



FOOD and AGRICULTURE ORGANIZATION  
of the UNITED NATIONS



## A comparison of the Economic constraints of the small scale fishery in the Eastern Mediterranean

Dario Pinello

&

Mark Dimech

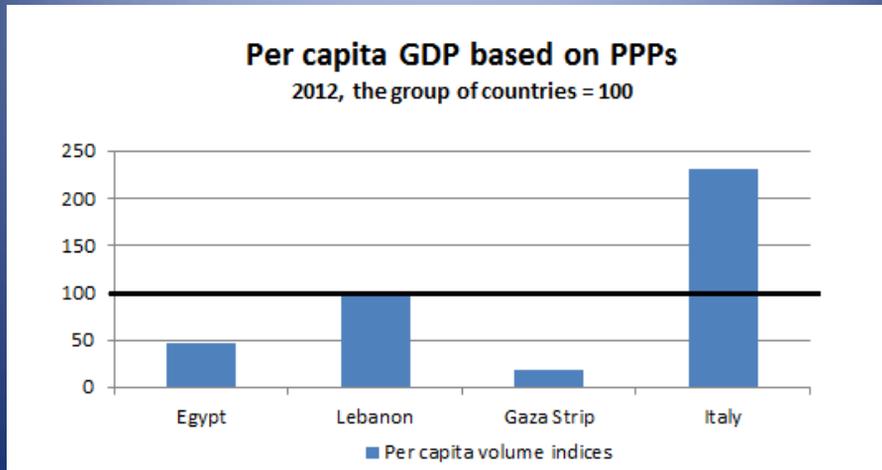
## Methodology

- The same fishing segment in 4 cases
- Random sampling survey (where the sample was constituted by the vessel)
- To facilitate the comparison, the economic indicators have been converted into index numbers (Index number are values expressed as a percentage of a single base figure).

### Non Formal Qualitative Risk Assessment

		Consequence			
		Minor	Moderate	Major	Extreme
Likelihood level		1	2	3	4
Remote	1	1	2	3	4
Unlikely	2	2	4	6	8
Possible	3	3	6	9	12
Likely	4	4	8	12	16

## The macroeconomic framework



- GD PPP: the output per person or the GDP on purchasing power parities divided by population size.

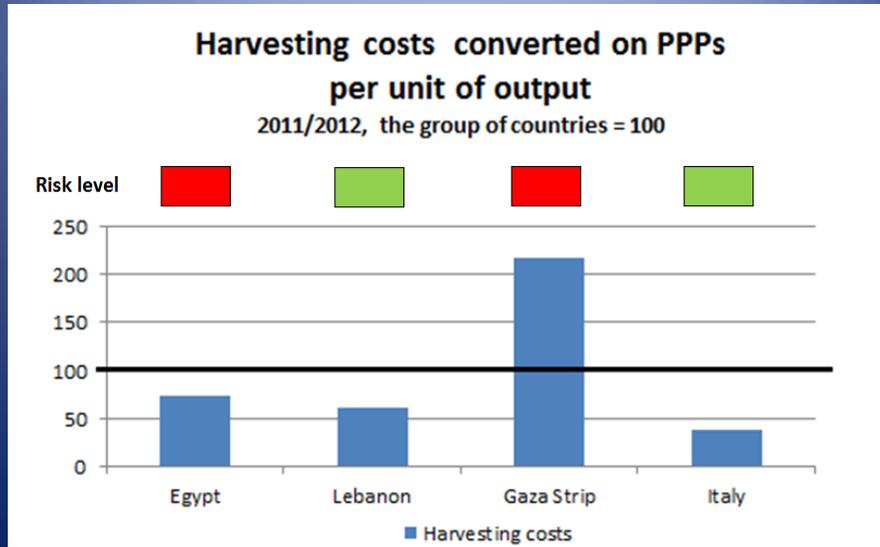
## The small scale fleet and employment

Vessel with a LOA <12 m using passive gears

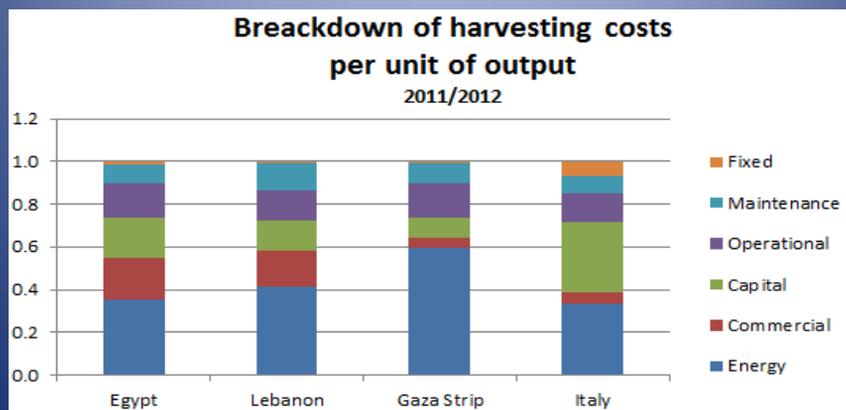
	<b>Egypt (2011)</b>	<b>Lebanon (2011)</b>	<b>Gaza (2012)</b>	<b>Italy (2011)</b>
<b>No. of vessels</b>	<b>557</b>	<b>1,400</b>	<b>570</b>	<b>8,811</b>
<b>Employment on board</b>	<b>1,405</b>	<b>2,826</b>	<b>935</b>	<b>14,008</b>

- General similarity in technical characteristics and fishing behaviors
- high disparity in the economic structures and patterns of the countries

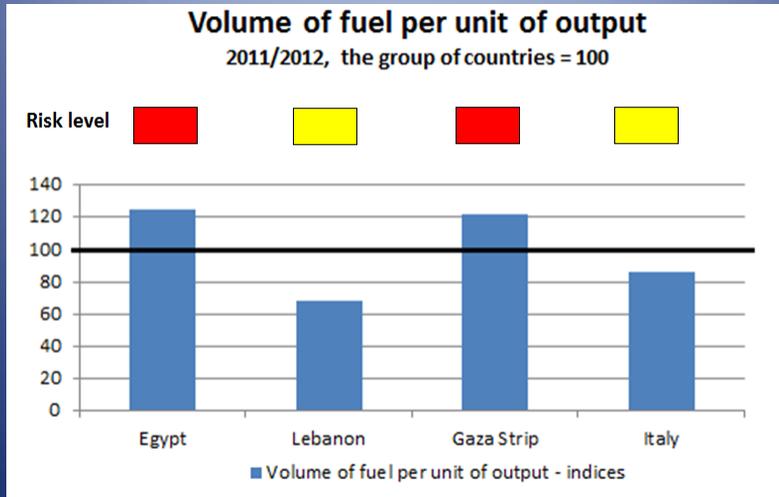
## Input factors (harvesting costs)



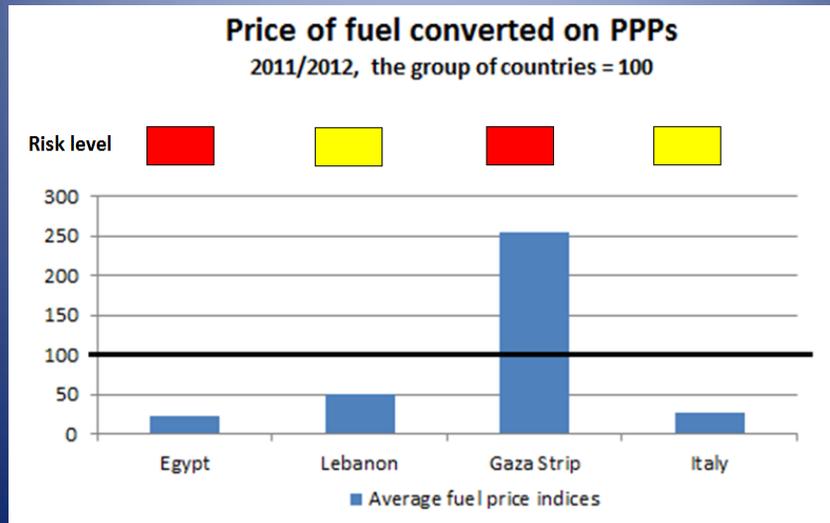
## Input factors (harvesting costs)



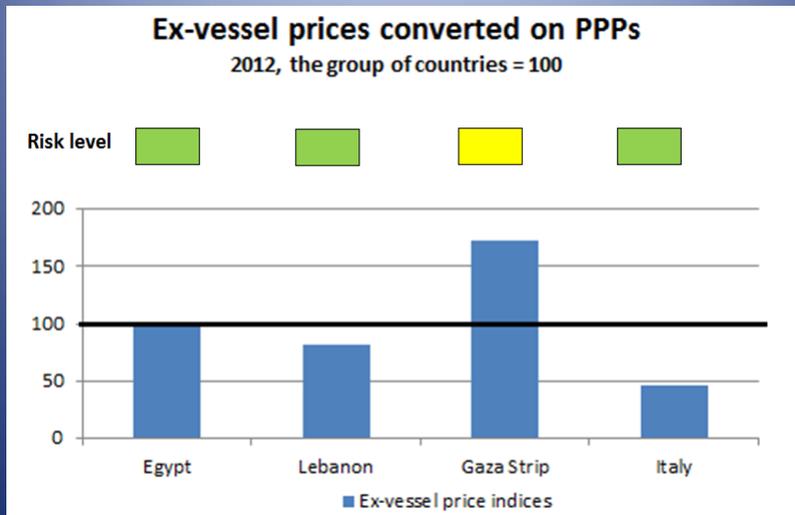
## Energy consumption



## Energy Cost

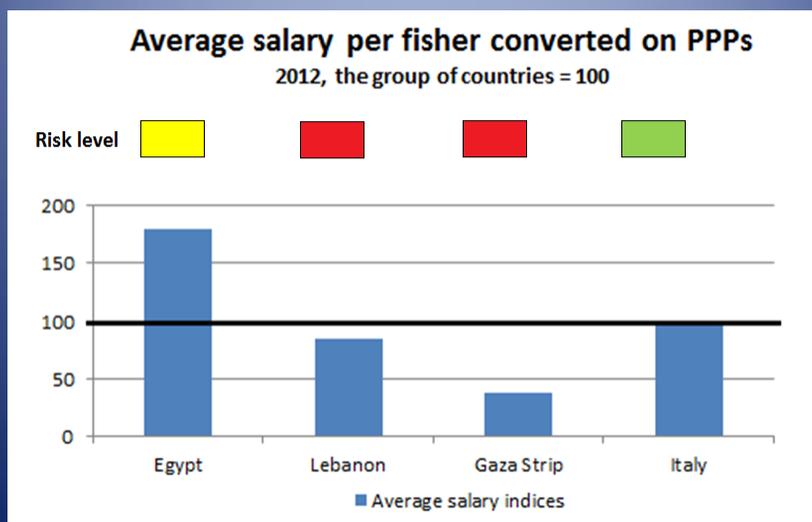


## Output – average price of production

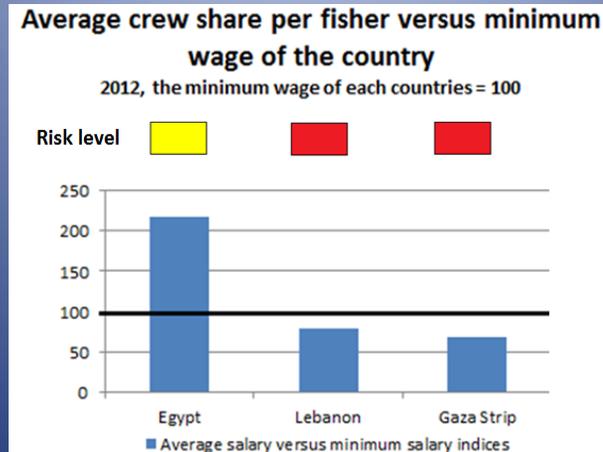


- Vessel with a LOA <12 m using passive gears

## How the segment is performing from the side of the workers?



## How the segment is performing from the side of the workers?



In Egypt the average salary gained by the fisher is about 2.2 fold the minimum national wage while in Lebanon and Gaza is less by 25% and 30% respectively

## Risk comparison of economic constrains

	Egypt	Lebanon	Gaza Strip	Italy
Harvesting costs	9	4	12	4
Energy cost	9	6	16	6
Ex-vessels price	2	2	6	2
Average salary per fisher	6	9	12	2

## Conclusions

- Fuel is a key economic constraint, which is made by two components
  - 1) International market price
  - 2) Subsidies
- Particularly risky in countries where it is highly subsidized
- Ex vessel Prices do not seem to be a constraint
- Gaza is highly vulnerable to any change
- Salary is below the minimum wage in 2 out of 3 countries

**Thank you for your attention!**