

Demand-led plant variety design Concepts

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Consultative workshop on Demand-Led Plant Variety Design

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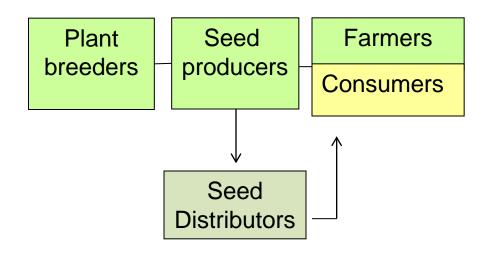
New variety design – drivers and trade-offs

- Smallholder farmers needs
- Plant breeders expertise and training
- Technology
- Institution resources and finance
- Donor priorities
- Government policies
- Institution R&D policies
- Market and consumer drivers



Breeding drivers

Crop production



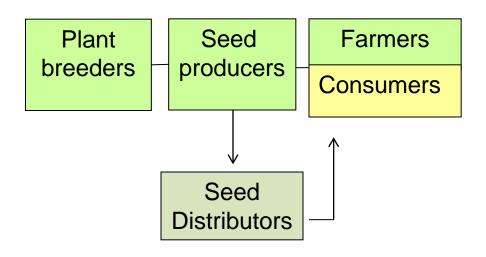
Farmer participatory breeding



Breeder led

"Technology/policy/donor-push"

Crop production



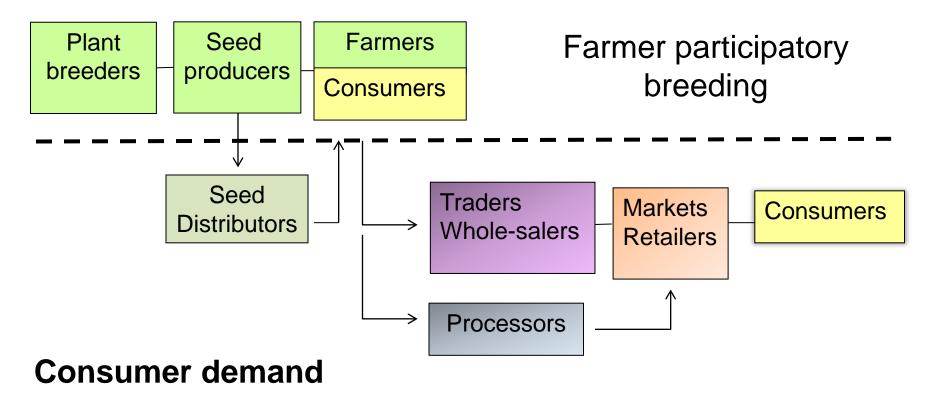
Farmer participatory breeding



Value chain and consumers

"Technology/policy/donor-push"

Crop production

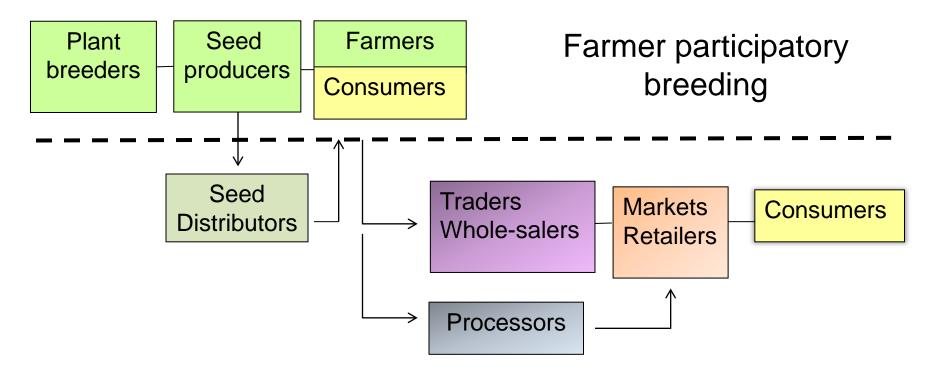


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Demand-led design

"Technology/policy/donor-push"

Crop production

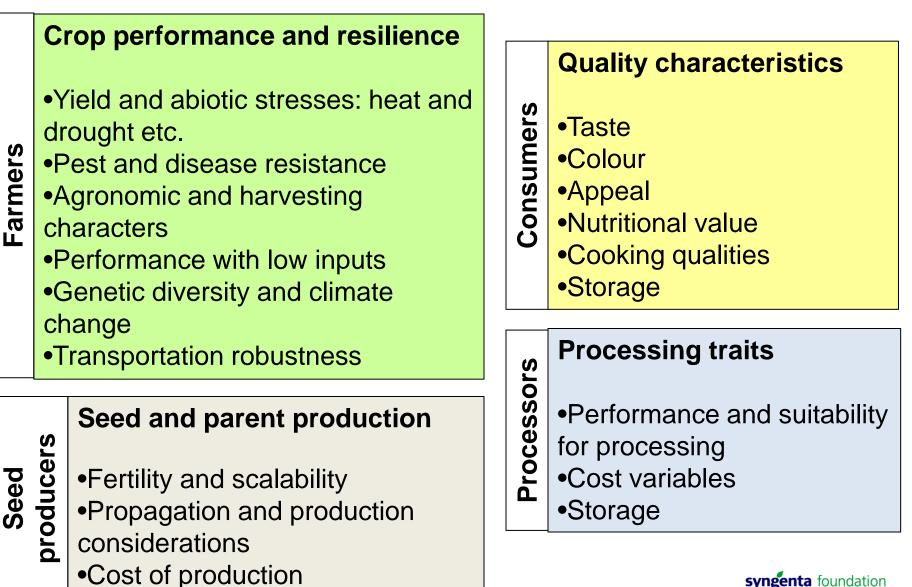


"Demand-led pull"

agriculture

Consumer demand

Systematic demand-led market research



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Core principles -1

1. Smallholder farmers and consumers

- Understand needs and preferences
- Put first to drive the priority-setting

2. Value chain

• Understand buying and selling decisions of each stakeholder in the supply chain: farmer to consumer

3. Market research

- Rigorous use of proven MR tools/approaches with farmers, consumers and stakeholders
- Define the performance standard and priority of each varietal characteristic
- Test and validate key assumptions throughout variety development

4. Market trends and drivers

- Longer-term visioning of key drivers of change and needs of farmers and markets e.g. government production and trade policies, enabling regulatory environment, climate change etc
- Development timescales

Core principles -2

5. Public-private knowledge and expertise

- Integration of best practices from both public and private sectors
 - linking breeders with seed distribution and value chains
 - market research
 - breeding priority setting
 - designing variety specifications
 - technology solutions
 - linking farmers with markets
- Public private partnerships (PPPs) where benefits cannot be achieved by parties alone

6. Varietal design and solution development

- Multi-functional team approach
- Full range of creative possibilities including: feasibility, cost and trade-offs of needs vs. likelihood of success
- Concept and prototype testing with farmers, consumers and value chain throughout variety development and release/distribution

Thank you for your attention

