**Cocoa Sustainability : Role for digital in improving farming productivity** 

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**COCOA SUSTAINABILITY** 

# ROLE FOR DIGITAL IN IMPROVING FARMING PRODUCTIVITY

MIKE GEARY, DIRECTOR COCOA R&D, MONDELEZ JULY 2023



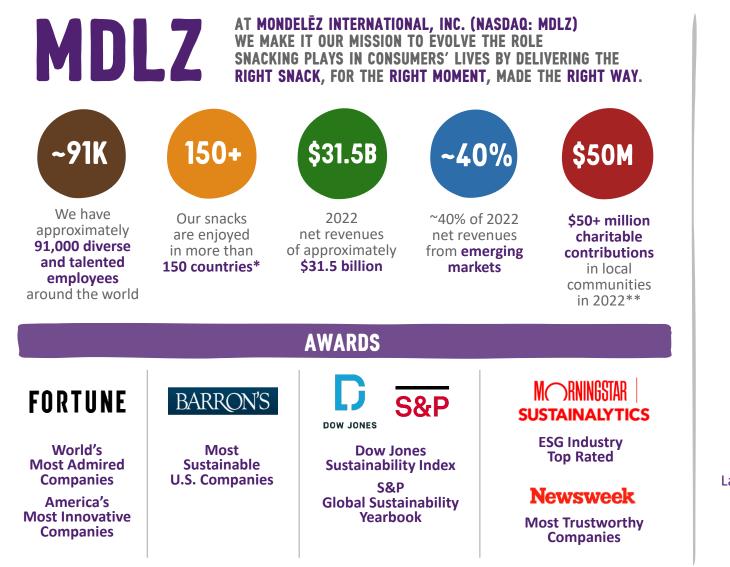
### LITTLE BIT ABOUT MONDELEZ ... WE ARE A GLOBAL SNACKING LEADER!

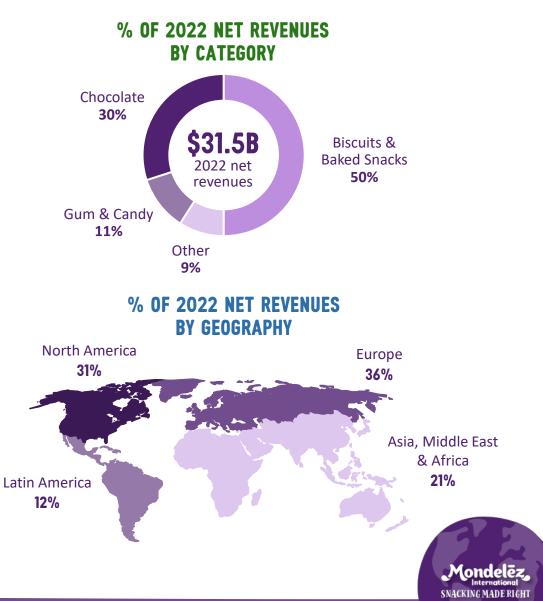


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Source: Euromonitor, Total Global Categories

# A TASTE OF WHO WE ARE





\* 2022 category position. Source: Euromonitor \*\*Includes both cash and product donations

# **POWERFUL PORTFOLIO OF ICONIC AND INSPIRING BRANDS**

WE OFFER A BROAD RANGE OF DELICIOUS, HIGH-QUALITY SNACKS FOR CONSUMERS WHO SEEK BOTH NUTRITION AND INDULGENCE





\*Nielsen Value Sales 2022

# SCALE SUSTAINABLE SNACKING





### DRIVE CHANGE WHERE THE WORLD NEEDS IT MOST









# SCALE SUSTAINABLE SNACKING



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		2022 RESULTS <sup>1</sup>	2025 GOALS
INGREDIENTS	Cocoa volume for Chocolate brands sourced via Cocoa Life	~80% <sup>2</sup>	100%
	Maintain 100% Palm Oil volume RSPO <sup>3</sup> certification	~100%	100%
SOCIAL QQQ	Child Labor Monitoring & Remediation Systems (CLMRS) coverage in Cocoa Life communities in West Africa	~>70%	100%
CLIMATE	CO <sub>2e</sub> emissions reduction from scope 1&2 (vs 2018)	~-23%	<b>NET ZERO</b> BY 2050 <sup>4</sup>
	Reduction in Food Waste in internal manufacturing (vs 2018)	~-26%	-15%
	Reduction in Absolute Water Usage in priority sites (vs 2018)	~-15%	-10%
PACKAGING	Packaging designed to be Recyclable	<b>~96%</b> <sup>5</sup>	100%

1. Preliminary estimated 2022 results [subject to change]; final 2022 results will be published in Snacking Made Right report in Q2

- 2. Mass balance sourcing method
- 3. Roundtable on Sustainable Palm Oil

4. As part of joining SBTi Business Ambition for 1.5°C, we are currently updating our Scope 3 footprint to capture and reflect the impact of our ongoing mitigation strategies

5. Indicator covers Nov '21 to Oct '22 period

# SCALE SUSTAINABLE SNACKING





COCOA IS THE ESSENCE OF OUR CHOCOLATE LOVED BY MILLIONS OF PEOPLE AROUND THE WORLD.

COCOA IS LIFE FOR US, THE FARMERS WHO GROW IT, AND THEIR COMMUNITIES.

OUR COCOA LIFE PROGRAM HOLISTICALLY TACKLES THE COMPLEX CHALLENGES COCOA FARMERS AND THEIR COMMUNITIES FACE, INCLUDING CLIMATE CHANGE, DEFORESTATION, GENDER INEQUALITY, POVERTY AND CHILD LABOR.

COCOA LIFE IS DEDICATED TO MAKING AN IMPACT ACROSS THE COCOA SUPPLY CHAIN, NOT JUST IN FARMING COMMUNITIES, BUT IN THE CHOCOLATE WE ALL ENJOY.









# MONDELEZ BASED IN 7 COCOA ,COUNTRIES, 3 IN AFRICA





#### **COCOA LIFE COUNTRIES**

Cocoa Life runs across seven cocoa-growing countries: Ghana, Côte d'Ivoire, Indonesia, Dominican Republic, India, Brazil, and Nigeria.





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## **COCOA FARMING FACES MANY COMPLEX CHALLENGES**

#### SUSTAINABLE AGRICULTURE - PEOPLE, PROFIT, PLANET 2022-MDLZ-SNACKING-MADE-RIGHT-ESG-REPORT.PDF (MONDELEZINTERNATIONAL.COM)



LOW FARMER Pove INCOMES tech

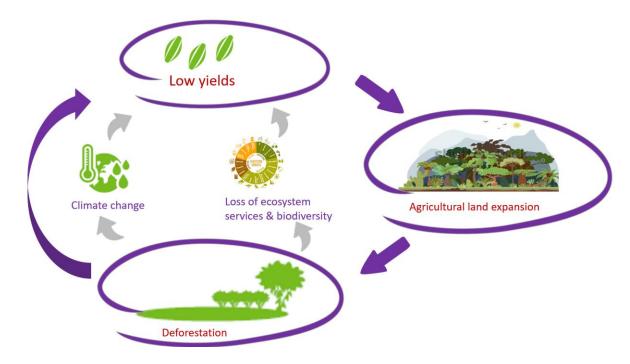
Poverty limits adoption of new technologies.



LOW CROP Yields Other crops have at least doubled yields since 1960s, cocoa yields have barely moved.



**ENVIRONMENTAL** Deforestation & soil degradation.



Vicious cycle of soil degradation, low yields & further extensification/deforestation.

### MONDELEZ R&D PROGRAM TO DELIVER SUSTAINABLE COCOA FARMING

#### **BREEDING & AGRONOMY**

HIGHER YIELDS, LOW CARBON, RESILIENCE

#### **BREEDING SUPERIOR CLONES**

- Improved planting material (yield, resilience, quality)
- → Increased genetic diversity

#### PRECISION AGRONOMY WITH EXISTING & NEW GENETICS

- Improved fertiliser/irrigation/ shade/soil management
- Alternatives to pesticides
  (biopesticides + early warning)
- → Enhanced pollinators on-farm
- → C-sequestration (agroforestry)

#### PATHWAYS TO SUSTAINABILITY

#### HIGH-TECH & MODERNIZED SMALLHOLDER FARM MODELS

**Increase yields** to improve farm income and reduce risks of further land use change & loss natural ecosystems.

**Increased input efficiencies** to reduce waste, costs and GHG emissions.

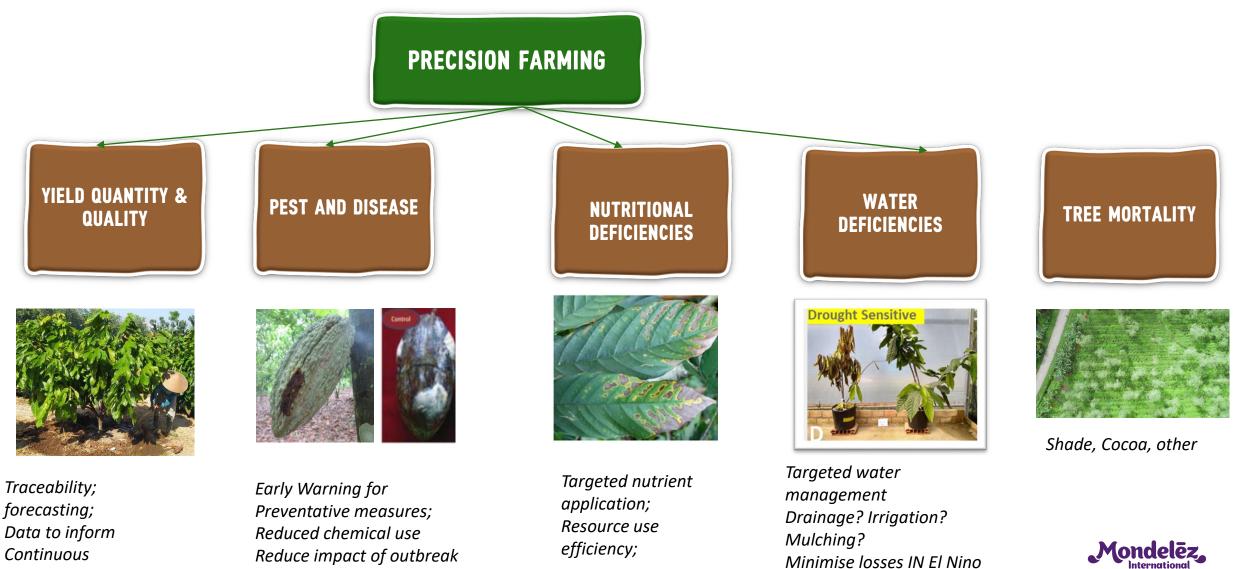
**Cocoa agroforestry** to enhance resilience, diversify farm income and sequester carbon.







### **AFFORDABLE TOOLS TO MONITOR AND CONTROL WILL BE KEY TO SCALING PRECISION FARMING**



Minimise losses IN El Nino

and La Nina years

**SNACKING MADE RIGHT** 

Improvement