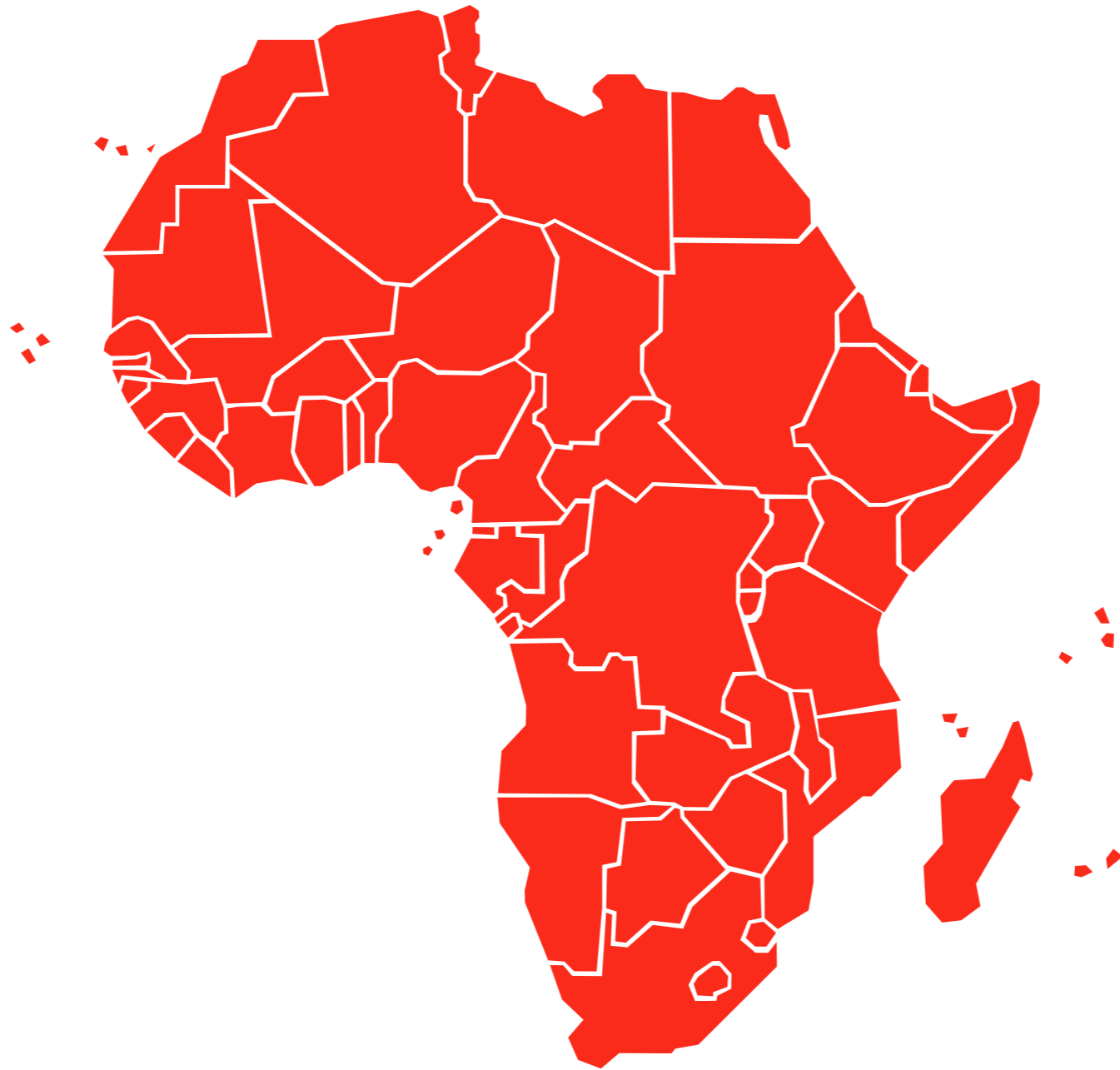


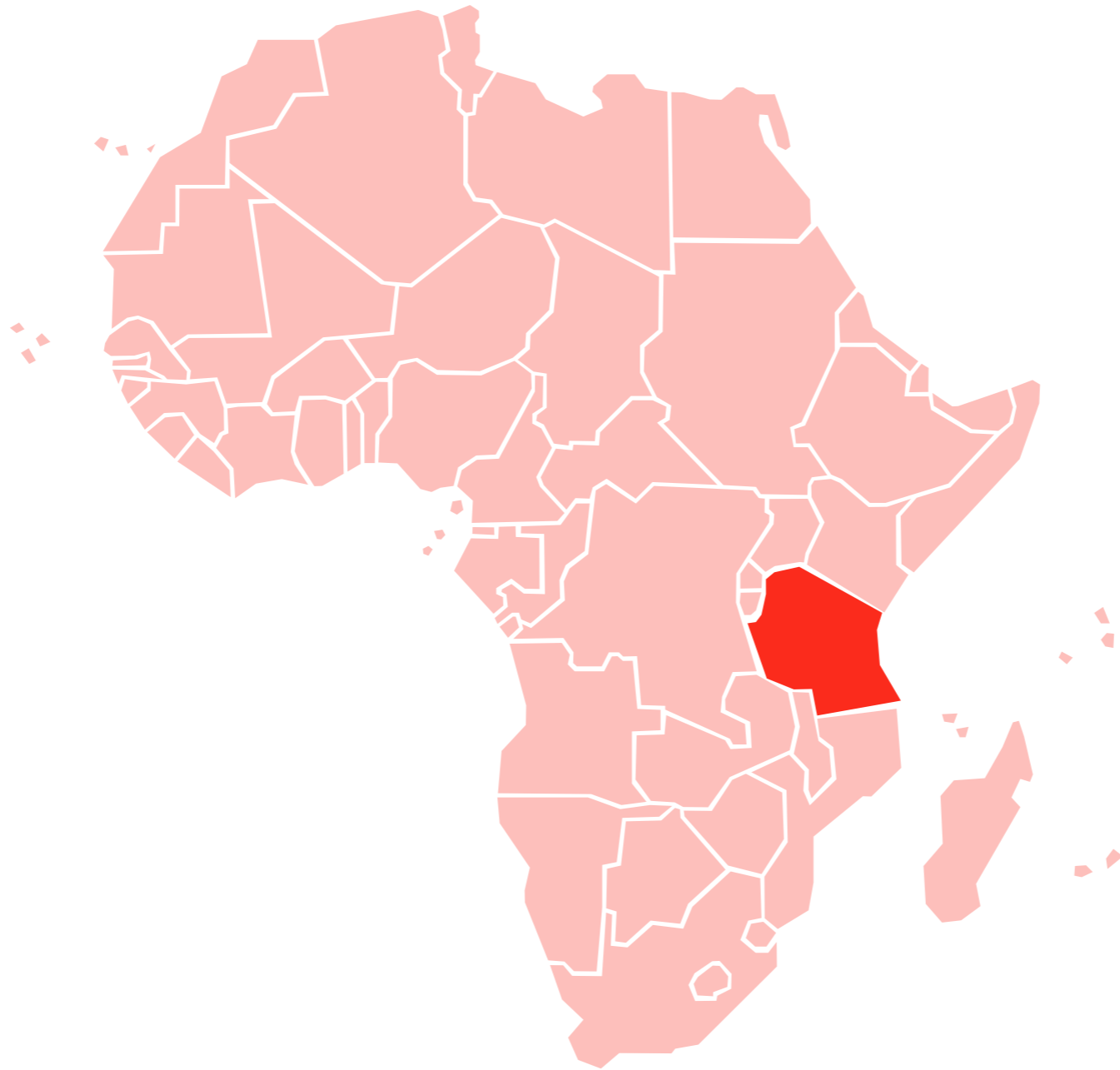


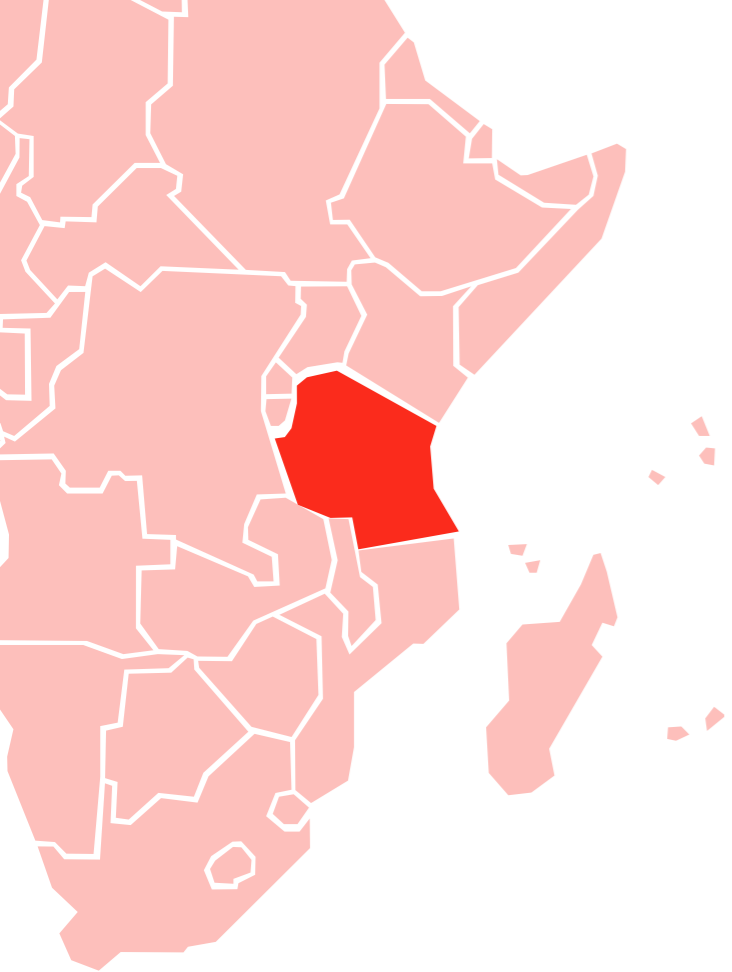
Sketch Model Review

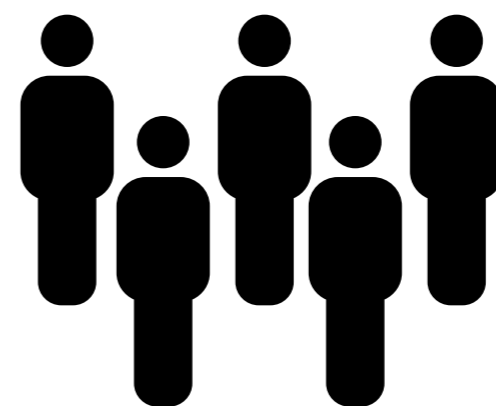
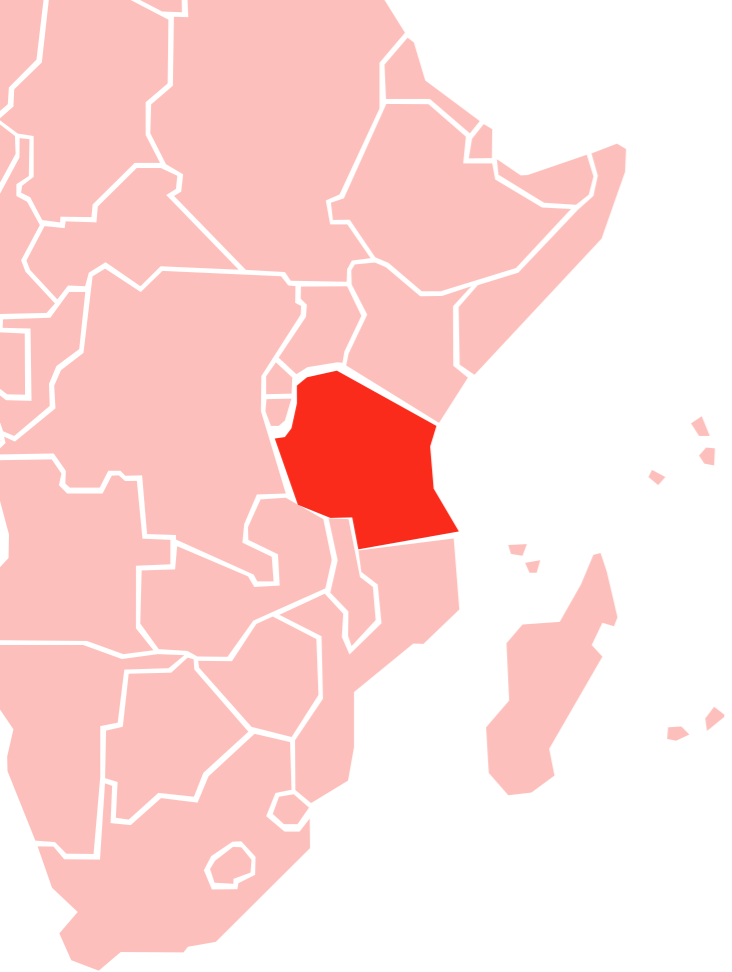
MotoThresher

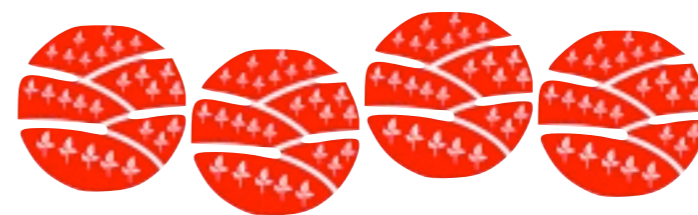
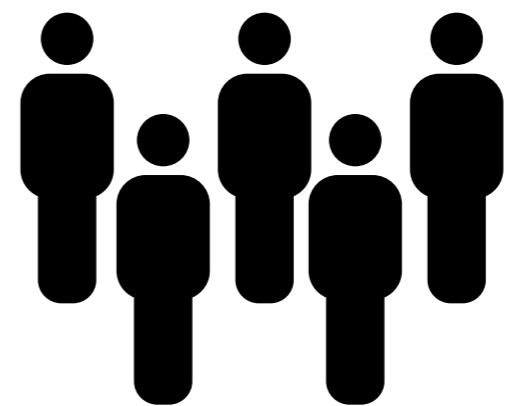
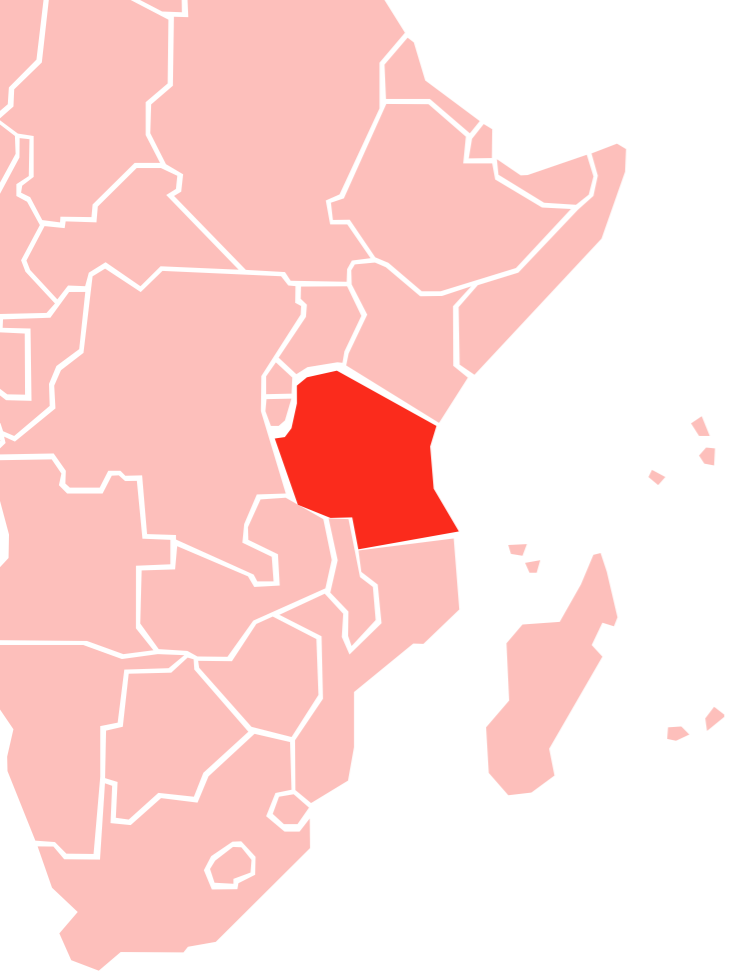
Empowering Tanzanian Farmers

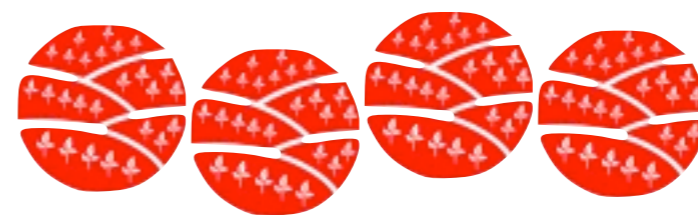
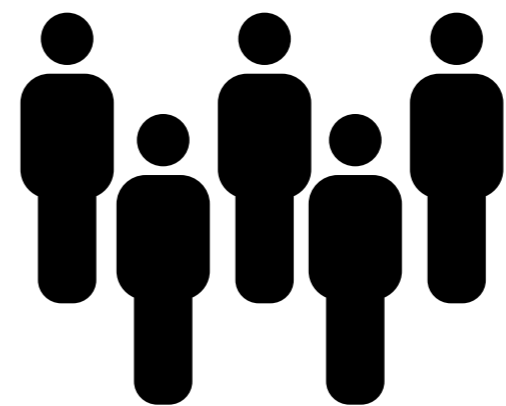
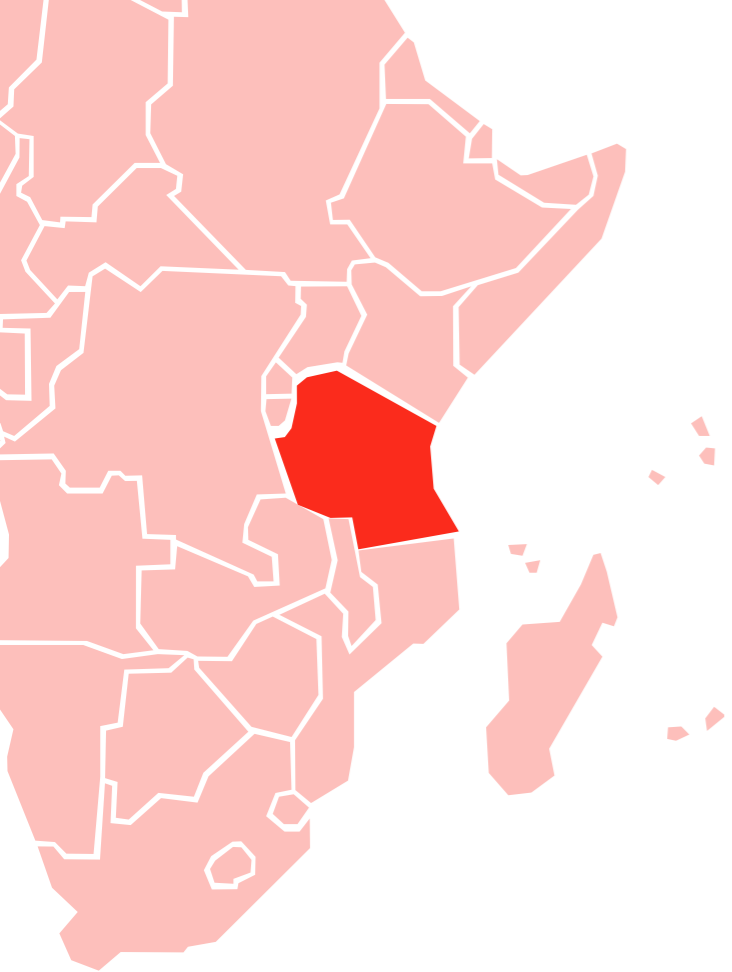


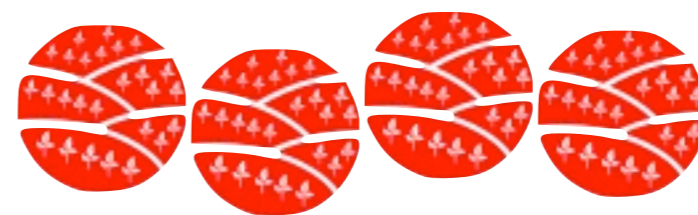
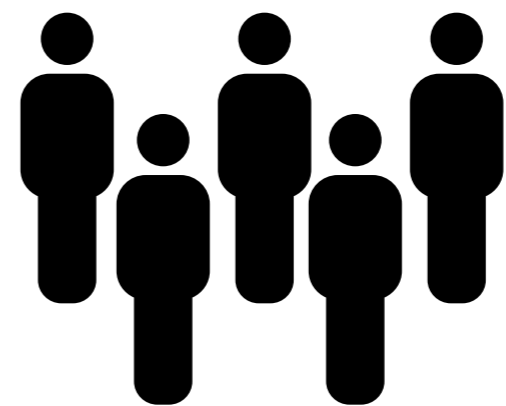
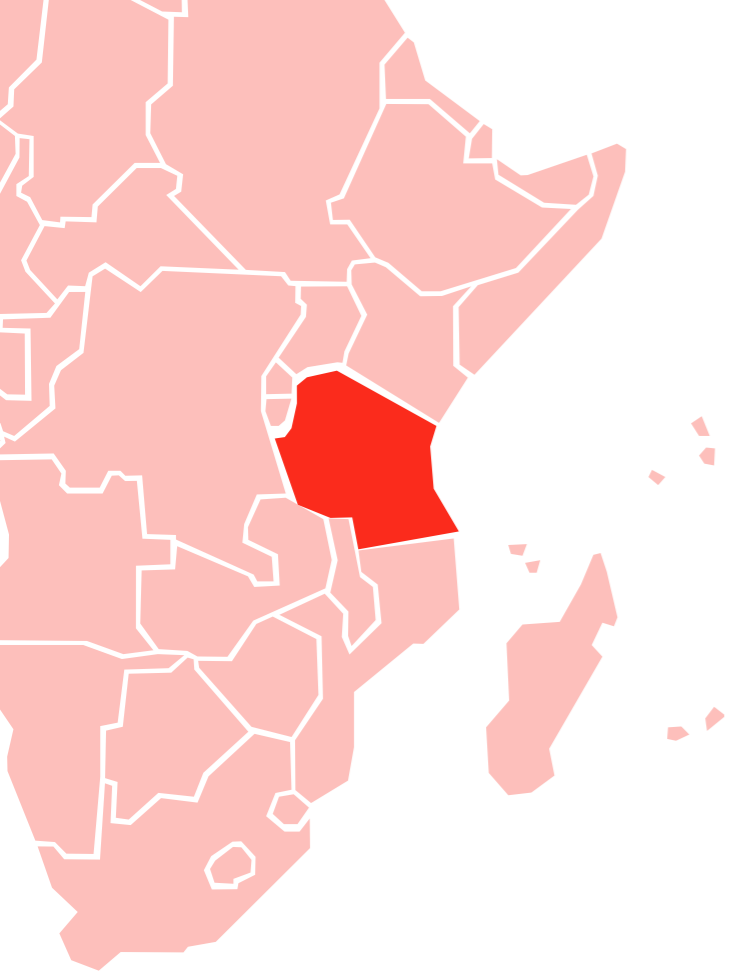












price [\$]

\$3000

\$115



MotoThresher

50

100

300

throughput [kg/hr]



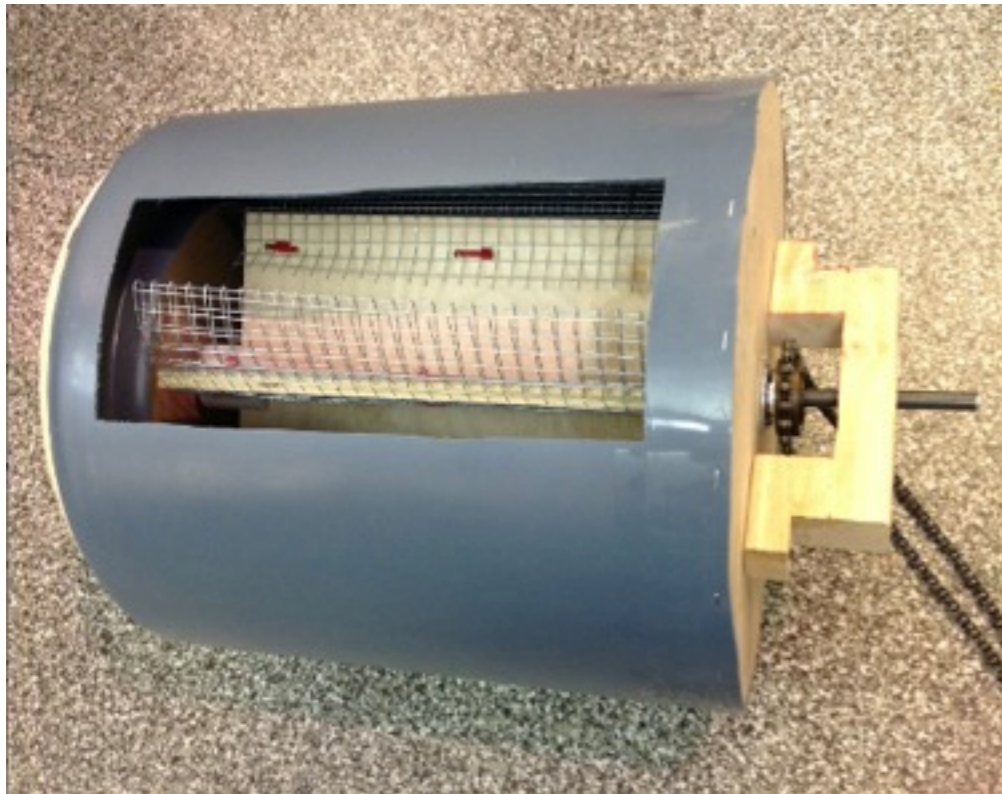
Product Contract

**A motorcycle-powered grain thresher
for Tanzanian farmers**

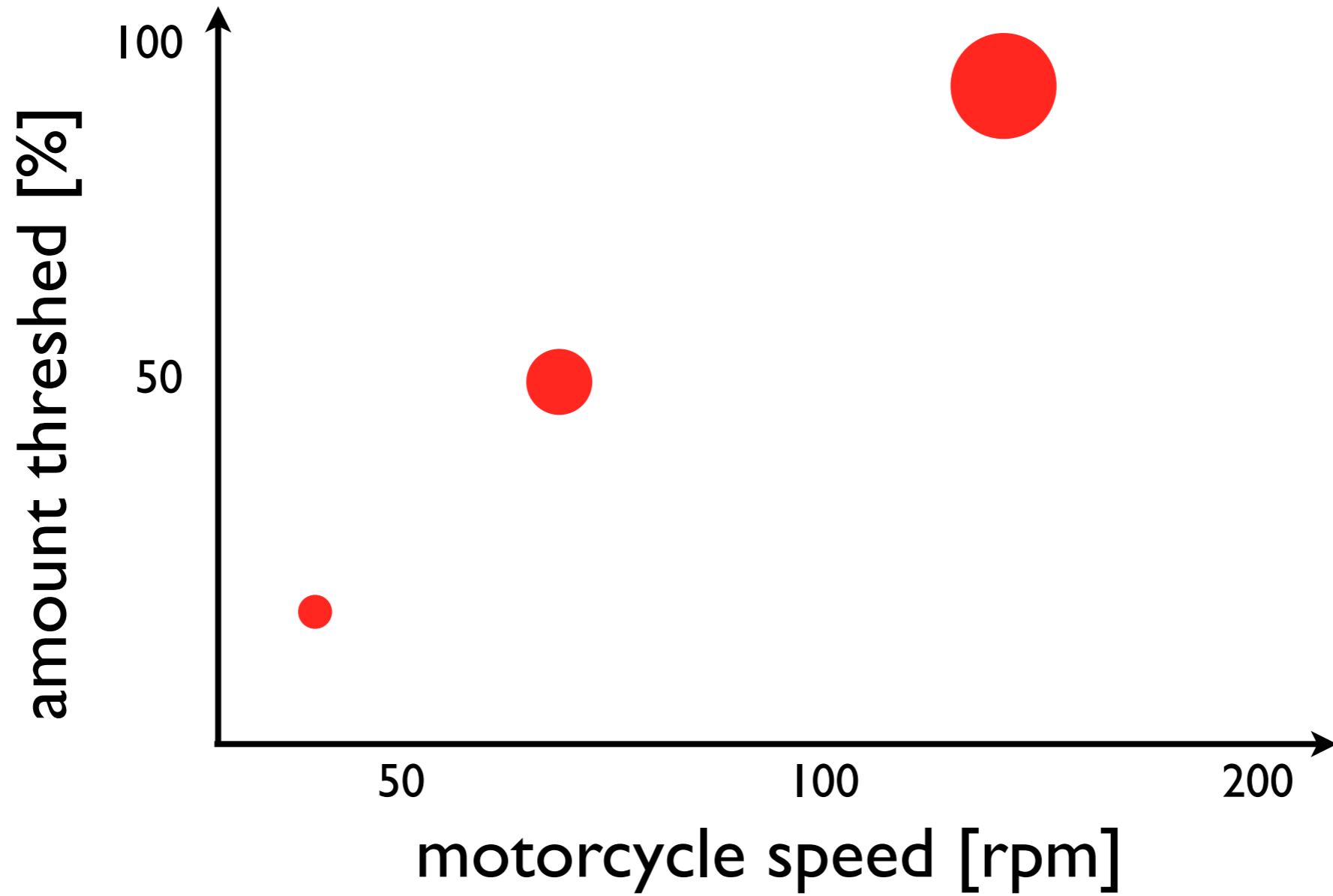
Customer Need	Product Attribute	Engineering Specifications
More efficient than traditional methods	Throughput [kg grain processed / person-hours]	50kg/hour
Can be towed by a motorcycle	Weight [kg]	<50kg
Affordable	Cost [\$USD]	~\$100USD
Adaptable to various motorcycles	Universal connection	No modifications to bike required
Multi-crop capabilities	Capable of processing different inputs	Rice, wheat, millet
User operability	Safety	Moving parts not exposed to user

Can we design an effective
threshing mechanism?

Threshing



Threshing performance



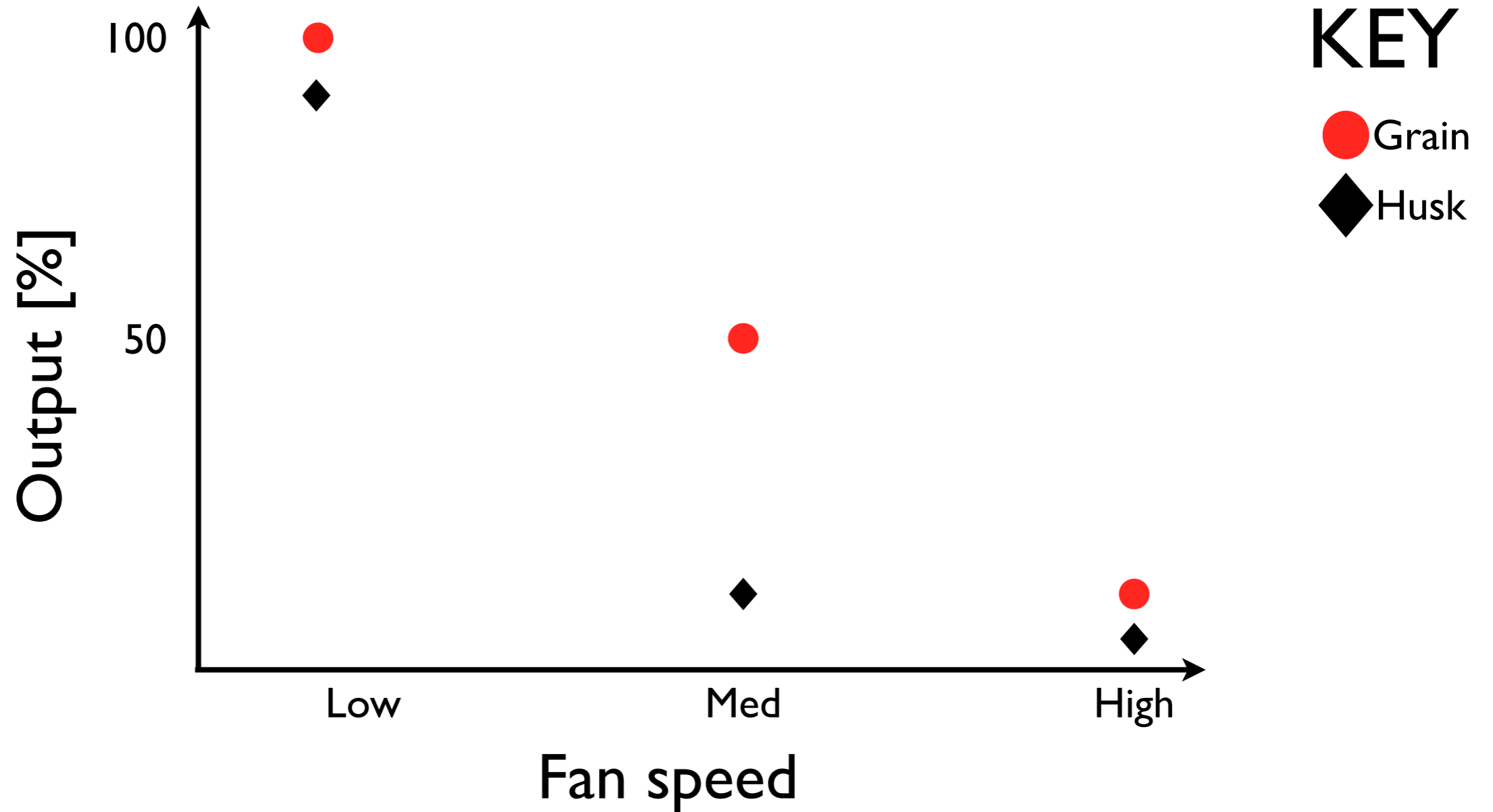
Can we winnow
effectively using a fan?

Winnowing

- Separation of the grain from the husk
- Wind blows lighter material away
- Heavier material collected at the bottom



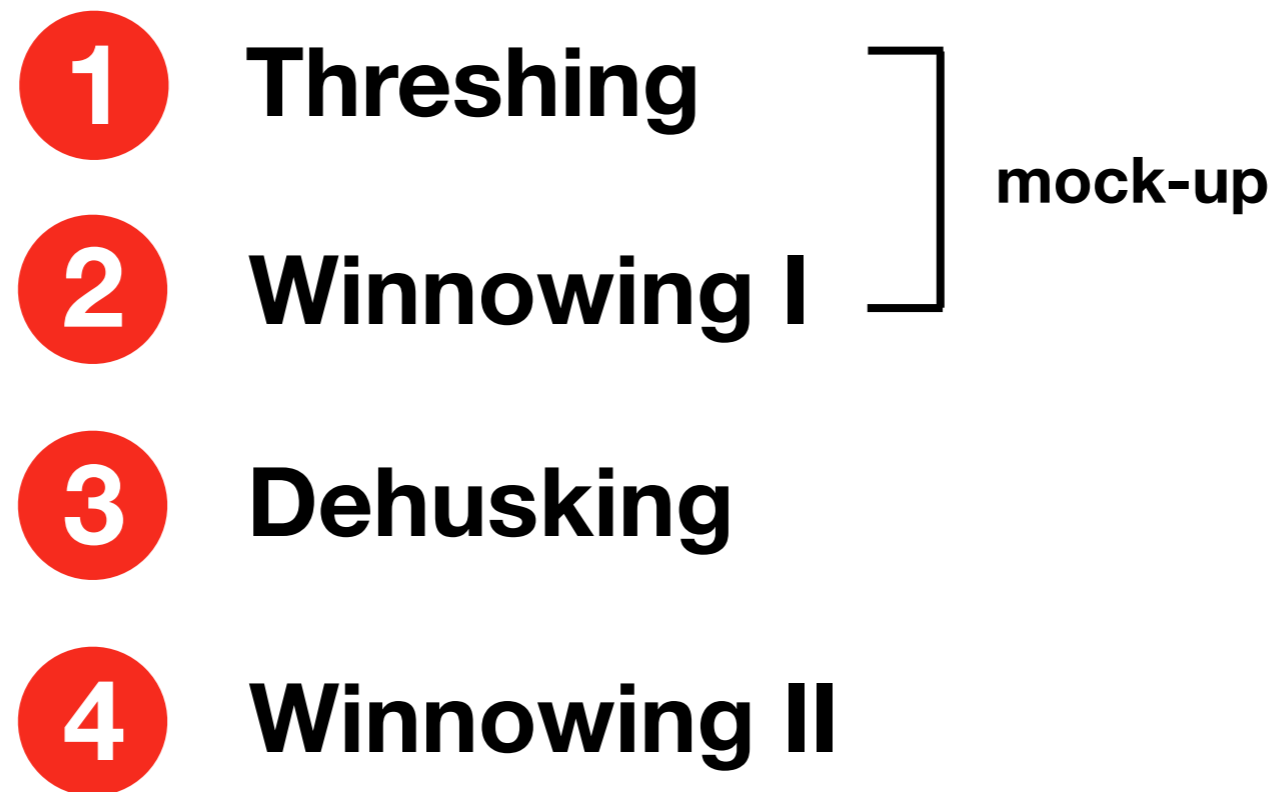
Winnowing performance



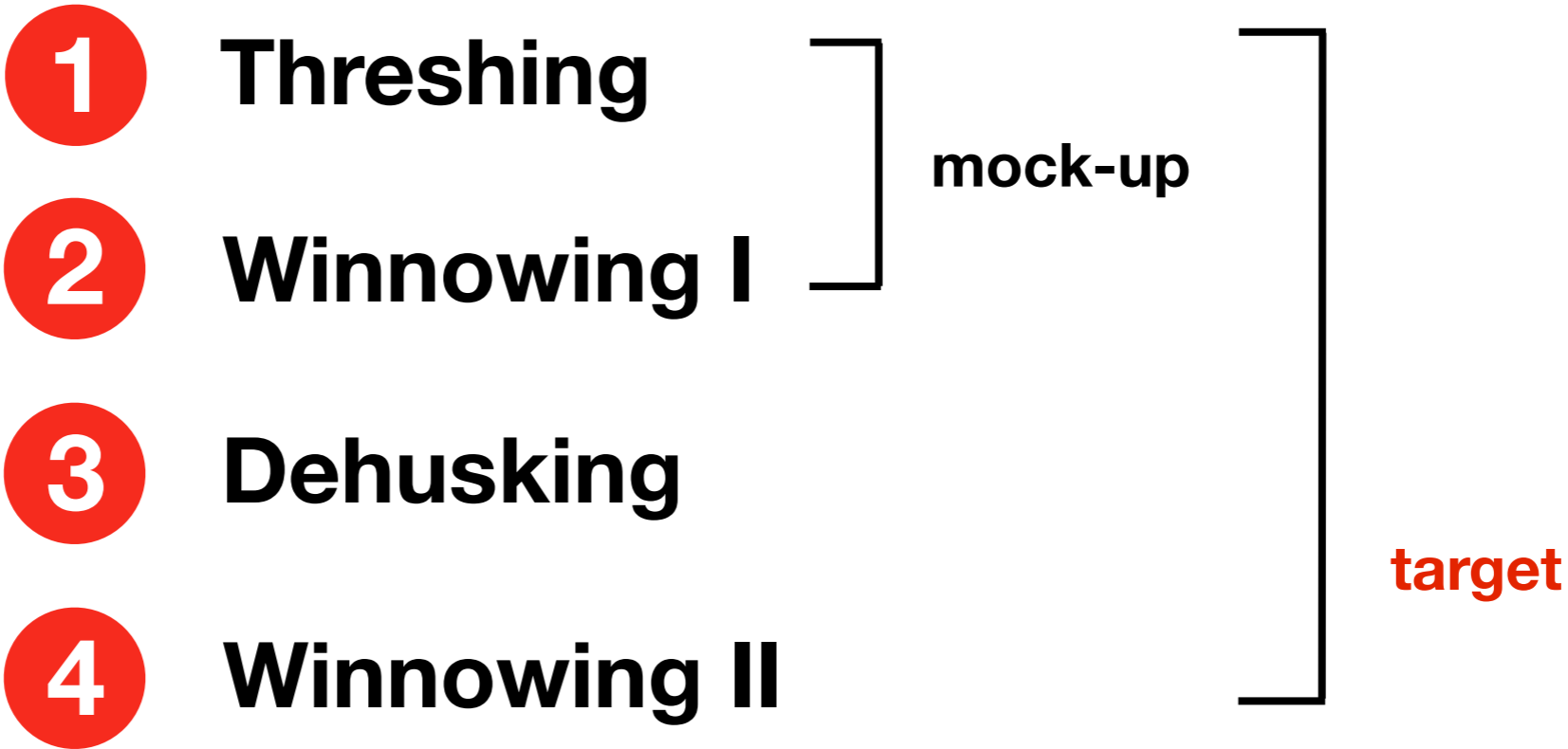
Future Plans

- 1 Threshing**
- 2 Winnowing I**
- 3 Dehusking**
- 4 Winnowing II**

Future Plans

- 1 Threshing**
 - 2 Winnowing I**
 - 3 Dehusking**
 - 4 Winnowing II**
- mock-up
- 

Future Plans



MotoThresher

Empowering Tanzanian Farmers

