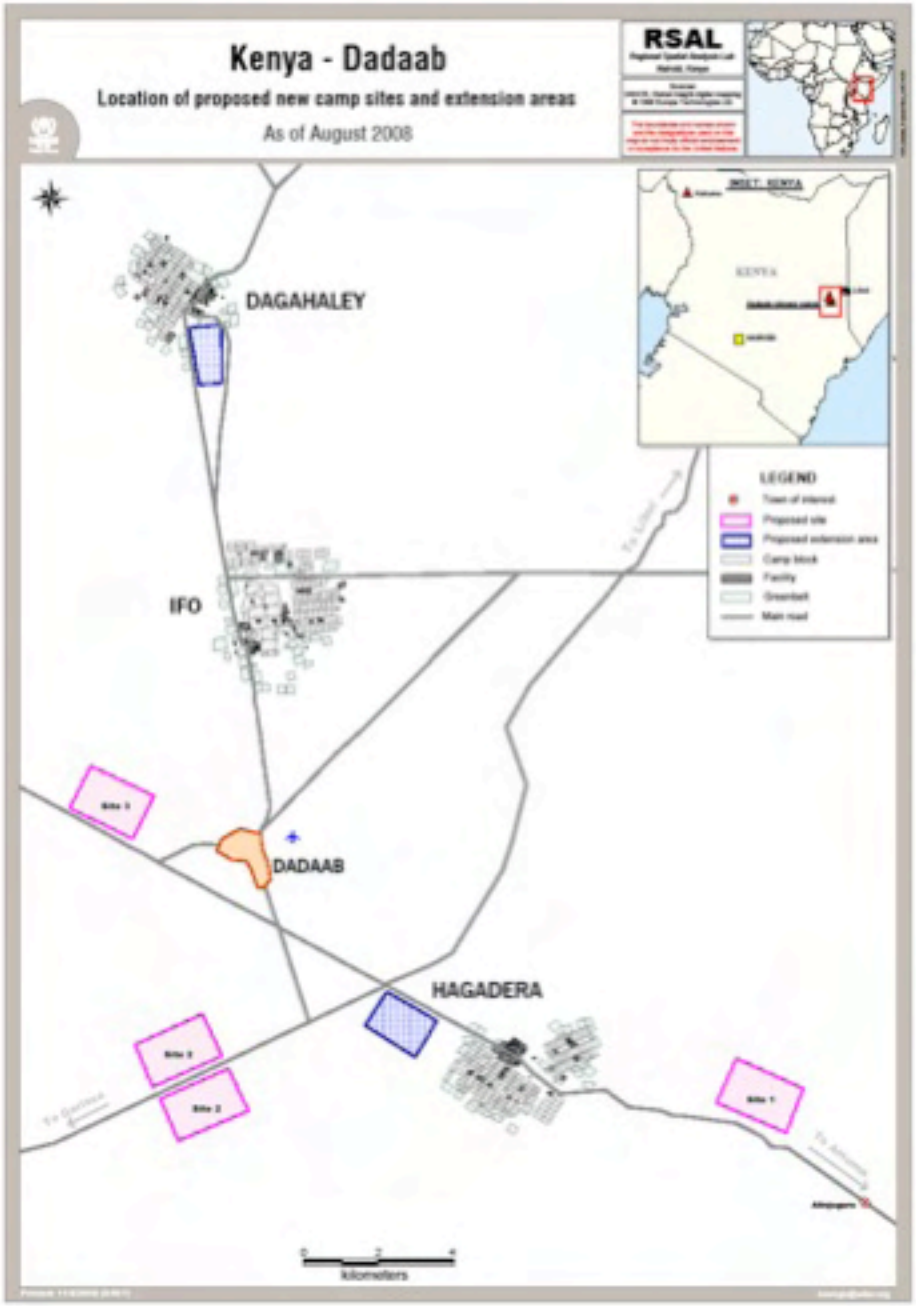
Site Planning

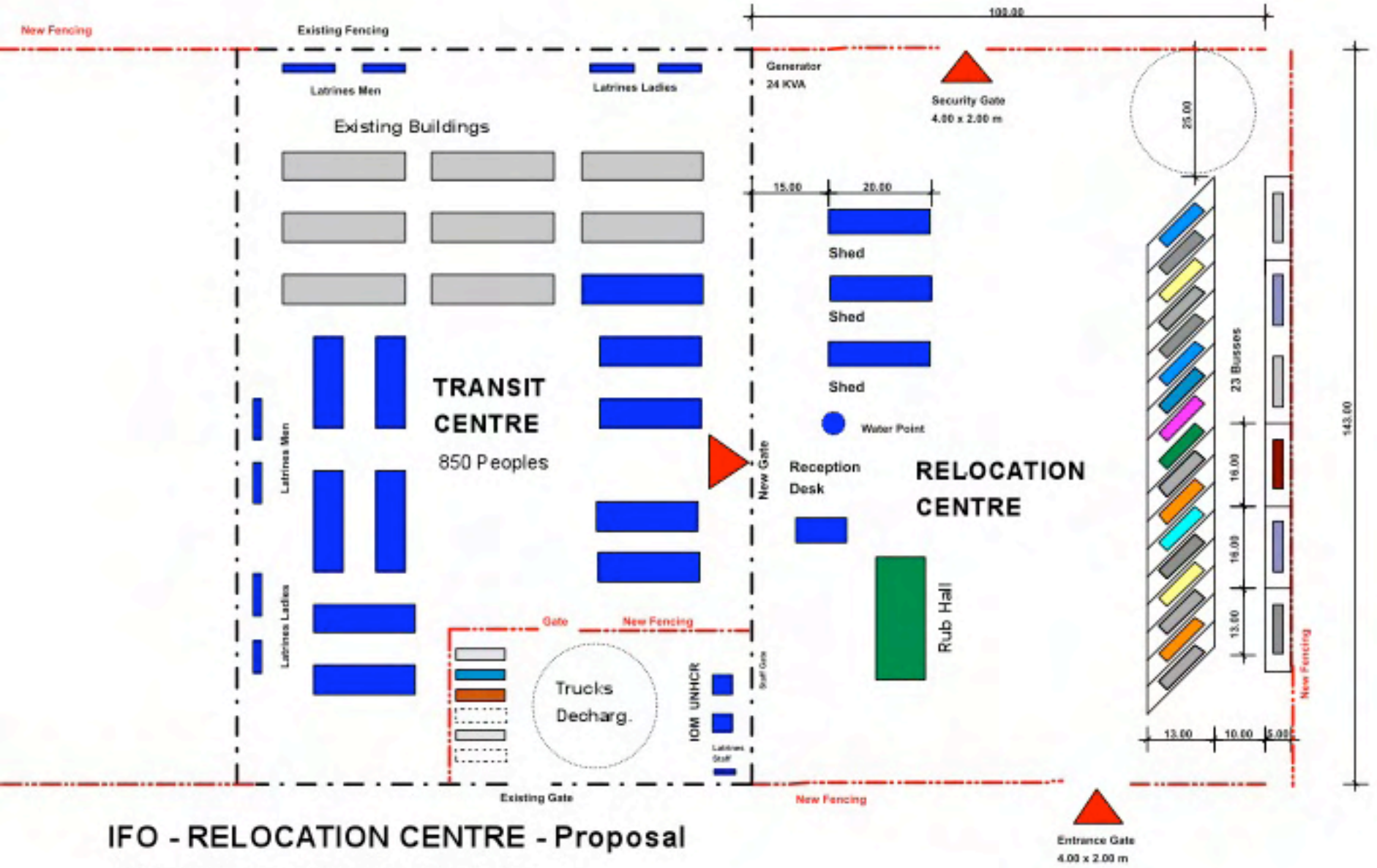
- **Where is the land for a new camp?**
- Negotiations with Authorities since July 08



Site planning
Relocation Plan

To receive Land for a new camp from the Kenyan Government we have to relocate 50'000 Refugees from Dadaab to Kakuma close to the border of Sudan

The cost estimation for this action is 20 Mio US$

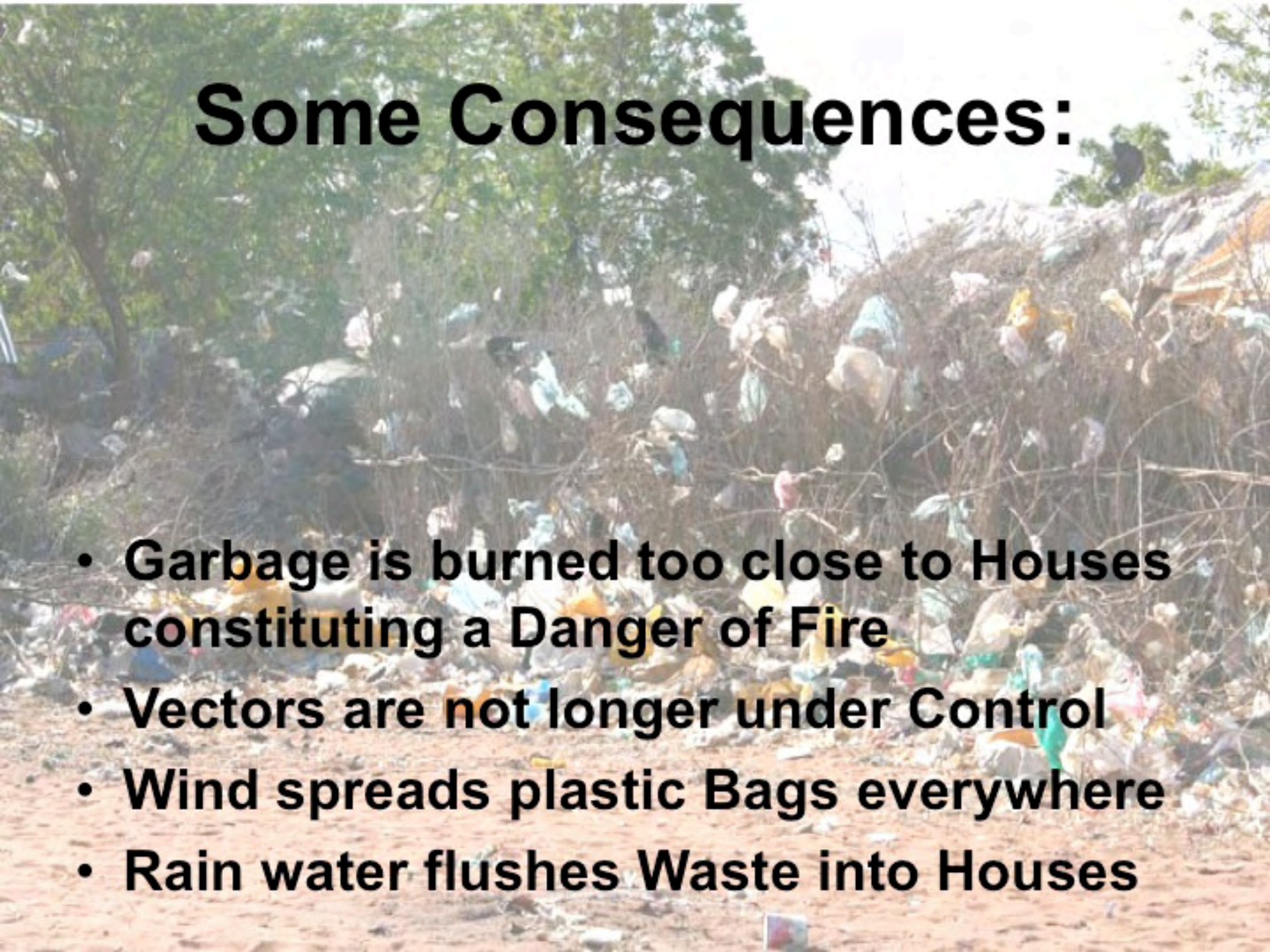


IFO - RELOCATION CENTRE - Proposal

UNHCR SO Dadaab Technical Unit 20.01.2009 BOP

Waste Management

Some Consequences:



- Garbage is burned too close to Houses constituting a Danger of Fire
- Vectors are not longer under Control
- Wind spreads plastic Bags everywhere
- Rain water flushes Waste into Houses

The Old Disposal System is Out of Date

- 50 Cleaners per Camp equipped with Hand Tools and Wheel Borrows can not cope with the Amount of Garbage
- Motorized Equipment is over aged
- Tractors are broken down
- Dumping Sites which once were outside the Camps are now enclosed by Houses

- 2008 start for a new Waste Management System with
- Dust Bins from recycled Oil Cans at Household Level

1'000 KG OF PLASTIC MATERIAL A DAY COLLECTED BY WOMEN IN EACH CAMP (1 woman can collect 140 KG / day)

CLEAN AND WASH IT

HANG UP TO DRY IT OUT

1 MACHINE CAN SHREDER 200 KG / DAY

UZURI LAUNDRY SOAP
P.O. Box 27
NAZERAS
25 BARS
FLOUR
SAID

USAID

PLASTIC GRANULAT TRANSPORTED TO NAIROBI TO PRODUCE PLASIC PILLIER

10
29
7
203

Conclusion

Dadaab Refugee Camps need an efficient and appropriate

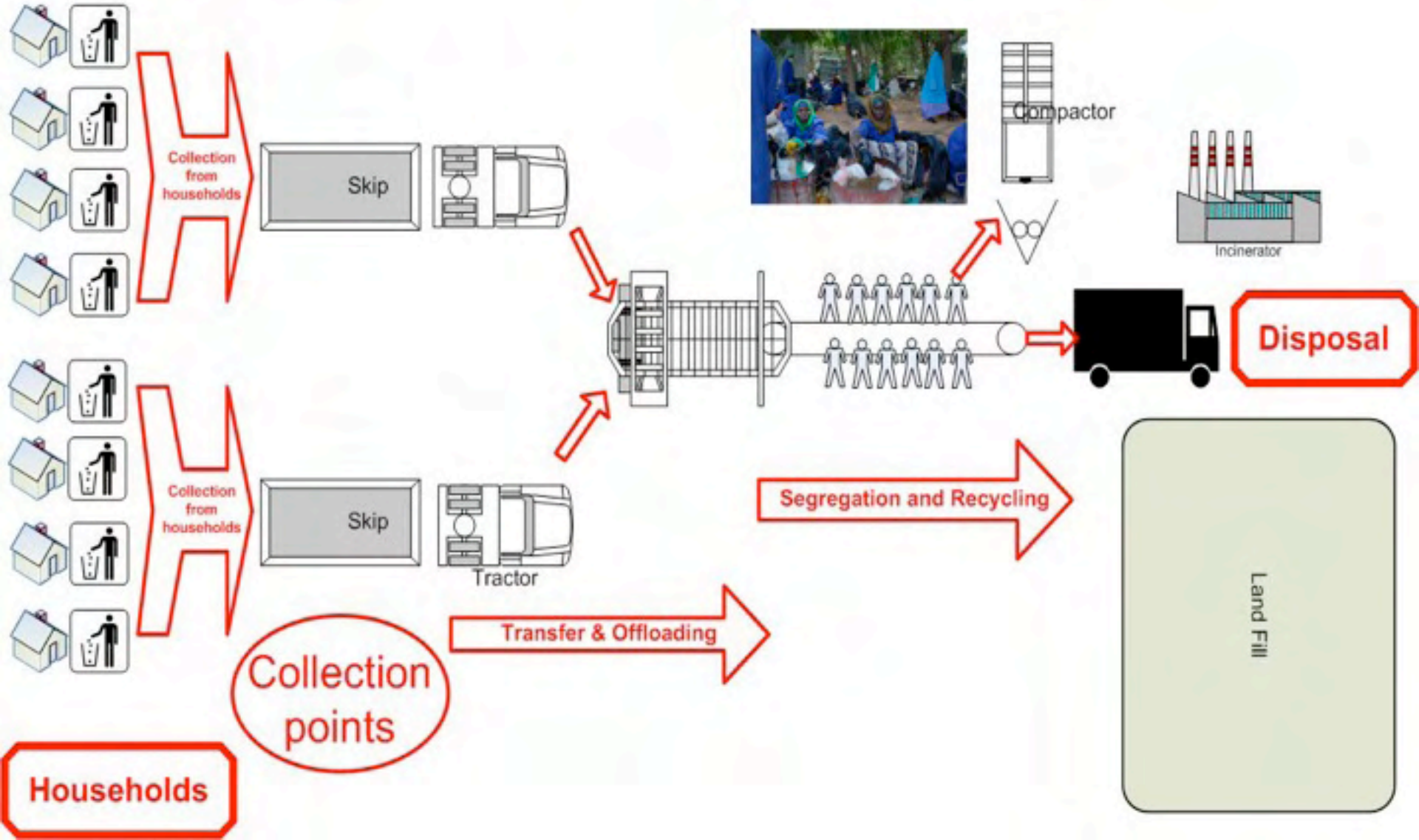
new

Garbage Disposal System

Criteria for the new System

- Higher Degree of Community Participation in Waste Collection
- Appropriate Frequency of Waste Transfer to final Disposal Site
- Central final Garbage Disposal away from Camps
- Potential to expand with increasing Numbers of Refugees
- Must enhance recycling and re-use of selected garbage contributing to operational costs
- Comparatively low running Costs

The appropriate System



Installing the new System

.. shall be done in 2 Phases:

1. Installation of operational Elements targeting on Areas with highest Waste Production
2. Expansion to the Rest of the Camp

Phase One (1 Year)

- Community Mobilization for Waste Containment and Storage at Household Level
- 180 fenced communal Collection Points
- Waste Transfer System with 3 Tractors and 12 Trailers to carry Skids to the Garbage Plant
- A Garbage Plant with Waste offloading station and Segregation Ramp
- Plastic Recycling Station
- Landfill with 20,000 cubic mtr capacity

Phase Two (1 Year)

- To reach all remaining Households
- To install further Collection Points until complete Coverage of all Camps
- To increase Transport Capacity until Satisfaction
- To increase Landfill Capacity as needed

Budget

Phase A: 1.6 m US-Dollar approximately for

- **Mobilization Materials and 15,000 Dust Bins from recycled Oil Cans at Household Level**
- **Collection and Transfer System (180 self made Skips, 3 Tractors, 12 Trailers, Accessories)**
- **Garbage Plant with Offloading Station for Skips, Segregation and Recycling of Waste, Incinerator**
- **Land Fill and Equipment for Operations (Tipper Truck, Caterpillar)**

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Thank you