

**mo | na | co**  
MOROCCAN NANO COMPANY


**Next Generation**

**Nanocrystalline cellulose (NCC)**

100 nm




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Chief Executive Officer

1



**Accumulation and under-utilization of biomass waste: 2325 kilotons from only two industries in Morocco.**

2



**Infrastructure maintenance tops MAD600 billion in Morocco by 2035.**



**MONACO NCC**  
Sustainable MONACO  
process produces NCC from  
Biomass waste.

1

**NCC-Reinforced Concrete**  
High value-added concrete  
with longer stability and  
high strength.

2

5% to cement companies

15% MONACO revenue



**We offer a sustainable material to the cement sector**

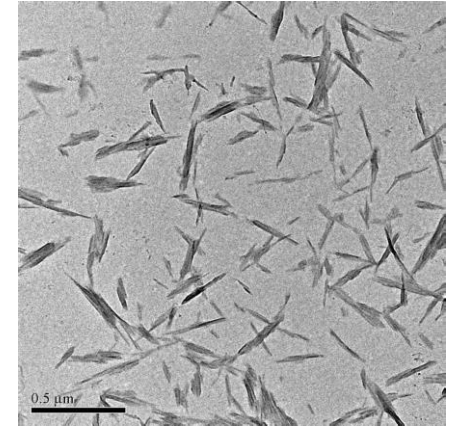
**3-4T/Day Biomass Waste**



**MONACO  
Process**



**1T/Day NCC**



**MONACO** pilot process produces 1T/Day of NCC powder from a variety of biomass waste

## Clients



## First Client



12 MT Production capacity



7.8 BMAD

Turnover (2019)

(52% of Moroccan market)

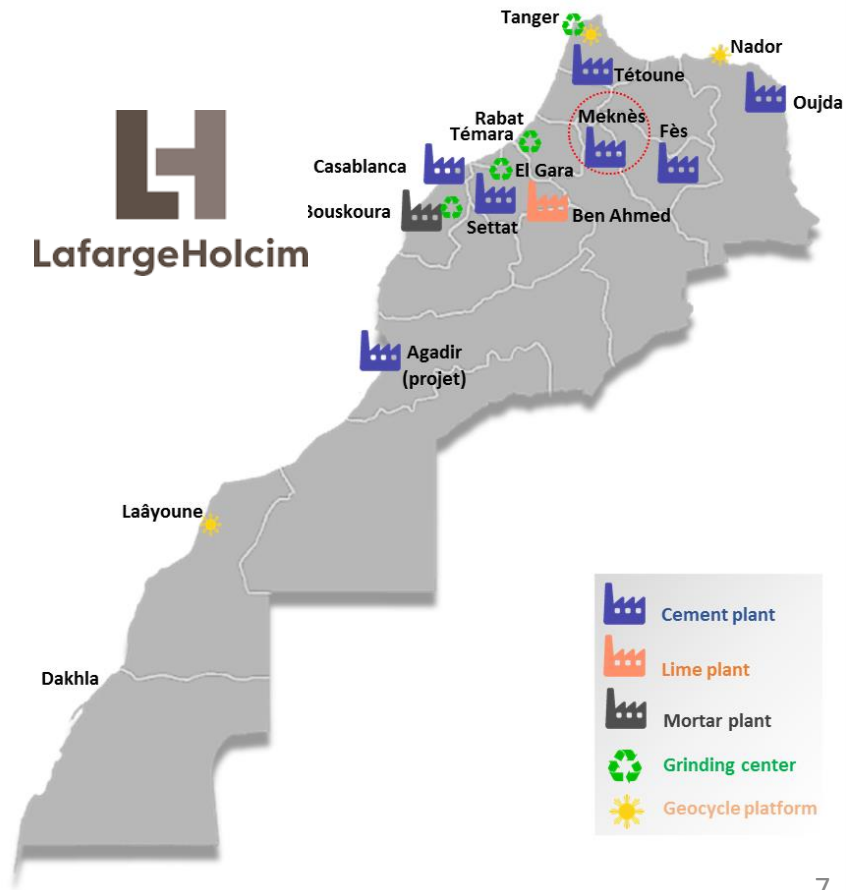


7 cement

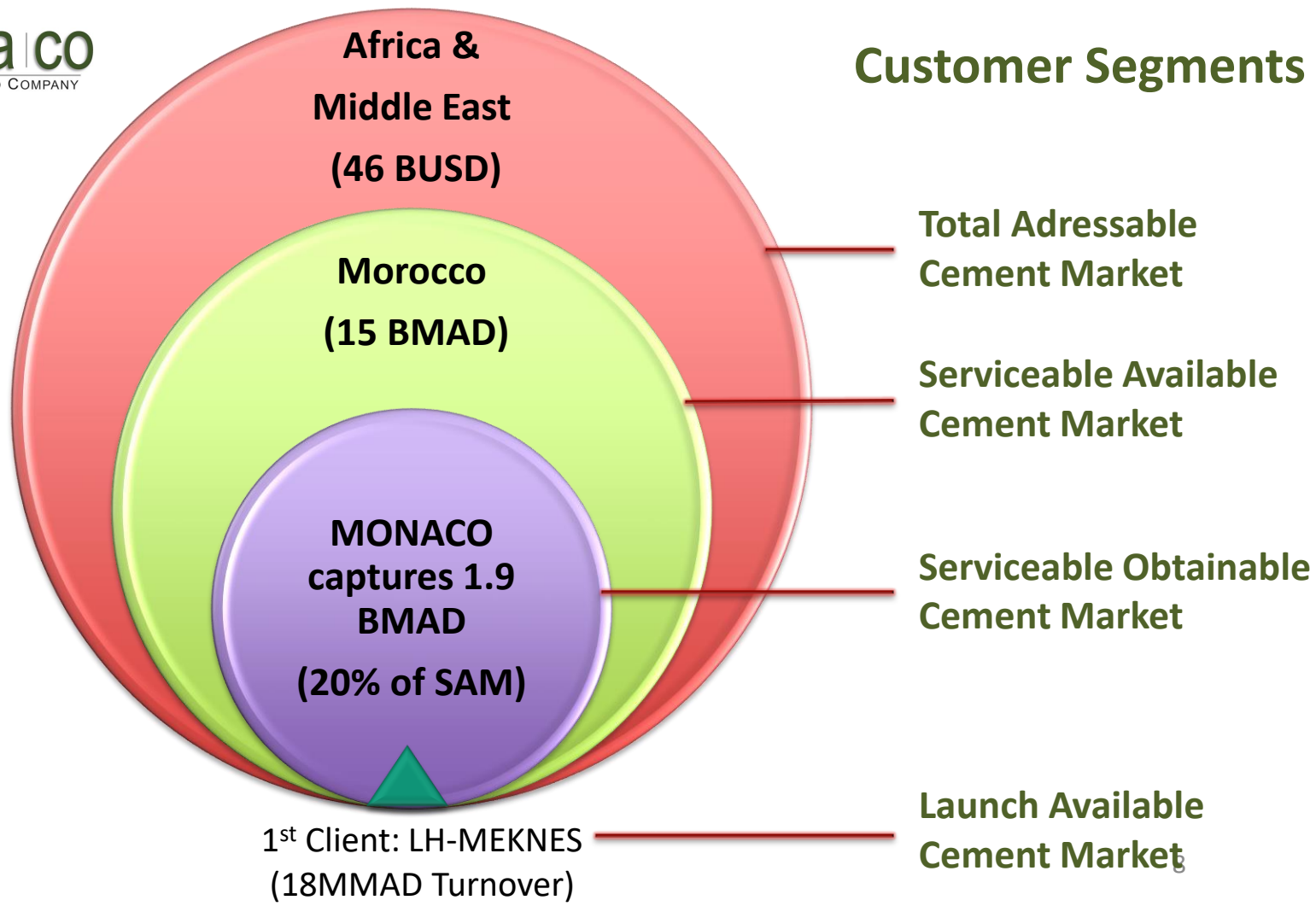
production sites

**1st Client: LH-MEKNES**  
**18MMAD Turnover**

## Customer Segments



## Customer Segments





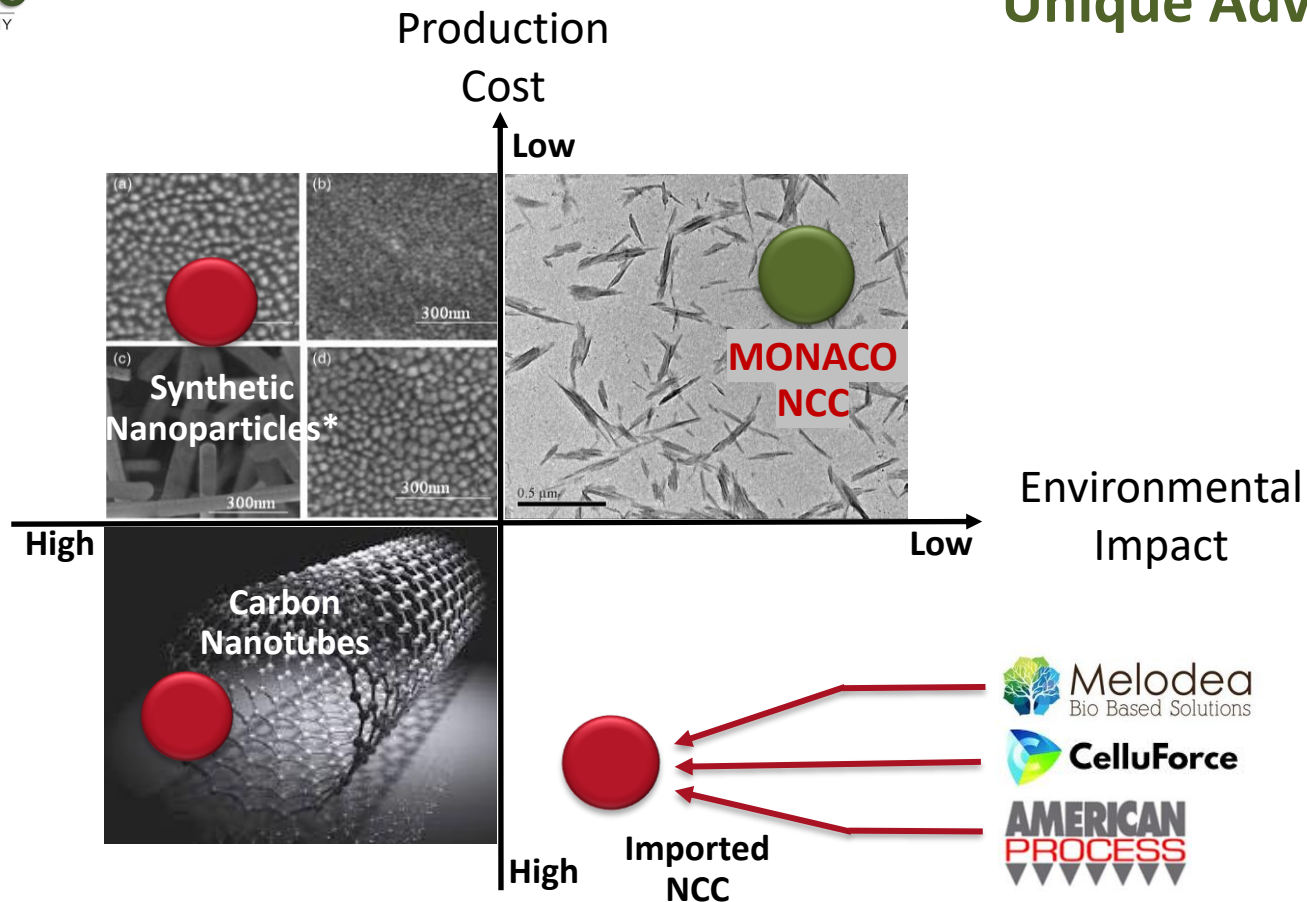
**1. MONACO NCC sales  
to cement sector**

**2. R&D Service  
to help cement industry  
adopt MONACO NCC  
products**

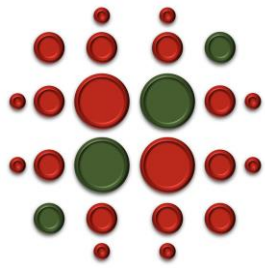
**3. Reduce carbon tax**

**MONACO** has secured one client representing the largest cement production industry in Morocco (52%) and is currently working on additional clients.

**LafargeHolcim** has given a positive feedback with an engagement to use MONACO NCC. Our **Life Time Value (LTV)** is 18 MMAD for the first year.



\*nano SiO<sub>2</sub>, nano TiO<sub>2</sub>, polymer-clay nanocomposites, nano CaCO<sub>3</sub>, nano AlO<sub>3</sub>, nano ZnO



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LafargeHolcim



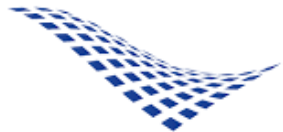
الجمعية المهنية لشركات الاسمنت  
ASSOCIATION PROFESSIONNELLE DES CIMENTIER

INTERPROLIVE  
E

Fédération Marocaine  
Interprofessionnelle  
de l'Olive



FEDERATION  
MAROCAINE  
DE PLASTURGIE



MOHAMMED VI  
POLYTECHNIC  
UNIVERSITY



Sandbox Innovation  
Fund Program

**Thank you!**