INTERNATIONAL LEADERSHIP SEMINAR TOWARDS ACHIEVING SDG 14

25 - 26 April 2017, Hong Kong

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INTERNATIONAL LEADERSHIP SEMINAR TOWARDS ACHIEVING SDG 14, 25 - 26 April 2017, Hong Kong

Background

The operating environment

The consequences of the pressures and intense competition

The effect on the fish stocks, communities and the environment

An example of good fishing practice

What can be done?

INTERNATIONAL LEADERSHIP SEMINAR TOWARDS ACHIEVING SDG 14, 25 - 26 April 2017, Hong Kong

Background

Dangerous profession

High waves, gale-force winds, pelting rain, and thunderstorms

Working around the clock - extreme fatigue

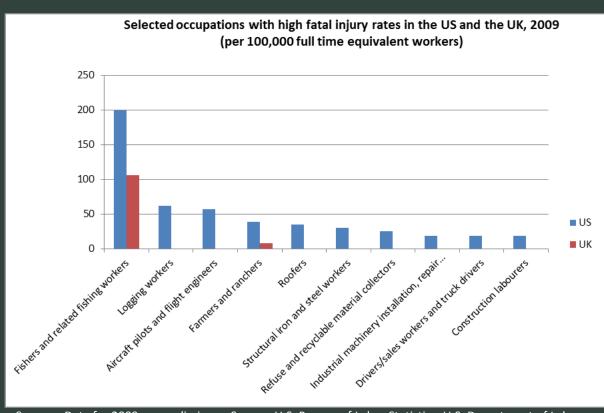
Dangerous gear, hauling hundreds of kilos of catch under treacherous conditions

Icy decks, extremely cold waters, lack of safety gear and lack of training

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Background

Dangerous profession



Sources: Data for 2009 are preliminary. Source: U.S. Bureau of Labor Statistics, U.S. Department of Labor, 2010.

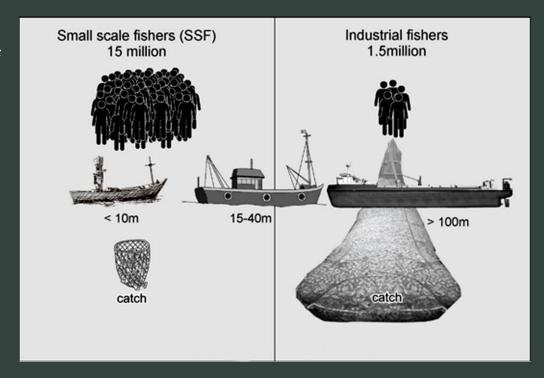
http://economix.blogs.nytimes.com/2010/08/20/the-most-dangerous-jobs-in-america/?_r=0 and Barrie, J. http://munchies.vice.com/articles/fishing-is-one-of-the-most-deadly-jobs-in-the-uk

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Background

Dangerous profession

The types of fishers and sizes of fishing boats



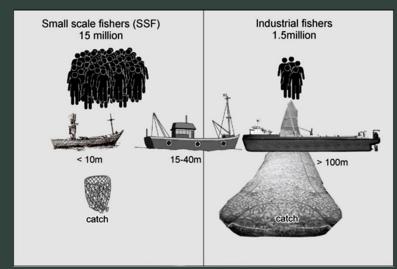
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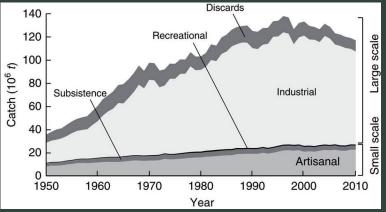
Background

Dangerous profession

The types of fishers and sizes of fishing boats

Global catch statistics





Reconstructed catches for all countries in the world, plus High Seas, by large-scale (industrial) and small-scale sectors (artisanal, subsistence, recreational), with discards (overwhelmingly from industrial fisheries) presented separately. http://www.nature.com/articles/ncomms10244

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Background

Dangerous profession
The types of fishers and sizes of fishing boats
Global catch statistics

Price of fish



Cost: \$3,603 per pound (bought at \$1.76 million in 2013) Tokyo, Japan

The king of the sushi game, Kiyoshi Kimura, currently holds the record for the most amount of money spent on a bluefin tuna—buying it at a hefty \$1.76 million dollars in 2013. The fish can be eaten at specialty restaurants scattered throughout Japan. http://firstwefeast.com/eat/2015/06/most-expensive-seafood-dishes



Cost: £108 (\$169.86) Kai Mayfair



Cost: £16,000 (\$25,162.88) The Caviar House & Prunier



Cost: £2000 (\$3,200) Bombay Brasserie



Cost: \$100 per oyster *Coffin Bay, Australia*



Cost: \$2,000/pound Across the U.S.

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The operating environment

Belgium

EU

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The operating environment

Total allowable catch (TAC) and quotas

(Average from 2001)	ie of fac vs ices advice by -2015)	Member State
Member States	Excess TAC (tonnes)	Excess TAC (%)
Denmark	89,943	17%
United Kingdom	77,077	20%
Spain	53,367	37%
The Netherlands	43,401	26%
Ireland	38,297	24%
France	33,775	18%
Sweden	32,538	18%
Germany	30,626	22%
Poland	20,116	14%
Portugal	15,892	37%
Finland	11,473	10%
Latvia	9,655	14%
Estonia	8,209	12%
Lithuania	3,100	14%

Total Allowable Catches (TAC) are often set higher than scientific recommendations of ICES (International Council for the Exploration of the Sea) http://iuuriskintelligence.com/who-is-to-blame-for-excess-fisheries-quotas-in-eu-member-states/

2.849

471,490

16%

20%

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The operating environment

Total allowable catch (TAC) and quotas

Nations' inability to protect own waters



Somali fishers. http://piracyreport.com/index.php/topic/10

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The operating environment

Total allowable catch (TAC) and quotas

Nations' inability to protect own waters

Piracy



Somali pirates return, seized Iranian fishing vessel AFRICA. Thursday 26 March 2015 http://www.enca.com/africa/somali-pirates-return-seized-iranian-fishing-vessel

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The operating environment

Total allowable catch (TAC) and quotas

Nations' inability to protect own waters

Piracy

Geopolitics



Territorial claims in the South China Sea https://en.wikipedia.org/wiki/Territorial_disputes_in_the_South_China_Sea

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The consequences of the pressures and intense competition

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The consequences of the pressures and intense competition

Overfishing/bycatch



Examples of overfishing exist in areas such as the North Sea, the Grand Banks of Newfoundland and the East China Sea. In these locations, overfishing has not only proved disastrous to fish stocks but also to the fishing communities relying on the harvest. http://www.wikiwand.com/en/Overfishing

Inset: Bycatch. http://www.sapphirecoastdiscovery.com.au/2012/07/professor-steve-kennelly-at-scmdc-to-talk-about-bycatch-reduction/

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The consequences of the pressures and intense competition

Overfishing/bycatch

Illegal, unreported and unregulated (IUU) fishing



Activists climb on board the illegal cargo ship "Binar 4" full of fish stolen from Guinean waters, as it awaits entry to the port of Las Palmas. April 2006 http://www.greenpeace.org/international/en/news/features/pirate-ship-boarded-130406/

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The consequences of the pressures and intense competition

Overfishing/bycatch

Illegal, unreported and unregulated (IUU) fishing

Circumventing quota restrictions



http://www.itfseafarers.org/files/seealsodocs/9186/F OC%20flags.pdf

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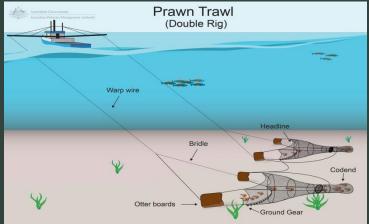
The consequences of the pressures and intense competition

Overfishing/bycatch

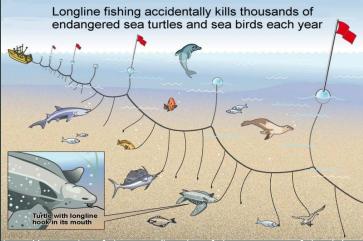
Illegal, unreported and unregulated (IUU) fishing

Circumventing quota restrictions

Destructive fishing gear



http://www.afma.gov.au/portfolio-item/trawling/



http://www.ghostfishing.org/longline-fishing-curtain-of-death/

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The consequences of the pressures and intense competition

Overfishing/bycatch

Illegal, unreported and unregulated (IUU) fishing

Circumventing quota restrictions

Destructive fishing gear

Destructive fishing methods



http://flintmag.com/komodo-big-boom/



Poison fishing using Mongonbo (Millettia sanagana, Fabaceae). A: A Bakwele woman waving a mekala basket – B: Preparation of mongonbo – C: Mixing mongonbo with mud – D: Harvesting fish with mekala. https://ethnoecologie.revues.org/2893

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The consequences of the pressures and intense competition

Overfishing/bycatch

Illegal, unreported and unregulated (IUU) fishing

Circumventing quota restrictions

Destructive fishing gear

Destructive fishing methods

Ghost fishing



https://www.worldanimalprotection.org/our-work/animals-wild/sea-change

It is estimated that abandoned, lost or discarded fishing gear in the oceans makes up around 10 percent (640 000 tonnes) of all marine litter.

The bottom edge of a bottom set gill net is anchored to the sea floor and floats are attached to their top, so that they form a vertical undersea wall of netting that can run anywhere from 600 to 10 000 meters in length. If a gillnet is abandoned or lost, it can continue to fish on its own for months - and sometimes years - indiscriminately killing fish and other animals.

Traps and pots are another major ghost fisher. In the Chesapeake Bay of the United States, an estimated 150 000 crab traps are lost each year out of an estimated 500 000 total deployed. On just the single Caribbean island of Guadeloupe, about 20 000 of all traps set each year are lost each hurricane season - a loss rate of 50 percent. Like gill nets, these traps can continue to fish on their own for long periods of time.

http://www.fao.org/news/story/en/item/19353/icode/

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The consequences of the pressures and intense competition

Overfishing/bycatch

Illegal, unreported and unregulated (IUU) fishing

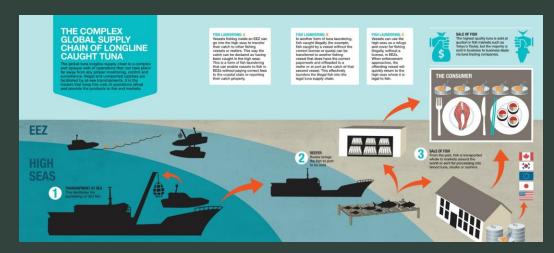
Circumventing quota restrictions

Destructive fishing gear

Destructive fishing methods

Ghost fishing

Fish Laundering



http://www.greenpeace.org/international/Global/international/artwork/oceans/2013/GPI -TradeInfographic-DEF-standalone150dpi.jpg

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The consequences of the pressures and intense competition

Overfishing/bycatch

Illegal, unreported and unregulated (IUU) fishing

Circumventing quota restrictions

Destructive fishing gear

Destructive fishing methods

Ghost fishing

Fish Laundering

Discard of over catch/ bycatch



http://theblackfish.org/opinion/discard-ban-no-cure/

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The consequences of the pressures and intense competition

Overfishing/bycatch

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Circumventing quota restrictions

Destructive fishing gear

Destructive fishing methods

Ghost fishing

Fish Laundering

Discard of over catch/ bycatch

Fish farming and fish feed



http://impactalpha.com/what-to-feed-the-fish/

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Circumventing quota restrictions

Destructive fishing gear

Destructive fishing methods

Ghost fishing

Fish Laundering

Discard of over catch/ bycatch

Fish farming and fish feed

Cost cutting



https://www.thenation.com/article/did-slave-labor-produce-your-seafood/

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Marginalisation of Small scale fishers – loss of employment and livelihood



Loss of employment and income for island and coastal communities



Depletion of fish stocks



Pollution, diseases

The effect on the fish stocks, communities and the environment

Arrests and detention of fishers

Destruction of habitats and the marine environment

Piracy

Trafficking of humans, enslavement, abuse and murder



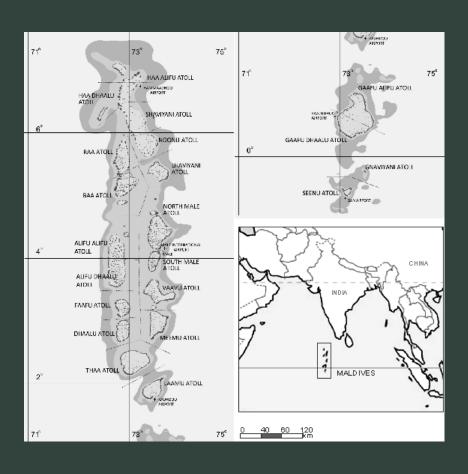






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An example of good fishing practice – The Maldives



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An example of good fishing practice – The Maldives

Pole and line fishery



http://www.wwf.org.au/about-us/partners/john-west#gs.mQ8Y3TI

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An example of good fishing practice – The Maldives

Pole and line fishery

No contract (walk-in-walk-out) community fishers



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Pole and line fishery

No contract (walk-in-walk-out)

community fishers

Regular payment in kind or cash



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No contract (walk-in-walk-out)

community fishers

Regular payment in kind or cash

Return home for the night



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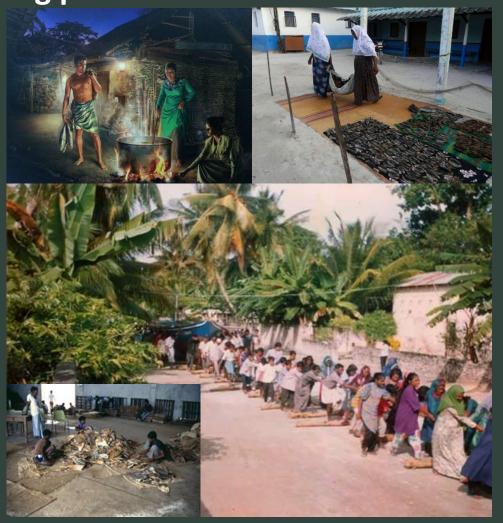
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No contract (walk-in-walk-out)

Regular payment in kind or cash Return home for the night

Community involvement (including women/young) in the industry



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An example of good fishing practice – The Maldives

Pole and line fishery

No contract (walk-in-walk-out) community fishers

Regular payment in kind or cash
Return home for the night

Community involvement (including women/young) in the industry

Fish collecting vessels and processing plants geographically distributed



Fish processing plant at Felivaru

Fish processing plant at Kooddoo



Fish collecting vessel at Addu

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Fish collecting vessels and processing plants geographically distributed

EEZ fishery done by local companies



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Fish collecting vessels and processing plants geographically distributed

No seiners or trawlers – nets are banned





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Regular updating of operations and catch data

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					In	metricto	ns (MT)							
-	Aonth	_									_	24		
	للتو	زفلتي	2.5	2,22	-3	27	352	22.52	~#3 <u>#</u> 32	, eg22	£\$\$\$\$	ومتفعر		
Region	January	February	March	April	May	June	July	August	September	October	November	December	Total catch	32
REPUBLIC	9,794.29	9,317.84	9,882.52	7,608.71	6,794.16	11,291.29	11,256.09	11,598.33	9,418.77	15,013.28	15,890.06	11,977.81	129,843.15	11
EEZ	27.06	24.37	31.64	82.23	102.01	64.41	31.73	130.86	150.33	233.31	341.80	380.67	1,600.42	t,
Malé North Thiladhunmathi (HA)	1,855.99	1,813.70	1,830.47	1,694.93	1,273.16	2,100.53	1,508.64 671.18	2,087.38 752.28	1,602.54	1,080.78	4,303.88	4,260.34	27,369.23 5,715.20	لڌي المراقع (مد)
South Thiladhunmathi (HD)	937.91	886.21	697,07	43.49	105.25	361.93	528.87	363.77	278.31	260.16	311.14	202.46	4,976.57	لكير المثلثير (سم)
North Miladhunmadulu (SH)	168.22	119.36	142.03	150.16	102.54	207.51	180.31	156.75	204.04	215.81	277.33	196.07	2,120.13	(*) يالله المرابع
South Miadhunmadulu (NO)	58.99	59.89	54.80	38.08	13.36	62.84	46.01	55.11	88.78	120.75	135.56	244.66	978.84	ئۇلۇ ئۇلۇلىي (م) ئۇلۇ ئۇلۇلەس (م)
North Maelhosmadulu (RA) South Maelhosmadulu (BA)	337.52 119.55	467.16 124.32	647.71 179.97	405.70 137.74	346.39 121.74	793.61 116.92	711.27 284.18	958.64 279.09	536.40 247.90	604.36 261.01	1,012.55	512.12 185.86	7,333.44	دار دودون (م) دار دودون (م)
Faadhionolhu (LH)	388.14	233.86	546.48	184.76	172.95	246.16	284.18	109.08	105.46	218.81	340.18	346.11	2,342.98	(a) A
Male Atoll (KA)	621.57	637.47	712.99	209.59	263.87	481.29	1,259.21	644.00	623.82	702.18	628.20	612.54	7,396.73	(+) JZ
North Ari Atoll (AA)	401.80	305.23	313.52	303.54	224.11	306.37	344.03	350.68	325.83	353.93	419.94	277.57	3,926.54	لل اللقام (مد)
South Ari Atoli (AD)	495.41	519.41	542.97	553.73	532.57	480.48	458.55	495.72	277.39	310.45	317.20	312.39	5,296.29	ثِرُ ثِرُفَائِلِي (مم) ثِنْدُ (م)
Felidhu Atoll (VA) Mulaku Atoll (ME)	39.09	39.05	32.81 400.35	29.00 232.05	23.62	89.75	112.38	112.45 525.47	39.07 251.83	75.46 370.24	53.90 333.92	48.00 292.47	694.58 4.148.86	(a) JJJ
North Nilandhe (FA.)	126.43	158.60	127.12	143.22	170.05	260.65	340.51	124.13	174.27	293.82	343.77	88.43	2,351.01	(,) جنال الرائد (ر)
South Nilandhe (DH)	263.28	227.55	241.19	354.93	235.37	524.48	374.74	735.88	407.04	600.69	529.69	392.53	4,887.38	(4) -4343 3353
Kohumadulu (TH)	404.53	109.15	181,18	162.71	300.21	1,201.47	794.81	567.92	491.94	958.85	667.41	262.14	6,102.33	الر (م)
Hadhdhunmathi (LA)	511.58	375.32	542.00	525.96	643.21	1,050.89	646.70	723.19	453.95	974.35	901.79	894.23	8,243.17	لقبر (م) نقل المرافع (مم)
North Huvadhu (GA) South Huvadhu (GD)	1,274.92 475.65	1,166.28 576.25	1,204.39	955.46 485.56	840.13 365.77	1,183.30	1,190.71	1,181.50 678.16	1,200.53	2,398.82 843.79	2,198.09 712.77	874.98	15,669.09 6,518.55	نقل للطبع (دم)
Fuvahmulah (GN)	409.41	328.21	355.99	373.73	326.92	345.70	271.10	190.18	322.91	497.94	382.42	215.30	4,019.80	(e) 25.
Addu (SE)	406.60	561.97	492,36	482.43	318.59	349.95	364.77	376.08	347.12	600.09	350.61	327.29	4,977.86	() 322
matul (ict.) Source: Island Office & Compenies Complete by: Statistics Unit. Ministry of Fisheries & Agriculture		Та	ble 6	: Fisl	h Cat	ch by	Ato		d by S	peci	es, 20	13	442 24	د دو زلاد مدون در مدادادم زلاد خمون في در پخوا دا دام
Source: Island Office & Companies Compiled by: Statistics Unit.		Та	ble 6	: Fisl	h Cat	()		(ق)	d by S	Specio	es, 20)13	442 24	بتندس زئد عيهم
Source: Island Office & Companies Compiled by: Statistics Unit. Ministry of Fisheries & Agriculture		Та	ble 6	: Fisl	h Cat	()	فيثقا	(ق)	d by S	Speci	es, 20)13	442 24	ورون ميون او ور رسول دور دور
Source: Island Office & Companies Compiled by: Statistics Unit. Ministry of Fisheries & Agriculture	ype of fish	Ta		: Fisl	h Cat	()	tricton:	(ق)	d by S		es, 20		442 24	بتندس زئد عيهم
Source: Island Office & Companies Complete by Statistics Livid Ministry of Fisheries & Agriculture T	ype of fish	الوقاعة		عقلم	لاقا المنب	In me	غیرہ کے شرف etrictons	(L) (MT) (L)	تقمو	· As :	نادم دري	المرلة ء-	100 to 10	10 (10 -11) 15 (1 5-6) (10 (15)
Source: Island Office & Companies Compiled by: Statistics Unit. Ministry of Fisheries & Agriculture	ype of fish					In me	trictons	(غ) (MT)		· As :			ۇڭ ئىيق ئۇغىر	الماداداد وقال مقومة أو الأرباط المادادا
Source Island Office & Companies Complete by Stratistics Unit. Ministry of Fisheries & Agriculture To Agriculture To Agriculture To Agriculture	ype of fish	گروند Skipjack		تائثر illow- fin	دور المار المار Bigeye	In me	etrictons	زۇغ (MT) خىر دانلار	ئة مو Frigate	· As :	عُوم اللَّهِ ا Other fish	ئىرىد دە Other	يون فيق الاواد الاوا الاواد الاوا الوا الوا الواد الوا الاوا الاوا الاوا الاوا الاوا اف الاو الاو الاو الاو الاو الاو الاو الاو الاو الاو اص الاو الاو الاو الاو الاو الاو الاو الاو الاو الاو اص الاو الاو ال ال و الاوا الاوا الاوا الاوا الاوا ال الاو ال ال الاو ال الاو الاو الاو الاو الاو الاو الاو الاو الاو الاو الاو ال ال ال ال و الاو الاو الاو الاو الاو الاو الاو الاو ال ال و الاو ال ال و الاو ال و ال ف ال ف ال ف ال ف ال ف ال ف ال ف ال ف ال ف ال ف ال ال ال ال	10 (10 -11) 15 (1 5-6) (10 (15)
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Source shared Office & Companies Compiled by Statistica Unit. Makes of Phahema & Aprillabor T Interpolation Explored T Aprillabor Explored	ype of fish	Skipjaci tuna 74,421.63 25.84 18,963.19	45,61 45,61	fin t6.06	Bigeye tuna 1,520.36 1,058.46 93.36	Dogtoo tu	th na	(MT) strict tuna .005.44 .137.84	75 مو Frigate tuna 566.00	6,6°	المرابع المرا	فنرند عم Other tuna 1.49	55\$ Total catch 129,843.15 1,500.42 27,369.23	ggiring and an angle
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An example of good fishing practice – The Maldives

Pole and line fishery

No contract (walk-in-walk-out) community fishers

Regular payment in kind or cash

Return home for the night

Community involvement (including women/young) in the industry

Fish collecting vessels and processing plants geographically distributed

EEZ fishery done by local companies

No seiners or trawlers – nets are banned

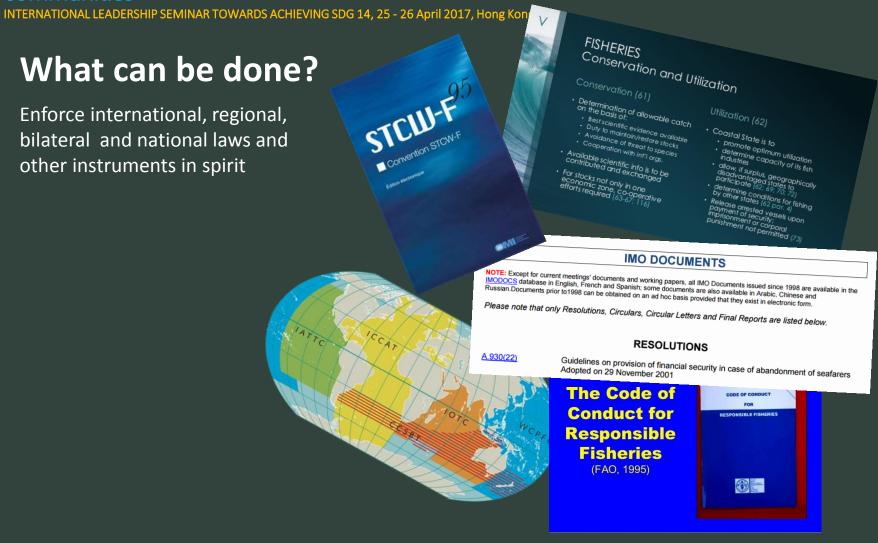
Regular updating of operations and catch data

Ensure seaworthiness and safety of fishing vessels



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What can be done?



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What can be done?

Enforce international laws and other instruments in spirit

Better monitoring of fishing activities

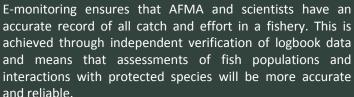
Vessel Monitoring System (VMS)

- . Compulsory for vessels above 12 m (from 1 January 2012)
- Minimum interval between signals 2 hour
- Signal contain information about:
 - Location
 - Time
 - e demonstrati
 - Speed of vessel



CONTROL TECHNOLOGIES OF FISHERY





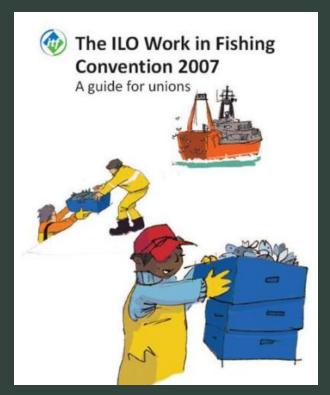
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What can be done?

Enforce international laws and other instruments in spirit

Better monitoring of fishing activities

Be party to the Work in fishing Convention 188



Applicable to all types of commercial fishing it was designed to ensure that fishers worldwide have access to decent working and living conditions

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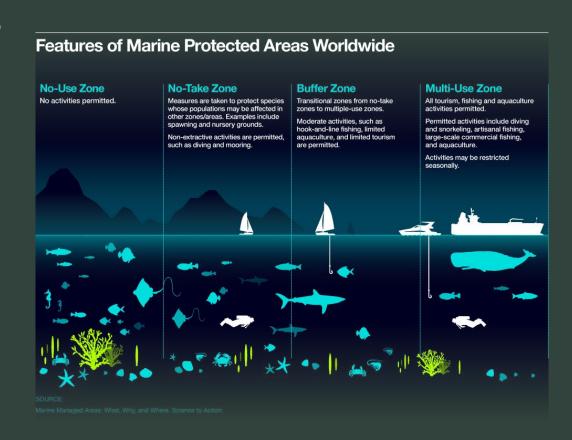
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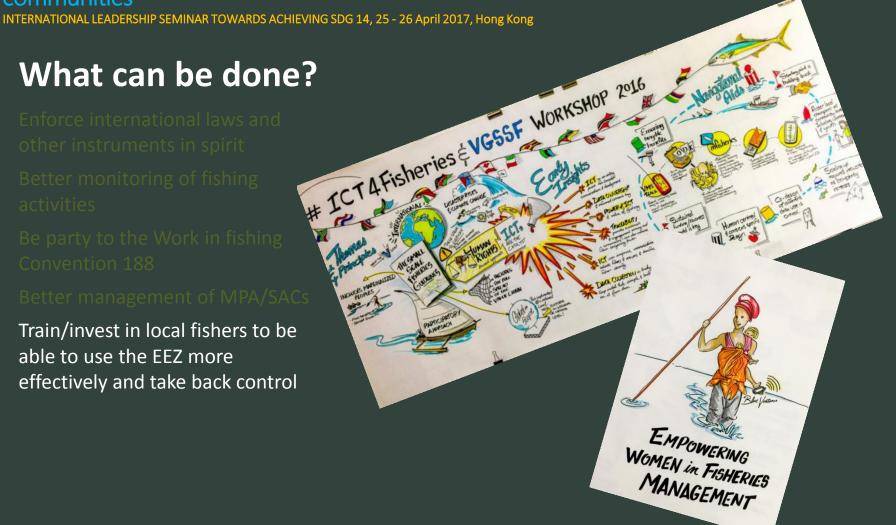
Better management of MPA/SACs



communities

What can be done?

Train/invest in local fishers to be able to use the EEZ more effectively and take back control



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What can be done?

Enforce international laws and other instruments in spirit

Better monitoring of fishing activities

Be party to the Work in fishing Convention 188

Better management of MPA/SACs

Train/invest in local fishers to be able to use the EEZ more effectively and take back control

Create awareness among the public and especially at schools



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What can be done?

Enforce international laws and other instruments in spirit

Better monitoring of fishing activities

Be party to the Work in fishing Convention 188

Better management of MPA/SACs

Train/invest in local fishers to be able to use the EEZ more effectively and take back control

Create awareness among the public and especially at schools

Bottom up approach from consumers and NGOs to promote sustainable practices and prevent abuse of fishers



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Thank you