CHALLENGE	GLOBAL CYCLE SOLUTIONS		
e	pproximately 2 billion people have no access to ectricity today, 80% of whom live in rural areas f the developing world with an average income of ss than \$1-2 USD a day.		Jodie Wu
s	of these rural villagers, over 500 million nallholder farmers perform arduous and time- onsuming daily tasks due to lack of available, fordable technology	Designers:	Lisa Tacoronte Bernard Kiwia Local inventors Karam Engineering Yieh Corp

How does it work: A universal adapter attaches to most bicycles and generates power, by pedaling, to an attachment through a second chain drive while the bicycle is mounted on a stand. Our first attachment is a corn sheller, used to remove kernels from the cob. The sheller works up to 40 times faster than traditional methods and allows farmers to complete the task quickly so the harvest can be safely stored. This prevents a loss of up to 20% of the harvest to rats and insects and directly increases the farmer's income. The sheller and stand are detachable to facilitate normal use of the bicycle. (More agricultural machine attachments are currently in development.)

We have also developed a cell phone charger that attaches directly to the bicycle and allows for anytime charging. This is particularly important for the vast majority of the population that has no access to electricity and has to travel great distances and pay exorbitant rates just to keep their phone charged.



	Jodie Wu		
	Lisa Tacoronte		
	Bernard Kiwia		
Designers:	Local inventors		
-	Karam Engineering		
	Yieh Corp		
	Local craftsmen (Tanzania, Kenya,		
Manufacturers	and India)		
	Tanganyika Farmers' Association		
	TAGMARK		
Contributors:	Local Agro-dealers		
	Agriculture		
	Energy		
Sector:	Mobile		
When:	June 2009		
	Operations: Tanzania/East Africa		
Where:	Headquarters: Massachusetts, USA		
	Corn sheller/adapter set - \$60 USD		
Cost:	Mobile phone charger - \$8 USD		
	Corn Shellers - 416 sold, 10.1 M		
	Tanzanian shillings		
	Mobile phone chargers - 586 sold;		
Status:	2.9M Tanzanian shillings		
	www.youtube.com/globalcyclesolutions		
	@GlobalCycleSoIn		
	www.globalcyclesolutions.com/blog		
	info@globalcyclesolutions.com		
FYI:	www.globalcyclesolutions.com		

Our Story: CEO Jodie Wu's idea was sparked when she returned from an MIT development class trip to Tanzania in 2008, frustrated at the inadequacies of solutions. She had brought a corn sheller that she worked on for most of the semester, expecting this intermediate technology to have profound impact. But she soon learned that the design's problems of seasonality, cost, weight, and the permanent alteration of the bicycle did not hold the answer for people earning \$2/day. She realized that if she made it a removable bicycle attachment, it would be possible reach smallholder farmers with innovative pedal-powered technologies. The following summer, she returned to Tanzania with a novel prototype. This time, the prototype morphed into a small business that paid for itself in two weeks. After that, the GCS team was formed, which developed a business plan that won MIT's \$100K Business Plan Competition and launched in Tanzania. In August of 2009, the team won 2nd place at Arusha's Nane-Nane Agricultural Fair for northern Tanzania, and followed with 1st place at Mbeya's Nane-Nane Agricultural Fair for southern Tanzania na 2010. Jodie was also selected as a 2010 Echoing Green Fellow for GCS. The team grew to include Tanzanian sales staff and craftsmen, which led to the production of the bicycle phone charger invented by Bernard Kiwia, a Tanzanian. The team has also developed a supply chain and relationships with dealers and Uganda.