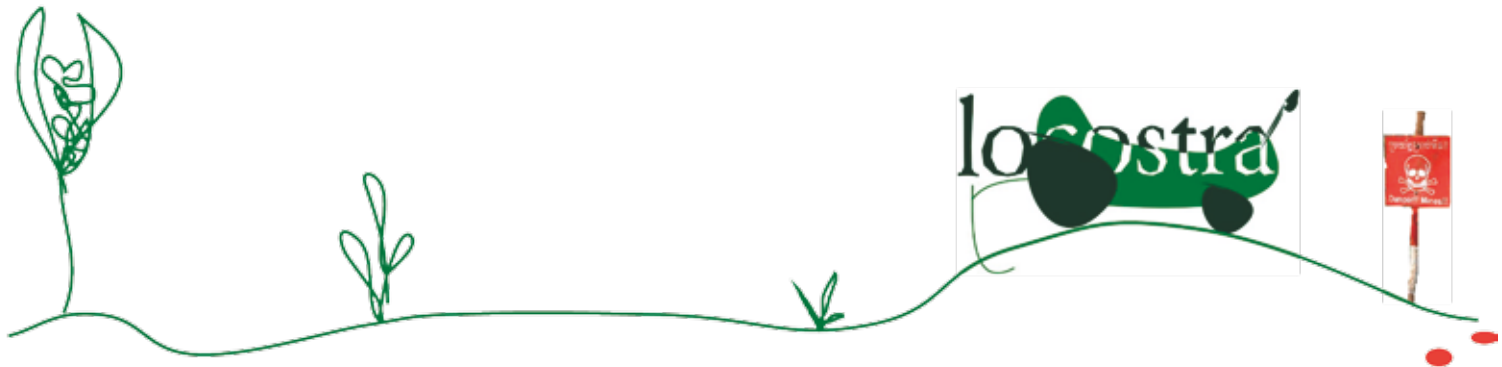


# LOCOSTRA

back to agriculture faster





# vision

We strongly believe that investing in agricultural derived technologies for humanitarian demining is the best option we have to reduce the landmine problem quickly and with good returns into LONG TERM DEVELOPMENT of mine affected countries. We are currently assisting at a widespread CRISIS, ranging from the ENERGY to the FOOD domain. At this particular point in time, land is assuming increasingly more importance due to its ability to provide food and energy in the form of biofuel. At the same time we are assisting at an increase in VULNERABILITY of poor countries upon weather and economic shocks, in other terms at a decrease in their resilience.

As such vulnerability is strongly linked to investments in AGRICULTURE, which have been very low compared to other forms of aid in the past, it is clear that the only way poor countries can remain owners of their land, can cope with future problems related to food and energy scarcity and CLIMATE CHANGE is to foster their agricultural activities and capabilities. In this context, it assumes particular importance to introduce more agricultural technologies in poor countries and to develop there the capacity to perform research on these technologies and modify them according to the needs. A first need, where the suspect of the presence of landmines exists, is to verify if the land is actually contaminated and if so, to clear it from explosive hazards. This is the vision behind LOCOSTRA project that led to the

development of LOCOSTRA machine: **A TRACTOR-BASED, INTRUSIVE,  
REMOTELY OPERATED, LIGHT, VERSATILE**



**VERIFICATION ASSET for TECHNICAL SURVEY**

locostra,



the 50.000€ machine!

that can be used for agriculture when demining is over!

# locostra + mulcher (FAE)





# locostra + mulcher (FAE)



# locostra + ground processing tool (NARDI)



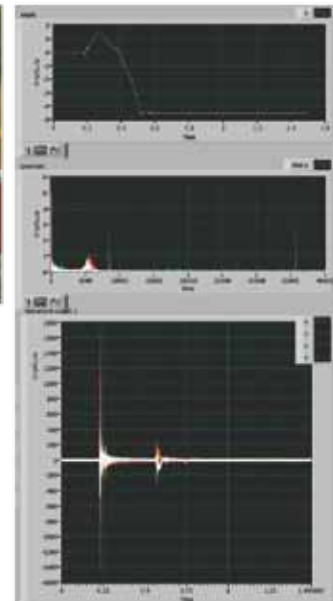
# locostra + ground processing tool (NARDI)





# locostra's blast resistant wheels

tests with sensors



240g of TNT

tests in the field

SHA near to Sabha12 minefield  
at Jordan/Syria boarder



269g of TNT





# locostra transport



20" container

ro-ro vessel



# locostra technical data

## DIMENSIONS

|         |        |
|---------|--------|
| length: | 3500mm |
| width:  | 1450mm |
| height: | 2300mm |
| mass:   | 3000kg |

## ENGINE DATA

|                   |                   |
|-------------------|-------------------|
| type:             | DEUTZ TD 2011 L04 |
| power:            | 57kW - 77hp       |
| fuel consumption: | 220g/h per kWh    |

## SOME OF THE POSSIBLE ATTACHMENTS

mulcher (FAE - Advanced Shredding Technologies)

|                          |        |
|--------------------------|--------|
| clearing width:          | 1580mm |
| n. of teeth:             | 34     |
| grinding diameter (max): | 200mm  |
| mass:                    | 900kg  |

ground processing tool potato digger (NARDI)

|                 |                                     |
|-----------------|-------------------------------------|
| clearing width: | 1500mm                              |
| n. of blades:   | 6                                   |
| depth of work:  | 150mm, depending on soil conditions |
| mass:           | 440kg                               |

large loop detector (EBINGER)

|                             |                 |
|-----------------------------|-----------------|
| model:                      | UPEX 740        |
| searching head size (max.): | 1500mm x 2500mm |



# locostra features

- DOUBLE CONTROL SYSTEM

remote and on board (only in safe areas, for transportations)

- DOUBLE STEERING SYSTEM

turning circle: 2670mm

- REVERSIBLE DRIVE

- HILL CLIMBING ABILITY: 30°

- CAPACITY IN VEGETATION CUTTING (with FAE mulcher)

500 - 1812 sqm/h depending on vegetation type

- OPERATING SPEED AND CLEARANCE DEPTH (with NARDI ground processing tool)

10 - 17 m/min, 13 - 12 cm depending on soil

- MAX DRAWBAR PULL: 6370 - 19894 N depending on soil conditions





partners:

ITALIA   
Istituto nazionale per il Commercio Estero

  
*Ministero dello Sviluppo Economico*



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