



## Sustainable Development Projects of the Center for Arid Farming and Conservation Agriculture Research (C.AFCAR)

**Project Name: Pasture Areas Reconstruction Project.**

### Project Concept:

In most of the Iraqi governorates there are marginal lands that are considered pastures for livestock. The largest of these lands in terms of area is the Al-Jazeera region in Nineveh, which has an area of approximately one million hectares (4 million Iraqi donums). This region was pasture for approximately 25% of Iraq's livestock. It is now suffering from comprehensive erosion and the loss of more than eighty plant families as a result of drought and climate change, in addition to the previous overgrazing. The project aims to introduce a modern technology in harvesting rainwater and floods by introducing the water hole plow (Delphino 3s), which was introduced to Iraq for the first time through the Dry and Conservation Agriculture Research Center, University of Mosul, in cooperation with the World Food Programme (WFP).

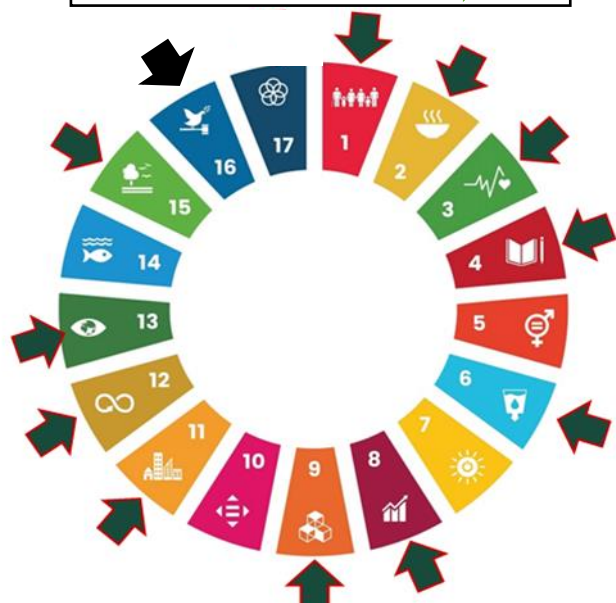


**Center: Center for Arid Farming and Conservation Agriculture Research (C.AFCAR)**

### Sustainability Goals :

**The project achieves 12 Sustainable Development Goals:**

- Goal 1: No Poverty
- Goal 2: Zero hunger
- Goal 3: Good health and well-being
- Goal 4: Quality education
- Goal 6: Clean water and sanitation
- Goal 8: Decent work and economic growth





**Goal 9: Industry, Innovation, Technology and Infra structure**

**Goal 11: Sustainable cities and communities**

**Goal 12: Responsible consumption and production**

**Goal 13: Climate action**

**Goal 15: Life on land**

**Goal 16: Peace, justice and strong institutions**

**Funding information: supported by WFP.**

### **Project Objectives:**

This project, currently in the research study phase, aims to develop rangeland areas by efficiently harvesting rainwater, even with an annual rainfall rate as low as 100 mm. This amount of annual rainfall is achievable in all Iraqi provinces, giving hope for the possibility of generalizing the project across all provinces, provided that the groundwater depth remains below the root depth of the trees. The project will revitalize these areas, abandoned by their inhabitants, by restoring vegetation cover and bringing back livestock, while also establishing industrial and residential projects that are crucial for national food security.

At the same time, this project will efficiently harvest rainwater and floods, contributing to the recharge of groundwater and restoring the invisible water reserve (fresh groundwater), continuously replenishing it and preventing the loss of these fresh floodwaters, which currently inundate cities before leaking out of Iraq's borders, either to the Gulf or neighboring countries like Syria.

Our Goals, from the Noor and Civilization Center at the University of Mosul and through the C.AFCAR Center, with the support of Nineveh Governorate:

**\*Transform Nineveh into God's paradise on earth.**

**\*Within five years, convert one million hectares of threatened rangeland into a paradise of tourism and investment.**

**Build new cities: New Al-Baaj, New Tal Abta, New Al-Hadar, and New Al-Qayrawan.**

**\*Establish new factories for: leather production, woolen textiles and carpets, dairy products, meat processing, and beekeeping.**

**\*Create job opportunities for tens of thousands of our youth specializing in agriculture, veterinary medicine, and related professions.**



\*Turn the rangelands into a destination for tourism, beauty, comfort, and a clean environment for Nineveh and Iraq as a whole.

\* Make the rangeland area a cornerstone of economic development in Nineveh, bringing prosperity, blessings, and a bright, sustainable, and clean future.



With the support of the WFP . University of Mosul for the first time in Iraq successfully completes field training on rainwater harvesting using the (Vallerani System) technique.



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**Project By: The C.AFCAR at the University of Mosul cooperated with the (WFP), and DOA.**

The WFP organization kindly responded to the University of Mosul's request to donate to the C.AFCAR the master Key in pasture restoration technology, namely the Delfino 3s plow, which is being introduced to Iraq for the first time.

An international expert was also hosted to train the center's youth on this technology mechanically, namely (Mr Nathan Kolb).

The expert completed a ten-day theoretical and practical training course, during which more than 1,850 micro basins were opened.

Eight members of the C.AFCAR graduated, and the university now has an expert members in technical management, both mechanically and agriculturally, with direct support and honor from the President of the University of Mosul.



Closing ceremony of the training course

Experience Graduation Certificates for Trainees