



Integrating Decentralized Solid Waste Management (DESWAM) into Urban Sanitation



Urbanization challenges – case study Dar es Salaam



- ❑ ~70% of people in Dar es Salaam live in unplanned settlements with low income, high population densities, and little road access
- ❑ Population growth annually 4.3%

1st Logistic Challenge – case study Dar es Salaam



2nd Logistic Challenge – case study Dar es Salaam



How to get the waste from the main road...



Tand

How to get the waste main...



..to the final dumpsite over **30 km away** through traffic

Image © 2013 DigitalGlobe
© 2013 Google

Imagery Date: 5/8/2013 6°47'24.90" S 39°14'26.89" E elev 76 ft eye alt 1997 ft

Image © 2013 DigitalGlobe

Imagery Date: 5/8/2013 6°51'09.58" S 39°13'58.35" E elev 126 ft eye alt 17.63 mi



Decentralized Solid Waste Management (DESWAM):

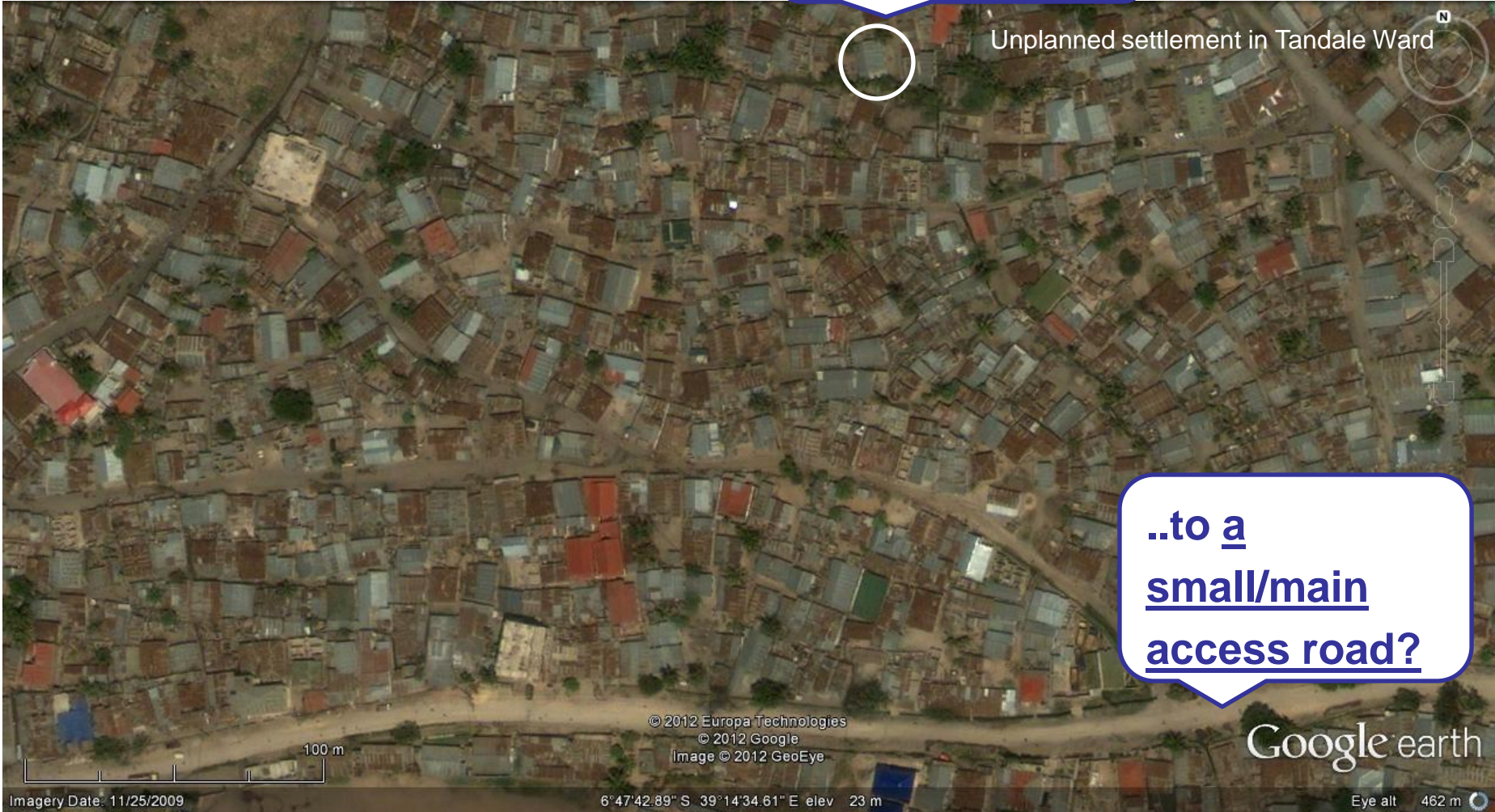


A professional tool to solve
solid waste management
challenges in peri-urban/ urban
poor communities on scale



Integrated DESWAM – case study Dar es Salaam

How to get the waste from here...





Integrated DESWAM – case study Dar es Salaam



Waste Separation Into:

- Organic Waste
- Recyclable Waste
- Residual Waste

& Temporary Waste Storage

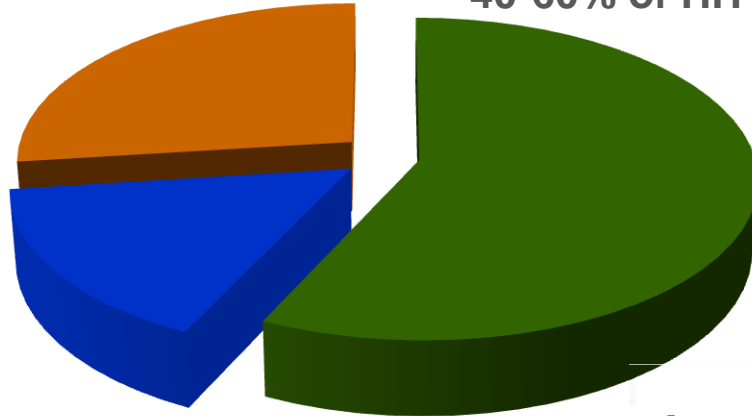




Waste Reduction Through Decentralized Separation

Residual Waste
20-30% of HH Waste

Organic Waste
40-60% of HH Waste



Recyclable Waste
15-25% of HH Waste

**A Professional
Way to Get the
Waste OUT!**

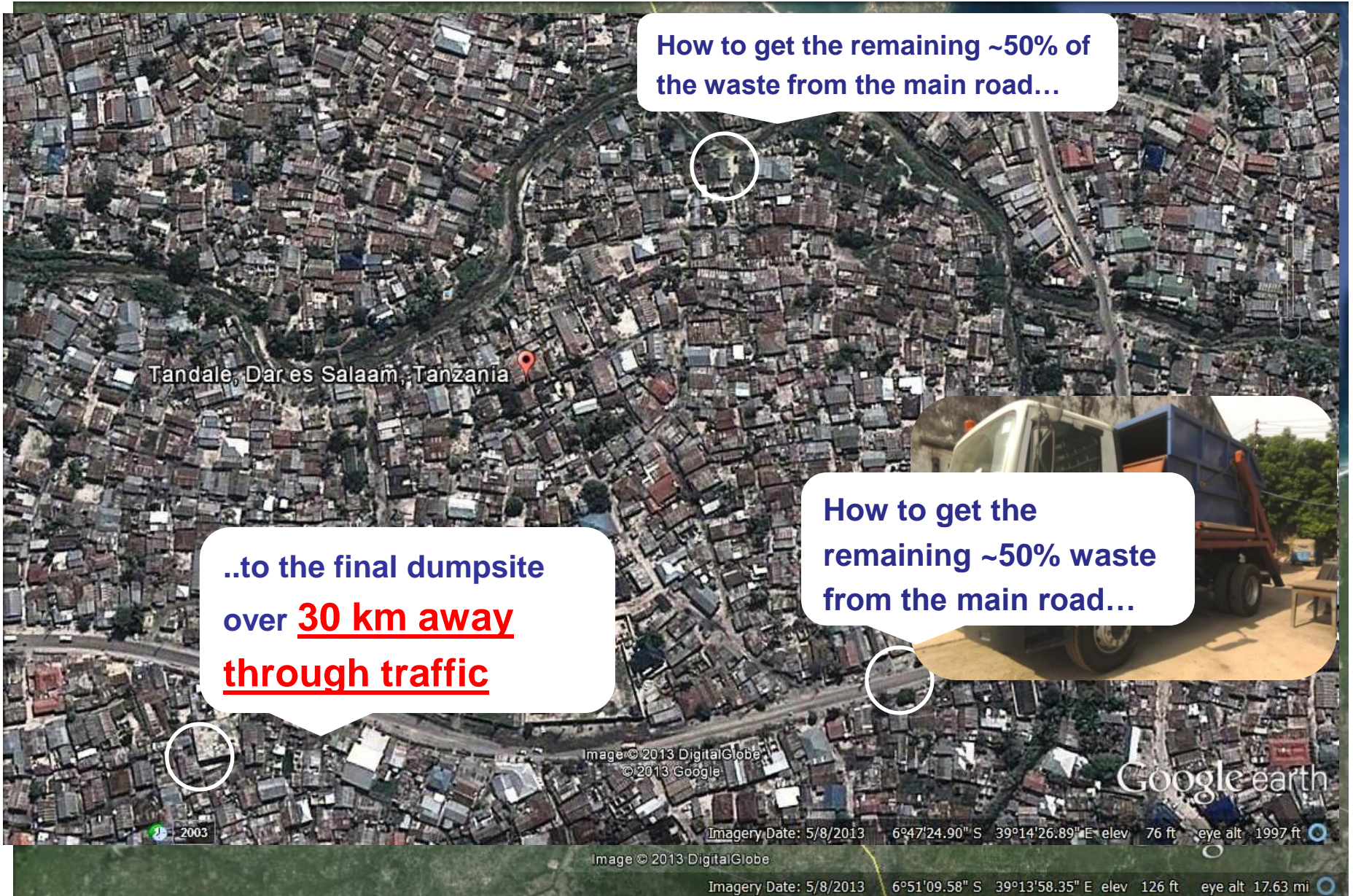


**Increased Local
Employment**



c. N. Singh
2012

2nd Logistic Challenges – case study Dar es Salaam



1. Public Awareness Creation

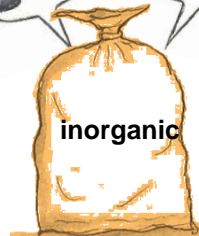


Service Provider Capacity Development



2. Source Solid Waste Management

Waste Separation and Storage



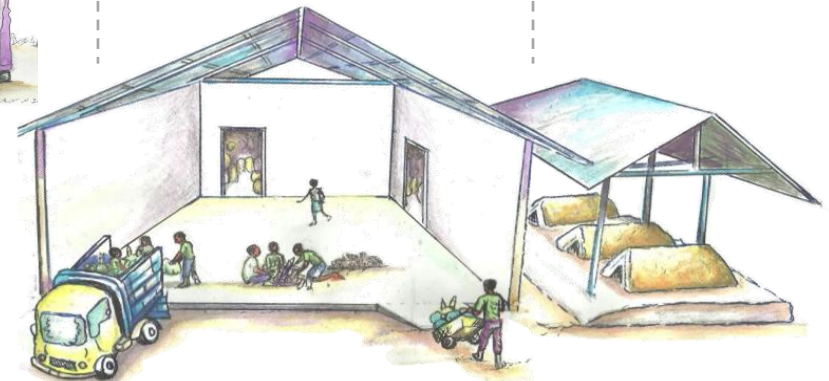
3. Source Level Waste and Fee Collection



4. Temporary Waste Holding Containers



DESWAM Waste Reduction and Management Facility



5. Transport of residual waste to Final Dumpsite





'TUNZA TAKA' (Manage Waste) Waste Management Standards

1. 'Tunza Taka' Service Quality Standard
2. 'Tunza Taka' Compost Quality Standard
3. 'Tunza Taka' Recycling Quality Standard

'TUNZA TAKA' 

Viwango vya Kutunza Taka
Waste Management
Standards 

- 1. Viwango vya huduma ya ukusanyaji wa taka itolewayo**
 - Huduma itolewayo na kuridhika kwa mteja
 - Muonekano wa kitaalam
 - Usafi katika jamii
- 2. Ubora wa mboji izalishwayo**
 - Ubora wa mboji
 - Mauzo mboji na huduma ya uuzwaji
 - Hatua za upatikanaji wa mboji
- 3. Ubora wa taka rejeshi**
 - Ubora wa huduma ya taka rejeshi itolewayo (kwa mnunuzi na muuzaji)
 - Ubora wa hatua za upatikanaji wa taka rejeshi
 - Kiasi cha taka rejeshi kipatikanacho

HESHIMU MAZINGIRA YAKO: TENGANISHA TAKA, LIPIA HUDUMA KWA FAMILIA YENYE AFYA



DESWAM Service Package for Service Providers:

- 1. Training and Professionalism**
- 2. Business Development**
- 3. Stakeholder Mobilization**
- 4. Community Intervention**
- 5. Technical Support and Co-financing**
- 6. Quality Standard Monitoring**





THE NEEDS:

- **Capacity Building for:**
 - ✓ **Local Government**
 - ✓ **Service Providers**
- **Co-financing**
- **Government Support/Program Adoption:**
 - ✓ **Law enforcement**
 - ✓ **Land for transfer stations**
 - ✓ **Contracts/follow through for service providers**
- **Community Recognition of improved services and Fee Payment**



Recognize Them



Professionalize Them





BORDA

Thank You!

BORDA-SADC

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"We Care for Your Waste, Wewe Je?"