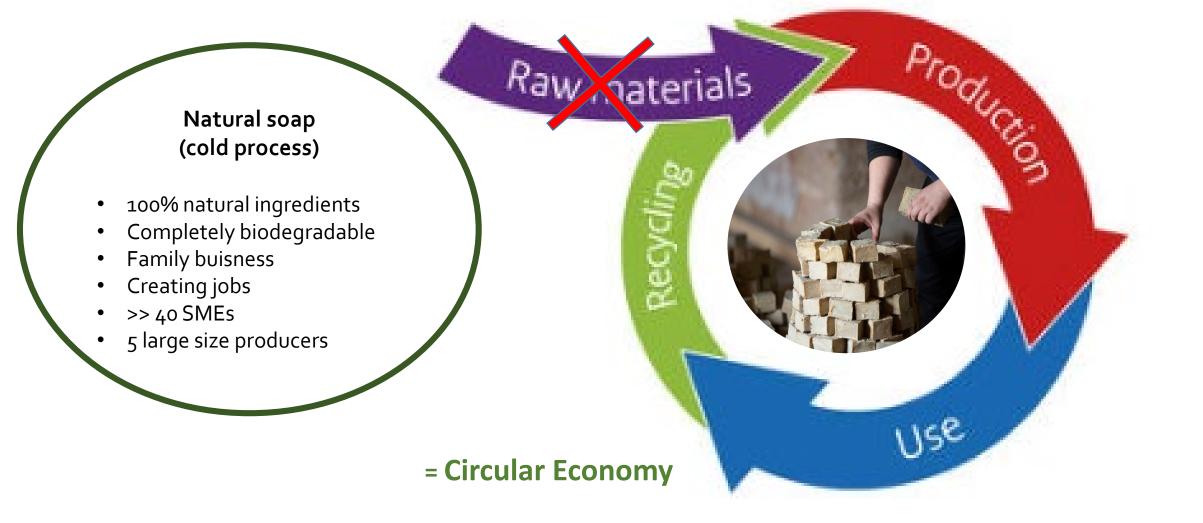
## Lebanon's Natural Soap Production





# Pollution from olive oil extraction

**Traditional mills** High water consuming industry

## 2 pollutants

Olive Mill Wastewater (OMW) , "Zibar"



Solid residue, "jift"



## **OMW**

Colored substance

- High polytoxic phenols
- High organic matter
- Least biodegradable
- $\rightarrow$  Major pollutant to surface and groundwater
- $\rightarrow$  toxic to plants and microorganisms



e.g. : Hasbani River

Olive = 50% OMW + 20% olive oil+ 30% solid residue

# NGER on olive oil soap

#### OMW

if treated (fermented under oxygen) → Liquid fertiliser

#### Solid wastes

If treated → Biomass fuel → Compost



eg: Recycling solid waste into firewood

### NGER on Natural Soap in Lebanon



→ Valorise the natural soap sector in Lebanon
→ Allow to gather SME s to tell their challenges
→ Shed the light on SWOT

Green export Forum, Geneva, 8<sup>th</sup> October 2018, Geneva