EXTENDED MOBILITY
A ROLLING WALKER THE PROMOTES DESIGN INNOVATION FOR DISABILITIES IN UGANDA

"THE PROJECT GOAL IS TO TRANSLATE THE COMMON NORTH AMERICAN ROLLING WALKER TO FIT THE NEEDS AND CAPABILITIES OF A RURAL UGANDAN CONTEXT."

WHY A ROLLING WALKER?
MARKET OPPORTUNITY

Rolling walkers are popular in North America, but are rare in Africa despite their usefulness and the great amount of people who could benefit from them. However, existing walkers are not appropriate for the African context.
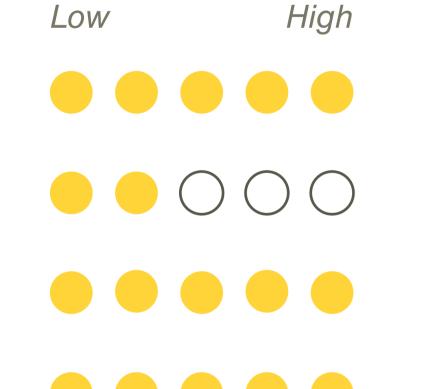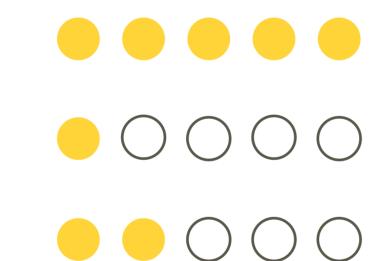
DISCONNECT BETWEEN PRODUCT & USER

Mild Disabilities   *Elderly*

NORTH AMERICAN PRODUCT OFFERS...	VS	UGANDAN TARGET USERS REQUIRE...

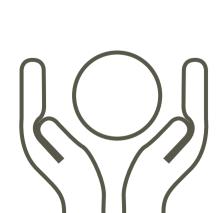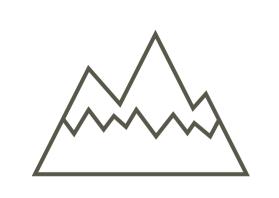| Low → High		Low → High
●●●●●	COST	○○○○○
●●○○○	RIGIDITY	●●●●●
●●●●○	MANUFACTURING	○○○○○
●●●●○	COLLAPSIBILITY	●●○○○

STRUCTURAL RIGIDITY
The frame design is not collapsible so it does not compromise its strength

USER SAFETY
Slow-down and locking brakes steady the user as they move and rest

TACKLES TERRAIN
12" tires and 8" casters roll over large obstacles and uneven terrain

STABLE MOBILITY
The 1m wheelbase is more stable over terrain and easy to control when turning

ECONOMIC OPPORTUNITY
Mobility and cargo space allow for goods and services to be promoted and sold

BRIDGING THE GAP BETWEEN CULTURAL CONTEXTS
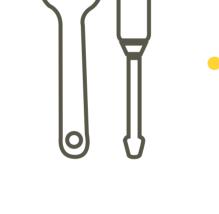### PROJECT DEVELOPMENT THROUGH CROSS-CULTURAL COMMUNICATION

1 RESEARCH & VISUALIZE A UGANDAN WALKER

A concept is formed based on cultural and environmental research.

2 COLLABORATE WITH A LOCAL MANUFACTURER

A detailed drawing of the design is sent to a manufacturer in Uganda and built for testing.

3 SHARE STORIES & SHARE LEARNING

Local users test and provide meaningful feedback which helps shape the final design.

A CO-DESIGNED CONTEXT-SPECIFIC SOLUTION
A ROLLING WALKER SHAPED BY INSPIRING STORIES OF UGANDAN USERS

LOCAL MANUFACTURE
The frame can be built with the tools available to local manufacturers

LOCAL MATERIALS
Steel and tires can be sourced locally and the casters are donated by a local Canadian rolling walker manufacturer

LOW COST
The final design can be manufactured at a fraction of the cost of North American models

USER FITTED
Manufacturing methods allow for the frame to be built specifically to the user