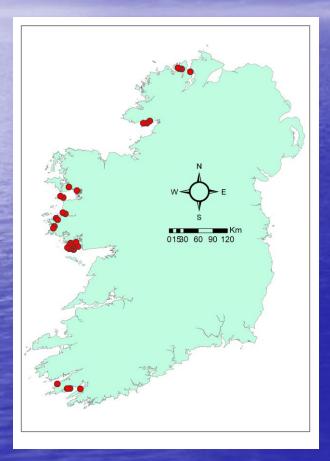
# Irish Escape Incidents.

Alan Drumm, Marine Institute, Ireland.



### Introduction



Small industry - 52 licensed sites. Currently 17 in operation. ~85% organic. Forced to go off coast. Holmer(2010) criteria. Sig Wave Height <3 to 4 m • Plastic cages of 120m. Most sites <30m deep.</li>

## **Escape Incidents**

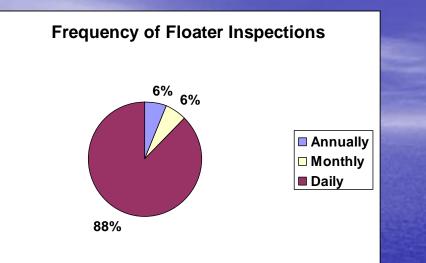
- 2 reported incidents since 2007.
  < 36,000 escaped.</li>
  Both incidents
- investigated by MI and Dept Engineers.
- Mooring coupling failure and net failure.

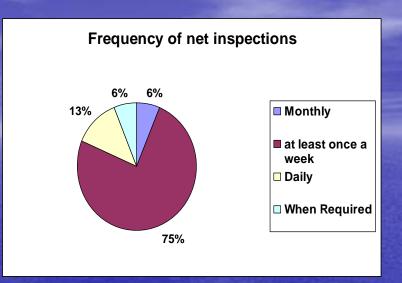


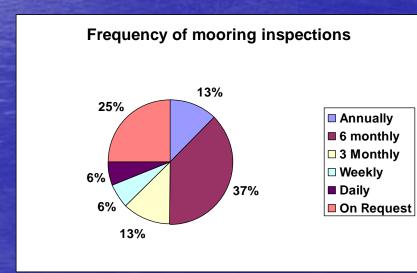


### Reasons for lack of escapes.

Small industry - but exposed sites.
Experienced staff – learn from mistakes.
Inspection and Maintenance procedures for Floaters, Nets and Moorings.







# **Examples of Net Maintenance**





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 Central net repair. Contract with net manufacturer. Net History, number, date of manufacture, all repairs and area of repair, pressure test result.

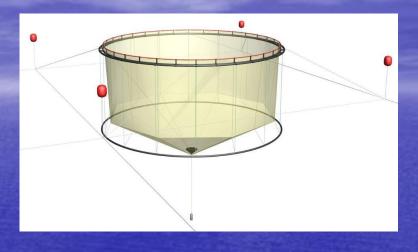


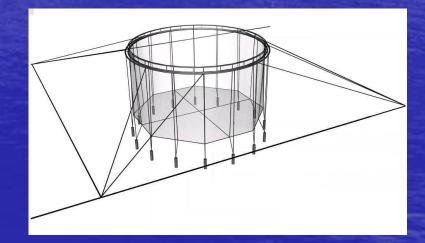




## **Predator Control**

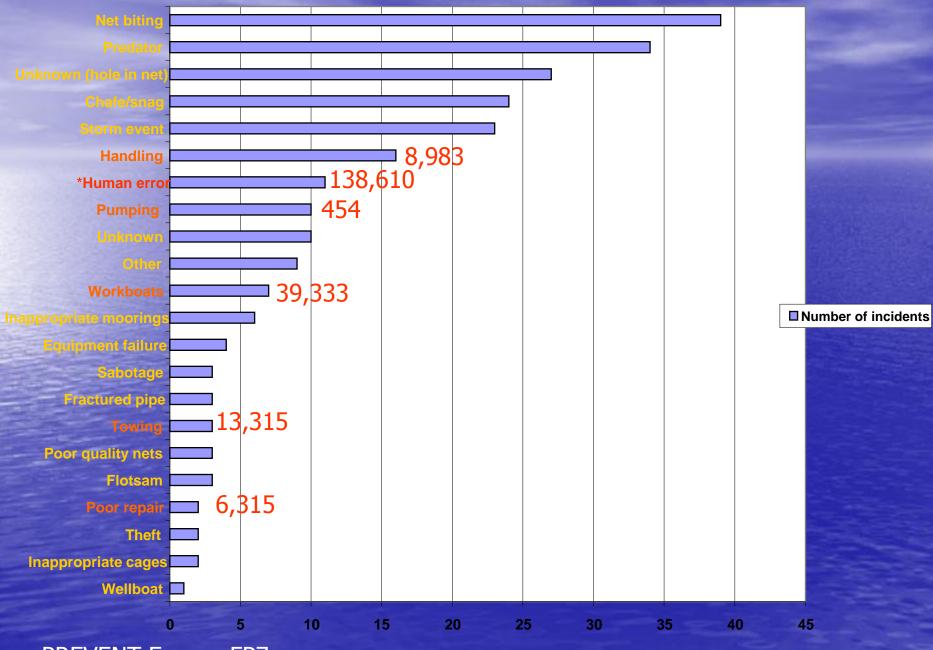
Very little use of predator nets.
Weighting of cage nets used.
Site specific – 100/150kg





#### 6 countries 2007-2009

derlying causes of escapes vs number of incidents



PREVENT Escape FP7

**Number of incidents** 

### PREVENT Escape FP7

### 6 countries 2007-2009

Spec	ies	Total		Structural		Biological		Operational		External		Unknown	
	200	No. of incide nts	No. of escapes	No. of incidents	No. of escapes	No. of inciden ts	No. of escapes	No. of incidents	No. of escapes	No. of incident s	No. of escapes	No. of incident s	No. of escapes
Atlar Salm		113	820158	40	678279	5	6758	47	88065	3	13194	18	33862
Со	d	61	457005	6	16466	38	118974	6	11839	3	180717	8	129009
Se bas	the second se	15	599600	9	540000	5	52100			1	7500		
Se brea	and the second second	52	6846100	22	6181900	25	604000	1	20000	2	25200	2	15000
Meag	gre	1	200,000	1	200,000								
Tota	als	242	8922863	78	7616645	73	781832	54	119904	9	226611	28	177871

### Headings as per Jensen et al 2010

http://preventescape.eu/

### **Containment Training**

- Currently very little carried out in Ireland.
- Staff need to be aware of impact of escapes loss of profits, impact on local rivers, image of industry.
- Staff made aware of all maintenance and escape response procedures.
- \* Any containment training must include the need for full comprehensive reporting of the incident.

# Thank you for your attention

