted an important client. Thus in early 40% of the turnover generated in er services derived from other clients than

ot survey also included a breakdown of the

r by type of clients, i.e. enterprises,

olds and government. Computer services was

erised by only minor sales to households

ed to the other subsectors, cf. table 3.1.2.

ception was computer services in Italy which ed 6% of the total turnover sold to households

## ofessional services

ises.

bsector professional services was the most ous subsector and accounted for about 1/3 of pondent enterprises in the pilot surveys. One

clear performance concerning the selected variable cf. tabel 3.2.1. Not surprisingly, the subset showed a low ranking concerning turnover a investments per employee and also a employment per enterprise. More surprisingly enterprises within the professional services as

reason for this high number of enterprises might found in the licensing system for lawyers

accountants in the Member States which implies

existence of identification sources of a good

updated coverage compared to many of the ot

The subsector of professional services showed

employment per enterprise. More surprisingly enterprises within the professional services a showed relatively low labour costs per employwhich must be seen as a consequence of frequent appointment of partners amongst professional educated employees leaving a relatively high share of non academic employees or your professionals. Only the United Kingdom which we dominated by a high number of larger enterpri with a relatively larger part of employees compart to partners showed a different pattern concern

labour costs per employee as professional servi

in the UK ranked number one.

Table 3.2.1

Professional services. Ranking of economic key variables 1990.

6 5 5 3	Turno	over per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
6 3 4 5 6 6 6 6 7 7 7 8 7 8 7 6 6 5 3 5 3 3 6 5 6 6 6 4 5 5 2 urg 6 3 2 na erlands 6 6 5 5 3 ed Kingdom 4 3 1 5	<b>L</b>					
6 6 6 6 7 7 7 8 7 8 7 6 6 6 5 3 5 3 5 5 5 2 2 9 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9				na	. na	
7 7 7 8 7 6 6 5 3 5 3 3 6 5 6 6 4 5 5 5 5 2 urg 6 3 2 na erlands 6 6 4 6 ed Kingdom 4 3 1 5		6	3	4	5	
erlands 6 6 4 6 6 5 5 3 ed Kingdom 4 3 1 5		6	6	6	6	
erlands 6 6 4 6 6 5 5 3 ed Kingdom 4 3 1 5		7	7	8	7	
erlands 6 6 4 6 6 5 5 3 ed Kingdom 4 3 1 5		6	6	5	3	
erlands 6 6 4 6 6 5 5 3 ed Kingdom 4 3 1 5		5	3	3	6	
erlands 6 6 4 6 6 5 5 3 ed Kingdom 4 3 1 5		5	6	6	4	
erlands 6 6 4 6 6 5 5 3 ed Kingdom 4 3 1 5		5	5	5	2	
erlands     6     6     4     6       6     5     5     3       ed Kingdom     4     3     1     5	urg	6	3	2	na	
6 5 5 3 ed Kingdom 4 3 1 5		6	6	4	6	
		6	5	5	3	
	ed Kingdom	4	3	1	5	
5 5 5 5 4 2 3 2		7	5	5	5	
4 2 3 2		5	5	5	5	
		4	2	3	2	

rprisingly, professional services only showed trankings for export shares. In all Member

UROSTAT, Pilot survey data.

the exports shares to other EC countries were han 5% of the total turnover, except for bourg (12%) and the United Kingdom (7%), cf. .2.2.

On the other hand professional services was subsector with the highest export shares to extra countries in Denmark (18%), Luxembourg (8%) Portugal (9%).

Table	3.2.2	

Ranking of turnover in professional services broken down by exports and type of clients, 1990. **Exports** Type of clients

	Other EC countries	Extra EC	Households	Government
	<u> </u>			·
	na	na	na	
	6	1	2	
	5	2	2	
	4	6	1	
	2	4	2	
	5	2	1	
	6	6	1	
	4	4	3	
g	3	1	2	
lands	3	4	2	
	4	1	3	
Kingdom	1	2	2	
	a akan karangan kanangan kanangan kanangan kanangan penggan penggan penggan penggan penggan penggan penggan pe		1	\$44.44\$\$6464.65666.65666.656666666666666

second. In Greece (37%), France (21%), ny (18%) and Denmark (17%) the households ited a considerable share of the turnover. sional services showed secondary rankings ning government as clients. Only in Spain and the United Kingdom (15%) more than 10%

generated turnover derived from government

sional services was characterised by being the tor which generated the highest share of

r from households, cf. table 3.2.2. In 9 of 11

r States professional services was ranking

# arketing services

ing services is in most of the Member States erised by a large volume in turnover caused large amount of purchases coming from sement space and time sales invoiced by the ing enterprises. In Denmark, Greece, Spain, nd Portugal where marketing services ranked e turnover per employee in this subsector was characterised by having the highest labour costs employee of all the surveyed subsectors in these countries. The 4 above mentioned Member Sta with a relatively low gross value added also show relatively low labour costs per employee below national averages in the business services sector.

The structure is more distorted when analyzing gr

marketing services is ranked one or two in Germa

Greece, Spain, Ireland and Portugal; on the of

comparably low generation of gross value added

Denmark, France, Luxembourg and the Un

The marketing services in Spain and Portugal

services appear

On the one has

to have

value added per employee.

hand marketing

Kingdom.

Except for Greece and Italy the subsector marke services showed a number of employees enterprise below the national averages. investments per employee had a general trend marketing services being one of the three subsec with the highest investments except for Germa France and the United Kingdom.

n 2.5 - 5 times the national average turnover ployee in the business services sector, cf. 3.3.1.

its.

Table 3.3.1 Marketing services. Ranking of economic key variables 1990.

	Turnover per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
	na	па	na	. na	
	1	6	6	3	
	2	2	4	4	
İ	1	1	2	2	
	1	1	1	2	
	2	5	5	5	
	3	1	3	1	
	1	3	2	3	
rg	3	6	6	na	
rlands	3	4	2	3	
	1	2	1	2	
d Kingdom	5	6	8	7	
	2	2	3	5	
	2	3	2	3	
	3	1	2	4	

JROSTAT, Pilot survey data.

were of no major importance in marketing

s, cf. table 3.3.2. The subsector showed ranking in most Member States. The highest shares to other EC countries were found in (6%), Ireland (12%), Luxembourg (12%) and

es were without significance except for Ireland

nd the United Kingdom (7%).

ted Kingdom (6%). The exports to extra EC

In all Member States the share was less than 3%, table 3.3.2. Neither government clients were greater importance for the marketing services sec compared to the other subsectors as market services only showed secondary rankings except Spain.

Marketing services was - together with lab

subsector with the least share of households clien

recruitment and provision of personnel

**Table 3.3.2** 

Ranking of turnover in marketing services broken down by exports and type of clients, 1990.

	Exports		Type of clients		
	Other EC countries	Extra EC	Households	Government	
			1		
	na	na	na		
	5	7	7		
	4	5	7		
İ	3	7	8		
I	4	4	3		
	3	5	6		
	2	4	6		
	7	5	7		
urg	3	3	6		
erlands	6	7	7		
J.1.2.1.2.1	6	7	6		
d Kingdom	4	2	6		
	6	7	7		
1000 cm (00 cm (00 cm (0) cm (00 cm (0) cm (00 cm (0) cm (	- 000 - 000 - 000 000 000 000 000 000000		,0000000000000000000000000000000000000		
UBOSTAT Pilot surve	ou data				

## echnical services

#### cal services was one of the most important

tors on the total European level ranking

I in all basic variables (number of enterprises, ment and turnover) analysed in section 3.1.

cture changes somewhat when looking at the nic variables per employee as technical medium ranking, cf.table 3.4.1. Enterprises within the technical services show relatively high labour costs per employee as

services then in most of the Member States go

subsector ranked first or second in Denm Germany, France, Ireland, Italy and Portugal; on Greece the labour costs per employee were low.

**Table 3.4.1** 

Technical services. Ranking of economic key variables 1990.

	Turnover per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
	<u></u>				<b></b>
	na	na	na	ha .	1
	4	2	1	6	
	5	5	2	5	
	5	5	6	5	
	3	4	3	4	
	4	4	2	4	
	6	4	2	6	
	3	2	1	6	
9	5	5	4	na	
lands	5	5	3	7	
	4	4	2	5	
Kingdom	8	5	3	6	
	4	4	2	6	
	4	4	3	4	
		3	4	1	

l).

ing exports to other EC countries as the or was in first or second position in 6 Member (Denmark, France, Italy, the Netherlands, I and the United Kingdom), cf. table 3.4.2. illy in Portugal (16%) and in the Netherlands the subsector was showing high exports of the total turnover.

al services showed a relatively high ranking

al services was in 4 Member states (Spain, Italy and the Netherlands) the subsector highest shares of exports to extra EC s, and the subsector was ranking second in 3 Member States (Denmark, Germany and

In total, technical services was the most expe oriented sector as the enterprises within techni services in Portugal received 21% of their turno from other countries, the Danish enterprises received 20% and the Dutch enterprises 18% of their to turnover from exports. The major exception v Luxembourg where technical services showed smallest exports share of the surveyed subsectors

Technical services was the only subsector in

Netherlands with any significant exports to extra

countries (8%). But also in Denmark (17%), It (14%) and France (13%) technical services showe

considerable share of exports to extra EC countri

	1 able 3.4.2

**Exports** 

Ranking of turnover in technical services broken down by exports and type of clients, 1990. Type of clients

	Other EC countries	Extra EC	Households	Government
	na	na	. na	
	2	2	6	
	3	1	1	
	6	4	3	
	3	1	4	
	2	1	4	
	6	6	4	
	2	1	5	
g	5	3	1	
lands	1	1	6	
	2	3	4	
Kingdom	1	5	5	
1	9			
	2	1	4	
ROSTAT. Pilot sui				
AOSTAT, Phot su	irvey data.			

olds as clients and also in Greece (28%) the olds constituted an import client group. In the Member States households were of minor other hand the pilot survey clearly showed all Member States technical services is ranked

no

showed

ning breakdown of turnover by type of clients,

el 3.4.2. In Germany (19%) and Luxembourg

second regarding government as clients.

cal services

nce.

technical services

more in Denmark (43%), Greece (38%) and 3%) government made up a relatively large of the total turnover in technical services.

clear

ranked first concerning

### enting and leasing services

bsector renting and leasing services is one of nor subsectors in terms of total volume of the ss services sector. The number of enterprises subsector represented about 5% of the total r of surveyed enterprises, only in the ands the subsector represent a larger share Concerning the total employment in the ss services sector the subsector renting and services represents an even minor share all the Member states except for Ireland, cf. ta 3.5.1. The subsector also comes in first or second pl concerning gross value added per employee in all Member States again except for Ireland. This a

The precondition for carrying out renting and least activities is a considerable amount of capital availa

in contrast to most of the other subsectors wi

employee is exceptionally high compared to the of

subsectors. The results of the pilot survey a clearly stresses the high investments share

renting and leasing services is ranked in first plac-

Thus the investments

business services.

goes for the ratio of turnover per employee where only exception is Greece. On the other hand enterprises within the subsector bear relatively labour costs per employee and the subsector is a employing the least number of employees enterprise in the business services sector except The overall pattern w professional services. analyzing the data per Member state also show

relatively low rankings, except for Greece where

surveyed units were of a relatively larger size tha

the other Member States.

**Table 3.5.1** 

Renting and leasing services. Ranking of economic key variables 1990.

	Turnover per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
	na	na	na	, na	
	2	1	5	1	
	1	1	3	1	
	3	2	3	1	
	2	2	6	1	
	1	1	4	1	
	2	3	4	2	
	2	1	3	1	
rg	1	1	5	na	
riands	2	2	6	1	
	2	1	3	1	
d Kingdom	- 1	1 1	5 4	1 1	
	1	1	4	1	
1	1	na	5	na	

JROSTAT, Pilot survey data.

no clear pattern concerning exports shares, l 3.5.2. In Italy (8%) and Portugal (27%) the or received a considerable higher share of nover from exports to other EC countries than

terprises within renting and leasing services

er subsectors, and also in Greece the exports

exports share in Germany, Spain and France v less than 2%. The exports to extra EC country were of minor importance in most Member Sta with Greece (8%), Ireland (9%) and Italy (4%) exceptions.

share was very high (27%). On the other hand

	Exports	Exports	
	Other EC countries	Extra EC	Households
	na	na	. na
	3	4	1
	7	6	3
	2	2	4
	6	6	na
	7	8	3
	4	2	8
	1	2	1
urg	na	na	2
erlands	5	5	1
	1	5	2
d Kingdom	7	8	1

UROSTAT, Pilot survey data.

rises.

onnel

Table 3.5.2

na 5 5

of any importance.

2 1 2 Also concerning employment the subsector lal recruitment and provision of personnel was of m

importance with the exception of France where

subsector is the major contributor to the employr

of the business services sector (18%). France

also the only Member State where the turnover sl

of labour recruitment and provision af personnel

Type of clients

Government

rprisingly, households were relatively important for enterprises within renting and leasing es compared to the other subsectors as the ctor was ranking first or second in 6 Member , cf. table 3.5.2. In Denmark, Greece and the lands households constituted about one fourth total turnover in renting and leasing services. e other hand government was only of minor ance as a client in the Member States except

and and Italy with 22% respectively 32% of the urnover generated by renting and leasing abour recruitment and provision of lot survey revealed that the subsector of labour ment and provision of personnel in general the Member States huge problems of cation of the population in question. Firstly, in ark and Italy the subsector constitutes no indent subsector and thus cannot be analysed. dly, in three Member States

bourg and Portugal) the total number of

ed enterprises was less than 20. In general the

ctor played the least important role concerning

er of enterprises with only 1% of the total

er of surveyed enterprises.

One reason for the low coverage of this subsect the business services sector is probably the fact in many countries provision of personnel traditionally been produced by public or semi pr bodies. As a consequence of this structure number of private enterprises in this subsector limited.

As the total number of surveyed enterprises limited to a total of less than 3 500 the data for subsector should be interpreted with utmost cau The results of the pilot survey show only m values for the calculated ratios concerning

economic data, cf. table 3.6.1, except for Ire (turnover and labour costs per employee) and Netherlands (turnover, gross value added and la costs per employee). On the other hand

subsector showed the highest or the second hig

number of employees per enterprise in Germa France, Luxembourg, Portugal and the Ur

Table 3.6.1

Recruitment and provision of personnel. Ranking of economic key variables 1990.

	Turnover per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
				<del></del>	
	na	na	na	. na	
	na	na	na	na	
	7	7	7	7	
	6	4	5	7	
	5	5	4	7	
	7	7	6	8	
	1	5	1	4	
	na	na	na	na	
ırg	8	7	7	na	
erlands	1	1	5	2	
	7	7	7	7	
d Kingdom	6	7	6	8	
	6	į.	f	7	
	na	na	na	na	
	8	na	6	na	
	Ť	1104	-	·· <del>-</del>	

UROSTAT. Pilot survey data.

I a rather blurred pattern concerning exports of table 3.6.2. The subsector ranked first in (33%) and Spain (3%), but ranked last in my and the United Kingdom.

recruitment and provision of personnel

ubsector also showed an indistinct pattern ning exports to extra EC countries as the tor ranked first in Greece (38%), Ireland (10%) and the United Kingdom (8%) but ranked in Germany and Spain. The Greek enterprishowed exports as the major part of the turnove enterprises within labour recruitment and provision personnel. But as the number of survey enterprises in Greece was very limited the resishall be interpreted with the utmost caution.

**Table 3.6.2** 

Ranking of turnover in labour recruitment and provision of personnel broken down by exports and type of clients, 1990.

**Exports** 

		!	,,		
	Other EC countries	Extra EC	Households	Government	
		1			
	na	na	. na		
l	na	na	na		
	8	6	6		
	1	†	7		
	1	6	na		
	4	6	8		
	3	1	5		
l	na	na	na		
urg	na	na	6		
erlands	7	6	8		
I	7	6	8		
d Kingdom	6	1	8		
a rangeo	7	5	8		
88808888888833888	1,000,000,000,000,000,000,000,000,000,0	- 1000000000000000000000000000000000000	60000000000000000000000000000000000000	000000000000000000000000000000000000000	
<del></del>					
UROSTAT. Pilot sun	ment data				
CONCOLAT. FILOLOGI	vey data				

employee.

ises.

d only secondary rankings.

## perational services

urprisingly, operational services was the tor which showed the largest employment iting for about 30% of the total employment in ilot survey. Concerning the other basic es, number of enterprises and turnover, onal services was of minor importance in all er States except perhaps for the Netherlands

the subsector generated a relatively high

of the turnover of the total number of surveyed

er with computer services, labour recruitment

ovision of personnel is the subsector where olds showed the least importance, cf. tabel

The pattern is uniform across Member States. ame goes for government as clients where

recruitment and provision of personnel also

investments per employee, cf. table 3.7.1. On the other hand operational services was ranke first or second place concerning the employm again with the surveyed enterprises in the Ur 7 of the Men Kingdom as an exception. ln Spain, States (Germany, Greece, irela

The enterprises within operational services shower

performance of a rather uniform character as

subsector in all countries showed the lowest ra concerning the economic variables as turnover, gi

value added, labour costs or investments

services in the United Kingdom showed a q

different pattern with relatively high value added

Only the enterprises in operation

Type of clients

Luxembourg'; the Netherlands and Portugal) number of employees per enterprise was 5 times higher in operational services than the national average in business services. The major reasor the very high number of employees in operation services is found in the very large number of p time employees in this subsector.

**Table 3.7.1** 

Operational services. Ranking of economic key variables 1990.

erlands 8			•	
7 8 8 8 8 8 9 7 urg 7 erlands 8 8				<del></del>
7 8 8 8 8 8 8 7 urg 7 erlands 8 8 8d Kingdom 7	na	na	. na	
erlands 8 8 d Kingdom 7	7	7	7	
erlands 8 8 d Kingdom 7	8	8	8	
erlands 8 8 d Kingdom 7	8	4	6	
erlands 8 8 d Kingdom 7	8	8	8	
erlands 8 8 d Kingdom 7	8	8	7	
erlands 8 8 d Kingdom 7	8	8	8	
erlands 8 8 d Kingdom 7	7	7	7	
erlands 8 8 d Kingdom 7	7	8	na	
8 d Kingdom 7	8	8	8	
16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8	8	8	
	3	7	2	
	8	8	8	
7	6	6	7	
7	5	8	5	

UROSTAT. Pilot survey data.

urprisingly, operational services was the tor in which exports had the least importance, e 3.7.2. The same pattern is also found in the

exports to extra EC countries where operation services only showed secondary rankings in Member States.

#### **Table 3.7.2**

Ranking of turnover in operational services broken down by exports and type of clients, 1990.

	Exports		Type of clients		
	Other EC countries	Extra EC	Households	Government	
<del></del>					
	na	na	. na		
	7	6	4		
	6	8	4		
	7	8	5		
	8	6	na		
	7	7	5		
	6	6	3		
ı	5	7	6		
μrg	na	na	2		
erlands	8	7	4		
	8	8	7		
d Kingdom	8	5	3	**************************************	
	8	8	5		
UROSTAT, Pilot surv	vey data				

second regarding households as clients. On her hand operational services ranked high red to the other subsectors concerning ment as clients as only technical services d a higher ranking. In 7 Member States onal services ranked in first or second n. Furthermore, government made up a erable share of the total turnover generated in ises within operational services

for

onal services, cf. table 3.7.2. The only

on is Luxembourg where operational services

were only of

enterprises

minor

lands (47%) and Denmark (40%).

households

clients

neral,

as

ince

ther business services ubsector other business services showed a heterogeneous character being the residual of business services. This is partly due to the hat the activity classes in NACE.Rev1 uting the subsector have very different es, e. g. photographic activities and secretarial anslation activities, partly due to the fact that classified in this subsector as well. The subsector constituted a major part of surveyed enterprises in Greece, France, Ireland, Netherlands and the United Kingdom (between

the Member States have classified differently for

subsector as for instance in the case of Denn

where labour recruitment and provision of persona

25% in these 5 countries) and also a considera share of the total employment and turnover in same countries, cf. table 3.8.1. Not surprisingly, due to the above mention

heterogenity of this subsector the Member Sta showed no general pattern in other busing services. The EUR(11) level shows a relatively ranking for all the economic variables except investments per employee. On the other hand subsector showed very small labour costs employee; especially in the Member States

Southern Europe. At the EUR(11) level only

subsector operational services showed a lower I of labour costs per employee.

Table 3.8.1 Other business services. Ranking of economic key variables 1990.

	Turnover per employee	Gross value added per employee	Labour costs per employee	Investments per employee	Employees per enterprise
	<u>.                                    </u>				
İ	na	na	na	. na	
I	5	5	3	4	!
	3	3	5	3	1
	4	6	7	4	!
	7	7	7	6	!
	6	6	7	3	!
	4	2	5	3	I
	6	6	6	4	
urg	4	4	3	na	
erlands	7	7	7	4	
	5	6	6	6	
d Kingdom	2	8	4	4	
	5	8	7	4	
	6	7	7	6	
	6	na	7	na	

UROSTAT. Pilot survey data.

pattern concerning exports, cf. table 3.8.2. In I, the subsector was ranked medium in most er States, but in Luxembourg the enterprises other business services ranked first with a erable share of their turnover (34%) generated ports to other EC countries.

absector other business services showed no

households seemed to be rather neral. ant as clients in most of the Member States, cf.

the Netherlands households made up relatively la shares of the turnover generated in other busin services. On the other hand the other busin services showed a medium ranking compared to other sectors regarding government as clients gro But concludingly, due to the residual character of subsector further analysis of the performance of subsector is not meaningful.

tabel 3.8.2. Especially in Spain, Portugal, Greece

#### **Table 3.8.2**

Ranking of turnover in other business services broken down by exports and type of clients, 1990. Type of clients

**Exports** 

	Other EC countries	Extra EC	Households	Government
	na	na	. na	
	3	3	3	
	2	3	5	
	5	5	2	
	6	2	1	
	5	3	2	
	5	5	2	
	3	3	4	
rg	1	2	5	
erlands	3	2	2	
	3	4	1	
d Kingdom	4	2	3	
<b>4</b>	3	3	3	
Programme in the second of the second		***************************************	***************************************	111111111111111111111111111111111111111
UROSTAT. Pilot surv	vov data			
JHOSTAT. I HOLOGIA	rey uata.			

EUROSTAT

nclusion

llected data in the pilot survey on business s can - due to the low response rates and ices in sampling frames implying skewness in ional distribution of the surveyed enterprises -

raised to the total EUR(11) level. sults of the pilot survey are mainly found in the lological feedback reported on the Voorburg Meeting in 19936 and the possible statistical of the business services sector and the 8

tors constituting the business services sector, presented in this paper, partly in the

publication "Business

possible to present statistically before. The ab analysis have revealed a number of uniform patter across the Member States for the variables studie

Keeping the data quality in mind, the pilot sur

data after all give a first comparible picture of

basic structures of the European business servi

sector with a level of detail which has not be

The pilot survey has also shown a number shortcomings which have to be dealt with in future co-operation within the European Unior order to reach the level where data raised to national totals can be compared and analysed wi an European context on a harmonised basis.

otnote 1.

ming

es in Europe".

l:

### nition of business services by NACE.Rev.1

ector: Computer and related services

Hardware consultancy

Software consultancy and supply

Data processing

Data base activities

Maintenance and repair of office, accounting and computing machinery

Other computer related activities

ector: Professional services

Legal activities

Accounting, book-keeping and auditing activities; tax consultancy

Business and management consultancy activities

ector: Marketing services

Market research and public opinion polling

Advertising

ector: Technical services

Architectural and engineering activities and related technical consultancy

Technical testing and analysis

ector: Renting and leasing services
Renting of automobiles
Renting of other transport equipments
Renting of other machinery and equipments
ector: Labour recruitment and provision of personnel
Labour recruitment and provision of personnel
ector: Operational services
Investigation and security activities
Industrial cleaning
ector: Other business services
Photographic activities
Packaging activities
Secretarial and translation activities
Other business activities n.e.c.