



Development of Occupational Safety and Health

Co-Research Program on Occupational Safety and Health, 27th April - 15th May 2015, KOSHA

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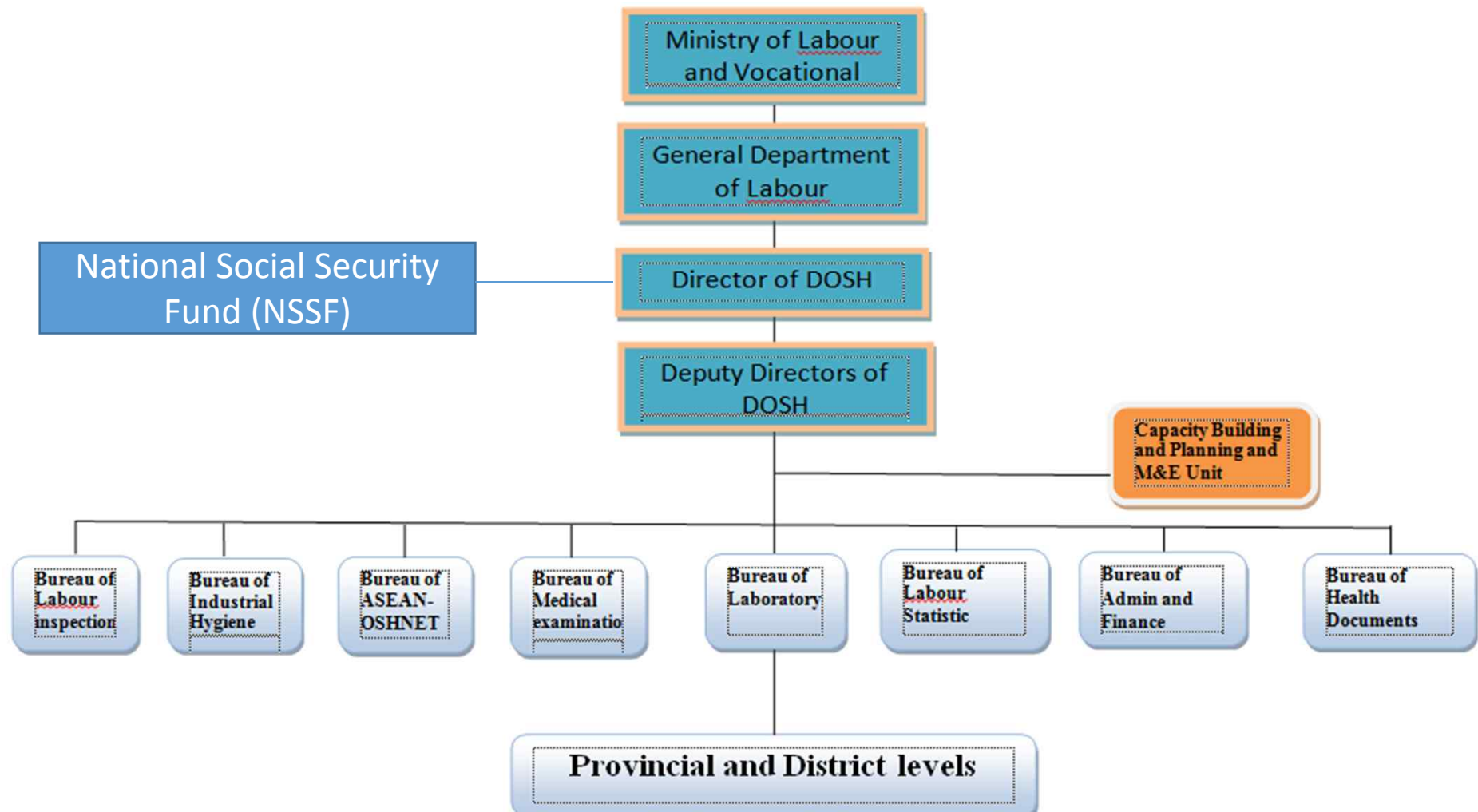
Introductions

- Country's size: 181,035 Km² and borders, Thailand on the West Side , Lao and Vietnam on the East side
- Population Size: 13,4 M , Pop density: 75,
- Rural:80.5%, Urban: 19.5%, Religion: 96.4% Buddhist
- Annual Growth rate (Birth rate): 1.54%,
- Life Expectancy at birth: 60.5(male) and 64.3 (female) (Census 2008)

Introductions (NSDP 2009-2013)

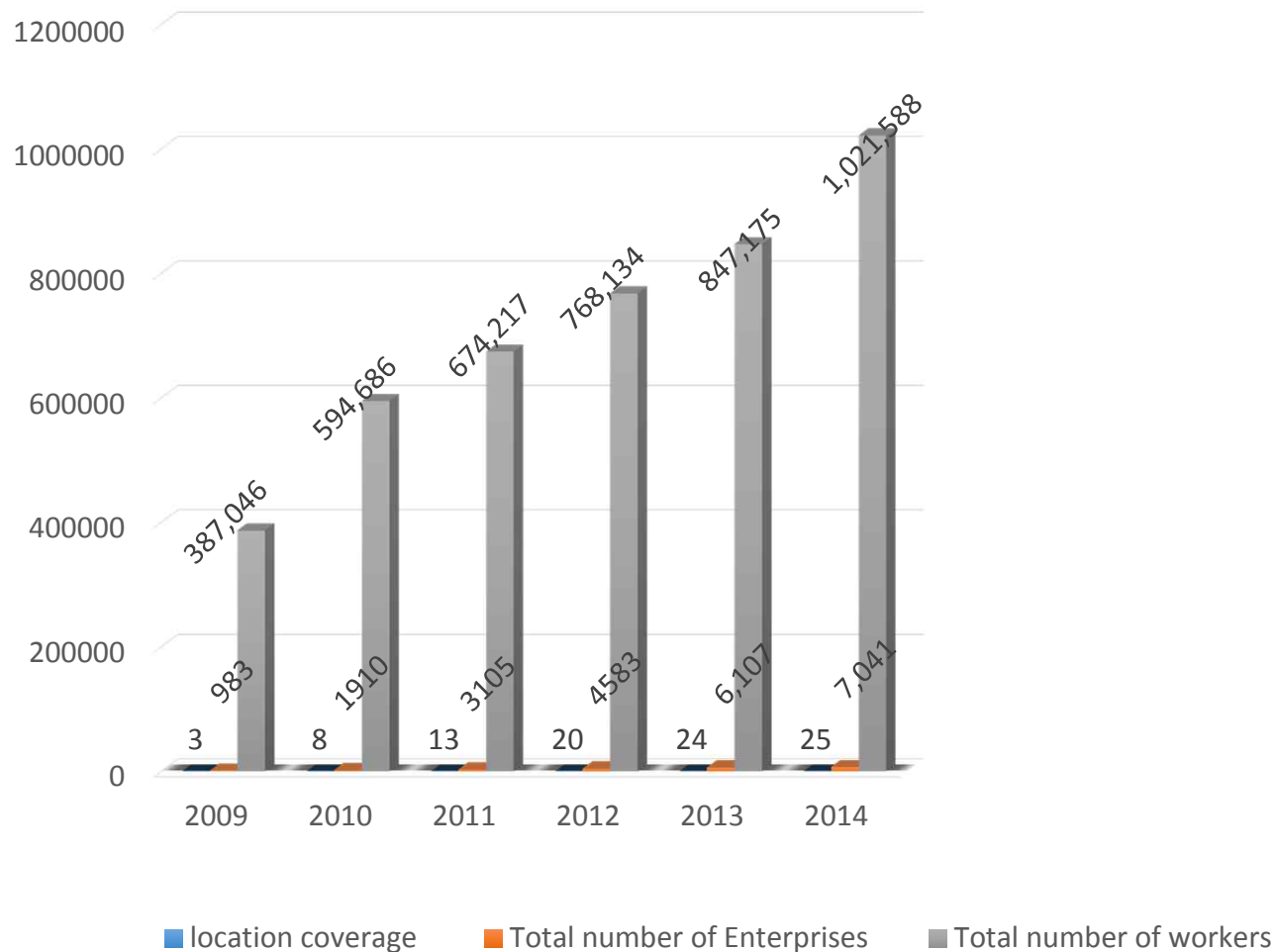
- Key Industry: Agriculture, Garment Factories, Tourism, and Construction
- Annual GDP: 8,704 M USD
- GDP per Capita: 981US\$
- Labour force : Age 15 and older: 6.8M
- More than 80% of industrial sectors contributed to economical growths

Organizational Structure

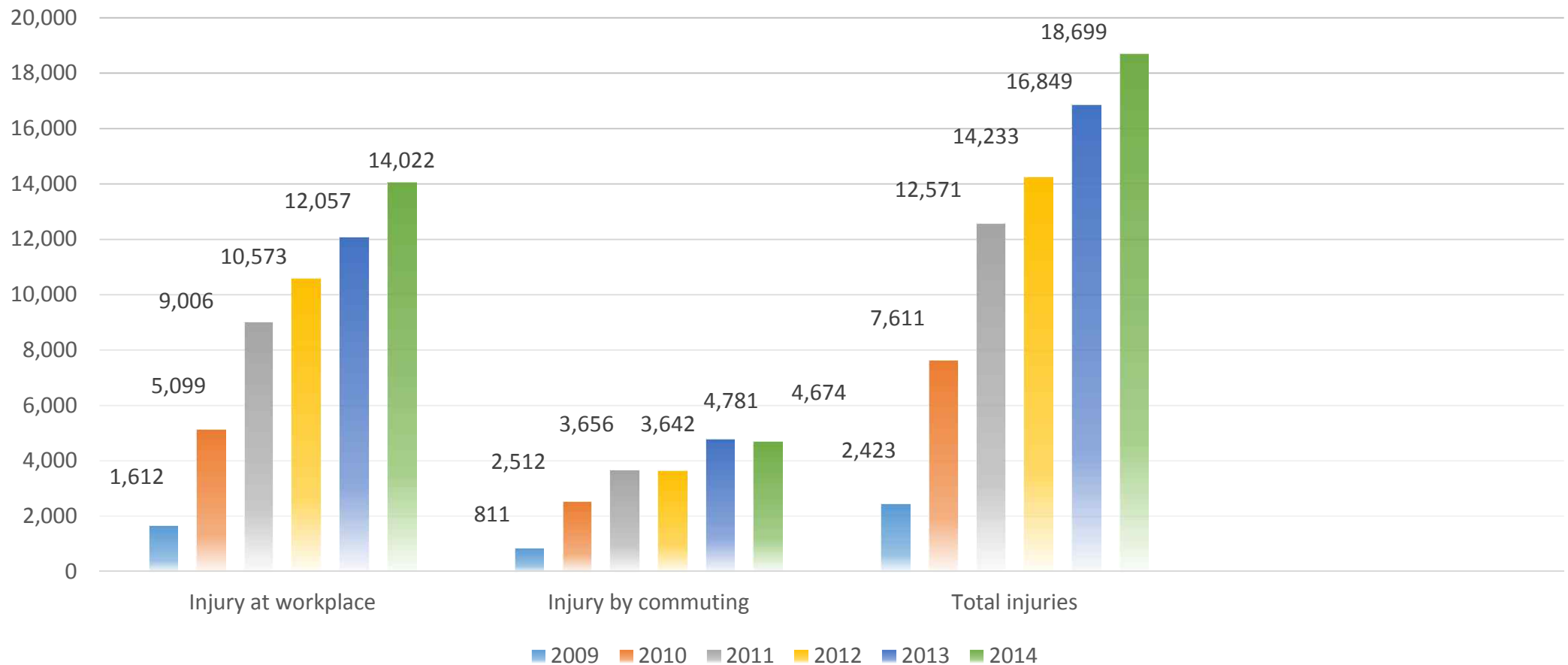


Current status of OSH

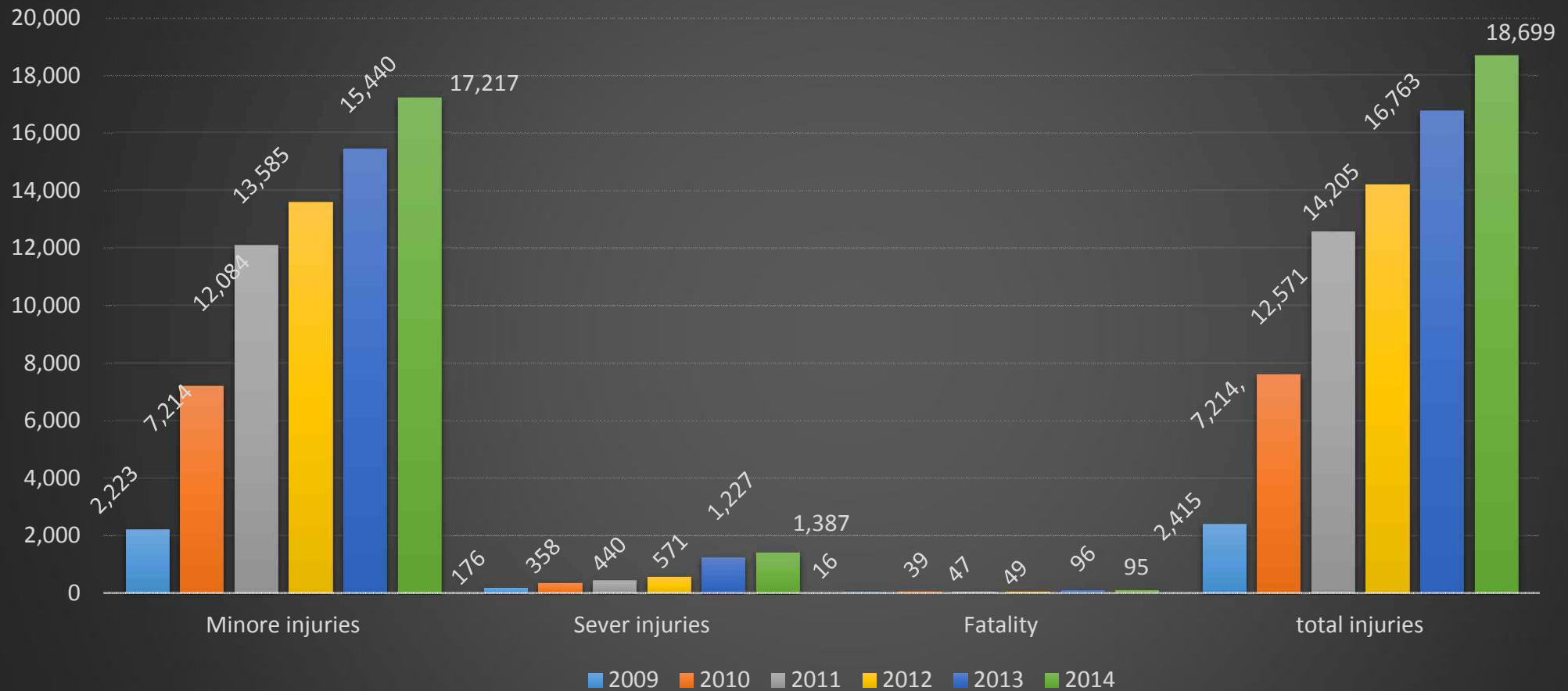
Workforces and Employments



Work related to accidents from 2009-2014



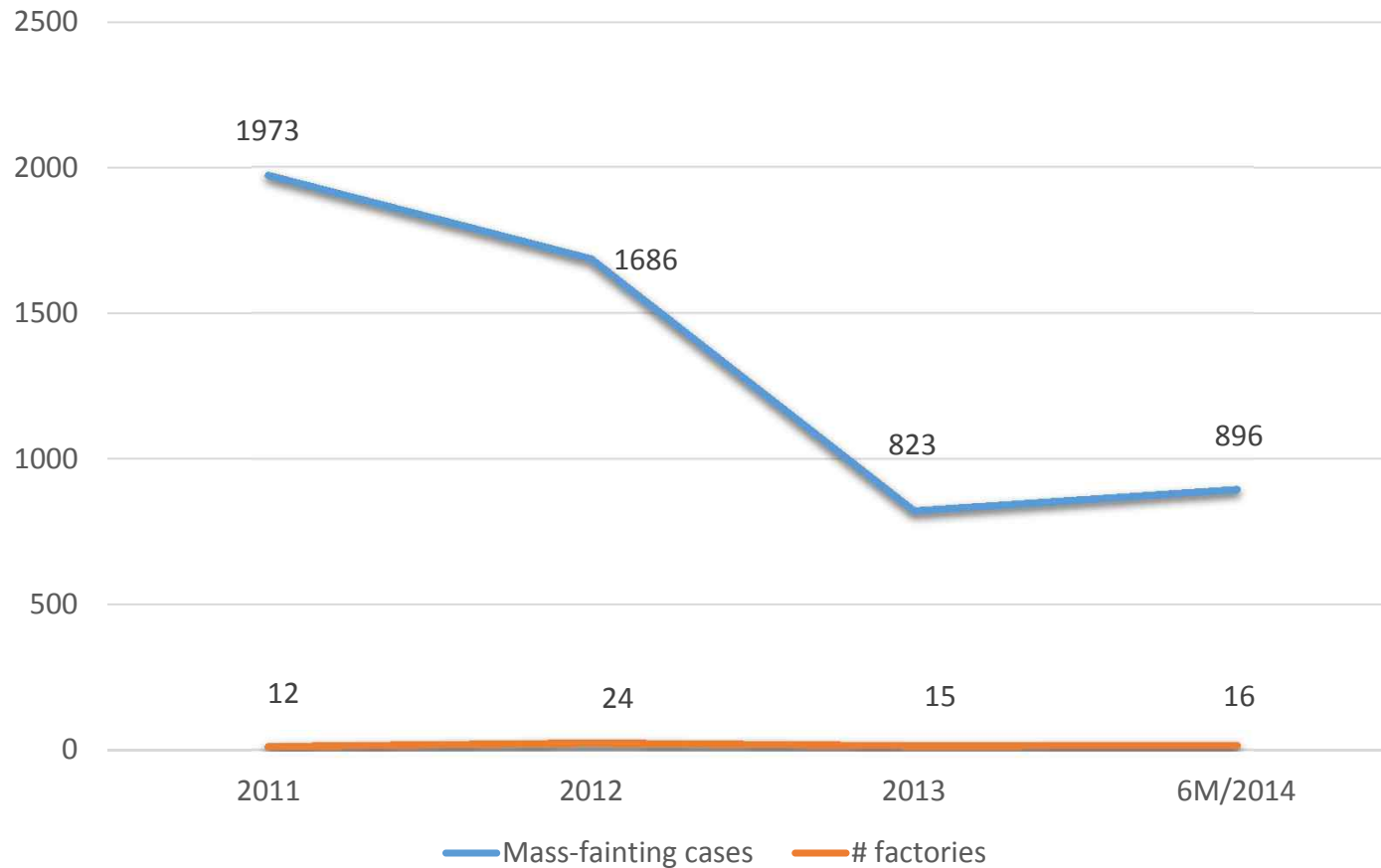
Categorization of Occupational accidents



Occupational accidents divided by productions

Productions	Number of Injury					Total
	2009	2010	2011	2012	2013	
Garment	2,785	5,456	8,741	9,671	9,743	36,396
Shoes	218	596	1,202	1,325	2,251	5,592
Weaving	12	460	568	285	432	1,775
Hotel	101	209	460	518	581	1,869
Total	3,553	7,611	12,571	14,233	16775	45,614

Workers who suffered from Mass-fainting



Distribution of Occupational Accidents and compensation (NSSF)

By Year	Total # of worker accidents /Female	Category of accidents				Economic lost (Riel)
		# Temporary Disability	Permanent disability more than 20%	Permanent disability less than 20%	Fatality	
2009	3,553/2,878	3,527	2	8	16	1,150,114,400
2010	7,611/5,878	7,544	6	22	39	2,423,602,911
2011	12,571/9734	12,481	15	28	47	4,104,781,700
2012	11,902/10,709	11,786	29	28	59	5,057,795,500
2013	16,775/12,300	16,566	51	60	98	6,926,229,300
2014	18,699	17,217			95	7,557,069,600

Asbestos Profile Development

- Two workshops were done, among collaboration between MoLVT & MoH supported by WHO/KOSHA, to bulid capacity of local staff



Figure 14 Opening of the 2nd workshop



Figure 15 Group Photo of all participants of the 2nd Workshop



Asbestos capacity building-collecting samples

- Provided TA on the job sites (Factory and Hospitals)
- Collect sample (ACMs) and sending them to analysis at KOSHA
- Build capacity by sending local staff to KOSHA on asbestos sample analysis (staffs who worked for MoLVT, MoH, MoE)
- Provided by KOSHA the Personal samplers for air monitoring sampling



Imported amount of asbestos-containing materials

	2005	2006	2007	2008	2009	2010	2011	2012	Total (ton)
ugate roof ts	7,313	10,840	14,550	16,534	13,871	19,674	24,465	19,630	126,87
Isolation rials	276	80	69	17	51	38	66	87	684
um boards	1,702	2,042	2,186	13,139	20,070	7,472	24,551	36,739	107,90
on materials	2,155	1,950	2,200	650	0.005	3	0.004	0.1	6,958
stos textile	0	0.5	0.7	6	10	11	2	5	35.2
r ACMs	3	18	0.2	44	0	0	0	0	65.2
Total (ton)	14,257	16,692	23,600	35,449	39,791	37,992	54,613	63,124	285,517

Source: Ministry of Commerce, CAMCONTROL

Asbestos at workplaces

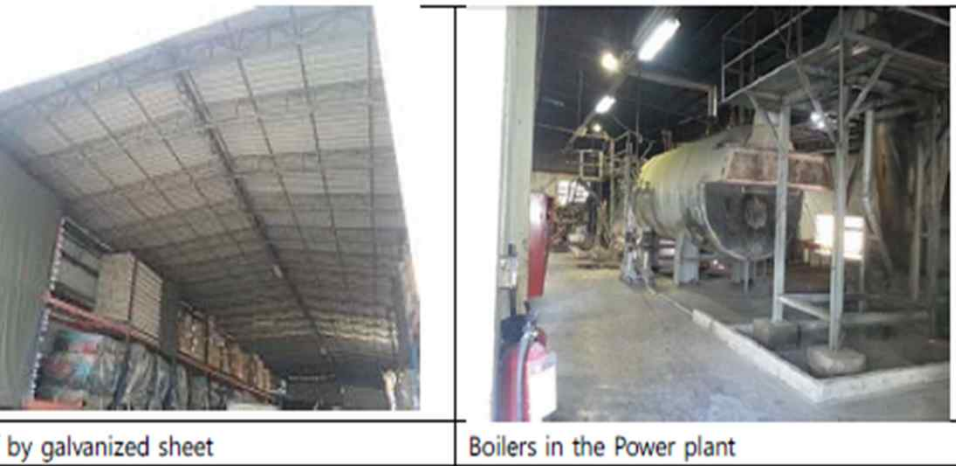


Figure 8 Cement suspected to contain asbestos



Asbestos at workplaces



Sampling from corrugated roof plates

Figure 9 Corrugated roof plates



Figure 10 Brake linings

Asbestos at workplaces



Front view of automobile shop, LA YOU



Detaching an used brake pad from a lining



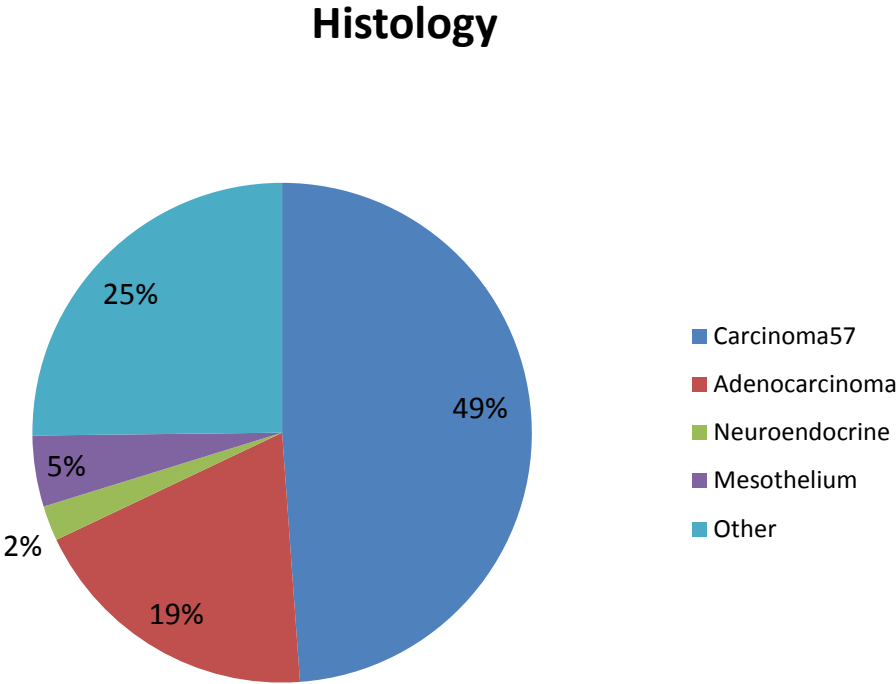
Drilling on a new brake pad



Assembling new brake pads and linings

Figure 18 Automobile workshop

Lung and Pleural Neoplasia by Histology



Carcinoma57	64
Adenocarcinoma	25
Neuroendocrine	3
Mesothelium	6
Other	33

Mesothelium:

- 55 F, Phnom Penh, housewife, No alcool, no Tobacco, stage IV, presence almost all symptoms except hemoptysia. WHO= 3, Palliative care.
- 80 M, Kampong Cham, Tobacco, Alcool, Stage IV.
- 60 F, Kampong Thom, No Tobacco, No Alcool.
- 71 M, Battambang, Tobacco, No Alcool.
- 63 M, Phnom Penh, Tobacco, Alcool.
- 53 M, Kandal, No Tobacco, No alcool.

Source: Registre des cancers du service d'Oncologie Marie Curie de l'Hôpital Amitié Khmère-Soviétique; Dr. Kuoy Samnang, 2013

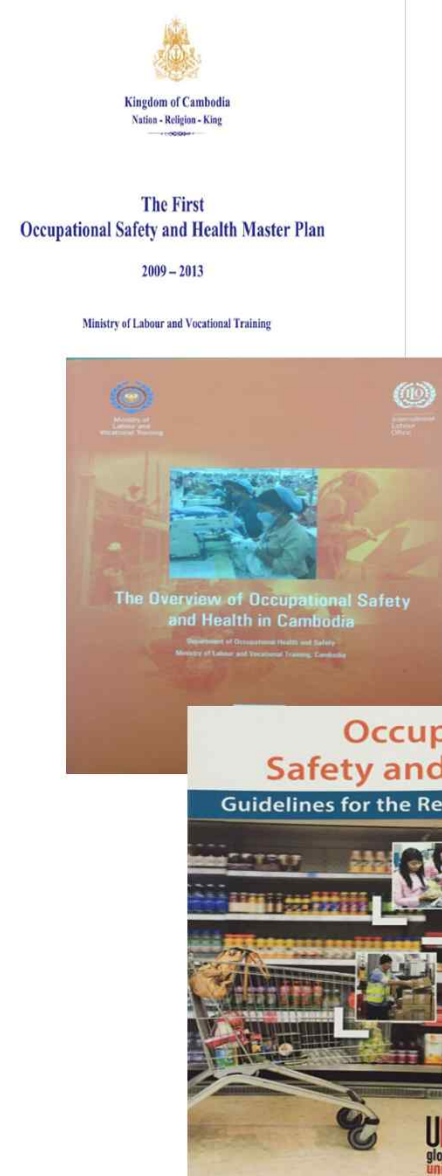
List of Occupational diseases

List of occupational diseases have been proposed to:

- Lead poisoning
- Benzene poisoning
- Noise induced hearing lost
- Skin diseases
- Lung diseases
- Work-related to Musculoskeletal disorders (WMSDs)
- Asbestosis

OSH laws and regulations

- 1997 Labour Law with Chapter VIII concerning on OSH of workers
- MoLVT established 27 Ministerial regulations and law on Social Security Scheme concerning work-related accidents & compensation
- Cambodia ratified eleven ILO conventions
- National OSH Profile 2009-2013
- Developed first OSH Master plan 2009-2013 (National OSH program)
- Regulation for HIV Committee at workplace



No.	# code.	Effective Date	Descriptions
01	052	10/02/2000	Sanitary toilet
02	053		Seating arrangement at workplace
03	054		Provision of a safe drink
04	330	06/12/2000	Creation of Enterprise Infirmary
05	124	15/06/2001	Heavy object lifting by hand
06	125	15/06/2001	The air ventilation and sanitation
07	139	28/06/2001	Conditions and missions of the enterprise physicians
08	147	11/06/2002	Temperature ambience at the workplace
09	138	22/04/2003	Noise at workplace
10	139		Work at the confine space
11	484	23/12/2003	Light and lighting
12	106	28/04/2004	the prohibition of working children from the dangerous workplace
13	086	03/05/2006	the creation of the HIV/AIDS Committee in Enterprise and Establishment and managing HIV/AIDS in the workplace
14	305	14/12/2007	Maritime fishing
15	306		Working and living conditions in Plantation
16	308		Working and living conditions in Salt Field
17	309		Working and living conditions in Brick enterprise
18	307		OSH conditions in Garment and Shoes factories
19	075	30/03/2011	Sanitation at the construction site
20	076		Prevention of risk associated with the changing weather conditions at the construction site
21	077		Information at the construction site
22	078		The storage, Waste management and cleanliness at the construction site
23	343	10/09/2002	Notice on work-related accidents, compensation and invalidity
24	003	10/02/2004	Remind all enterprises and establishments to comply well with the provisions of all Prakas related to OSH
25	089	04/09/2009	Preventive measures on new avian influenza A (H1N1)
	330/139	28/06/2001	Application of joint Prakas

Challenges

- Not established OSH Act
- Provided only pre-worker Health Examination
- Human resources limited and incapable
- Do not have occupational Health physician
- No Educational center for OSH
- Not established OSH research programme
- Report management system


Recommendation and Future Plan

- Reinforcing OSH legal framework
- Strengthening labour inspection
- Improving reporting systems of occupational accidents and diseases
- Improving National OSH information and training systems
- Trained general Doctors as Occupational Health physicians
- Find support from political commitment
- Strong collaboration and support from partners for development and stakeholder for OSH improvement

Recommendations and Future Plan

- Strengthening implementation as following:
 - The 2nd OSH Master Plan 2014-2018
 - The 2nd National OSH profile and National Asbestos Profile (NAP)
 - List of Occupational diseases
 - Manual book of capacity building training in SMEs
 - National OSH tripartite committee,
 - Safe use of chemical guideline at workplaces
 - OSH policy at workplace
 - OSH committee guideline at workplace

Recommendations and Future Plan



Why do we
need
research
program for
OSH?



Thank you !