



An Analysis of Accidents at Work in "Core" Tourism Industries

Asst. Prof. Dr. Gülşah Akkuş

JUSTIFICATION

ILO

 Every 15 seconds, a worker dies from a work-related accident or disease Every day, 6,300 people die as a result of occupational accidents or work-related diseases

More than 2.3 million deaths per year.

ILO

- Every 15 minutes 153
 employees suffer from
 work-related accidents.
- 317 million accidents
 occur on the job
 annually; many of these
 resulting in extended
 absences from work
- Economic burden of poor occupational safety and health practices is estimated at 4 per cent of global GDP each year.

ILO

- Occupational health is a fundamental right of every worker
- It is less costly to prevent accidents than to pay medical bills.

Leading sectors in nonfatal accidents

- 1. Manufacturing
- 2. Construction
- 3. Wholesaling

. .

7. Accommodation and food service

 There isn't much literature about safety and health in the context of tourism industry.



AIM OF THE STUDY

 Analyze work related accident numbers in selected tourism subsectors.

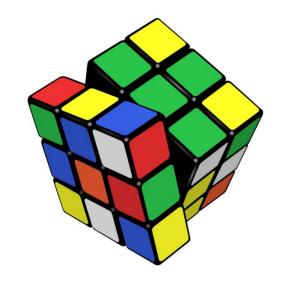
 Evaluate how tourists arrivals and employments in tourism are related with non-fatal accidents at work.



CONTENT

- Some definitions
- Methodology
- Finding
 - Tourist arrivals
 - Employment numbers
 - Accidents at work
 - & age
 - & gender
 - Changes through time
- Conclusion and Implications
- Limitation





SOME DEFINITIONS..

Occupational safety & health (OSH)

health & safety at work

- An area concerned with the safety, health and welfare of people engaged in work or employment.
- Work related accidents
 - Occupational accidents
 - Accidents at work
- Work related diseases
 - Occupational diseases
 - Work related health problems

Accidents at work

- Discrete occurence during the course of work which leads to physical or mental harm.
 - Fatal accidents
 - Non-fatal accidents

Non-fatal Accidents at work

Occupational accidents
 that result in at least four
 calendar days of absence
 from work – serious
 accidents

Fatal Accidents at work

• ... that lead to the death of the victim within one year.

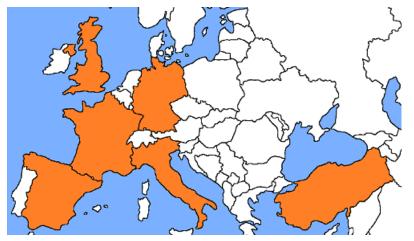
Incidence Rate

An alternative way to analyze the information on accidents at work

I.R. = (accidents / employed persons)*100.000

METHODOLOGY

- Europe, as a major tourism destination
- 6 top tourism
 destinations in Europe
 are chosen for this
 study.
- France, Spain, Italy, Turkey, Germany, U.K.



Among NACE Rev.2 codes, there are 8 subsectors related to tourism:

- H51 Air transport
- I55 Accommodation
- I56 F & B
- N77 Rental and leasing
- N79 Travel agency, tour op.
- R91 Libraries, archieves, museums..
- R92 Gambling and..

- Air transport (H51), accommodation (I55) and travel agencies (N79) are chosen for this study.
- «Core tourism industries» which directly serve in tourism.



secondary data sources

- SBS (Structural Business Statistics)
- LFS (Labour Force
 Survey) databases of
 Eurostat and of Turkstat
- SGK (Social Security Council of Turkey)
- in 2013.





FINDINGS..

TOURIST ARRIVALS

International Tourist Ar	International Tourist Arrivals									
		Million								
Rank	Series ¹	2013								
1 France	TF	83.6								
3 Spain	TF	60.7								
5 Italy	TF	47.7								
6 Turkey	TF	37.8								
7 Germany	TCE	31.5								
8 United Kingdom	TF	31.1								

Source: World Tourism Organization (UNWTO) ©

24 - 29 May 2016, Bodrum, Turkey



EMPLOYMENT

	Air transport (1)	Accommodation (2)	Travel agency (3)	Core tourism industry (1+2+3)
Germany	57.309	<mark>499.935</mark>	97.611	<mark>662.078</mark>
U.K.	<mark>70.829</mark>	410.985	93.292	580.731
Spain	28.248	241.857	50.276	325.378
Italy	21.995	256.365	45.692	325.172
France	66.054	193.283	41.172	302.761
Turkey	10.068	196.514	46.268	252.850
Total	254.503	1.798.939	374.311	2.448.970

Source: Eurostat, SBS, 2013 (sbs_sc_1b_se_r2); Eurostat Statistics Explained, Tourism industries – employment, 2015; SGK, 2013.

ACCIDENTS AT WORK



		Germany	Spain	France	Italy	U.K.	Turkey
Air transport	Non-fatal	3.793	904	3.269	211	1.492	410
	Incidence rate	5.044	2.857	4.947	708	2.814	993
	Fatal	-	-	3	-	-	2
Accommodation	Non-fatal	4.783	8.902	9.269	3.795	3.544	4.560
	Incidence rate	1.060	3.676	3.400	1.608	1.045	1.707
	Fatal	-	-	4	5	-	9
Travel agency	Non-fatal	238	210	317	260	8	124
	Incidence rate	214	<mark>509</mark>	473	443	7	342
	Fatal	-	-	-	-	-	5
Core tourism	non-fatals	8.814	10.016	12.855	4.266	5.044	5.094
industry	Incidence rate	1.900	2.580	3.041	1.469	831	1.478
	Fatal	_	_	7	5	9	16

Source: Eurostat, Fatal accidents at work by economic activity (hsw_n2_01), non-fatal accidents at work by economic activity (hsw_n2_02); TUIK, İş kazaları ve işe bağlı sağlık problemleri araştırma sonuçları 2013 (adapted by the author)

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SERIOUS ACCIDENTS & AGE

		Germany		Spain		France		Italy		U.K.	
		Emp	% IR	Emp	% IR	Emp	% IR	Emp	% IR	Emp	% IR
Air transport	<i>15-24</i>	5	6.489	3	4.501	1	?	4	2.303	6	2.422
	25-34	25	4.191	26	2.096	14	7.710	16	1.025	21	2.809
,	35-44	30	4.375	37	3.257	39	5.237	36	791	39	1.717
,	45-54	29	6.043	26	2.881	33	4.750	37	390	23	3.381
	55-64	11	5.361	8	3.018	13	1.696	7	411	11	7.503
Accommodation	<i>15-24</i>	18	1.881	6	4.333	13	4.219	8	2.794	24	688
,	25-34	23	992	23	3.306	25	2.773	21	1.535	27	801
	35- <u>44</u>	19	772	31	3.746	22	3.813	29	1.387	17	1.436
,	45-54	21	773	27	3.531	25	3.029	25	1.573	<mark>16</mark>	1.861
	55-64	19	633	13	4.416	15	4.023	17	1.489	16	1.367
Travel agency	<i>15-24</i>	10	?	5	408	7	281	3	1.795	12	?
	25-3 4	24	182	28	732	30	671	33	301	28	5
	35-44	23	221	34	409	30	482	30	455	26	7
	45-54	23	363	21	435	17	441	19	659	19	18
	55-64	20	275	12	883	16	421	15	238	15	?

Source: Eurostat, Employed persons by age groups (tour_lfs2r2); Non-fatal accidents at work by economic activity & age (hsw_n2_03)

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SERIOUS ACCIDENTS & GENDER

		Germany	Spain	France	Italy	U.K.	Turkey
Air transport	Male %	51.4	64.2	66.7	60.1	63.2	74.5
	IR	10.639	3.498	4.416	1,329	2.677	490
	Female %	48.6	35.8	33.3	39.9	39.8	25.5
	IR	2.349	2.664	6.017	400	1.123	2.695
Accommodation	Male %	34.1	40.9	38.2	48	42.7	70
	IR	1.307	3.931	5.318	1.566	1.084	1.811
	Female %	65.9	59.1	61.8	52	57.3	30
	IR	774	3.507	4.004	1.401	697	1.650
Travel agency	Male %	36.4	29.4	28.5	30.6	41.7	66.1
	IR	318	676	621	1.148	10	1.649
	Female %	63.6	70.6	71.5	69.4	58.3	33.9
	IR	201	310	527	313	7	293

Source: Eurostat, Employment by sex, age and detailed economic activity (lfsa_egan22d), Non-fatal accidents at work by economic activity & sex (hsw_n2_01). IRs are calculated by the author.

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CHANGES THROUGH TIME



Rates of change

non-fatal numbers for 2013 non-fatal numbers for 2008

		Germany	Spain	France	Italy	U.K.
Air transport	2008->2013	1.30	.37	.98	2.77	1.75
Accommodation	2008->2013	.41	.58	.98	.66	.99
Travel agency	2008->2013	.95	.53	.85	.54	.05

Source: Eurostat, Non-fatal accidents at work by economic activity & sex (hsw_n2_01). Changes from 2008 to 2013 are calculated by the author.

Non-fatal numbers by year

		Germany	Spain	France	Italy	U.K.
Air transport	2008	2900	2427	3317	76	852
	2013	3793	904	3269	211	1492
Accommodation	2008	11560	15158	8833	5685	3552
	2013	4783	8902	8709	3795	3544
Travel agency	2008	248	391	266	481	150
	2013	238	210	228	260	8

Source: Eurostat, Non-fatal accidents at work by economic activity & sex (hsw_n2_01).

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Rates of change

non-fatal numbers for tourism sub-sectors in 2008 2013 non-fatal numbers for all NACE sectors in 2008 2013

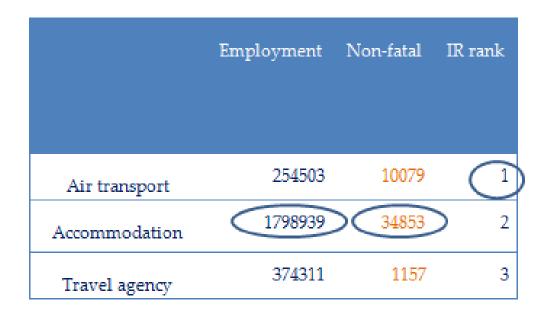
		Germany	Spain	France	Italy	U.K.
Air transport	2008	.30	.35	.52	.01	.33
	2013		.24		.06	.61
Accommodation	2008	1.22	2.2	1.4	1.1	1.4
	2013	.56	2.4	1.5	1.2	1.5
Travel agency	2008	.03	.06	.04	.10	.06
	2013	.03	.06	.04	.08	.003
Core tourism	2008	1.56	2.6	1.9	1.2	1.8
industry	2013	1.03	2.7	2.2	1.3	2.1

Source: Eurostat, Non-fatal accidents at work by economic activity & sex (hsw_n2_01). Percentages are calculated by the author. Formula = (non-fatal numbers in subsector / non-fatal numbers in all NACE sectors for each country and for each year) * 100.

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	ø		Core industry		Air transport		ıoda-	Travel agency	
	Arrivals	Employment	Non-fatal	Employment	Non-fatal	Employment	Non-fatal	Employment	Non-fatal
Germany	5	1	3	3	1	1	5	1	5
Spain	<u>2</u>	3	2	4	3	4	1	3	1
France	1	5	1	2	2	6	2	6	2
Italy	3	4	5	5	6	3	4	5	3
U.K.	6	2	6	1	4	2	6	2	6
Turkey	4	6	4	6	5	5	3	4	4





LIMITATIONS

- 6 leading destinations in tourism
 - top ten tourist destinations in the world
- Core tourism industries
 - food and beverage industry
- Accidents at work
 - work-related diseases
 - relationships between lower and upper educated, temporary and permanent workers..
- Available data
 - micro data from Eurostat and Turkstat
 - LFS or other estimations

«Lies,

damned lies,

and statistics»

Researchers should avoid incorrect nature of the statistics..

