

## Comparable Data used for Transfer Pricing in V4

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- Comparable analysis key part of the Transfer pricing consideration
- Commercial databases as a source-data ORBIS, Amadeus, TP-Catalyst...
- Comparable Data availability key issue
- Lack of comparable data → V4????

## Do V4 countries face a lack of comparable data?

- Commercial databases ORBIS and TP-Catalyst
- The counting of the available data included detailed testing of quantitative and qualitative fields (typically, profit & loss accounts data) reported in the database.
- The counting should inform on the availability or lack of availability – of comparable data under external TNMM, by selected countries.
- Data availability testing:
  - for V4 countries separately, V4, EU27 and EU28

- Counting of companies presenting cumulatively specified data fields was performed. Only the cumulative availability of limited number of data fields – those most typically used under the TNMM – was performed to allow ending up with meaningful, interpretable 'final' sets' data.
- Specified data fields (elements) and other considerations were tested:
  - independence, turnover, operating profit, net income, gross profit
  - Start-ups and loss-making entities
  - detailed testing for selected industry sectors

Data available in selected countries with cumulative reporting of independence, turnover, operating profit, net-Income, financial P/L and gross profit data for 2017 (in bracket %)

Country	No. entities	Independence	Turnover	EBIT	Net	Financial	Gross
					Income for	P/L	profit
					the period		
PL	1,837,725	13,066	3,723	3,667	3,648	3,580	448
PL	(100%)	(0.71%)	(0.20%)	(0.20%)	(0.19%)	(0.19%)	(0.02%)
cz	2,549,391	10,498	5,065	3,552	3,552	3,552	2
CZ	(100%)	(0.41%)	(0.19%)	(0.14%)	(0.14%)	(0.14%)	(0.00007%)
HU	1,238,575	4,190	210	208	208	208	74
по	(100%)	(0.33%)	(0.01%)	(0.01%)	(0.01%)	(0.01%)	(0.006%)
SK	667,303	2,314	1,490	1,490	1,475	1,475	23
JK .	(100%)	(0.34%)	(0.22%)	(0.22%)	(0.22%)	(0.22%)	(0.003%)
V4	6,292,994	30,068	10,488	8,917	8,883	8,815	547
V4	(100%)	(0.47%)	(0.17%)	(0.14%)	(0.14%)	(0.14%)	(0.008%)
EU27	48,577,587	523,903	119,754	109,863	109,728	109,532	4,809
EU27	(100%)	(1.07%)	(0.24%)	(0.22%)	(0.22%)	(0.22%)	(0.009%)
E1130	54,984,968	673,302	131,050	120,348	120,006	119,810	9,336
EU28	(100%)	(1.22%)	(0.24%)	(0.22%)	(0.22%)	(0.21%)	(0.01%)

Gross profit data is generally very scarce, in relative and in absolute values.

Table 2: Ranking table of selected countries data availability for the independence, turnover and operating profit or gross profit data in ORBIS database for 2017 in absolute terms

Position	Country	Cumulative reporting of independence, turnover and operating profit data for 2017	Position	Country	Cumulative reporting of independence, turnover and gross profit data for 2017
1	PL	3,667	1	PL	455
2	CZ	3,552	2	SK	74
3	SK	1,490	3	HU	23
4	HU	208	4	CZ	2
	V4	8,917		V4	554
	EU27	109,863		EU27	4,830
	EU28	120,348		EU28	9,469

- It is absolutely clear that V4 countries release relatively little data to start with – often related to the size of the economic – and the bottom-line quantity is even further decreased after the data availability screenings.
- If we assume that:
  - Only 125 NACE-codes are available (approximately one eighth of the 996 EU NACE-code entries, including primary codes) for illustration purposes.
  - 3 additional comparability screenings are needed, each eliminating 50% of remaining set – e.g. size, functional intensity, products or services.
  - Final set must have 10 comparables.
- A reasonable number to start with is:
  - $10 / [(1/125) * 50\%^{3}] = 10,000$  companies.
- Experience shows, however, that much more are needed, to achieve ultimately sufficient qualitative and quantitative comparability.

page 8

- In general, every screening step will result in reducing the set of remaining comparables, while increasing the comparability with the tested party.
- As a result, when this screening is combined with the application of sector and geographical limitations, there may be quite a number of instances where very few or even no comparables are left in the set → as it is visible in case of V4 countries.
- Following table presents historic data availability –
  if 3-year period is considered. The others, if lossmaking and start-ups entities are considered.

Table 3: Summary table of selected countries data availability for 3-year period in absolute terms (relative terms in bracket)

	No.	No. entities	with EBIT mar	gin and	No. entities	with net-income	e and		
Country	independ.	turnover (av	ailability for v	vhole	turnover (availability for whole period)				
Country	entities	period)							
		2017-2015	2016-2014	2015-2013	2017–2015	2016-2014	2015-2013		
PL	13,066	2,513	2,595	2,670	2,515	2,595	2,674		
	(100%)	(13.23%)	(19.86%)	(20.43%)	(19.24%)	(19.86%)	(20.46%)		
CZ	10,498	2,629	2,910	2,917	2,630	2,911	2,918		
	(100%)	(25.04%)	(27.72%)	(27.78%)	(25.05%)	(27.72%)	(27.79%)		
HU	4,190	189	183	183	190	184	185		
	(100%)	(4.51%)	(4.37%)	(4.37%)	(4.53%)	(4.40%)	(4.41%)		
SK	2,314	1,300	1,298	1,240	1,286	1,261	1,168		
	(100%)	(56.17%)	(56.09%)	(53.58%)	(55.57%)	(54.49%)	(50.47%)		
V4	30,068	6,631	6,986	7,010	6,621	6,951	6,945		
	(100%)	(22.05%)	(23.23%)	(23.31%)	(22.02%)	(23.11%)	(23.09%)		
EU27	523,903	92,785	95,468	95,816	97,944	95,577	95,880		
	(100%)	(17.71%)	(18.22%)	(18.29%)	(18.69%)	(18.24%)	(18.30%)		
EU28	673,302	99,892	103,357	104,957	99,941	103,303	104,663		
	(100%)	(14.83%)	(15.35%)	(15.58%)	(14.84%)	(15.34%)	(15.54%)		

- The profitability of companies in all V4 countries was verified to identify loss-making companies on an annual basis (2017, 2016, 2015, 2014, 2013), and over 3-year periods - with permanent losses, over three 3-year periods (2017-2015, 2016-2014 and 2015-2013) per researched country.
- Definition of a company in a loss position: a company has been characterised as a loss-making entity if the operating result is negative. The operating result is the result after all operating expenses, also often referred to as EBIT (Earning Before Interest and Taxes).
- The company was not considered as a loss-making entity in case no data was provided.

Table 4: Loss-making entities - EBIT is negative - in absolute terms (relative terms in bracket)

Country	No. independ.	No. loss-m	aking entities	No. loss-making entities for a whole 3-year period					
PL CZ HU	entities	2017 2016		2015	2015 2014		2017- 2016- 2015 2014		2015- 2013
DI	13,066	1,186	981	1,145	997	900	264	276	258
PL	(100%)	(9.07%)	(7.50%)	(8.76%)	(7.63%)	(6.88%)	(2.02%)	(2.11%)	(1.97%)
C7	10,498	1,803	2,013	1,496	1,290	1,233	625	653	632
CZ	(100%)	(17.17%)	(19.17%)	(14.25%)	(12.28%)	(11.74%)	(5.95%)	(6.22%)	(6.02%)
шп	4,190	75	73	78	70	76	34	30	36
по	(100%)	(1.78%)	(1.74%)	(1.86%)	(1.67%)	(1.81%)	(0.81%)	(0.71%)	(0.85%)
cv	2,314	531	491	484	533	530	239	246	253
31	(100%)	(22.94%)	(21.21%)	(20.91%)	(23.03%)	(22.90%)	(10.32%)	(10.63%)	(10.93%)
V4	30,068	3,595	3,558	3,203	2,890	2,739	1,162	1,205	1,179
V4	(100%)	(11.95%)	(11.83%)	(10.65%)	(9.61%)	(9.10%)	(3.86%)	(4.00%)	(3.92%)
EU27	523,903	41,856	43,846	44,662	42,891	40,412	19,269	20,542	20,983
EU27	(100%)	(7.98%)	(8.36%)	(8.52%)	(8.18%)	(7.71%)	(3.67%)	(3.92%)	(4.00%)
EIIO	673,302	46,003	48,343	49,159	47,593	45,310	20,528	21,839	22,382
EU28	(100%)	(6.83%)	(7.17%)	(7.30%)	(7.06%)	(6.72%)	(3.04%)	(3.24%)	(3.32%)

- Definition of a start-up company: a company is characterised as a start-up company it has been in existence for less than (or) 3 years.
- However, some EU MS apply a 3-year period, other a 5- or 7-year period.
- The company was not considered as a start-up in case no data were provided.
- For each year (2017 2013), the number of companies defined as 'start-ups' was analysed and the overall data quality and availability was assessed.

Table 5: Start-ups entities in absolute terms (relative terms in bracket)

	No.	No. start-u	ıps				No. start	-ups	
Country	independ. entities	2017 (2014) <sup>1</sup>	2016 (2013)	2015 (2012)	2014 (2011)	2013 (2010)	2017– 2015	2016– 2014	2015– 2013
	12.066	525	532	408	428	400	<b>(2012)</b> 236	( <b>2011</b> )	<b>(2010)</b> 253
PL	13,066 (100%)	(4.01%)	(4.07%)	(3.12%)	(3.27%)	(3.06%)	(1.80%)	(2.03%)	(1.93%)
67	10,498	496	265	238	239	333	114	129	144
CZ	(100%)	(4.72%)	(2.52%)	(2.26%)	(2.27%)	(3.17%)	(1.08%)	(1.22%)	(1.37%)
CV	2,314	53	93	81	72	105	54	52	73
SK	(100%)	(2.29%)	(4.01%)	(3.50%)	(3.11%)	(4.53%)	(2.33%)	(2.24%)	(3.15%)
	4,190	3	8	6	8	44	4	5	8
HU	(100%)	(0.07%)	(0.19%)	(0.14%)	(0.19%)	(1.05%)	(0.09%)	(0.11%)	(0.19%)
V/A	30,068	1,077	898	733	747	882	408	452	478
V4	(100%)	(3.58%)	(2.98%)	(2.43%)	(2.48%)	(2.93%)	(1.35%)	(1.50%)	(1.58%)
E1127	523,903	9,197	8,729	18,477	18,714	20,037	3,969	4,150	4,052
EU27	(100%)		(1.66%)	(3.52%)	(3.57%)	(3.82%)	(0.75%)	(0.79%)	(0.77%)
EU28	673,302	15,682	14,669	23,580	23,406	24,278	4,389	4,514	4,369
EU28	(100%)	(2.32%)	(2.17%)	(3.50%)	(3.47%)	(3.60%)	(0.65%)	(0.67%)	(0.64%)

<sup>1)</sup> A year in bracket presents a year of company establishment for the classification of the company as a startups.

Table 6: Summary table of selected countries data availability for 3-year period if specified data fields were considered (independence, EBIT margin, loss-making and start-ups entities) in absolute terms (relative terms in bracket)

			Data Availabili	ity
Country	No. independ. entities	2017–2015	2016–2014	2015–2013
CZ	10,498	1,890	2,128	2,141
CZ	(100%)	(18.00%)	(20.27%)	(20.39%)
SK	2,314	1,007	1,000	914
3K	(100%)	(43.51%)	(43.21%)	(39.49%)
PL	13,066	2,013	2,053	2,159
PL	(100%)	(15.40%)	(15.71%)	(16.52%)
HU	4,190	151	148	139
по	(100%)	(3.60%)	(3.53%)	(3.31%)
V4	30,066	5,061	5,329	5,353
V4	(100%)	(16.83%)	(17.72%)	(17.80%)
EU27	523,903	69,547	70,776	70,781
EU27	(100%)	(13.27%)	(13.50%)	(13.51%)
EU28	673,302	74,975	77,004	78,206
EUZŏ	(100%)	(11.13%)	(11.43%)	(11.61%)

 It is clear, the cumulative application of screening criteria based on loss-making companies (deemed to be subject to other specific economic circumstances) and start-ups (deemed not yet presenting going concern profit) reduces the set before any further detailed qualitative screening is performed.

- The cumulative approach of screening criteria demonstrates the impact on the availability of comparables within a selected country.
- Once further screening is performed for a particular sector, the amount of comparables drops significantly and dataset is too small.
- Therefore, there may be a need to:
  - relax some applied screening criteria
  - consider expanding the region surveyed to access a sufficient number of comparables to perform a meaningful statistical analyses.

- Following table presents an analyses of sectors if Pan-European approach (EU27) is considered.
- Sufficient number of comparables is 720 entities:
  - if 45 basic EU-NACE codes were considered
  - additional comparability screenings is eliminating 50% of remaining set, and
  - Final set must have at least 8 comparables.
- 5-year period, independence and EBIT margin (at least at one year) is considered (Table 7).
- If comparability factors are added results in Table 8

Table 7: Data availability – sector analyses

Very low da availabilit		Low data availa	bility	Medium da availabilit		High data availa	ability	Very high o	
Maritime industry <sup>24</sup> plus distribution <sup>25</sup> and fishing <sup>26</sup>	376	Pharmaceutical industry <sup>21</sup> plus distribution <sup>22</sup>	836	Law and accounting <sup>14</sup>	1,712	Accommodation and catering <sup>5</sup>	6,000	Real Estate <sup>3</sup>	15,513
Aeronautics and Space <sup>27</sup> plus distribution <sup>28</sup>	130	R&D <sup>23</sup>	780	Chemicals industry <sup>19</sup> plus distribution <sup>20</sup>	1,610	ICT industry and services <sup>7</sup>	5,379	Construction <sup>4</sup>	11,757
				Textile manufacture <sup>10</sup> plus distribution <sup>11</sup>	1,457	Food production <sup>8</sup> plus distribution <sup>9</sup>	4,843	Crop and livestock production <sup>1</sup> plus distribution <sup>2</sup>	10,348
						Transport and logistics <sup>6</sup>	3,724		
						Banking and Insurance industry <sup>16</sup>	3,587		
						Healthcare <sup>15</sup> Automotive industry <sup>12</sup> plus distribution <sup>13</sup>	2,757 2,714		
						Electrical and electronic industry <sup>17</sup> plus distribution <sup>18</sup>	2,109		

1.	NACE 1
2.	NACE 4611, 4612
3.	NACE L
4.	NACE F
5.	NACE I
6.	NACE H
7.	NACE J
8.	NACE 10
9.	NACE 4617, 4630
10.	NACE 13, 14, 15

<sup>11.</sup> NACE 4616, 4641, 4642 20. NACE 4612, 4675 12. NACE 29, 309 21. NACE 21, 325 13. NACE 45 22. NACE 4645, 4646 14. NACE 69 23. NACE 72 15. NACE 86, 87, 88 24. NACE 301 25. NACE 4614 16. NACE 64, 65, 66 17. NACE 26, 27, 2823, 3320 26. NACE 3 18. NACE 4643, 4651, 4652, 27. NACE 303 4666 28. NACE 4614 19. NACE 19, 20, 22

- Only a few of the Comparability factors are 'testable' in the database:
  - Characteristics of property and services: the availability of a business description informing, expectedly on the services or goods traded can be assessed, further through website.
  - Functional analysis: functional intensity can be assessed for example by measuring the ratio operating expense on sales.
     The availability of the data allowing computation of the ratios can be assessed.
  - Contractual terms: this information is typically not available in the database.
  - Economic circumstances: again, this information is typically not available in the database, on a transactional basis.
  - Business strategies: likewise, this information is typically not available in the database

Table 8: Data availability - previous sector analyses plus Business overview and website

Very low da availabilit			• •			High data avail	ability	Very high data availability	
Maritime industry <sup>24</sup> plus distribution <sup>25</sup> and fishing <sup>26</sup>	376 <b>300</b> 164	Pharmaceutical industry <sup>21</sup> plus distribution <sup>22</sup>	836 <b>716</b> 542	Electrical and electronic industry <sup>17</sup> plus distribution <sup>18</sup>	2,109 <b>1,743</b> 1,482	Accommodation and catering <sup>5</sup>	6,000 <b>5,044</b> 2,317	Real Estate <sup>3</sup>	15,513 <b>12,86</b> 3 3,461
Aeronautics and Space <sup>27</sup> plus distribution <sup>28</sup>	130 <b>96</b> 74	R&D <sup>23</sup>	780 <b>641</b> 464	Law and accounting <sup>14</sup>	1,712 <b>1,214</b> 708	ICT industry and services <sup>7</sup>	5,379 <b>4,164</b> 3,006	Construction <sup>4</sup>	11,75 10,02 4,336
				Chemicals industry <sup>19</sup> plus distribution <sup>20</sup>	1,610 <b>1,314</b> 1,118	Food production <sup>8</sup> plus distribution <sup>9</sup>	4,843 <b>4,007</b> 2,606		
				Textile manufacture <sup>10</sup> plus distribution <sup>11</sup>	1,457 <b>1,251</b> 826	Transport and logistics <sup>6</sup>	3,724 <b>2,896</b> 1,688		
						Banking and Insurance industry <sup>16</sup> Crop and	3,587 <b>2,769</b> 1,424 10,348		
						livestock production <sup>1</sup> plus distribution <sup>2</sup>	<b>2,422</b> 681		
						Automotive industry <sup>12</sup> plus distribution <sup>13</sup> Healthcare <sup>15</sup>	2,714 2,221 1,522		
						nealthcare	2,757 <b>2,025</b> 1,237		

Table 9: Data availability - sector analyses plus Business overview and website - V4

Very low dat availability		Low data availability		Medium data availability		High data availability		Very high data availability	
Maritime industry <sup>24</sup> plus distribution <sup>25</sup> and fishing <sup>26</sup>	24 <b>9</b> 9	Law and accounting 14	186 <b>100</b> 74	ICT industry and services <sup>7</sup>	567 <b>336</b> 268	Construction <sup>4</sup>	788 <b>563</b> 382	Real Estate <sup>3</sup>	973 <b>770</b> 232
Aeronautics and Space <sup>27</sup> plus distribution <sup>28</sup>	7 <b>4</b> 4	Chemicals industry <sup>19</sup> plus distribution <sup>20</sup>	178 <b>112</b> 104	Crop and livestock production <sup>1</sup> plus distribution <sup>2</sup>	459 <b>258</b> 99				
R&D <sup>23</sup>	48 <b>27</b> 23	Transport and logistics <sup>6</sup>	252 <b>157</b> 116	Healthcare <sup>15</sup>	552 <b>224</b> 148				
Pharmaceutical industry <sup>21</sup> plus distribution <sup>22</sup>	65 <b>45</b> 29	Automotive industry <sup>12</sup> plus distribution <sup>13</sup>	180 <b>139</b> 103	Food production <sup>8</sup> plus distribution <sup>9</sup>	443 <b>202</b> 168				
Textile manufacture <sup>10</sup> plus distribution <sup>11</sup>	67 <b>48</b> 41	Electrical and electronic industry <sup>17</sup> plus distribution <sup>18</sup>	267 <b>192</b> 171						
Banking and Insurance industry <sup>16</sup>	131 <b>67</b> 57	Accommodation and catering <sup>5</sup>	267 <b>195</b> 105						

- The application of multiple screening criteria reduces the availability of data in V4 significantly.
- V4 face a lack of comparable data.
- Therefore, expanding the geographic area beyond the boundary of a single Member State, may allow addressing other potential good comparables.
- All V4 Member States may need to consider a pan-European search to identify sufficient comparable data to perform a meaningful statistical analysis.
- Accepting that a relevant market is referred to rather than the national market, could be a solution to perform comparables searches for V4 Member States lacking data.