Fresh Approach to Money
What is Dirham Coin?

DirhamCoin - AED offers a refreshing approach to managing finance and breaks the mold of traditional fiat currencies and banking systems. DirhamCoin is free of interest of any kind and through a reserve, establishes trust via the Blockchain offering several benefits over traditional fiat currencies; Securing the network, rewarding investors at a higher rate for running green nodes and issuing rewards for simply holding AED in a digital wallet. DirhamCoin does not rely on mining through ASIC or GPU as these consume a lot of power and can have long term effects.

DirhamCoin takes a much greener approach by using the currency itself to perform all of these tasks. Anyone can earn from DirhamCoin with the peace of mind that they are building a green future.
Fresh approach to money:

- **Master reserve nodes:**
  Investing into DirhamCoin not only pays back a good return on investment, it will immediately reflect on an individual or an organizations approach to a greener future and is a great way to position one's self or business in working to reduce ones carbon footprint.

- **A Greener World Through Proof of Stake:**
  Proof of Stake (POS) is an alternative to Proof of Work, the mining process that involves securing the network as well as confirming transactions and issuing new currency.

- **Master reserve nodes:**
  Holding 10000AED in your wallet transforms your wallet into a Master Reserve Node.
What is Blockchain?

- The New Technology of trust
- Openness of the internet and security of cryptography to give the world faster and safer way to verify key information which establishes Trust.
- Blockchain is to bitcoin what the internet is to email – Sally Davies (FT Reporter)

“The technology likely to have the greatest impact on the next few decades has arrived. And it’s not social media. It’s not big data. It’s not robotics. It’s not even AI. You’ll be surprised to learn that it’s the underlying technology of digital currencies like Bitcoin. It’s called the blockchain.” — Don Tapscott

A new and innovative way to transact
“Every human being on the planet with a phone, will have equal access. Expanding the total addressable market by 4X” — Brock Pierce

Blockchain technology explained

- Blockchain is a record of transactions, like a traditional ledger
- These transactions can be any movement of money
- A Blockchain does two things, gather and order data into blocks and then chain them together using cryptography
- A Blockchain is a public ledger of all Bitcoin transactions that have ever been executed
- To use conventional banking as an analogy, the Blockchain is like a full history of banking transactions.
- Bitcoin transactions are entered chronologically in a Blockchain just the way bank transactions are. Blocks, meanwhile, are like individual bank statements.
- Each time a block gets completed, a new block is generated. There is a countless number of such blocks in the Blockchain
• Blockchain has the potential to change how we buy and sell
• Interact with Government
• Verify authenticity of everything from property titles to organic Vegetables
• Independent, transparent, and permanent database coexisting in multiple locations and shared by a community.
• Blockchain was initially developed as part of the digital currency Bitcoin
• Blockchain can support a wide range of applications
• It's already been used for peer to peer payment services, supply chain tracking and more.
• Because Blockchain establishes Trust, it provides a simple paperless way to establish ownership of money, information and objects e.g., Concert Tickets
• Blockchain allows a buyer quickly establish if a seller or a concert Ticket can be Trusted
• When a block is completed, it gets a time stamp, so all information is sequential which helps avoid duplicate entries.

• The key to Blockchain security is something called a Hash, it’s a form of Cryptographic math that makes the links between the blocks virtually unbreakable.

• The Hash function takes the information in each block and uses it to create a hash, a unique string of characters.

• Blockchain can also hold and protect sensitive information. For example, ID papers have traditionally been issued and monitored by Governments but digitally issued ID’s via Blockchain could be a more secure mechanism.

An international ID Blockchain, accessible anywhere in the world, allows people to prove
Core Focus:

- DirhamCoin aims to use & Implement Blockchain technology globally. It will be a gateway to invest into multiple projects using world class & breakthrough technology.
- Our first phase is the Hydroclimaponics which has already begun.
- We are also looking into breakthrough technology within the renewable energy sector.
What Is Dirham Hydroponics?

- Dirham Hydroponics is a company that has developed a proprietary, Vertical Hydroclimaponic Farming System that is highly cost-effective, that benefits the environment and society relative.

- “Our Vision is to establish a series on Hydroclimaponic farms, utilizing a vertical farming method, to grow green leafy vegetables, herbs, berries, ornamentals and other products of the highest quality; supplied on a just-in-time bases, that delivers the freshest produce to local and global...
4 Pillars of Food Supply Security:

- **Availability:**
  
  Production / Distribution / Exchange / Land ownership / Rainfall / Temperature / Soil / Labour

- **Access:**
  
  Affordability and Allocation

- **Utilization:**
  
  Safe / Enough to meet physiological requirements / Nutrition and Sanitation

- **Stability:**
  
  Sustain over period of time / Seasonal / National disaster / Drought, etc
Agricultural Problems

- Water Availability
- Scarcity of arable land
- Seasonality
- Reliability
- Consistency
- Nutritional Values
- Herbicides and pesticides
- Taste and Appearance
- Shelf Life
- Transport
- Costs
- Shortages
- Global Warming
- Preservatives
The Dirham Hydroponics Solution:

This solution is a unique core vertical grow pipe technology that is used to grow high quality leafy green vegetables, Asian vegetables and herbs in a controlled hydroponic environment with many other trade secrets.

We have a strong emphasis on research and development. The growing system produces more plants faster, healthier, using 95% less water, less space, less fertilizer, with no pesticides or herbicides. The produce stays fresher longer and can be produced 365 days a year with minimal seasonal impact. Hydroclimaponics is new proprietary vertical farming technology and methods that has the potential to change the way that broad range of produce is grown.
<table>
<thead>
<tr>
<th></th>
<th>Conventional Farming</th>
<th>Hydroponics</th>
<th>One Agri Can</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plants per m²</td>
<td>±45</td>
<td>±240</td>
<td>780</td>
</tr>
<tr>
<td>Water / kg</td>
<td>50 liters</td>
<td>8-12 liters</td>
<td>4 liters</td>
</tr>
<tr>
<td>Fertilization cost/year/ton</td>
<td>$ 14 400</td>
<td>$ 2 880</td>
<td>$ 1 440</td>
</tr>
<tr>
<td>Labour (persons)</td>
<td>20</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Land size / 2400 tons / year</td>
<td>18 ha</td>
<td>5ha</td>
<td>1.4ha</td>
</tr>
<tr>
<td>Time to Harvest</td>
<td>50 - 60</td>
<td>40 - 50</td>
<td>30 - 35</td>
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<tr>
<td>Meters² / ton</td>
<td>74 m²</td>
<td>20 m²</td>
<td>2,5m²</td>
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<tr>
<td>Yield per year - Kg / m²</td>
<td>12kg</td>
<td>45kg</td>
<td>195-245kg</td>
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<tr>
<td>Soil Preparation</td>
<td>YES</td>
<td>NIL</td>
<td>NIL</td>
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<tr>
<td>Tractors &amp; Machinery</td>
<td>YES</td>
<td>NIL</td>
<td>NIL</td>
</tr>
<tr>
<td>Herbicides/Pesticides/Fungicides</td>
<td>YES</td>
<td>SOME TIMES</td>
<td>NO</td>
</tr>
</tbody>
</table>
The Unique Difference:

- Use less Scarce Resources
  - 95% less water
  - 8 x higher yield per m² than hydroponics

- Environmentally friendly
  - No herbicides, pesticides, insecticides
  - Carbon Neutral

- Supply
  - Scalable
  - Close proximity to market
  - Year-round production

- Quality
  - Best Nutritional value
  - Longer shelf life

= Sustainable Competitive Advantage
Creating A Superior Product Range:

<table>
<thead>
<tr>
<th></th>
<th>Organics</th>
<th>Dirham Hyroponics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herbicide &amp; Pesticide free</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Nutritional Value</td>
<td>?</td>
<td>✔️</td>
</tr>
<tr>
<td>Preservative free</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Appearance</td>
<td>✗</td>
<td>✔️</td>
</tr>
<tr>
<td>Quality standards</td>
<td>?</td>
<td>✔️</td>
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<tr>
<td>Consistency</td>
<td>✗</td>
<td>✔️</td>
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<tr>
<td>Cost</td>
<td>XX</td>
<td>✔️</td>
</tr>
<tr>
<td>Seasonal Availability</td>
<td>✗</td>
<td>✔️</td>
</tr>
<tr>
<td>Carbon footprint</td>
<td>✗</td>
<td>✔️</td>
</tr>
<tr>
<td>Price to consumer</td>
<td>XX</td>
<td>✔️</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>XX</td>
<td>✔️</td>
</tr>
<tr>
<td>Taste</td>
<td>?</td>
<td>✔️</td>
</tr>
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Key Technology Features

- Our technology uses less than 5% of the water used in traditional farming.
- Our technology uses a fraction of the overall energy used in traditional farming.
- Our technology contributes far less greenhouse gases than land based farms because of our shortened shipping cycle.
- Our technology virtually eliminates environmental damage from chemical run-off caused by traditional outdoor farming.
- Green lean technology leading to environmental sustainability and greater consumer loyalty.
- Root bio-mass converted to protein source for fish farming.
- Our technology has a Neutral carbon footprint.
Typical Production Facility

For every $1 million:

- Size, Configuration, and Output:
- 2,800 m² growth area
- Vertical Pipes Stacked 4.2 m high
- 30 Days per Growing Cycle
- 10 Cycles Annually
- 20 Direct Full-Time Equivalent Jobs
- 138,900 plants (41.67 tons) distributed per Month
- 1,666,900 Plants (500 tons) distributed per Year
- 277,800 punnets/pillow packs (150g) per Month

80% Gross Profit
Sustainability Innovation

- MOU with Universities:
  - Wageningen University - Netherlands
  - Singapore University
  - University of Western Australia
  - Queensland University