

Addressing the global rodent challenge



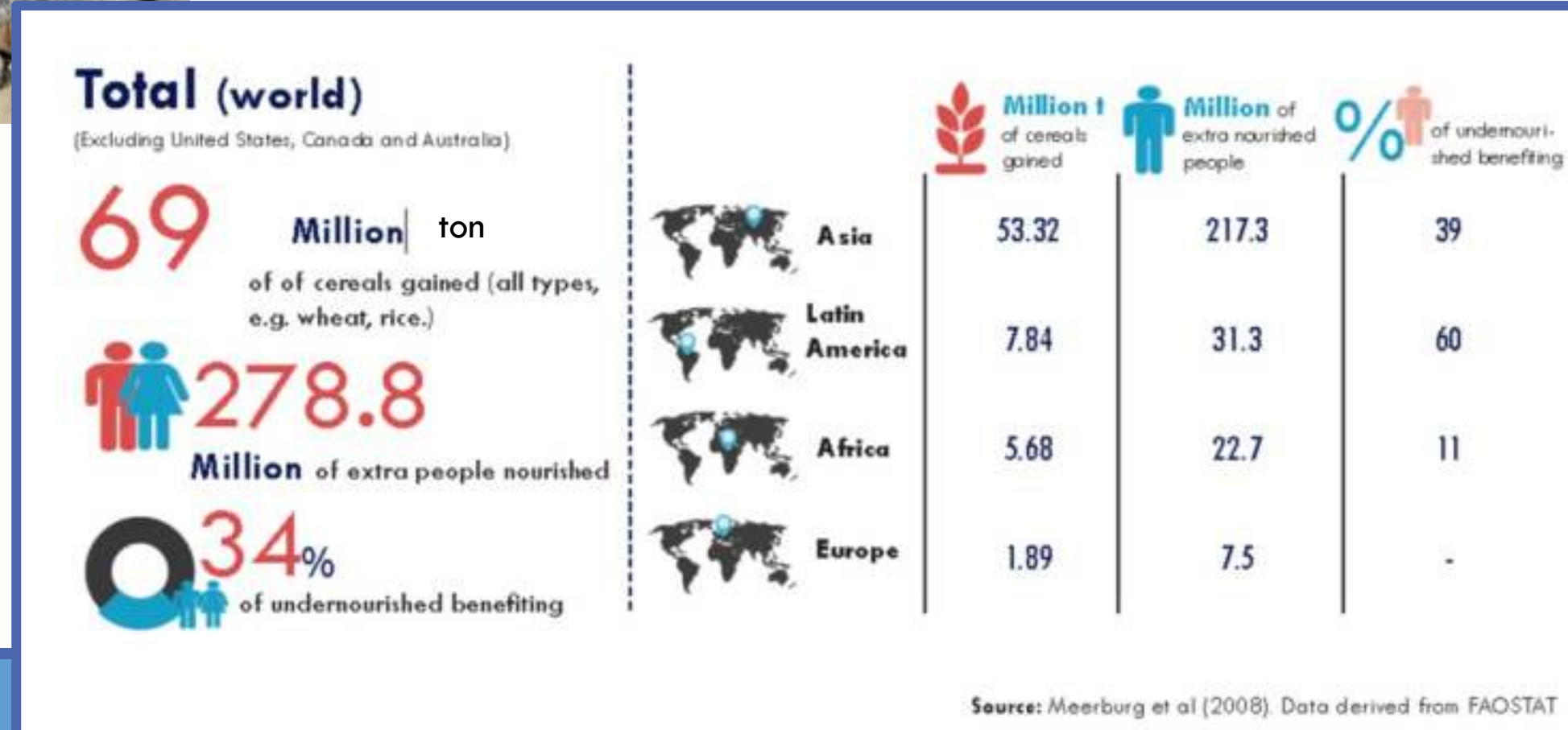


The world has a huge rodent problem
(f.i. 24% loss in SSA)

If we could just manage it...

Overwhelming
food damage
and approx. 60
zoonoses

yet general lack
of action





Urgency for EBRM and bio-rodenticide



MANY DRIVING FORCES MEASURES → RAT ABUNDANCE



INDIVIDUAL RESONSES = INSUFFICIENT



EXISTING CHEMICALS NO LONGER EFFECTIVE

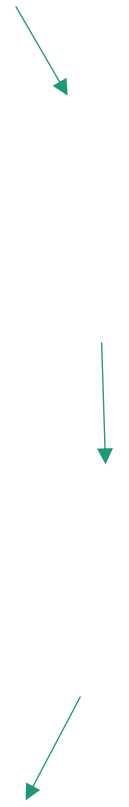


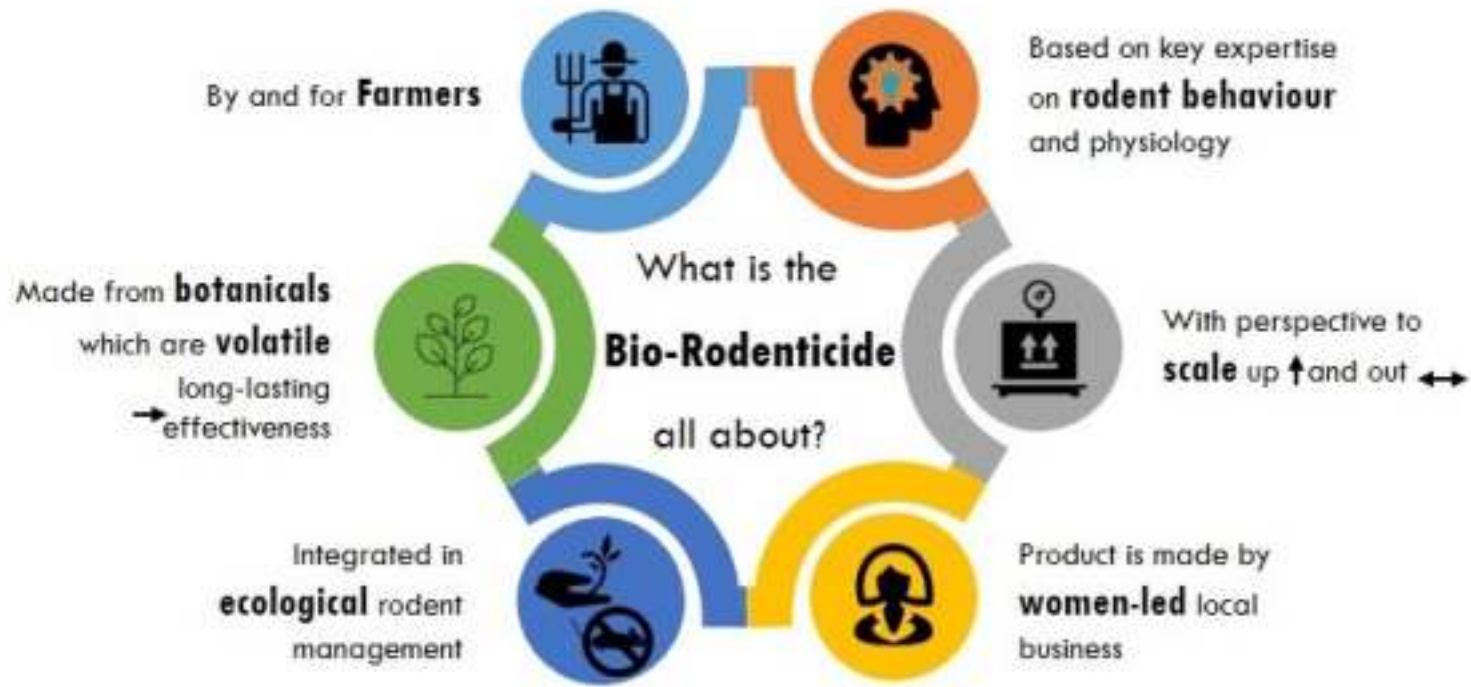
LACK OF NEW PRODUCT DEVELOPMENT





General strategy: control the habitat for the rodent population





Case: Amhara, Ethiopia

- Impressive landscape improvement program
- But, also more shelters, better access to food and less natural enemies leading to:
- 25% rodent crop loss (field and storage), in some places >60%.
- Damage to household items
- Village health issues: rodents cause hanta virus, leptospirosis, among 60 other zoonotic diseases





EBRM + Bio-Rodenticide campaign 2020-1 eliminated the rodent damage

Severe woredas	Farta, Wadla and Guna Begiemider
No. of watersheds	36
No. of households	10,140 (average of 5 per household, 50,700 people)
35% of households	Keep houses and compound clean, use improved storage, no open food nor garbage, and plugging of entry holes or hiding places for rats with solid material
3,727 cats	Kept domestic cats, widely used against rats
1641 hermetic bags	Used by farmers , and new storage system developed
On 1,167 ha	Rat shelters destroyed by digging, deep ploughing, flooding,
593 km	Stone bunds devoid of grasses and vegetation aiming to expose rats to predators
100 birr/day	Penalty when missing community campaigns, and 10 Birr for late comers: community bylaw
Bio-rodenticide	Applied and produced under control through women producer groups
Rodent damage	From >25% to <10% <ul style="list-style-type: none"> •Crop stand has improved •Patches hit hard before have revived •Initiation of tillers greatly improved

Successfully developing the innovative bio-rodenticide

- Efficacy tests
- Acceptance/ palatability test
- Non-target species
- Field trials
- Shelf life test



Olam Food Price
November 2021

Way forward: Rodent Green



- Service provider in:
 - implementing EBRM campaigns in different contexts
 - improve storage and warehouse management
 - doing surveys, inspection, monitoring, awareness, agenda setting
 - sales of bio-rodenticide and other tools through franchise model
 - support sector development
 - improving methods of EBRM and BR (practice, research)
- Cross-subsidy business model and scientific board
- Aim to introduce in five more countries by 2024: India, Niger, Madagascar, Uganda, Turkey

