

# Vallerani SYSTEM



## NARDI

IMPLEMENTS  
FOR PROFESSIONAL  
FARMING



*A Dolphin greening the desert*

This system lastingly inverts the process leading to desertification, poverty and migration



It allows fast intervention over large areas

## How it works

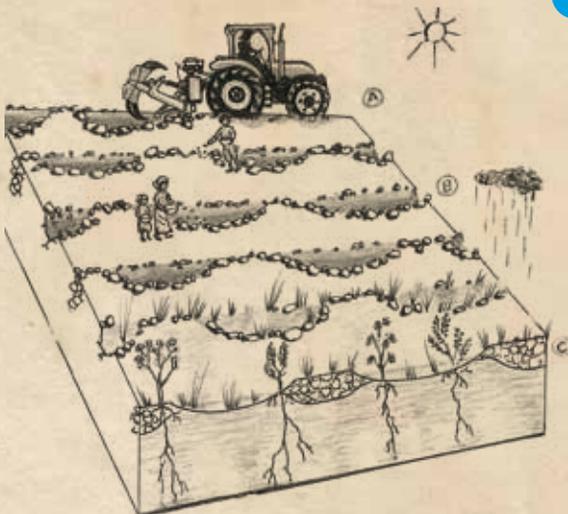
### *Dry Season*

(A) Plowing and sowing

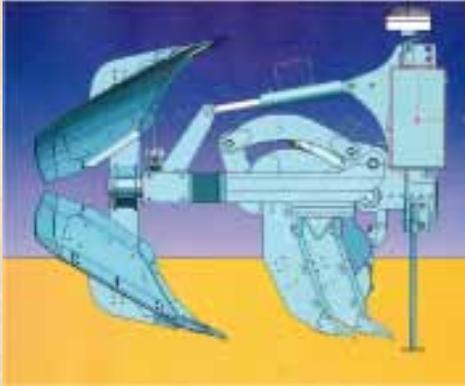
### *Rainy season*

(B) Water harvesting.  
Seeds and plants have enough water to develop

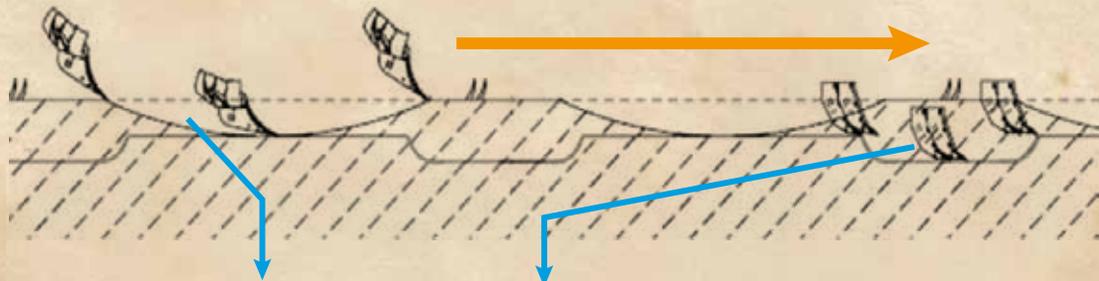
(C) Water easily penetrates to the water table without risk of evaporation



## Technology



The special plow  
Delfino<sup>3</sup> conceived by  
Venanzio Vallerani  
and produced by  
Nardi SpA



The **ploughshare** and **two rippers** go in and out of the soil digging a system of **micro basins** and **underground pockets** of tilled soil to harvest rain water and other available resources



## Water Harvesting

Rain water collection  
guarantees:

- water and moisture for seeds and plants
- groundwater restoration

# Results



Plowed with Delfino<sup>3</sup>

Unplowed soil



- Biomass: quantity and quality increase up to 30 times
- Forestation: 300-600 adult trees per hectare after 5 years
- Agricultural production multiplies 2 to 4 times
- Animal and plant biodiversity increases considerably

**Direct seeding of indigenous species allows plants to grow healthy, strong and vigorous (resilient)**



## Social benefits



**Training, cooperation, accountability**  
Reduction of poverty, migration, social tensions

## A testimonial

*"...The introduction of this technology has allowed us to recover the hard, abandoned soil... In fact neither the experts nor the population foresaw that these lands would be processed again yielding tangible results..."*

**A.R.Bitar**

FAO coordinator

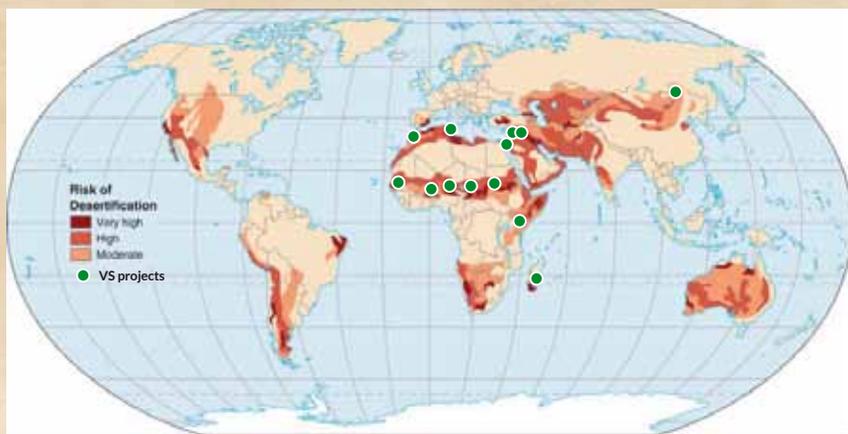


Vallerani System is validated by studies, projects and researches of ICARDA, IFAD, FAO, CILSS, CIRAD, WOCAT, NGO's and others



## Working together

Vallerani System srl offers the experience gained by its technicians and consultants in 25 years of activity in 13 countries with projects on about 118.000 ha



Efficient and economic for projects of: land restoration, agriculture, forestry and pasture increase, water harvesting, food security, CO<sub>2</sub> storage, bio-industry, bio-energy



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#valleranisystem

Many photographs are courtesy of Deserto Verde - [www.desertoverde.ch](http://www.desertoverde.ch)