

TURNING WASTE INTO CHARCOAL BRIQUETTES



Municipal Waste



KCCA TRUCK



Carbonisers



Wine Bags

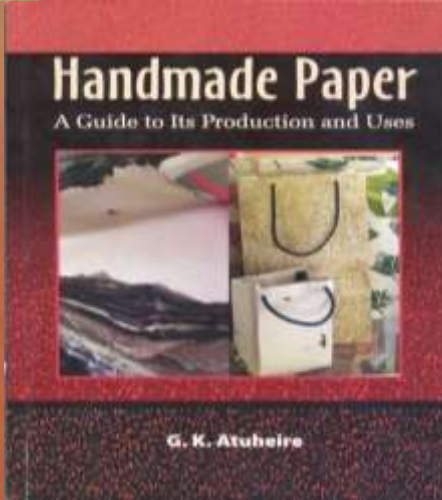
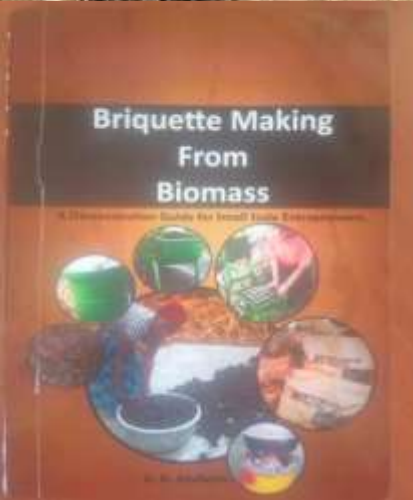
Deforestation



Presser



Awards for Waste



ANATOMY OF AN ENTREPRENEUR

BRAIN

A pool of ideas

MOUTH

Communicating
the vision

STOMACH

Trust your gut

FEET

Dream high but
stick to the
ground

EYES

Looking for
investors and
opportunities

EARS

Listening to
customers
feedback

HEART

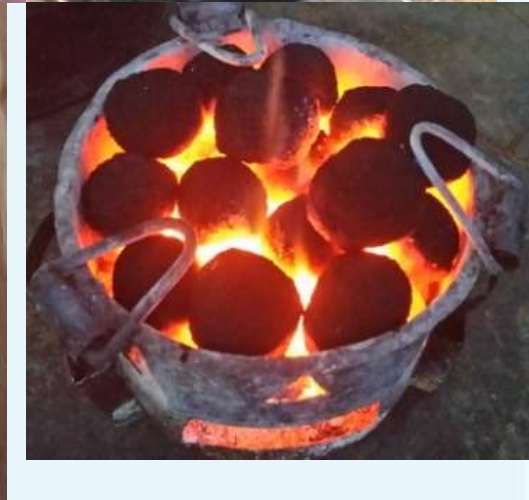
Full of passion

LEGS

Keeps them
going in
tough time



Briquette making



Challenge

❖ **Deforestation has seen Uganda lose 2.0m hectares of forest cover from 1990 to 2015(NFA)**

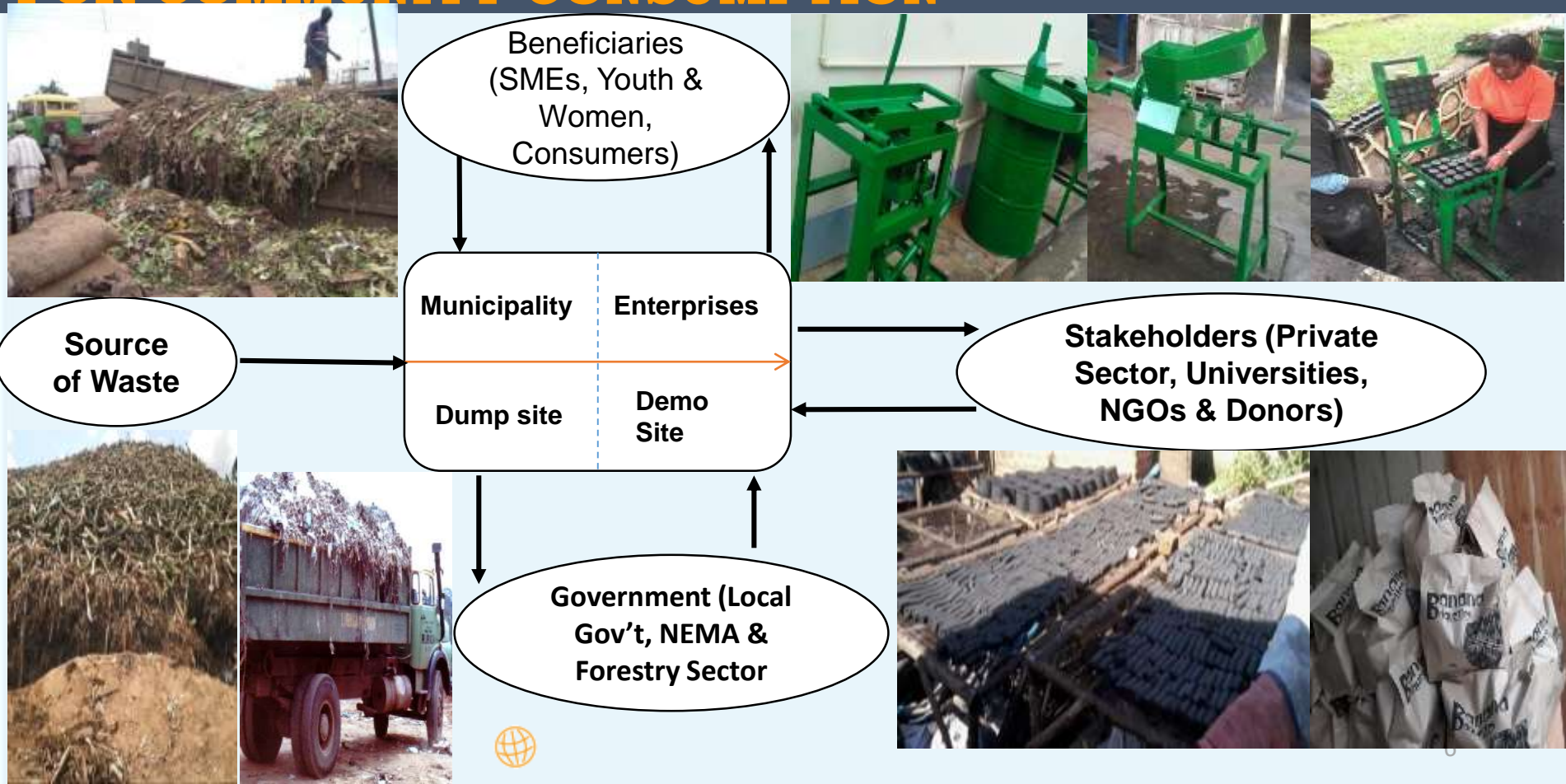
❖ **80,000 hectares of forests are cleared every year(GIZ)**



- Changing weather patterns affecting food security
- 90% of Ugandans use Wood charcoal/firewood as source of energy(GIZ)
- 90% of Agricultural leftovers are currently treated as waste(UNDP, 2005)
- Unemployment level is at 69% in Uganda(UBOS)



MODEL FOR CONVERTING WASTE INTO BRIQUETTES FOR COMMUNITY CONSUMPTION



Achievements and Commercial Viability

Achievements to-date	Partnerships Created to-date
Trained 800 SMEs in 16 districts	Unicef, World vision, UNDP & Refugee camps
Developed and tested B2B & B2C Models	European Union(Switch Africa Green)-SAG Project
Empowered 1,600 trainers and supplied 159 Manual briquette equipment	Youth & Parliamentary Forum on climate change, Military/Police barracks, Schools and Municipality environmental leaderships
Empowered 17,000 Youth and Women	Governmental&Non-Governmental Institutions

Commercial Viability

Financial Analysis per Medium centre

- Total Investment: 24,000,000 Ugx
- Monthly Rate of Return: 4%
- Payback period: 9 Months
- Total Employment: Direct 5 & Over 450 Indirect jobs
- Total Production : 200Kgs per day



Financial Analysis for Commercial Production

- Total Investment: 130,000,000 Ugx
- Monthly Rate of Return: 58%
- Payback period: 6 Months
- Total employment: 12 in production, 22 Sales Executives and over 2,000 Indirect Jobs
- Total Production: 4 tonnes per day

Waste to Wealth; Turning Municipal and Paper waste into Briquettes and Biodegradable Bags



Engagements



DO YOUR BUSINESS WELL TO SUSTAIN THE VALUE CHAIN AND APPLY 4F MODEL

787 Dreamliner structure suppliers

Selected component and system suppliers.

Part name
Company (country)

Wingtips
KAA (Korea)

Fixed & movable leading edge
Spirit (U.S.)

Wing
Mitsubishi (Japan)

Centre fuselage
Alenia (Italy)

Forward fuselage
Spirit (U.S.)
Kawasaki (Japan)

Centre wing box
Fuji (Japan)

Landing gear structure
Messier-Dowty (France)

Lithium-ion batteries
GS Yuasa (Japan)

Movable trailing edge
(U.S., Canada, Australia)

Rear fuselage
Boeing (U.S.)

Wing-to-body fairing
Boeing (U.S.)

Horizontal stabilizer
Alenia (Italy)

Tail fin
Boeing (U.S.)

Passenger entry doors
Latecoere (France)

Lithium-ion batteries
GS Yuasa (Japan)

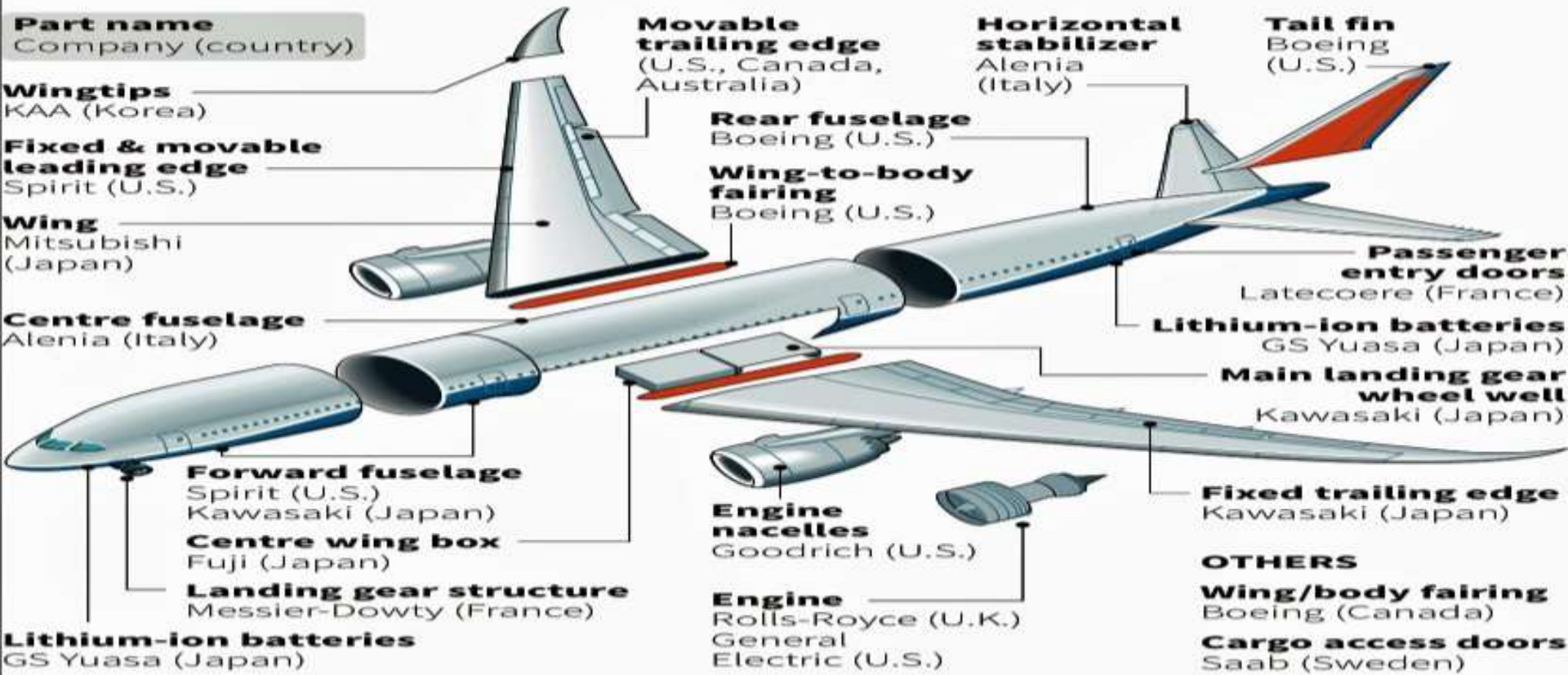
Main landing gear wheel well
Kawasaki (Japan)

Engine nacelles
Goodrich (U.S.)

Engine
Rolls-Royce (U.K.)
General Electric (U.S.)

Fixed trailing edge
Kawasaki (Japan)

OTHERS
Wing/body fairing
Boeing (Canada)
Cargo access doors
Saab (Sweden)



The End

Energy Innovations have shaped the world

