

# Greening The Desert

Greening the desert project: 2-10 years plan in the frame of the 4 dimension

And the involvement of Heliopolis university



# Our Goal





# Phase 1

**Funding: 100% accomplished**

## **Installation**

3 Pivots installed, solar panels under construction

150 fadan of desert land is reclaimed



## Phase 1: Summary of Funding Details( take out-replace 1 slide for phase 2- date and goal

Kind of Contribution	Amount	Percentage
CO2	€26,744.77	6.64%
Loan	€180,900.00	44.90%
Donation	€134,057.41	33.28%
Tree Planting	€61,169.69	15.18%
<b>Total</b>	<b>€402,871.87</b>	<b>100.00%</b>

# Vision plan for Greening the desert in the frame of the 4 dimensions



# Cultural Life

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## 2 years plan

### SVG1: Educational Model

- **Education program** for the SEKEM Wahat community members is established- (**Hu vision group of unfolding potential.Regina**)
- **Core program** is established and held every month (**Hu vision group of unfolding potential .Martina**)
- **For employees:** Maho el omia for illiterate people above the age of 15- (**Sekem school.Start Date September 2020**)



## 10 years plan

### SVG 1: Educational Model

A **holistic school** is founded

A **holistic teacher training programme** is implemented

A Special needs education program is established

A Vocational Training Center is established

# Cultural Life

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## 2 years plan

SVG 2: University model

- **Internships** in all different working fields are offered for HU and international students to participate in the SEKEM-Wahat Project- **(Start date on September 2020 - Hu vision group of unfolding potentials .Regina and Amr sabahy)**
- Students at HU participate in scientific studies in Bahariya, Wahat (each student should visit Wahat at least once) Start date on September - **( Start date on September 2020 -Hu vision group of unfolding potentials .Regina)**



## 10 years plan

SVG 2: University model

- HU Desert Campus is founded (practical modules are hold in Wahat)

# Cultural Life

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## 2 years plan

### SVG 3: Holistic Research

- Continued research about water resources and discharge in Bahariya Oasis is conducted ( **Start now. Hu Faculty of engineering . DR Rasha EL Kholy**)
- Data collection systems to monitor developments from day one on all 4 dimensions are implemented (**Strat now-Faculty of agriculture .DR Hasan Bakr And Tarek EL Araby**)



## 10 Years plan

### SVG 3: Holistic Research

- **HU - Desert Research Center** for sustainable development is established regarding all four dimensions.



# Cultural Life

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## 2 years plan

### SVG 4: Integrative Health Care

- Basic health care center is established( september- **(Start in September -Hu vision group integrative health. Andreas)**)
- First aid courses are provided for all employees and community members ( **Start in Sep 2020- Hu vision group of integrative health)**)
- A health care booklet for all community members is used-(**Start in Sept 2020-Hu vision group integrative health)**)



## 10 years plan

### SVG 4: Integrative Health Care

- An **Integrative health care center** is founded  
→ provides medical aid/ care for the entire region
- Digitized health care documentation system is implemented to track the impact of integrative medicine methods on health

# Cultural Life

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## 2 years plan

SVG 5 : Art and Culture

- Annual SEKEM Festivals are hold ( **Start in sep 2020.SPACE OF CULTURE.Martina**)
- Quarterly culture programme is held ( **Start in Sep 2020.SPACE OF CULTURE.Martina**)



## 10 years plan

SVG 5: Art and Culture

- **“Space of Culture”** is established (Public Theater)

# Ecological Life

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## 2 years plan

### SVG 6: Organic Egypt

- A compost center is established - 20.000 Tons of compost are produced (Hu faculty of agriculture -used for technical advices and analyzes)
- 100% organic vegetables consumed by the community (Eco village .Hesham)



## 10 years plan

### SVG 6: Organic Egypt

- An Organic agriculture training center is established by the EBDA and HU
- The community is consuming **100% organic food** produced in Wahat

# Ecological Life

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## 2 years plan

### SVG 7: Water Management

- **100% biological wastewater management** - using wastewater to irrigate trees ( [Hu faculty of engineering . Carsten and Felix](#))
- **Continued research** and implementation on water usage efficiency ( [Hu faculty of agriculture .Tarek el Araby](#))



## 10 years plan

### SVG 7: Water Management

- Clarity on the recharge rate of nubian aquifer (Are we using water as efficient as possible?)



# Ecological Life

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## 2 years plan

### SVG 8: Renewable Energies

- All water pumps are driven by **hybrid solar systems ( Hu faculty of engineering .Naglaa)**
- All buildings run on renewable energies gained from solar systems and wind energy ( **Hu faculty of engineering .Naglaa and Feix**)



## 10 years plan

### SVG 8: Renewable Energies

- All of SEKEM Wahat relies solely on renewable energy resources
- training and research center for renewable energies is established
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# Ecological Life

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## 2 years plan

### SVG 9: Biodiversity

- 1 mio. trees planting started ( [Hu carbon Footprint center .Thoraya](#))
- Baseline study for biodiversity ( [Hu university faculty of agriculture . Tarek El araby](#))



## 10 years plan

### SVG 9: Biodiversity

- **Improvement of biodiversity**
- An environment for the **protection of Egyptian Bees** from Extinction is created.

# Ecological Life

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## 2 years plan

### SVG 10: Climate Mitigation

- 1 Million tree project started ( [Hu CFPC.Thoraya](#))
- Concept of CO2-neutral building ([Hu faculty of engineering -Green architecture department. Felix](#))
- 9,311Tons of CO2 are sequestered in trees & soil ( [Hu CFPC.Thoraya](#))



## 10 years plan

### SVG 10: Climate Mitigation

- A **1 million tree forest** is planted
- → Tree carbon sequestration will reach 30.000 tons annually
- From tree 33,333 Tons will be sequestered
- From soil 1920 tons will be sequestered
- All buildings are CO2-neutral

# Ecological Life

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## 2 years plan

### SVG 11: Zero Waste Management

- Sustainable packaging materials are implemented
- Full **transparency** of the waste stream
- Food disposal is used for composting

( start january 2021- sekem land reclamation management )



## 10 years plan

### SVG 11: Zero Waste Management

- Zero waste for SEKEM Wahat is accomplished



# Economical Life

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## 2 years plan

SVG 12: Circular Economy

- Circular Economy concept is established in the SEKEM Wahat production ( **Start early 2021 SEKEM sustainable development department**)



## 10 years plan

SVG 12: Circular Economy

- Implementing the concept of circular economy from our own chain to the supply chain

# Economical Life

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## 2 years plan

### SVG 13: Economy of Love

- The **economy of love standard** is fully applied to the Wahat production and all products are EoL certified. ( **certified by COAE and accompanied by faculty of business and economics . Justus** )
- The value chain is transparent, EoL certified and accessible for public review through QR code and tracking webpage



## 10 years plan

### SVG 13: Economy of Love

- EoL standard will be applied to our partners
- Based on data collection and further research we're able to trace back complex value chains and production chains.( E.g From cucumber to Macbook )

# Economical Life

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## 2 years plan

### SVG 14: Ethical Banking

- All investments in Wahat are coming from transparent and ethical sources. (**SEKEM holding .khaled Hegazy together with Asharf**)



## 10 years plan

### SVG 14: Ethical Banking

- A branch of the SEKEM ethical bank is founded

# Economical Life

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## 2 years plan

SVG 15: Offer of biodynamic food and sustainable products

- All community members are provided by organic food ( [Eco village.Hesham](#) )



## 10 years plan

SVG 15: Offer of biodynamic food and sustainable products

- A manufacture for sustainable furnitures is established (E.g, furniture out of local wood)
- Training programs for the usage of natural resources (E.g sustainable furniture with given resources) is established
- All community needs are provided by organic or biodynamic resources
- Sekem -Wahat offers organic and biodynamic products in Bahariya



# Social Life

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## 2 years plan

### SVG 17: Internal Governance

- SEKEMsophia workshops are hold to disseminate our experience and knowledge within the sekem wahat community ( **Sep 2020- Hu business faculty and SEKEM future council** )
- A transparent governance structure concerning roles and responsibilities is mapped.( **Sep 2020- Hu business faculty and SEKEM future council**
- A functional organisation development model for community building is established( **Sep 2020-Hu business faculty and SEKEM future council** )



## 10 years plan

### SVG 17: Internal Governance

- A multicultural and diverse community is living and working in SEKEM Wahat (minorities are represented in equally integrated way )

# Social Life

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## 2 years plan

### SVG 18: External Governance

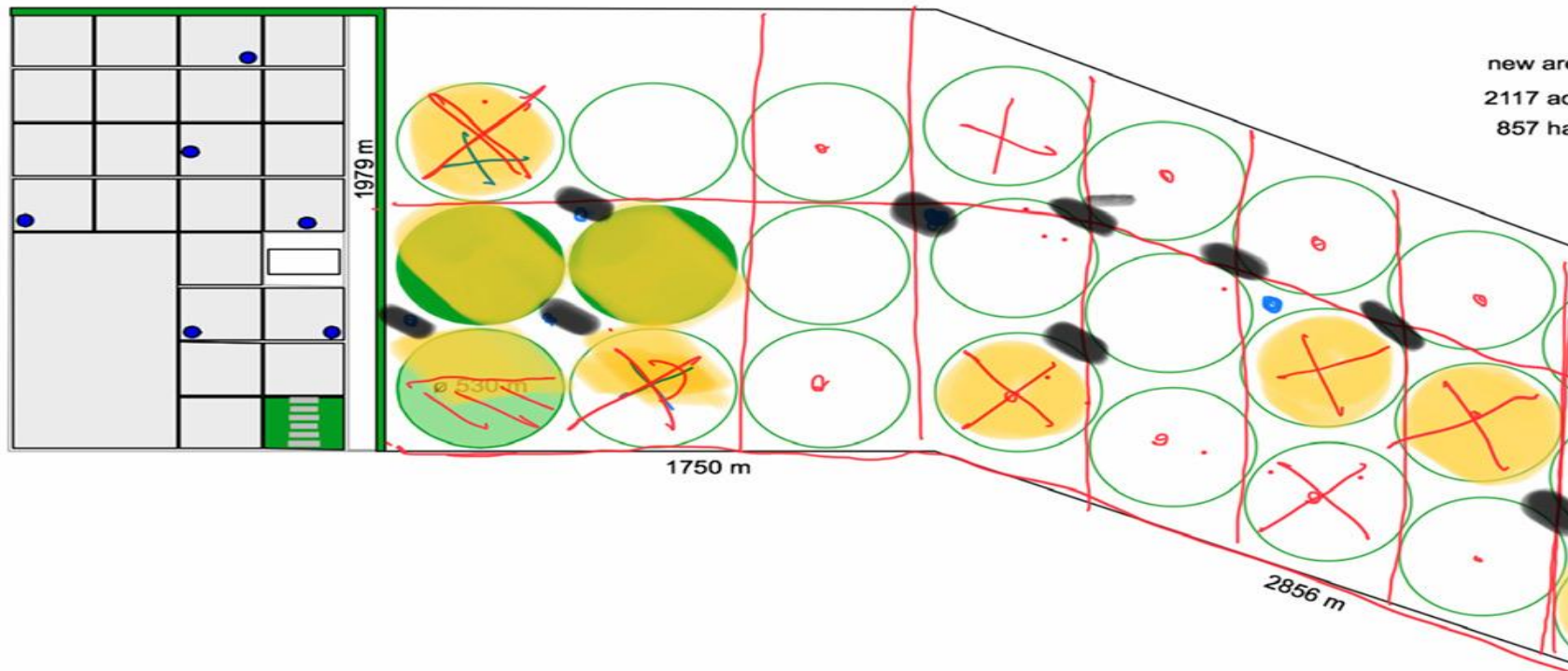
- Our connection to the local community of Baharyia is established ( NGO) ( **SEKEM land reclamation management** )



## 10 years plan

### SVG 18: External Governance

- The SEKEM Wahat community is fully integrated in its surrounding region (exchanges, tradings and corporations are taking place).



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# Four Dimension Bahariya Program

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Educational trainings to raise consciousness and awareness for:

Circular Economy

Economy of love

100% Organic

Biodiversity

Zero Waste

Active Climate Mitigation

Skills workshop each quarter Core Program

Mindfulness

Self Management

Effective Organization