

### Company Update

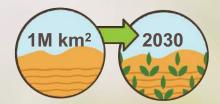
Desert Control AS



Our vision

## MAKING EARTH GREEN AGAIN

to foster the prosperity of life



Cultivate and green 100 Million Hectares of degraded land and desert by 2030



Contribute to sustainable social impact, immense water savings and balance the climate with increased carbon sequestering



Establish a Sub Sahara social impact initiative by 2025 to reduce poverty and hunger

### **Desert Control**



### **Focus**

Climate-smart agriculture technology to combat desertification by regenerating soil ecosystems to solve waterand natural resources scarcity



Combat

12 million hectares of fertile land perish to desertification and droughts annually

#### Agriculture



**Strengthen Food** Security



Less than 60 years left for global agriculture if soil degradation continue at current pace

#### **Trees and forest**



**Reduce Water Scarcity** 



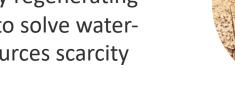
1.8 Billion people will suffer absolute water scarcity by 2025

#### **Green landscapes**



### **Solution**

Liquid Natural Clay (LNC) restores and protects soil, enhances the soil ecosystem, reduces water and fertilizer usage, and increases soil health and plant productivity



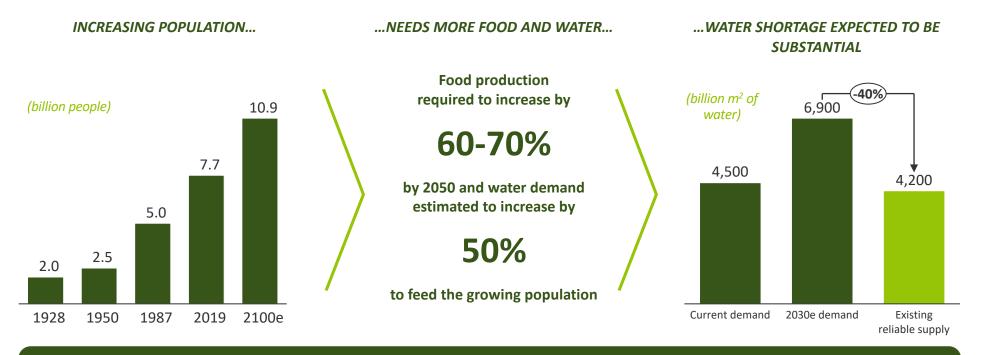


## **Our Purpose**

(Why we do what we do)



# Population growth drives increased demand for food and water



By 2025, 1.8 billion people will experience absolute water scarcity, and 2/3 of the world will be living under water-stressed conditions

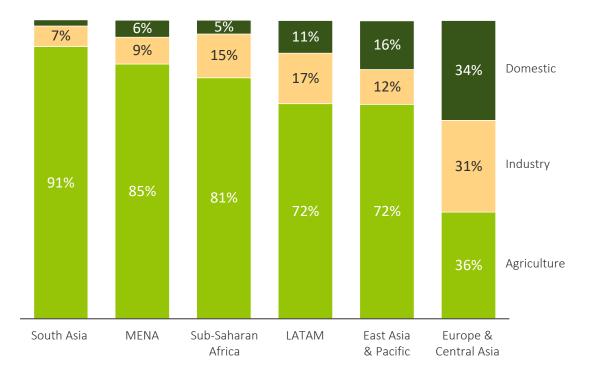


Source: Our World Data; Food and Health Organization; Water 2030 Global Water Supply and Demand model; agricultural production based on IFPRI IMPACT-WATER base case

### Food production depends on water

### > 70% of the freshwater in the world is used for agriculture

#### SHARE OF FRESHWATER WITHDRAWLS BY SECTOR (%)



- The shortfall between demand and supply of water is estimated to be 40% by 2030
- Approx. 1/3 of the population will live in areas where the deficit is >50%
- The agriculture industry represents the single largest consumer of water in the world, accounting for ~70% of water withdrawals
  - Water challenges are therefore closely tied to food provisions and trade

#### Current approaches in agriculture yield low water efficiency

### The United Nations declares desertification the greatest environmental threat of our time

### 110

Countries exposed to desertification and land degradation

### **1.3Bn**

People trapped on degrading agricultural land

#### **12m** Hectares of productive

land turns barren every year

\$490Bn annual cost world-wide

20% Of Earths drylands degraded **52%** Of agricultural land

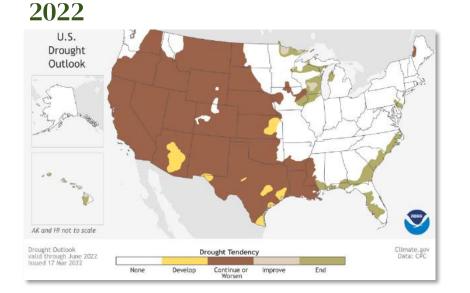
affected by soil

degradation

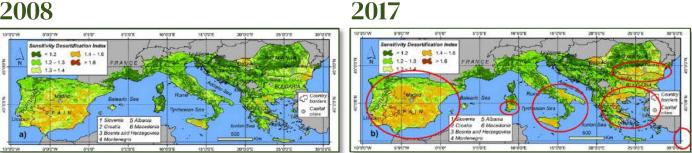
### <60 years

Farming left at the current pace of degradation

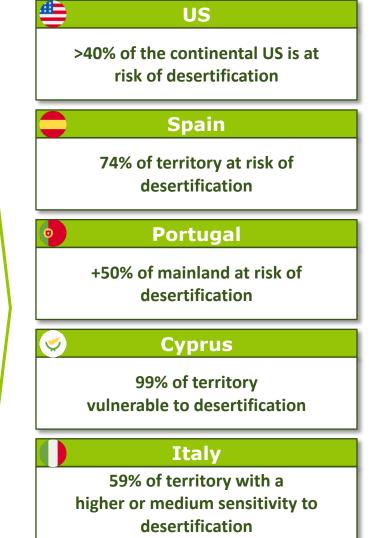
### **Desertification and soil degradation** is not limited to desert regions



#### 2008

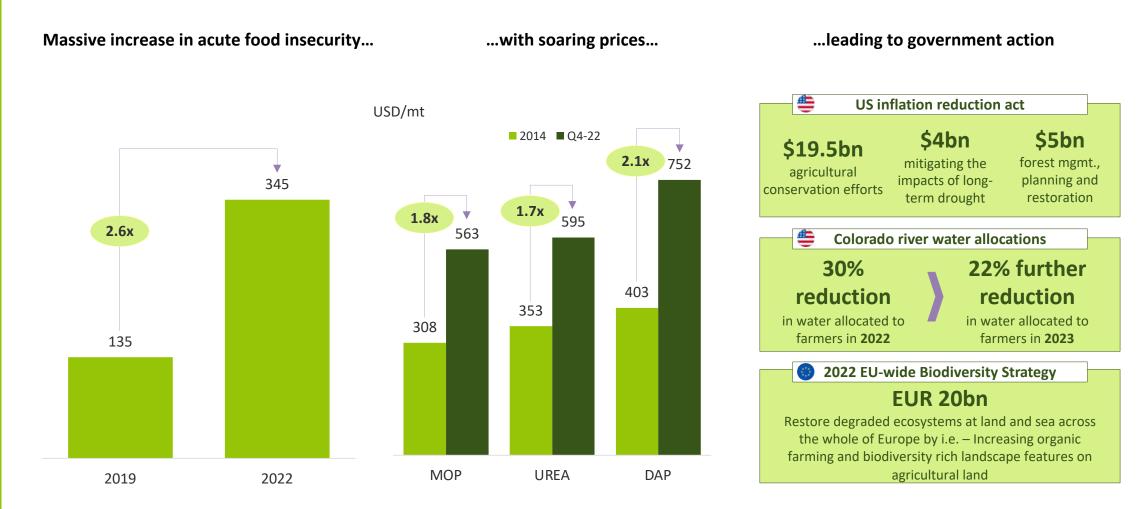






### The need for LNC has never been higher

(2022 has seen accelerated food shortages & focus on supply chains and sourcing)



### **Our Solution**

(Innovation and Technology)



### **Desert Control's LNC is part of the solution**

Enhances soil ecosystems and increases water-holding capacity of sandy and arid soil – reduces water and fertilizer usage and improves soil health

#### **1. UNIQUE FORMULATION PROCESS**

Clay and natural minerals are formulated into a liquid compound (thin as water) by unique nano-processing

#### 2. APPLY

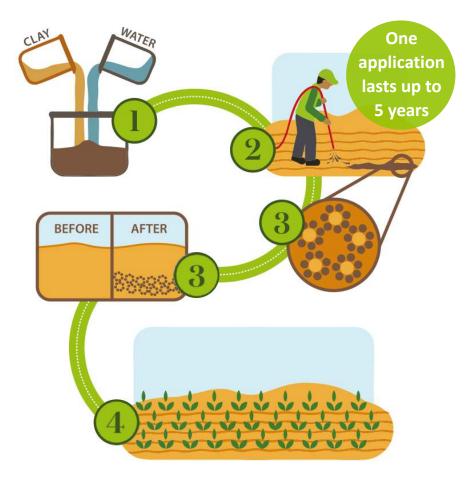
The liquid is applied directly to sand or degraded soil by spraying or using traditional irrigation techniques

#### 3. EFFECT

The liquid bonds with sand particles forming a soil structure that retains water and nutrients like a sponge

#### 4. RESULT

- Fostering a resilient and regenerative soil ecosystem
- Reducing water and fertilizer usage by 20-50%
- Empowering biodiversity and plant productivity
- Enhancing carbon sequestration and storage



### The problem LNC targets to solve

< 15% of irrigation water is retained in the topsoil for plants to utilize



Most of the water is lost to deep drainage that causes wash-out of fertilizers (leaching), loss of other inputs, organic matter and biodiversity



Increased use of water requires more energy (pumps, irrigation, desalinization, drainage systems, water treatment facilities, etc.)



Excessive irrigation accelerates soil salinization

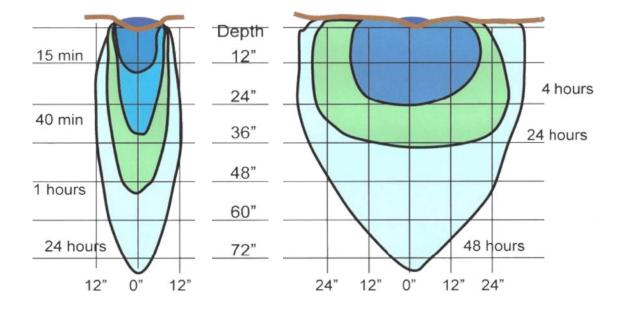
In sum, these factors deteriorate soil health, yield efficiency, and the land's resilience towards droughts and climate change

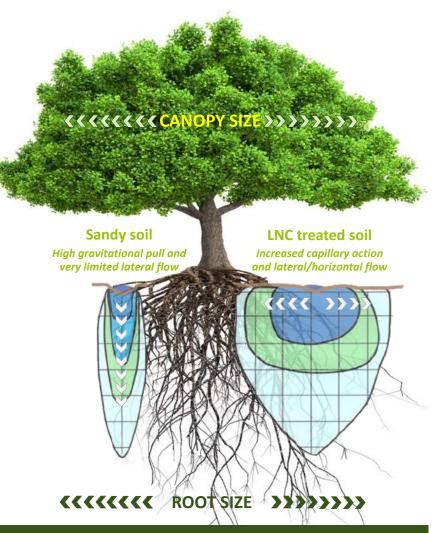


Sandy soil

### LNC treated sandy soil behaves more like a clay-rich fertile soil

Large particle sizes, small surface area, large pore space *High gravitational pull*  Small particle sizes, large surface area, small pore space *Capillary action* 





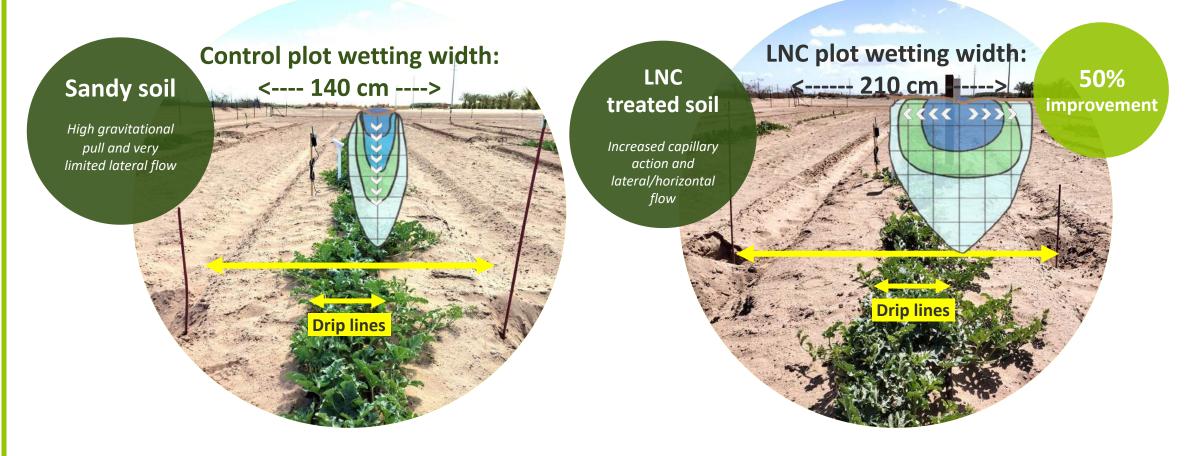
LNC enhances the soil ecosystem by positively impacting capillary action, reducing gravitational pull of water through the topsoil, facilitating lateral flow, and increasing soil water holding capacity

### **Increased lateral flow**

(LNC validation study at the University of Arizona)

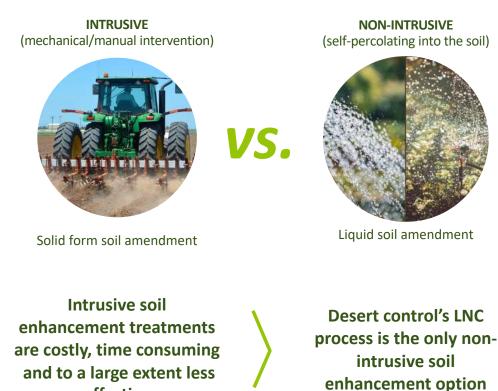






LNC facilities up to 50% wider movement of the water in the topsoil (measured from drip point)

**Conventional methods for soil enhancement are intrusive, time consuming and costly** 



effective

enabled by digital services platform

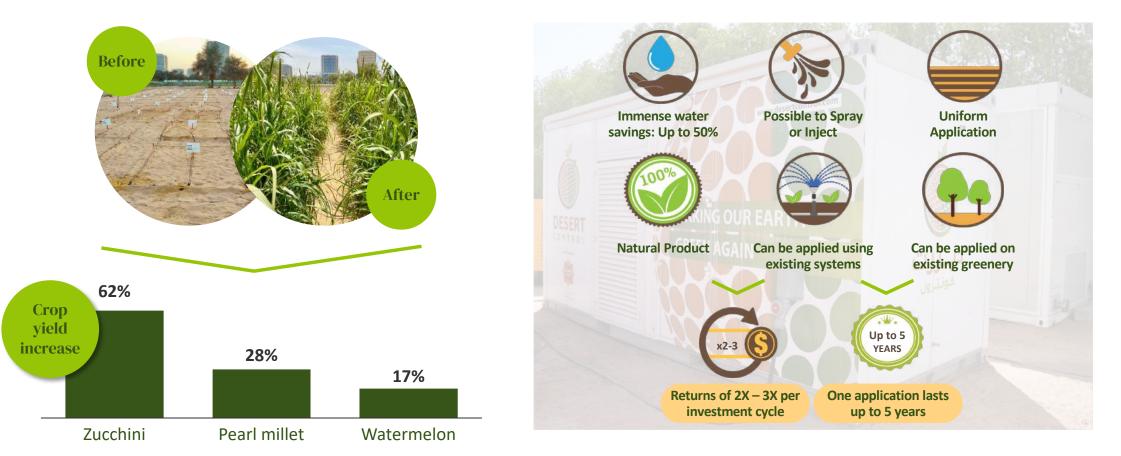


Impact measurement and transparency

### With proven, measurable benefits

#### **UAE desert example**

#### **Other benefits**



20-50% water and fertilizer savings, increased yields and organic matter, reduced salinity & improved overall soil health

### **Benefits of soil ecosystem enhancement**

LNC changes the ecosystem of sandy soils to behave like clay-rich fertile soil



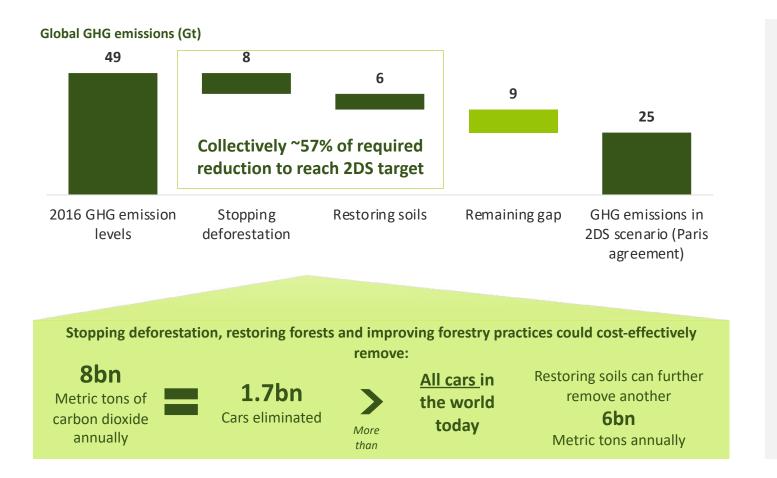
Up to 50% water and fertilizer savings

Increased yield and better crop quality

Lower labor and maintenance costs

Lower energy costs and carbon footprint

Triple bottom line opportunity



#### ADDRESSING MULTIPLE KEY UN SUSTAINABLE DEVELOPMENT GOALS



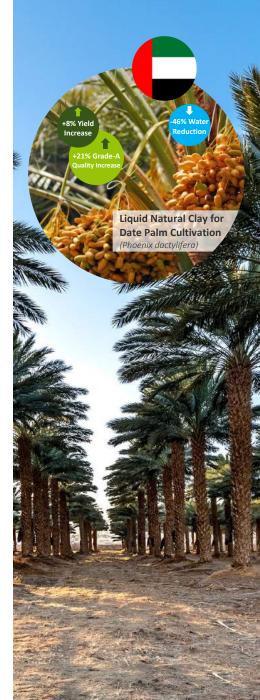


### **Results and impact of LNC**

#### SAMPLE OF REFERENCE RESULTS FROM THE UAE

CROPS/VEGETATION	WATER SAVINGS	SEGMENT	LOCATION
Pearl Millet, Zucchini and Watermelon	40%	Agriculture	ICBA* in Dubai (Independent validation)
Carrots, Cauliflower, Green Pepper and Lady Fingers	40%	Agriculture	Private farm in Al Ain, Abu Dhabi
Cucumber, Basil, and Beetroot (Greenhouse)	46%	Agriculture	Research farm in Al Ain, Abu Dhabi
Sweet Corn	35%	Agriculture	Private farm in Dubai
Date Palms (1st harvest: Increase of 8% on yield and 21% for grade A)	46%	Agriculture	Mawarid Project – Al Ain, Abu Dhabi
Fruit Trees (Pomegranate, Guava, Rose apples, Mango, Citrus, ++)	50%	Agriculture	Fruit farm – Jabal Hafeeet
Date Palms	50%	Agriculture	Private farm – Al Ain, Abu Dhabi
Salvadora, Ghaf, and Ziziphus (Native forest trees)	51%	Forest/trees	Forest in Al Khazna, Abu Dhabi
Salvadora (Native forest trees irrigated with saline treated water)	57%	Forest/trees	Forest in Al Faya, Abu Dhabi
Ghaf (New plantation – first 4 months)	35%	Forest/trees	Forest in Sweihan, Abu Dhabi
Bermuda Grass	47%	Landscaping	ICBA* in Dubai (Independent validation)
Palm Trees	50%	Landscaping	Luxury residential resort in Dubai
Paspalum Grass	40%	Landscaping	Luxury residential resort in Dubai
Paspalum Grass & Decorative trees	40%	Landscaping	In5 Tech (Tecom) – Dubai
Mixed native groundcover & trees	50%	Landscaping	Sports park – Abu Dhabi
Lawn Area	35%	Landscaping	VIP area in Abu Dhabi
Turf Grass / Lawn Area	36%	Landscaping	Public park in Abu Dhabi





### Agenda / Q3 2022

Q3 2022 REPORT AND FINANCIAL RESULTS / COMPANY PRESENTATION



### **Q3 and Year-to-Date Highlights**







#### GAIN ACCELERATED COMMERCIALIZATION IN THE UNITED STATES

- Progressing ahead of initial expectations
- Limoneira Company
- Strengthening the team
- Positive results with the University of Arizona
- Establishing office in Yuma

REACH LARGE-SCALE ADOPTION OF LNC IN THE MIDDLE EAST

- Operationalizing the Mawarid partnership
- Restructuring Desert Control Middle East
- Starting commercial traction
- Exceptional date palm results

O BTAIN A STRATEGIC POSITION TO GROW INTO SOUTHERN EUROPE

Entered into MoU with
 Amarenco Group

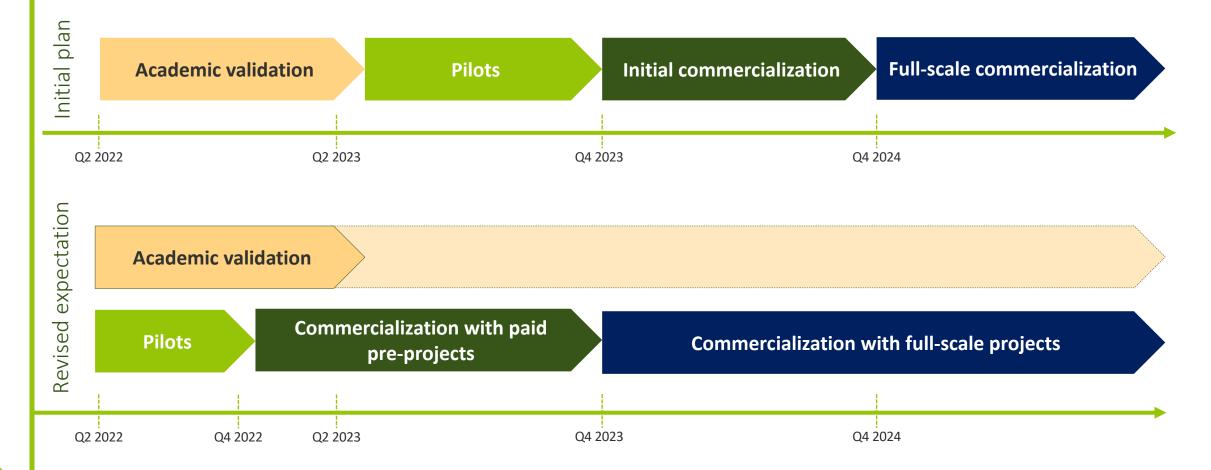


#### ATERPROOF THE FOUNDATION FOR GLOBAL SCALE-UP

- Increased efficiency with lower operational costs
- Strengthened management
- Agility and scale-on-demand

### Progressing ahead of expectations in the United States





# **G**ain accelerated commercialization in the United States



#### COMMERCIALIZE

Strategic contract with Limoneira Company for commercial pre-projects

### FOUNDATION

Strengthening the team to accelerate commercialization

### VALIDATION

Expanding the validation program with additional crops







### Limoneira Company

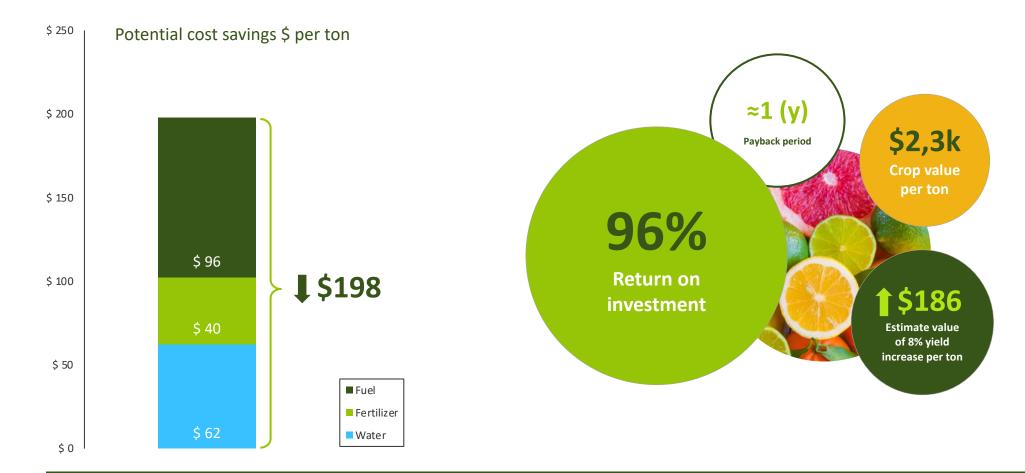




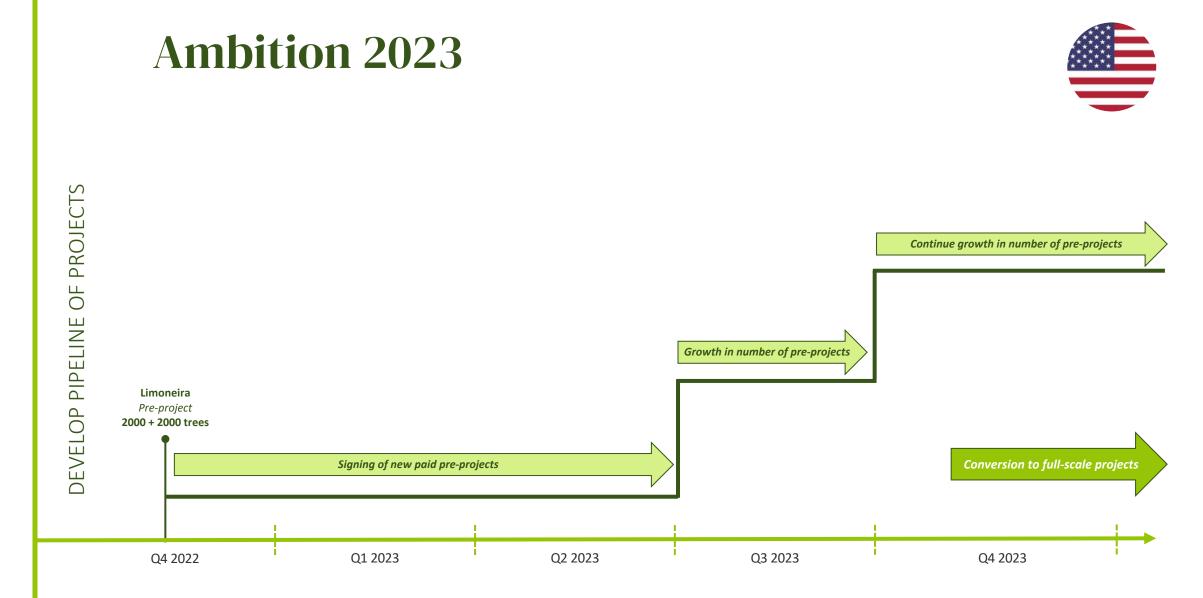
Aims to demonstrate the capabilities of LNC to meet Limoneira's sustainability objective of reducing fertilizer usage and improving energy and water use efficiency in water-scarce areas

### **Business case – citrus scenario**

(Based on findings from pilots)



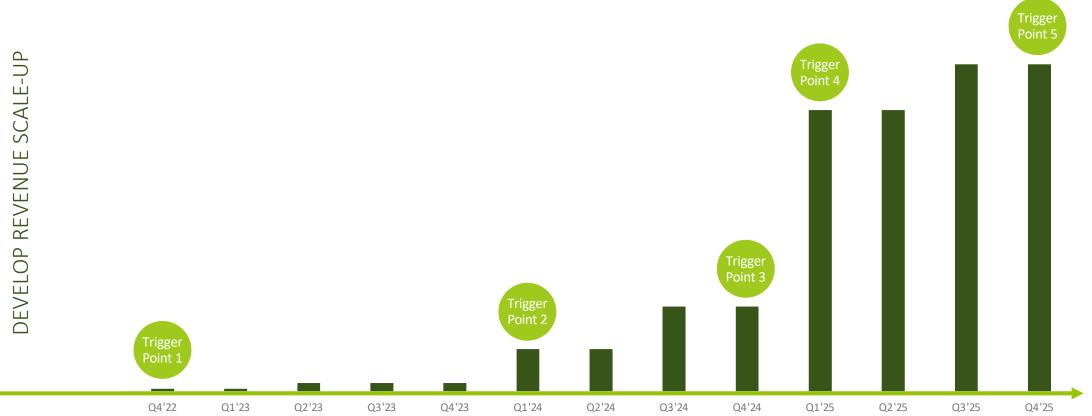
ROI is based on water, fertilizer, fuel/energy savings (40% reduction) and 8% yield increase - Additional value potential from fruit quality, crop resilience and sustainability -





### **U.S.** Ambition 2023 – 2025

Trigger points = success achieved (backward-looking destination statements)



# **R**each large-scale adoption of LNC in the Middle East

#### **STREAMLINE**

Operationalizing Mawarid Desert Control and restructuring Desert Control Middle East



### COMMERCIALIZE

Starting to gain traction with MDC strategic commercial pre-projects



### COMMUNICATE

Exceptional impact for LNC on date palms



### **Business case – date cultivation scenario**

(Based on findings from pilots)



ROI is based strictly on water savings (simulated at 46% reduction) — Additional value from reduced usage of fertilizers and increased yield gives < 1-year payback –

### **Business case – landscape scenario**

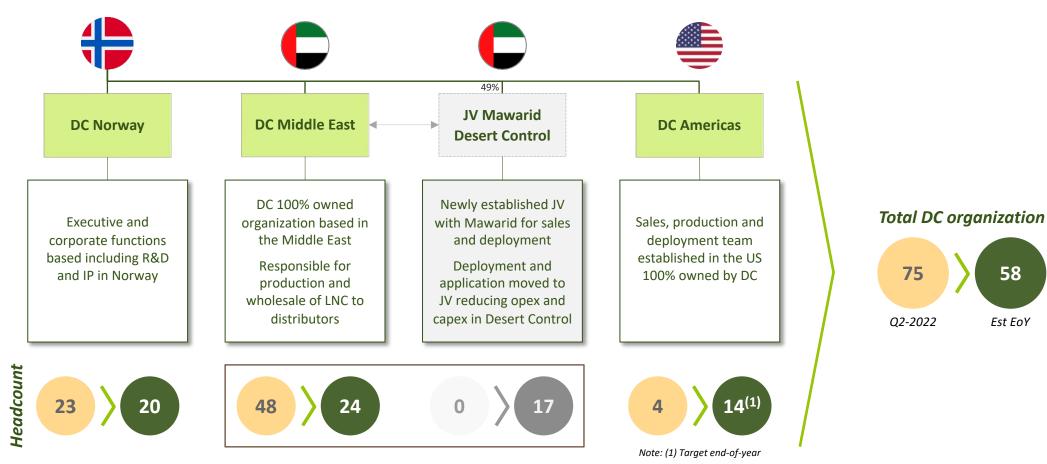
#### (Based on findings from pilots)



ROI is based strictly on water savings (simulated at 47% reduction) – Additional value potential from reduced fertilizer and energy usage –

### **Streamlined organization**

#### New organizational structure with optimized operational costs



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Desert Control will support Amarenco in its initiatives to offset its energy production facilities by investing in biodiversity protection and soil regeneration

# Waterproof the foundation for global scale-up

### **EFFICIENCY**

Increased efficiency with lower operational costs

### **LEADERSHIP**

Strengthened management team prepares us for future growth

### SCALE ON DEMAND

Allows for linking investments to signed customer agreements







### Agenda / Q3 2022

Q3 2022 REPORT AND FINANCIAL RESULTS / COMPANY PRESENTATION



### Financial key figures

#### THIRD QUARTER 2022 [third quarter 2021 in brackets]

- Revenue NOK 0.1M [NOK 2.3M]
- EBITDA NOK -21.6M [NOK -7.8M]
- Profit or loss for the year NOK -14.7M [NOK -8.5M] •
- Gross R&D expenses NOK 0.1M [NOK 3.4M]

#### **FIRST NINE MONTHS 2022** [first nine months 2021 in brackets]

- Revenue NOK 1.2M [NOK 2.3M]
- EBITDA NOK -64.7M [NOK -20.5M]
  - Profit or loss for the year NOK -55.2M [NOK -

21.2M]

- Gross R&D expenses NOK 2.6M [NOK 3.4M]
- Innovation Norway / grants NOK 2.9M [NOK 1M]



- Total cash balance 30.09.22 (bank deposits and funds) NOK 100.4M [NOK 191.2M]
- Equity 30.09.22 NOK 133.3M (equity ratio 94.2%) [NOK 202.8 (94.7%)]

## Consolidated statement of comprehensive income

		Quarters		First nine months (YTD)		Full Year	
(Amounts in NOK thousand)	Notes	Q3 2022	Q3 2021	2022	2021	2021	
Revenue from sales	2.1	129	2 277	1 182	2 277	3 127	
Other income		-	-	-	-	-	
Total income		129	2 277	1 182	2 277	3 127	
Cost of goods sold (COGS)		616	325	2 358	519	563	
Gross margin		-487	1 952	-1 177	1 758	2 564	
Salary and employee benefit expenses		13 941	5 075	44 104	9 655	14 993	
Other operating expenses		7 193	4 741	19 444	12 563	18 662	
Depreciation and amortisation		1 707	-212	4 294	229	1 544	
Impairment		-	-	-	-	658	
Operating profit or loss		-23 328	-7 652	-69 018	-20 688	-33 293	
Finance income		8 635	-899	14 415	-527	1 730	
Finance costs		33	3	620	28	179	
Profit or loss before tax		-14 725	-8 555	-55 223	-21 243	-31 743	
Income tax expense		-	-	_	-	-	
Profit or loss for the year		-14 725	-8 555	-55 223	-21 243	- 31 743	

. .

## **Consolidated statement of financial position**

(Amounts in NOK thousand)	Notes	30.09.2022	30.09.2021	31.12.2021
ASSETS				
Non-current assets				
Goodwill		8 032	6 504	6 504
Research and development		-	-	-
Property, plant and equipment		24 345	2 482	10 525
Investment in subsidiaries		-	-	-
Right-of-use assets		1 240	2 324	2 006
Deferred tax assets		-	-	-
Total non-current assets		33 616	11 309	19 036
Current assets				
Inventory		99	-	-
Accounts receivable		127	771	544
Other receivables		7 228	10 884	5 597
Intercompany receivables		-	-	-
Other current financial assets		40 943	90 000	77 347
Cash and cash equivalents	4.5	59 453	101 173	101 924
Total current assets		107 850	202 828	185 412
TOTAL ASSETS		141 466	214 137	204 447

## **Consolidated statement of financial position (continue)**

(Amounts in NOK thousand) Note:	30.09.2022	30.09.2021	31.12.2021
EQUITY AND LIABILITIES	-	-	-
Equity	-	() <del>4</del> (	4
Share capital	123	122	122
Share premium	230 849	230 849	230 849
Currency translation differences	-6 052	384	-107
Retained earnings	-91 658	-28 523	-36 592
Total equity	133 263	202 832	194 272
Non-current liabilities			-
Non-current lease liabilities	. – .	521	1 423
Deferred tax liabilities	-	-	
Non-current provisions	-	-	-
Total non-current liabilities		521	1 423
Current liabilities			-
Current lease liabilities	648	1 402	528
Trade and other payables	4 597	223	2 523
Intercompany payables	-	-	-
Public duties payable	-209	347	1 023
Other current liabilities	3 167	1 323	1 497
Contract liabilities	-	7 488	3 181
Total current liabilities	<mark>8 203</mark>	10 784	8 751
	-	194	-
Total liabilities	8 203	11 305	10 175
TOTAL EQUITY AND LIABILITIES	141 466	214 137	204 447

## **Consolidated statement of cash flows**

(Amounts in NOK thousand, unaudited)		Qua	rters I	First nine r	nonths	Full Year
Cash flows from operating activities	Notes	Q3 2022	Q3 2021	2022	2021	2021
Profit or loss before tax		-14 725	-8 555	-55 223	-21 243	-31 743
Adjustments to reconcile profit before tax to net cash flows:						
Net financial income/expense		-8 603	902	-13 795	555	-1 550
Depreciation and amortisation		1 707	-212	4 294	229	1 544
Impairment		-	-		-	658
Share-based payment expense		33	139	157	672	811
Working capital adjustments: Changes in accounts receivable and other receivables		1 241	-1 272	-1 313	-9 653	-4 139
Changes in trade payables, duties and social security payables		-552	-211	842	-683	2 292
Changes in other current liabilities and contract liabilities		-546	-270	-872	6 714	2 579
Net cash flows from operating activities		-21 445	-9 479	-65 909	-23 410	-29 547
Cash flows from investing activities						
Purchase of property, plant and equipment		-2 643	-2 828	-13 798	-3 242	-10 632
Purchase of financial instruments		247	-	36 744	-90 000	-77 009
Proceeds from sale of property, plant and equipment		890	-	890	-	300
Interest received		594	295	594	295	462
Net cash flow from investing activities		-912	-2 534	24 430	-92 948	-86 879

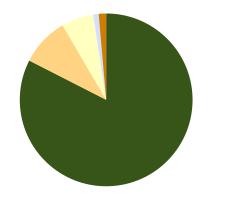
# Consolidated statement of cash flows (continue)

			rters F	First nine months		Full Year	
Cash flow from financing activities	Notes	Q3 2022	Q3 2021	2022	2021	2021	
Proceeds from issuance of equity	3	÷		1	200 000	200 000	
Transaction costs on issue of shares	3	-	-		-10 093	-10 093	
Lease payments		-824	-727	-1 551	-1 087	-1 098	
Interest paid		3	-3	-232	-28	462	
Net cash flows from financing activities		-821	-730	-1 782	188 792	189 271	
Net increase/(decrease) in cash and cash equivalents		-23 178	-12 743	- <mark>4</mark> 3 261	72 435	72 845	
Cash and cash equivalents at beginning of the year/period	4	82 023	114 551	101 923	28 935	28 935	
Net foreign exchange difference		608	-636	790	-197	144	
Cash and cash equivalents, end of period		59 453	101 173	59 453	101 173	101 923	

## The DSRT share



#### **ORIGIN OF SHAREHOLDERS**



#### THE GROUP'S SHAREHOLDERS:

areholders in Desert Control AS at 30.09.2022	Total shares	Ownership/ Voting rights
Olesen Consult HVAC AS	5 900 000	14,4 %
J.P. Morgan SE	2 481 900	6,0 %
Ole Morten Olesen	1 650 000	4,0 %
Nordnet Livsforsikring AS	1 463 587	3,6 %
Lithinon AS	1 423 706	3,5 %
Idland	1 406 580	3,4 %
JPMorgan Chase Bank, N.A., London	1 380 432	3,4 %
Nesse & Co AS	1 360 000	3,3 %
Beyond Centauri AS	1 243 371	3,0 %
LIN AS	1 215 275	3,0 %
Monsunen Forvaltning AS	1 146 158	2,8 %
DNB BANK ASA	1 007 574	2,5 %
Jakob Hatteland Holding AS	1 000 000	2,4 %
Clearstream Banking S.A.	958 819	2,3 %
The Northern Trust Comp, London Br	958 275	2,3 %
Investore Finans AS	883 147	2,1 %
OKS Consulting AS	805 000	2,0 %
Sortun Invest AS	677 715	1,6 %
Glomar AS	627 715	1,5 %
Others	7 527 678	18,3 %
otalt	41 099 680	100%

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## Outlook







#### GAIN ACCELERATED COMMERCIALIZATION IN THE UNITED STATES

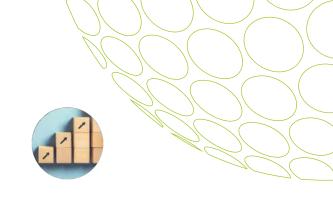
- Hire Managing Director for Desert Control Americas
- Onboarding of sales team
- Successful pre-projects with Limoneira Company
- Develop the pipeline to secure additional preprojects with new clients

#### REACH LARGE-SCALE ADOPTION OF LNC IN THE MIDDLE EAST

- Fully implement go-tomarket channel model
- Ensure MDC sales
  effectiveness
- Successful MDC pre-project
- Support development of MDC pipeline
- Strategic positioning of LNC (government opportunities)

#### O BTAIN A STRATEGIC POSITION TO GROW INTO SOUTHERN EUROPE

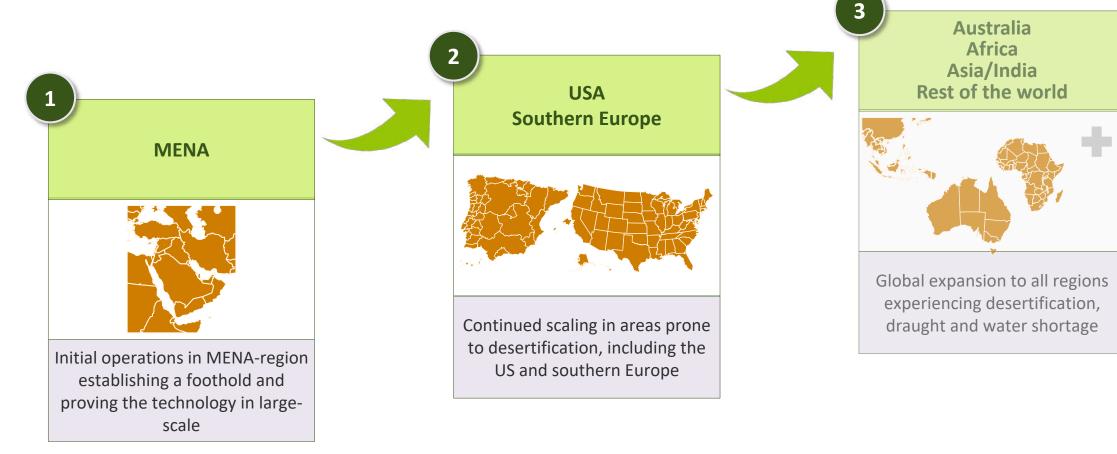
 Prepare the next stage for the Amarenco Group MoU (anticipated H1-2023)



#### ATERPROOF THE FOUNDATION FOR GLOBAL SCALE-UP

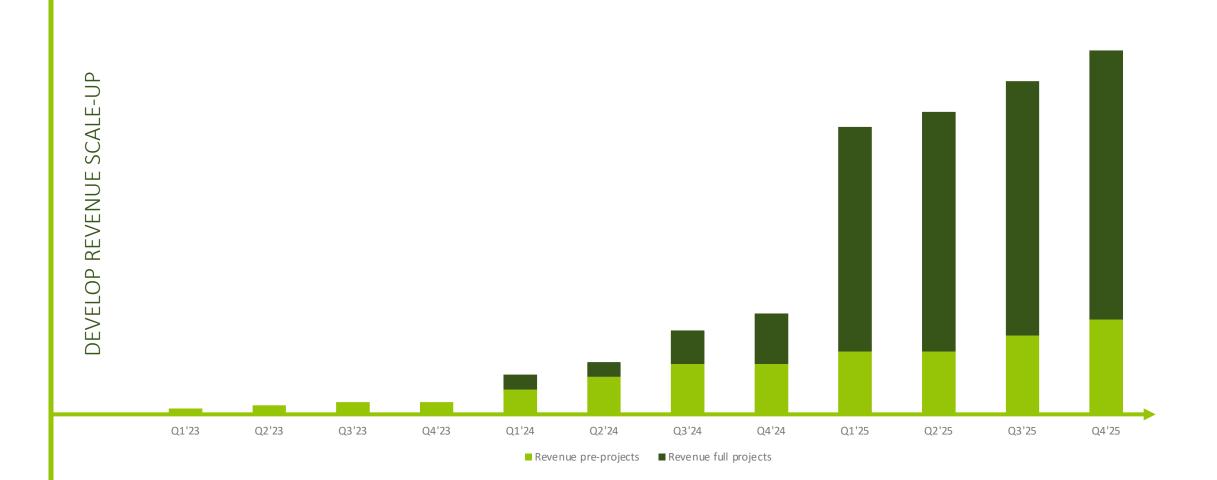
- Ensure effective agile and scalable organization
- Continue dedication to the scale-on-demand model

# Targeting a global market with numerous opportunities



#### 110 countries are already exposed to desertification and land degradation

## Ambition 2023 – 2025



## Milestones and targets on the journey towards meeting global demand

#### 2023:

soil<sup>(1)</sup>

of treated

Hectare equivalents

- Middle East: Launch first large-scale projects •
- **USA:** Execute multiple strategic pre-projects •
- *Europe:* Start the SPA Echo-Pledge program with Amarenco •

#### 2025:

- *Middle East:* Secure contracts for large-scale reforestation projects
- Americas: Convert increasing number of pre-projects to large-scale projects and significantly increase the number of new strategic paid pre-projects

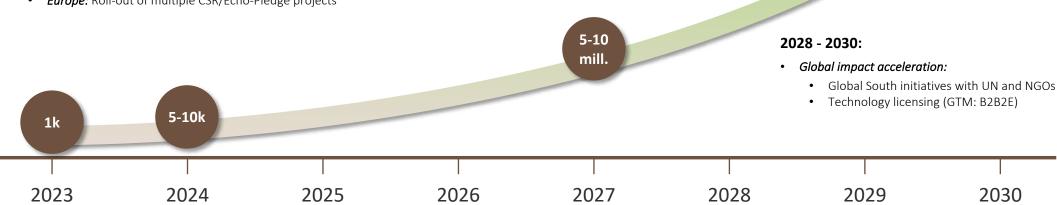
50-100

mill.

- *Europe:* LNC achieving EU recommended status
- Sub-Sahara: Market entry through social impact initiative

#### 2024:

- Middle East: Launch first large-scale forestry projects •
- Americas: Convert pre-projects to large-scale projects and increase the number of new strategic paid pre-projects
- *Europe:* Roll-out of multiple CSR/Echo-Pledge projects •



Note that strategic road map as illustrated will require additional growth capital Note: 1) Hectare equivalents estimated based on blended average of 30 liters/m2 (Landscape 20 I/m2, Aari 40 I/m2, Trees 300 I/#)



#### Next growth stage



#### Business to Business to Everyone

Expansion to include indirect sales channels to consumer markets

Long-term opportunity

## **Cautionary note**

#### DISCLAIMER RELATED TO FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking information and statements relating to the business, performance, and items that may be interpreted to impact the results of Desert Control and/or the industry and markets in which Desert Control operates.

Forward-looking statements are statements that are not historical facts and may be identified by words such as "aims", "anticipates", "believes", "estimates", "expects", "foresees", "intends", "plans", "predicts", "projects", "targets", and similar expressions. Such forward-looking statements are based on current expectations, estimates, and projections, reflect current views concerning future events, and are subject to risks, uncertainties, and assumptions, and may be subject to change without notice. Forward-looking statements are not guaranteeing any future performance, and risks, uncertainties, and other important factors could cause the actual business, performance, results, or the industry and markets in which Desert Control operates in, to differ materially from the statements expressed or implied in this presentation by such forwardlooking statements.

No representation is made that any of these forward-looking statements or forecasts will come to pass or that any forecasted performance, capacities, or results will be achieved, and you are cautioned not to place any undue reliance on any forward-looking statements.

#### Q3 2022 Report

The information enclosed is subject to the disclosure requirements pursuant to sections 5-12 in the Norwegian Securities Trading Act.

# Agenda / Q3 2022

Q3 2022 REPORT AND FINANCIAL RESULTS / COMPANY PRESENTATION



## Thank you for your attention!



## **Our core values**

## Leadership

Inspirational pro-active execution

## **Growth-mindset**

Curious and solution-oriented

## Innovation

Challenge status-quo | create value

Integrity

Keep promises | grow strong relationships

## Contribution

Desire to make everything better

Diversity

Inclusive | open-minded | respectful



## Appendix DESERT CONTROL COMPANY PRESENTATION

## About Desert Control

Desert Control is a company specialized in climate-smart agri-tech solutions to combat desertification by regenerating soil ecosystems to solve water- and natural resources scarcity.

Its patented Liquid Natural Clay (LNC) restores and protects soil, enhances the soil ecosystem, reduces water and fertilizer usage, and increases soil health and plant productivity for agriculture, trees and forests, and green landscapes.

Desert Control AS is a private limited liability company incorporated under the laws of Norway. The Group has active subsidiaries in the United Arab Emirates (Abu Dhabi and Dubai), and in the United States (California and Arizona).





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## Service delivery with on-site LNC production

Allows tailoring LNC formulation to meet the specific requirements of each location – minimizes environmental footprint (avoid transportation of liquid)





Liquid Natural Clay (LNC) also referred to as Liquid Nano Clay is produced on-site at client locations using mobile processing units (20-foot containers as seen above)

## Vision and mission

Why



Making earth green again to foster the prosperity of life

- We aim to reclaim 100 million hectares of degraded land and desert by 2030
- We strive to create sustainable social impact, immense water savings, global food security, and regeneration of ecosystems to sequester carbon and balance our climate
- We aim to establish a Sub Shahara social impact initiative by 2025 to reduce poverty and hunger

We combat desertification, land degradation, and water scarcity by;

- Restoring, protecting and improving vital topsoil for sandy soil environments
- Reduce the consumption of water, fertilizers and natural resources
- Fostering prosperity for agriculture, forests, and green landscapes

Desert Control is a company specialized in climate-smart agri-tech solutions to combat desertification by regenerating soil ecosystems to solve water- and natural resources scarcity.

What

Liquid Natural Clay (LNC) restores and protects soil, enhances the soil ecosystem, reduces water and fertilizer usage by up to 50% while improving soil health and increasing plant productivity for agriculture, trees and forests, and green landscapes.

Water, food, and a stable climate is the pathway to peace and prosperity for people and planet.

Desertification, loss of fertile soil, and growing water scarcity threaten all life on earth, further accelerated by climate change and overexploitation of natural resources.

From sand to soil in 7 hours.

## **Our strategic principles**

## **Think Big:**

Everything we do must connect to a bigger picture and ultimately to our vision of making earth green again.

## **Start Small:**

With the big picture (destination) in mind, we start small with laser focus and avoid spreading our resources too thin. Our business plan starts with a 2 + 2 strategy, focusing first on two segments and two countries; agriculture and landscaping in the United Arab Emirates and the United States, to ensure a successful foundation before expanding.

## Act Fast:

Everything we do is with a sense of urgency. Once we reach our ambition, we level up quickly. With a good foundation for 2 + 2, we move on to always accelerating with strong resolve.

# Design to scale exponentially:

Everything we do must be scalable. The positive impact of our innovation must grow at an increasingly rapid rate in proportion to time. Climate change is a battle against time. With less than 60 years left before we run out of fertile topsoil, the only way to succeed is by solutions that can scale exponentially.

## Keep it simple:

Keeping it simple is vital to achieving exponential scalability. In everything we do, we prepare for the future without "over-engineering" by the principle of simplicity. We constantly consider what happens if we multiply what we do today by thousands. By always preparing for the impact of growth, we cost-effectively design for efficiency at scale.



## 2025 Ambition (GROW)







#### GAIN LARGE-SCALE ADOPTION OF LNC IN THE UNITED STATES

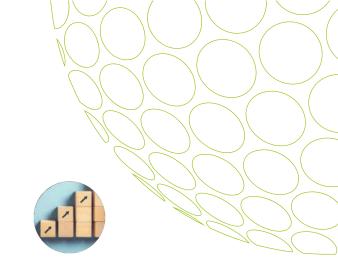
- LNC is recognized as the leading solution to achieve continued prosperity for permanent crops in sandy soil environments in the U.S.
- LNC adoption qualifies for federal government (USDA) and state-level support (funding/rebate/incentives)

#### REACH LARGE-SCALE ADOPTION OF LNC IN THE MIDDLE EAST

- LNC is listed among the requirements for soil treatment projects by key authorities (government)
- LNC recognized as GCC agriand afforestation enabler

#### BTAIN A STRATEGIC POSITION IN SOUTHERN EUROPE

- Successful partnership with Amarenco becomes a best-practice CSR model
- LNC become listed among the requirements for EU soil regeneration projects adopted by EU countries



#### ATERPROOVEN FOUNDATION FOR GLOBAL SCALE-UP

- Demonstrated outstanding agility (scale-on-demand)
- Proven excellent execution (effective processes, aligned technology readiness levels and high performance towards cascaded goals)
- Strengthened scalability by "Learning Organization"

## **ESG and impact**

#### IMPACT ON EXTERNAL ENVIRONMENT AND SUSTAINABILITY

Liquid Natural Clay (LNC) can reduce water consumption for agriculture, forests, and green landscapes by up to 50%. The amount of water required to produce LNC is recovered within 2-3 weeks (offset by irrigation water savings). Improved water efficiency and increased crop yields contribute significantly to the United Nations Sustainable Development Goals (SDGs), including reducing hunger and securing access to clean water. Arid regions using energy-intensive desalination of seawater can further significantly reduce CO2 and greenhouse gas (GHG) emissions.

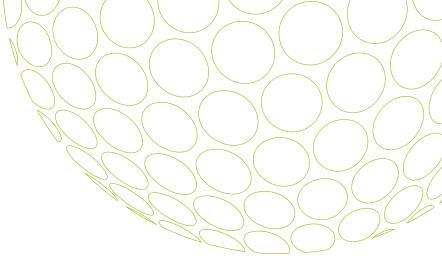
LNC enables sandy soil and desert land to retain water and nutrients. Reduction of water consumption further allows for reducing fertilizer usage. Reduced leaching of fertilizers and pesticides through the soil can further minimize the risk of chemical run-off reaching through to natural water systems and oceans. Stopping fertilizer and pesticide leaching can further improve life below the water by reducing ocean acidification and eutrophication.

According to the Intergovernmental Panel on Climate Change (IPCC), restoring degraded soil ecosystems can globally offset 5-6 Gt of CO2 annually. Even degraded soils have degrees of stored carbon. When tilling or mechanically working amendments into the ground, carbon exposed to oxygen may turn into CO2 and escape into the atmosphere. LNC can be applied directly to the surface of the ground without intervention to the soil. LNC percolates into the ground in a non-intrusive way without exposing any carbon to surface air oxygen; safeguarding the carbon storage of soil ecosystems and fostering increased carbon sequestration.

Non-intrusive soil treatment is further gentle to fragile soil-ecosystems, which is the home of 95% of all biological species on earth. Reclaiming and protecting soil is therefore critical to preserve and restore essential biodiversity.

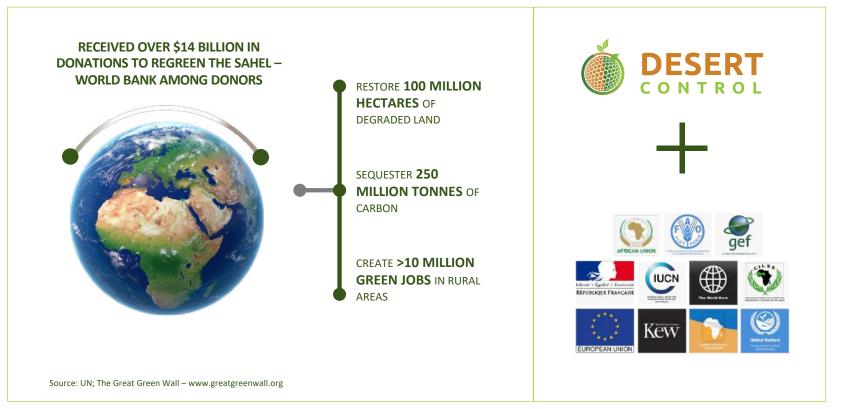
Mining clay and the production of LNC requires energy. Logistics and transportation of material, equipment, and personnel, and manufacturing of equipment also require energy. Desert Control strives to reduce energy consumption in all stages of the process and facilitate the use of renewable energy sources wherever available. These negative impact factors are, by far, surpassed by the sum of positive impact from stopping and reversing desertification and soil degradation, reducing water consumption, and other environmental benefits.

LNC has no adverse impact on any of the 17 United Nations Sustainable Development Goals (SDGs). Further, LNC has a significant direct positive impact on 9 of the SDGs.



# LNC identified as a potential impact solution by the United Nations

THE GREATEST CHALLENGE OF OUR TIME: THE GREAT GREEN WALL



# **Impact of innovation**

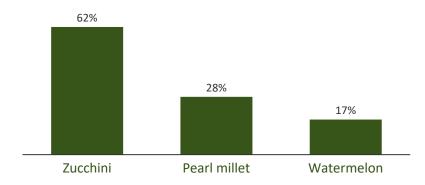
With more than 20 field pilots, feasibility studies and independent academic validations by universities and research institution, a few visual references are shared in the following slides...

# UAE adaptive agriculture reference validation



- $\checkmark$  Less than 1kg of minerals per  $m^2$
- ✓ Water and fertilizer savings (20-50%)
- ✓ Increased crop yields (17-62%)
- ✓ Preserved organic matter, reduced salinity, and improved overall soil health

#### **CROP YIELD INCREASE**



## From date palms to citrus and other permanent crops





#### DATE PALMS

- 46% water savings
- 8% yield increase
- 21% increase of Grade A

#### CITRUS

- In progress Arizona
- Next up: California

## **Citrus trees, desert fruit tree cultivation**





#### **PLANTS/CROPS**

 Mixed varieties of citrus trees

- 50% water preserved
- Healthy trees
- On-going monitoring of tree growth

## Watermelon production, research station – Yuma, Arizona









### **PLANTS/CROPS**

Watermelon

#### RESULTS

- Active project in progress
- Show potential for reduced irrigation frequency, increased lateral movement of water in the soil profile, promising potential for fertilizer savings, and reduction in mortality rates of seedlings

VALIDATIONS – PILOTS – RESULTS

# Vegetable production in controlled environment, research farm



#### PLANTS/CROPS

- Cucumber
- Basil
- Beetroot

- 50% water preserved
- Yield fully maintained compared to control plots

# Vegetable production in open field, private farm





#### PLANTS/CROPS

- Cauliflower
- Carrots
- Ladyfinger
- Peppers

#### RESULTS

• 38.5% water preserved

## Wheat production in desert soil with LNC



Increased cation exchange capacity in the soil by 54% Improved nutrient uptake N, P, and K in the wheat plant by 27%, 33%, and 77%

#### PLANTS/CROPS

• Wheat

- 50% water savings
- > 1,4x yield increase
- Larger grain size
- 158% reduced plant stress
- 24% higher carbohydrate and increased protein

# Wheat production, private farm





### PLANTS/CROPS

• Wheat

- > 50% water savings
- Increased yield

## Alfalfa production, animal feed farm





### PLANTS/CROPS

• Alfalfa production

#### RESULTS

• On-going trial

## Punica granatum trees, desert fruit tree cultivation





#### **PLANTS/CROPS**

• Pomegranate trees

- 50% water preserved
- Healthy trees
- On-going monitoring of tree growth

## Moringa trees, private farm





### PLANTS/CROPS

• Moringa trees

- Up to 50 % water savings
- Higher germination rate
- Higher tree survival rate

## Mangifera indica trees, fruit farm





#### PLANTS/CROPS

• Mango trees

- 50% water preserved
- Healthy trees
- On-going monitoring of tree growth

## Ziziphus spina Christi trees, afforestation project



### **PLANTS/CROPS**

• Christ's thorn jujube trees

#### RESULTS

After

- 54% water preserved
- Healthy trees
- Preserved organic matter, reduced salinity, and improved overall soil health

## Prosopis cineraria, afforestation project





### PLANTS/CROPS

• Ghaf tree

- 51% water preserved
- Healthy trees
- Preserved organic matter, reduced salinity, and improved overall soil health

## Climate resilient landscaping reference validation (Bermuda grass)



- $\checkmark$  Less than 1kg of minerals per  $m^2$
- ✓ Water savings (47%)
- ✓ Increased grass growth (52%)
- ✓ Preserved organic matter, reduced salinity, and improved overall soil health
- ✓ Increase in available P and K in the soil
- ✓ Increased mycorrhizae filament growth

## Lawn areas landscaping





### PLANTS/CROPS

• Paspalum grass

#### RESULTS

• 45% water preserved

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## Ficus benghalensis tree, landscaping





### PLANTS/CROPS

• Banyan trees

- 50% water preserved
- Healthy trees



## MAKING EARTH GREEN AGAIN

to foster the prosperity of life

