PAST 20 YEARS WITTENN THE ELE MARITINE PILOTAGE



MARITIME PILOTS

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#### André GAILLARD

Secretary General of the French Maritime Pilot Association Pilot of Marseilles - Fos & Nice - Cannes - Villefranche



Born in Nice, France (1972) Married, 3 kids Merchant Marine Academy (Marseilles), 1991 Illimited Master License (2001), Cruise ships - Ferries

Marseilles - Fos Pilot (2003) Nice – Cannes – Villefranche Pilot (2008) • Webmaster Marseille Pilot Station, FFPM, EMPA • President Nice - Cannes Pilot Station (2015-2020)

Secretary General - FFPM (May 2021) Vice – President IMPA (June 2022)

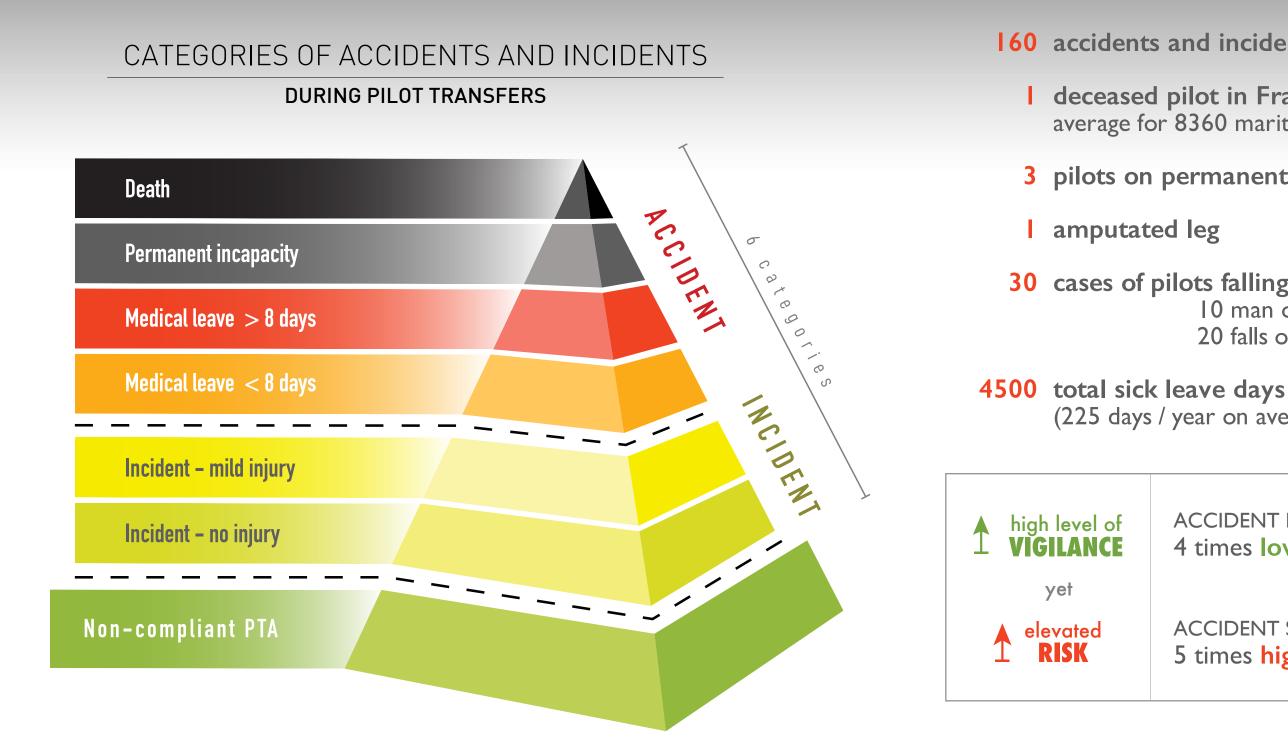
STUDY: Accidentology of the French Maritime Pilotage (2022) Scope of the study presented: **330 pilots** in **30 pilot stations** in mainland France and overseas.

### BIOGRAPHY



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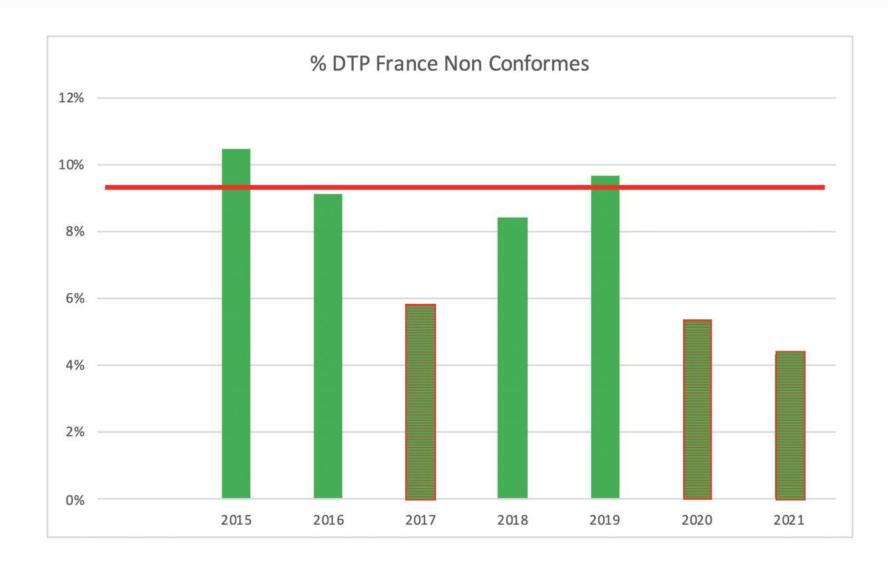
# SUMMARY: 200 - 202, 20 YEARS OF ACCIDENTOLOGY



- **160** accidents and incidents classified in 6 categories
  - deceased pilot in France (but 1.8 deaths / year on average for 8360 maritime pilots in the worldwide)
  - 3 pilots on permanent sick leave
- **30** cases of pilots falling off ladders: 10 man overboard accidents 20 falls on the deck of the pilot boat
  - (225 days / year on average)
    - ACCIDENT FREQUENCY: 4 times lower than the national average
    - ACCIDENT SEVERITY:
    - 5 times higher than the national average



# NON-COMPLIANT PTA STATISTICS - FRANCE :



IMPA Safety Campaign					
Participating					
Countries	Year	Total Returns	Compliant	Non-compliant	%
_	2045				10 50/
France	2015				a conservation
	2016	394	358	36	9,1%
	2017	206	194	12	5,8%
	2018	381	. 349	32	8,4%
	2019	372	336	36	9,7%
	2020	521	. 493	28	5,4%
	2021	. 255	244	11	4,3%

#### NOTE :

It is important to specify that the years 2020 and 2021 were disrupted by the Covid-19 health crisis. For the authors of this study, the percentage of non-compliant PTAs of ships calling at French ports is rather 9 - 10%. (cf. 2015, 2016, 2018 and 2019. The statistics for the years 2017 and 2021 are based on too few cases).







## NON-COMPLIANT PTA STATISTICS - WORLD in 2021 :

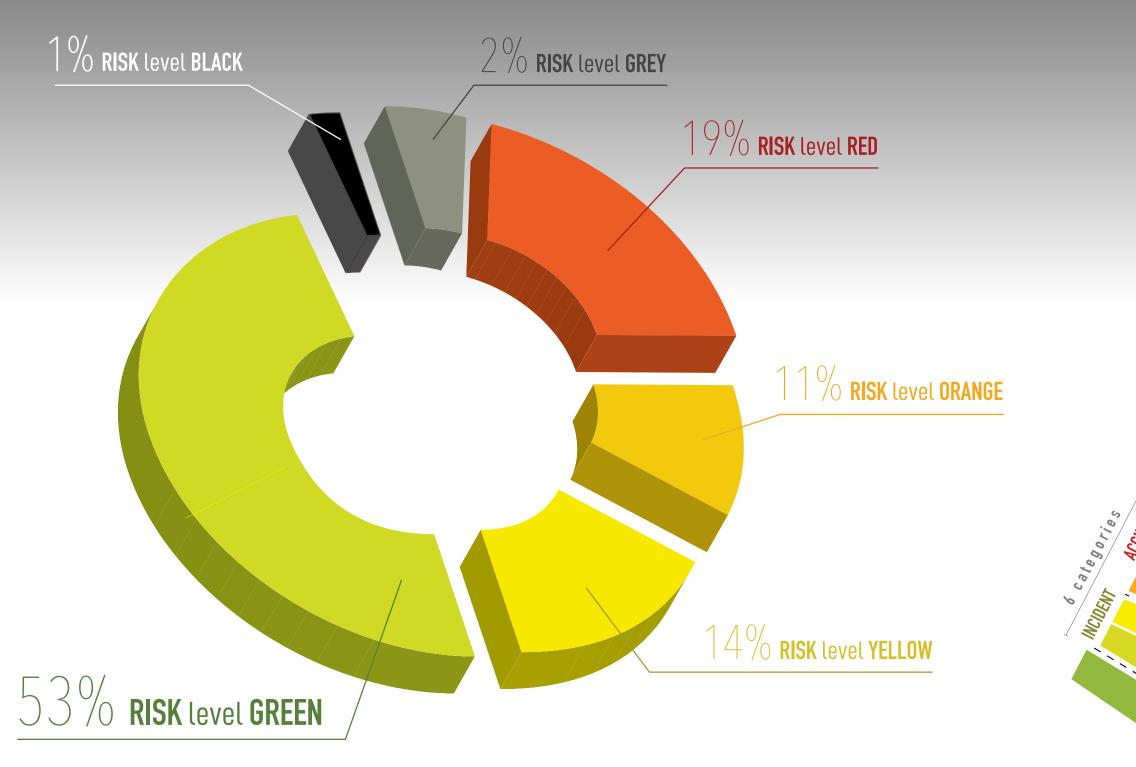
NOTE : <b>The percentage of non-compliant</b> <b>PTA's is over 13% worldwide,</b>	COUNTRY	TOTAL RETURNS	COMPLIANT	NON COMPLIANT	NON COMPLIANT AS %
and over 17% in Europe.	Africa	76	59	17	22.37
and over 1776 in Europe.	Asia / Oceania	582	480	102	17.53
	Europe	946	780	166	17.55
	Middle East	48	14	34	70.83
	North America	156	117	39	25.00
	South America	1514	1426	88	5.81
	TOTAL	3322	2876	446	13.43
		CON	Source: MI		INTERNATIONAL MARITIME PILOTS' ASSOCIATION







# BREAKDOWN BY CATEGORY:



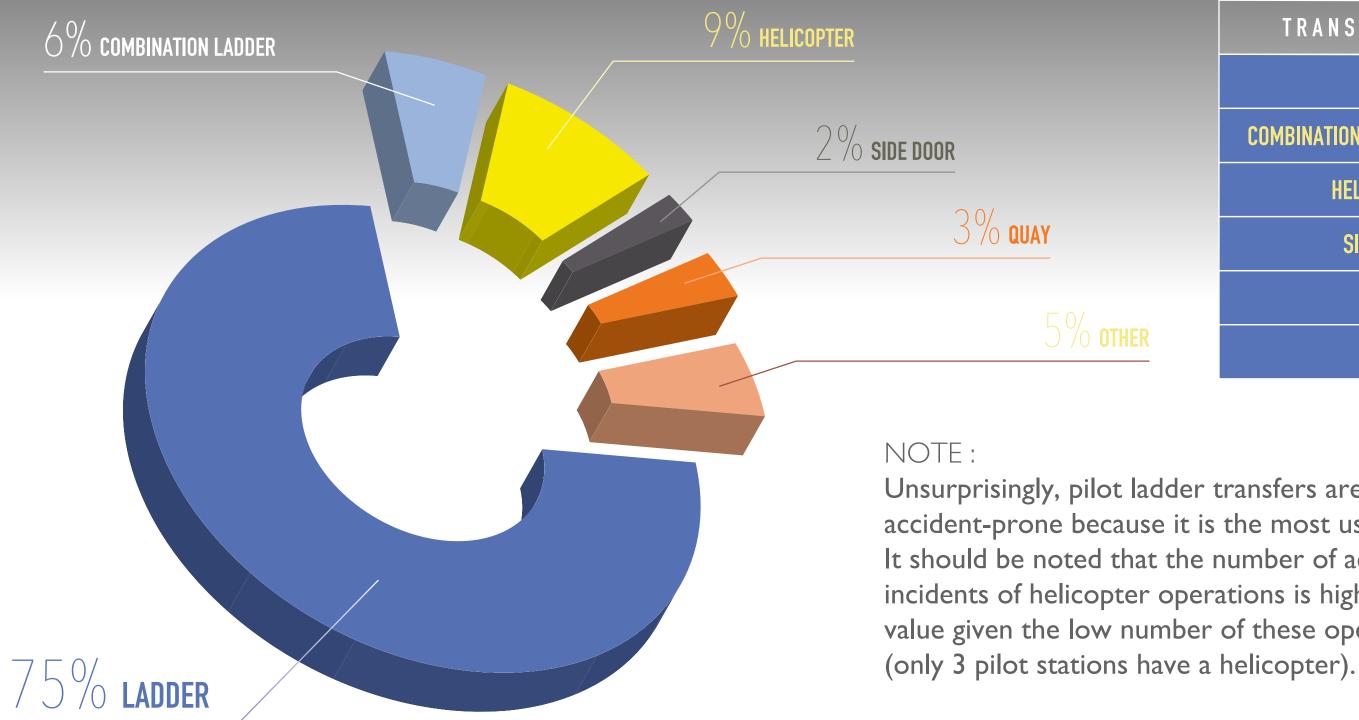
TYPES OF RISK				
DEATH :	1			
code GREY accidents :	3			
code RED accidents :	30			
code ORANGE accidents:	18			
code YELLOW incidents :	22			
code GREEN incidents :	86			
	160			

>	
	DEATH
ALCIDENT.	PERMANENT INCAPACITY
	MEDICAL LEAVE + 8 DAYS
	MEDICAL LEAVE - 8 DAYS
	INCIDENT - MILD INJURY
	INCIDENT - NO INJURY
	NON-COMPLIANT PTA





#### BREAKDOWN BY TYPE OF TRANSFER:

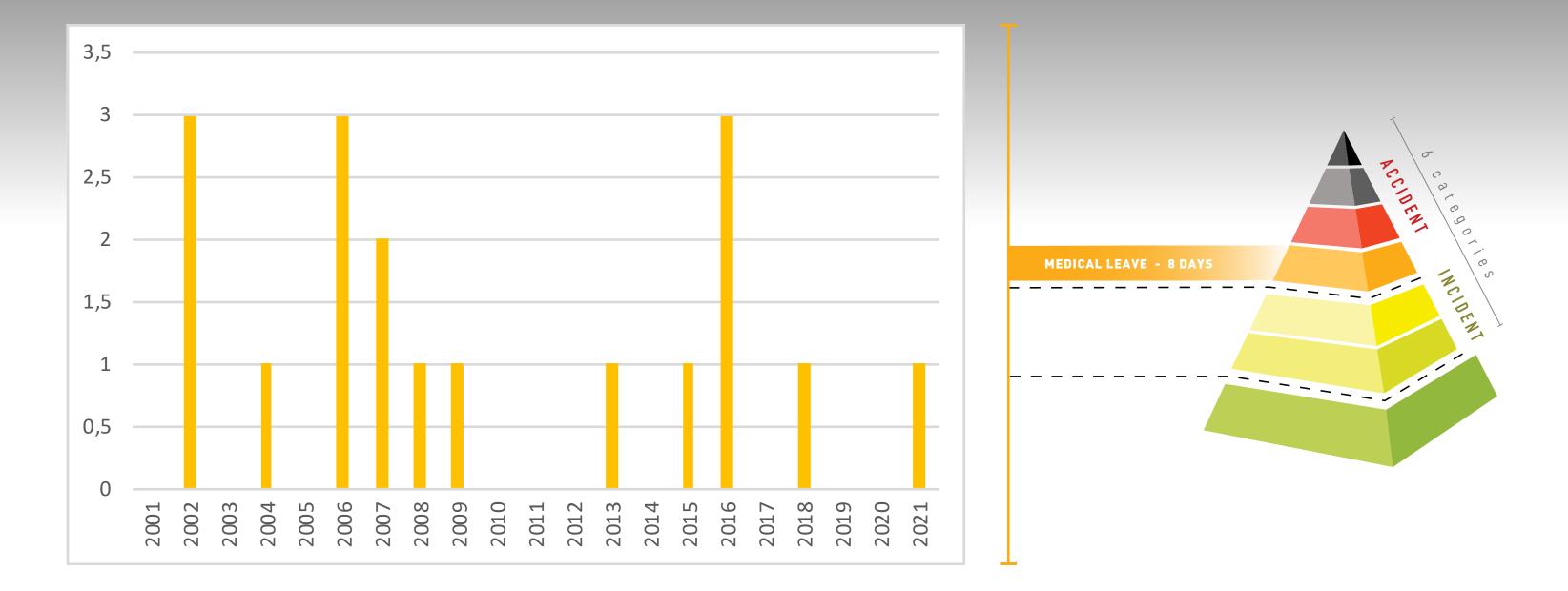


TRANSFER ACCI	TRANSFER ACCIDENTS				
LADDER :	120				
<b>COMBINATION LADDER :</b>	10				
HELICOPTER :	14				
SIDE DOOR :	4				
QUAY :	4				
OTHER :	8				
	160				

Unsurprisingly, pilot ladder transfers are the most accident-prone because it is the most used PTA. It should be noted that the number of accidents and incidents of helicopter operations is high in absolute value given the low number of these operations

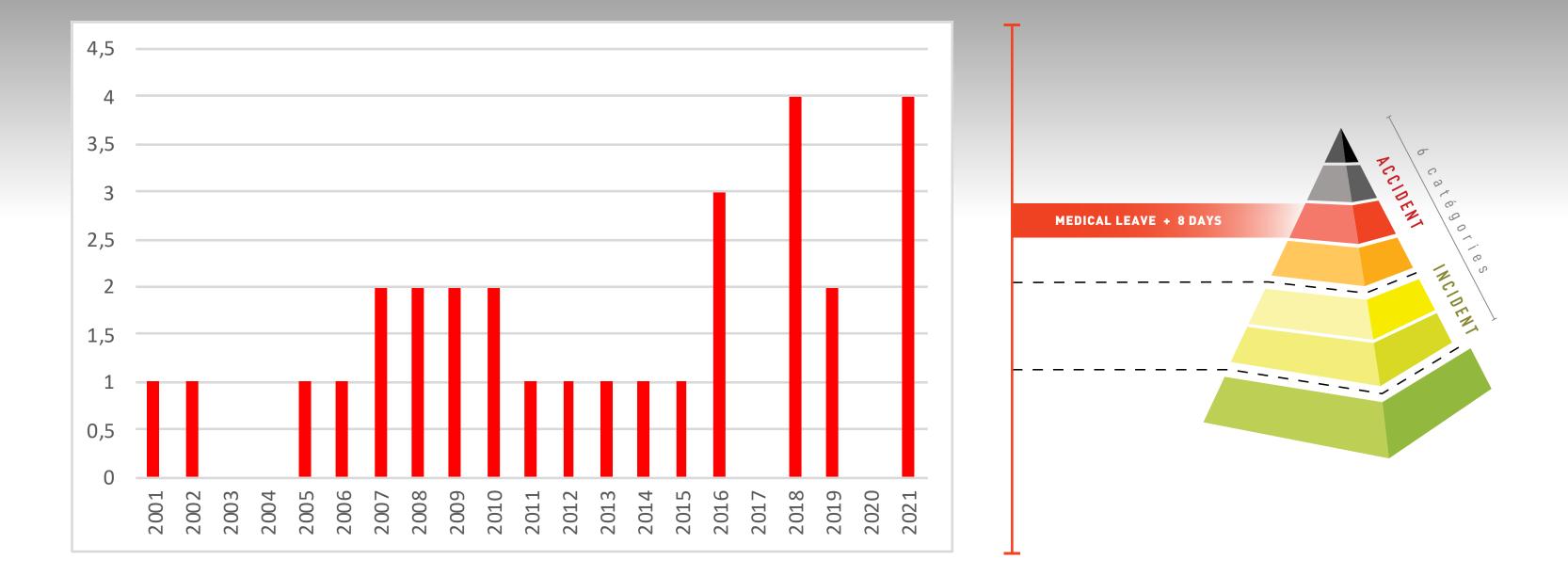


### BREAKDOWN BY YEARS : RISK level ORANGE



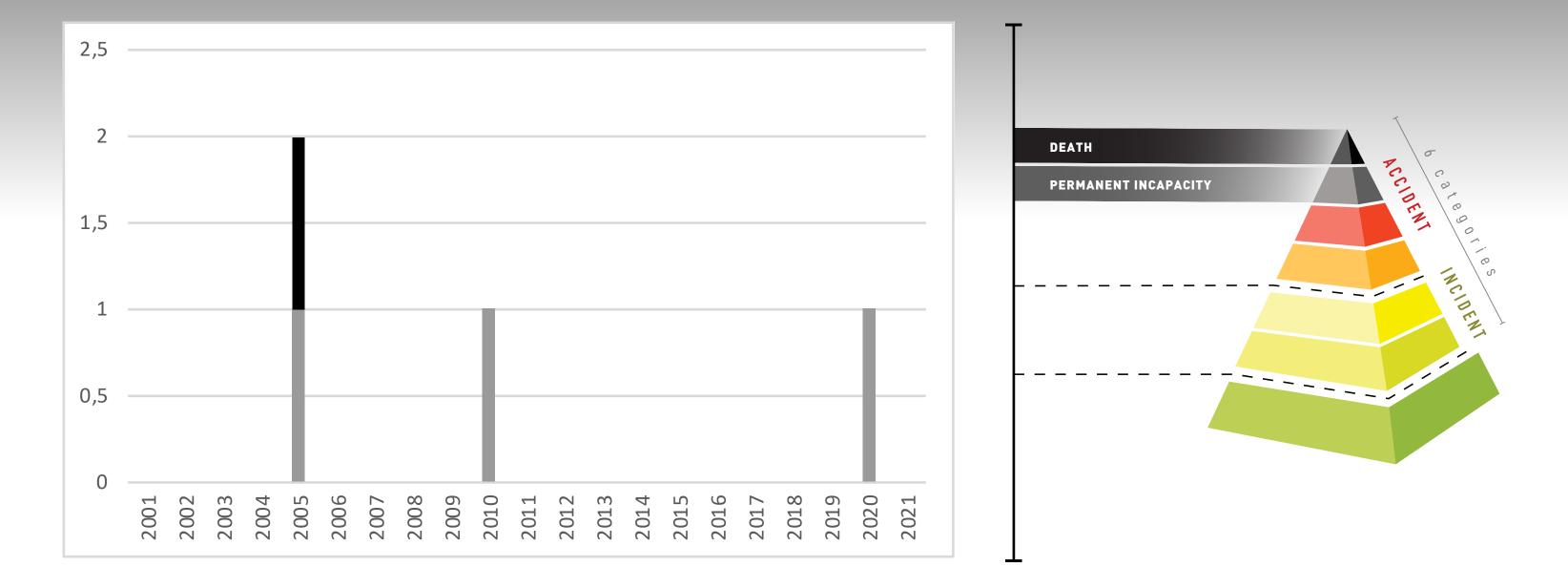


#### BREAKDOWN BY YEARS : RISK level RED



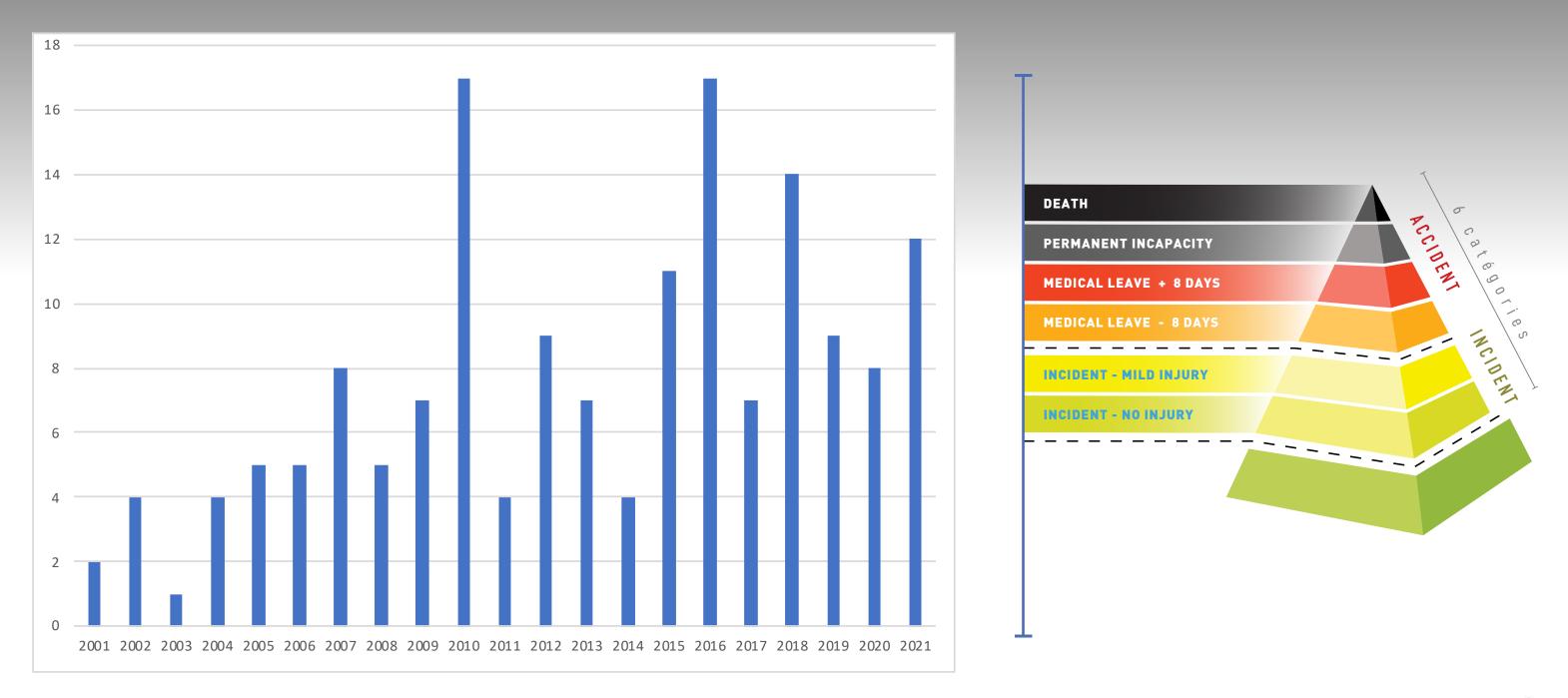


### BREAKDOWN BY YEARS : RISK level BLACK & RISK level GREY



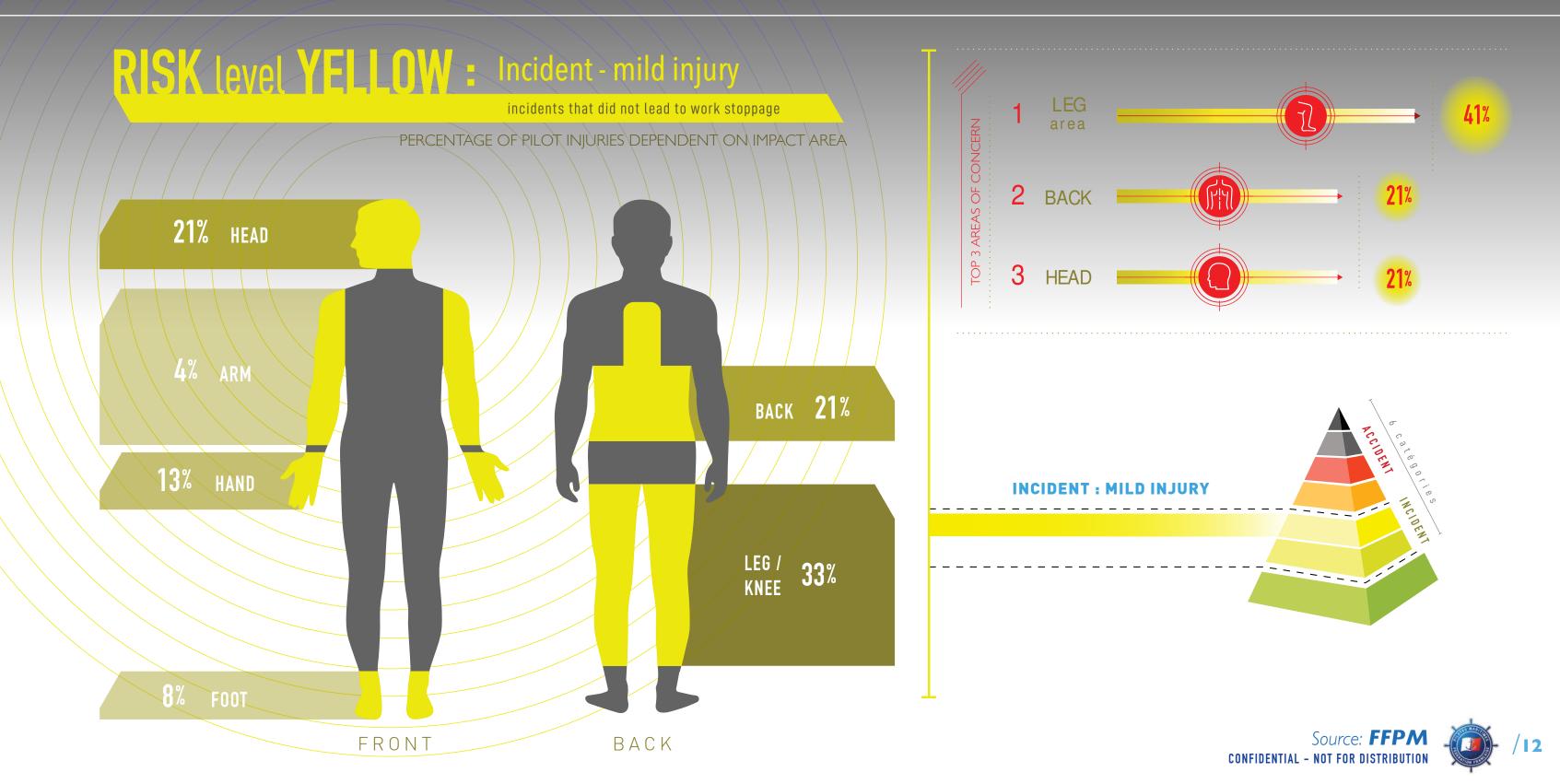


#### BREAKDOWN BY YEARS : ALL RISKS & INCIDENTS COMBINED

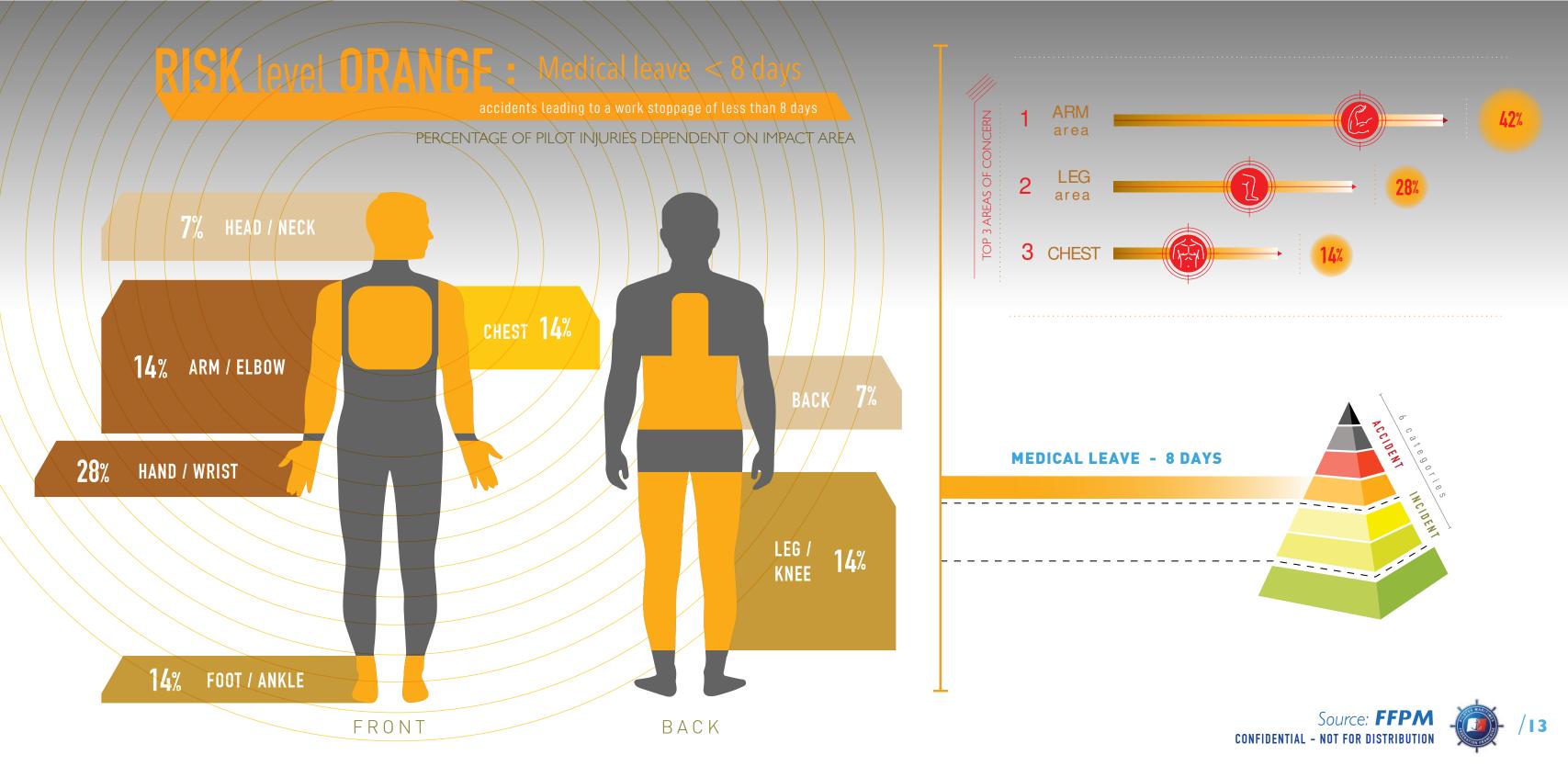




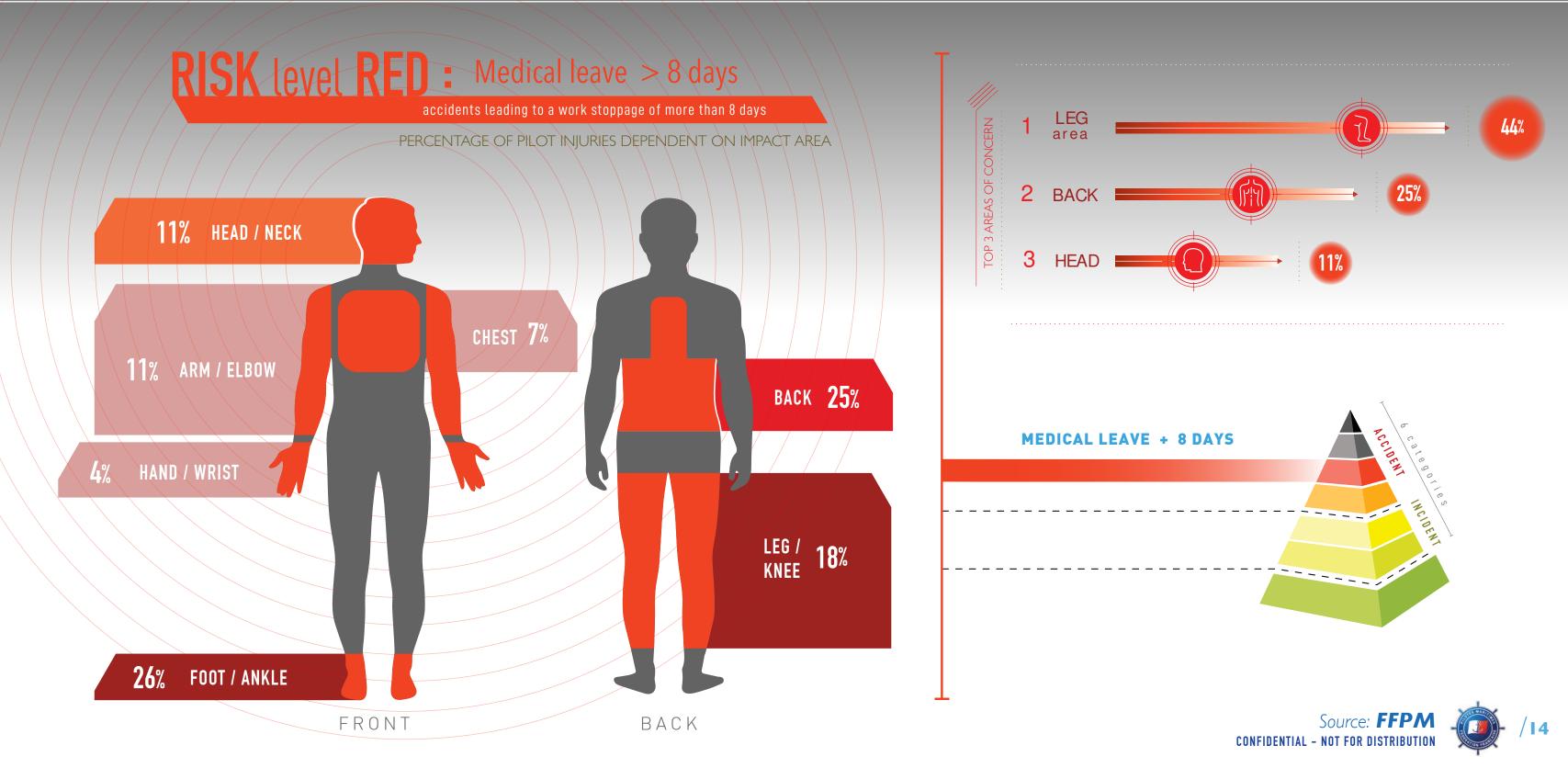
#### BREAKDOWN BY TYPE OF INJURY : RISK level YELLOW



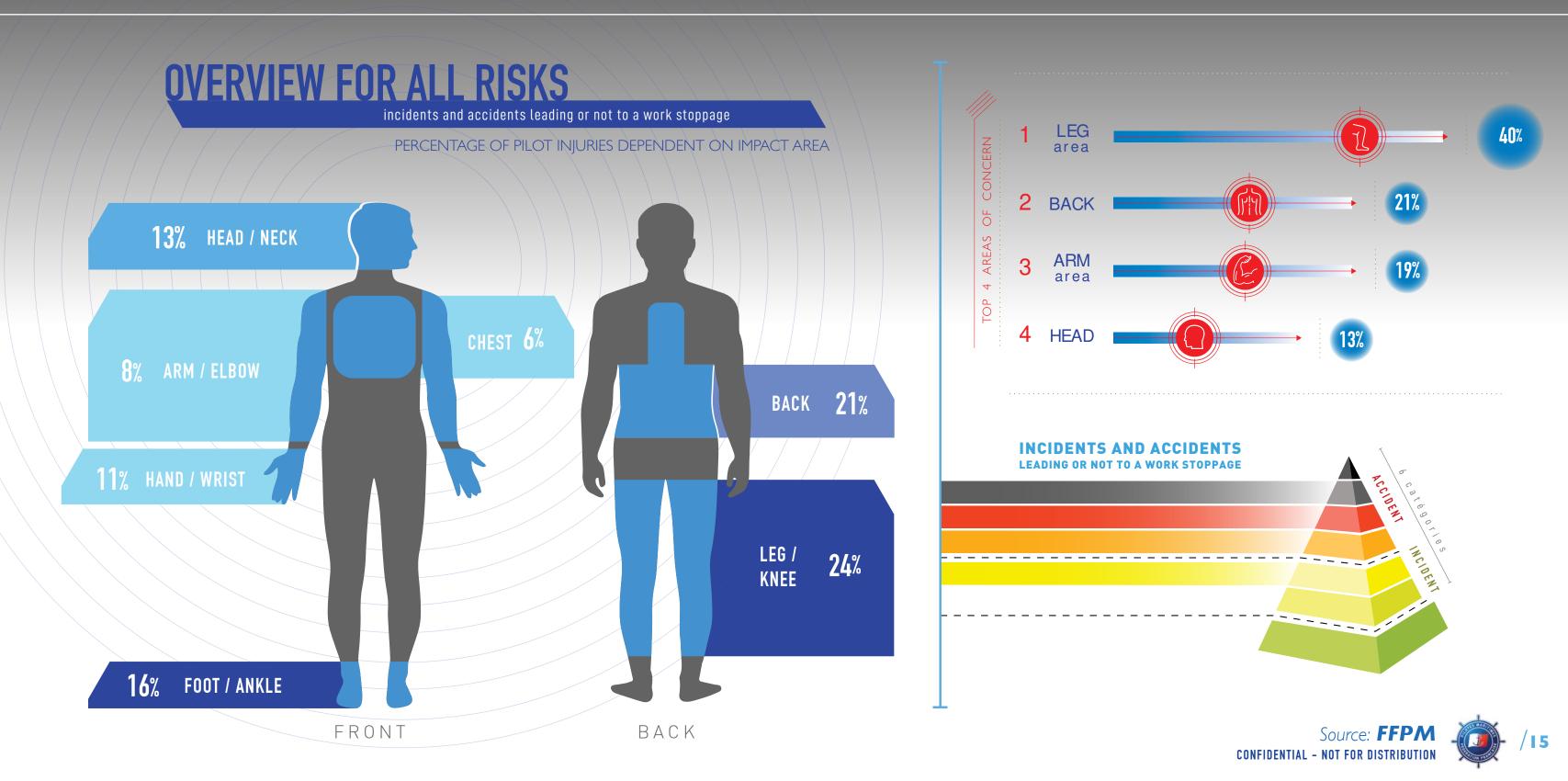
### BREAKDOWN BY TYPE OF INJURY : RISK level ORANGE



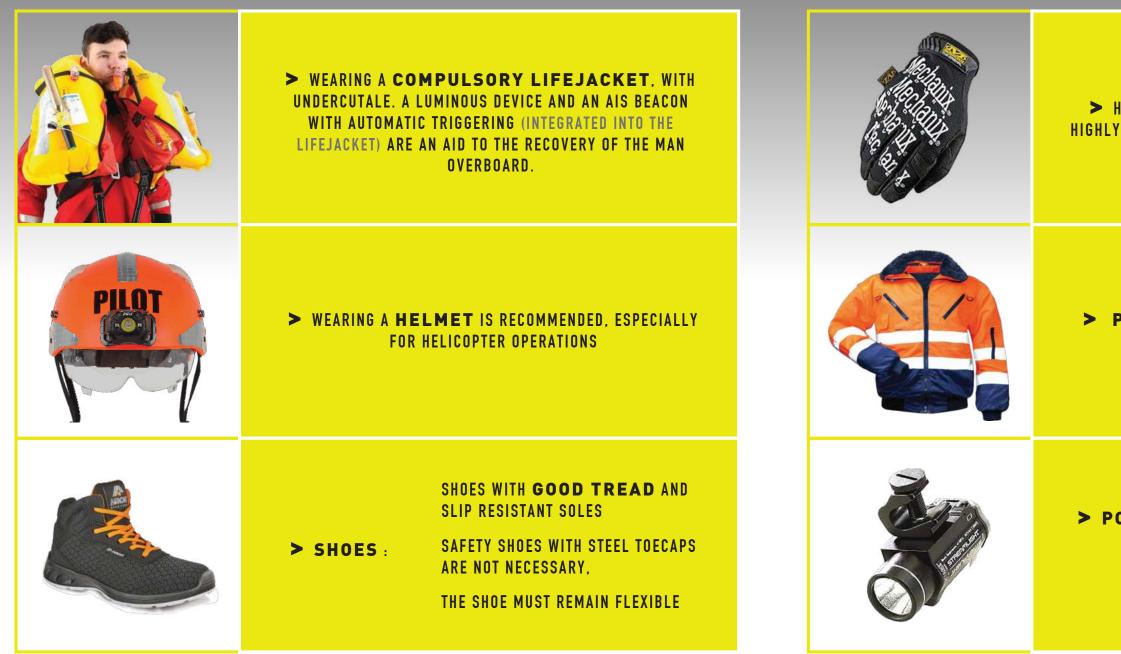
#### BREAKDOWN BY TYPE OF INJURY : RISK level RED



# BREAKDOWN BY TYPE OF INJURY : ALL RISKS COMBINED



### FFPM RECOMMENDATIONS : PERSONAL PROTECTIVE EQUIPMENT



HANDS : WORK GLOVES WITH GRIP ARE HIGHLY RECOMMENDED, (WITH SLIP-RESISTANT PROPERTIES FOR PROTECTION, DEXTERITY, AND COMFORT)

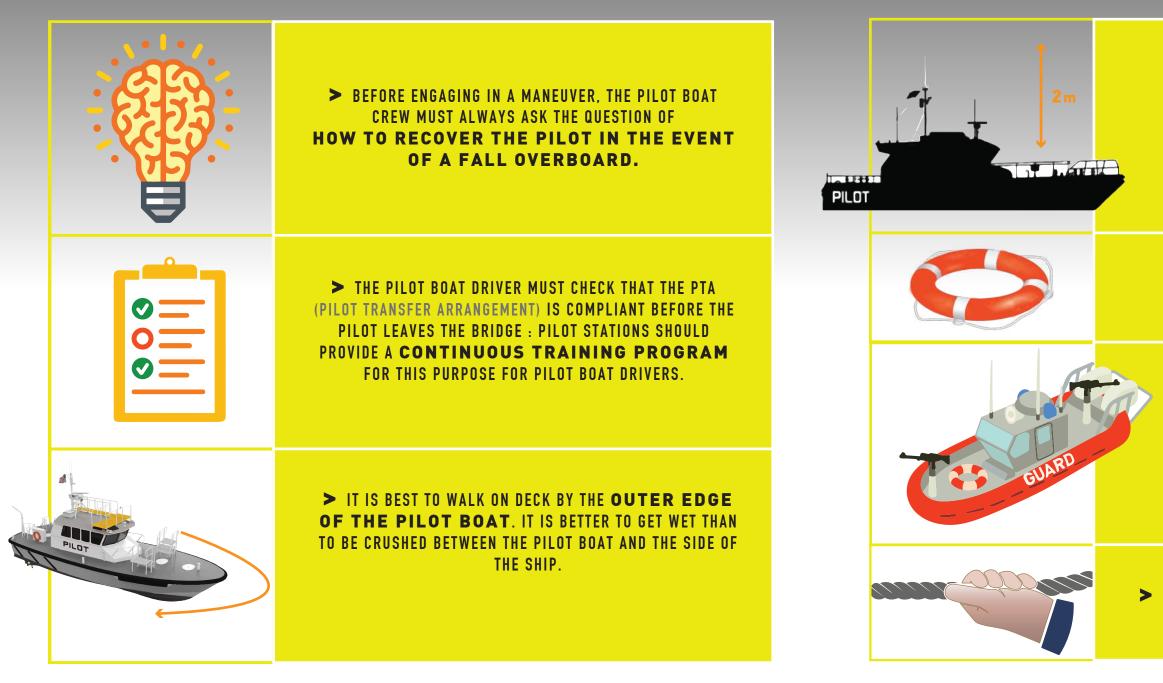
> PANTS AND LONG-SLEEVED JACKET ARE RECOMMENDED, TO PROTECT LEGS AND ARMS

> **PORTABLE LAMP** IS RECOMMENDED TO MAKE UP FOR THE LACK OF LIGHTING DURING TRANSIT.



Source: **FFPM** CONFIDENTIAL - NOT FOR DISTRIBUTION

#### FFPM RECOMMANDATIONS : ON GOOD PRACTICES





#### > THE PILOT BOAT SHOULD WITHDRAW IF THE PILOT IS MORE THAN 2 METERS **ABOVE THE PILOT BOAT DECK**

(20 FALLS ON THE PILOT BOAT DECK WITH SERIOUS CONSEQUENCES: 10 FALLS OVERBOARD WITHOUT SERIOUS INJURY).

#### > MAN RECOVERY EXERCISES AT SEA TO BE CARRIED OUT REGULARLY.

> IN PORTS WHERE POSSIBLE. **PROVIDE ASSISTANCE "MAN OVERBOARD" BY ANOTHER STATE SERVICE** EQUIPPED WITH NAUTICAL MEANS. AS A BACK-UP MEASURE. (FIREFIGHTERS, COAST GUARDS, PORT AUTHORITY, ETC.).

**BACKPACKS:** FOR SAFETY PURPOSES. HOIST BAG TO DECK FIRST BEFORE EMBARKING OR DISEMBARKING.



Source: FFPM **CONFIDENTIAL - NOT FOR DISTRIBUTION** 

#### FFPM ACTIONS : TRAINING MOVIE FOR "NEW PILOTS"

In accordance with the recommendations of the French Bureau of Investigation on Sea Accidents, the FFPM will produce a training movie in 2022, "Pilot Ladders," for new pilots as well as for the new pilot boat drivers. This film can also be shown to guests who occasionally accompany pilots on board ships (journalists, students, etc.). Finally, an informational brochure will also be produced and widely distributed which will provide advice for the concerned public.

After the fall of a pilot when boarding the vessel VAN STAR on 22 April 2021, in the Seine River, the French Bureau of Investigation on Sea Accidents issued the following recommendation : "2022-R-06 : to encourage stations to provide training for new pilots in order to acquire best practices in the use of the ladder for a safe transfer".

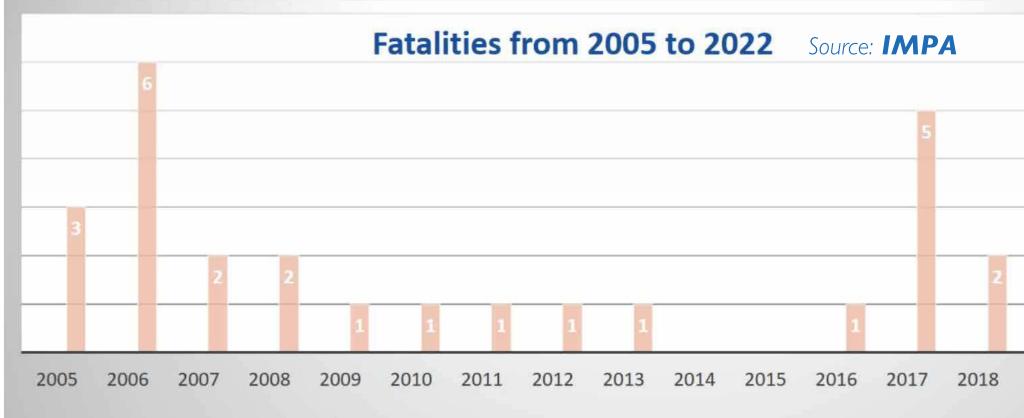
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# CONCLUSIONS: ON THE NUMBER OF DEATHS

> The statistical series studied here are too short to make sense (330 pilots – 20 years), so it is the number of deaths of active pilots worldwide (8,360 maritime pilots) that must be taken into consideration:



> Total of 32 deaths in 18 years, i.e. 1.8 maritime pilot deaths / year on average for 8360 pilots.

> Applied to 100,000, this makes 21.3 deaths / year on average, compared to civil aviation pilots whose the number rises to 50 deaths / year per 100,000 (source: U.S. Bureau of Labor Statistics, period 2012-2017)

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### CONCLUSIONS: ON THE NUMBER OF WORK ACCIDENTS

> In 2010, the construction sector remained the most exposed sector with 43.3 work accidents per million hours worked, which is double the national average (21.5 accidents / million of hours). (https://www.e-sante.fr/accident-travail-20-metiers-plus-dangereux/actualite/318)

> By way of comparison, we note 5.2 accidents at work (black, red and orange risks levels only) out of I million hours worked, i.e. four times less than the national average. This is explained by the professionalism of the pilots and their sailors as well as by the implementation of Quality procedures (ISO 9001 2015 certification from the FFPM and pilot stations in France).

#### CONCLUSIONS: ON THE DURATION OF MEDICAL LEAVE ( ACCIDENT SEVERITY INDEX )



> 4,500 days off work for only 48 accidents (red and orange risks), i.e. 94 days on average per accident: this is more than 5 times higher than the national average which is 18 days (average duration of sick leave for private sector employees in France from 2012 to 2017, in number of days).

(https://fr.statista.com/statistiques/539155/employes-prives-duree-moyenne-arret-maladie-france/)





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