

# Consumer's willingness to pay for healthier parboiled rice in Africa: An homegrown experimental action approach



Kamga Boubda Armel Rodrigue<sup>1</sup>, Sali Atanga Ndindeng<sup>2</sup>, De Magistris Tiziana<sup>1</sup>

<sup>1</sup>Agrifood Research and Technology Centre of Aragon (CITA), Agrifood and Natural Resource Economics, Spain <sup>2</sup>Africa Rice Center (AfricaRice), Côte d'Ivoire

### 1- Background



Rapid urbanization of African cities

Changes in lifestyle and dietary patterns



Consumer's preferences and purchasing decisions affected

## $WTPij = \alpha + \beta'Xj + eij ... ... ... ... ... ... ... ... 1$

### 4- Rice types used during auction mechanism







a

## 2- Objective

Investigate consumers' WTP for a healthier and novel rice variety (parboiled Orylux 6 rice) with a positive nutritional property such as ultra-low glycaemic index (GI=22) in the urban city of Bouaké, Côte d'Ivoire.

#### **3- Method**

Homegrown experimental auction (Becker-DeGroot-Marschak Mechanism) was conducted with 231 household consumers in May 2025.

Treatments	Rounds	Description
Control	1	Product display (no information)
	2	Product display (no information)
Positive frame	1	Product display (no information)
	2	Product display + (nutritional and
		health benefits of consuming
		parboiled orylux 6 rice)
Tasting	1	Product display (no information)
	2	Product display + sensory test