Wageningen Centre for Development Innovation

12 May 2017, Hedwig Bruggeman (CDI)
Guiding sector transformation
BENEFIT partnership - Ethiopia

BENEFIT unites 4 agricultural development projects

<table>
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<tr>
<th>Logo</th>
<th>Project Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>[Image]</td>
<td>ISSD</td>
<td>Integrated Seed Sector Development Ethiopia</td>
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<tr>
<td>[Image]</td>
<td>ENTAG</td>
<td>Ethiopia–Netherlands Trade for Agricultural Growth</td>
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<tr>
<td>[Image]</td>
<td>SBN</td>
<td>Sesame Business Network support project</td>
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Main objectives BENEFIT

- Increased quantity and quality of sustainable agricultural production
- Improved markets and trade
- Strengthened enabling institutional environment for the agricultural sector
- Projects working together in the BENEFIT Partnership are
  - more effective,
  - achieve higher scale and impact, and
  - demonstrate improved stakeholder collaboration
The BENEFIT projects collaborate with

- Ministries:
  - Ministry of Agriculture and Natural Resources
  - Ministry of Livestock and Fisheries
  - Ministry of Trade
  - Ministry of Industry
  - Ethiopian Transformation Agency (ATA)

- 11 Ethiopian knowledge and research institutes:
  - 6 universities,
  - 4 regional agricultural research institutes and
  - Ethiopian Institute of Agricultural Research

- Oromia Seed Enterprise
BENEFIT targets for 2019

- 3 million smallholder farmers reached with improved agricultural practices and technologies, including quality seed, and access to markets;
- 230 cooperatives and associations and 2,500 SMEs and entrepreneurs supported;
- Direct investment of 22 Dutch/international companies;
- 1,800 research and extension staff at national, regional and Woreda level trained;
- 100 improved technologies, practices and/or innovations introduced
Integrated Seed Sector Development

By **improving** farmers’ **access** to and **use** of quality seed of new, improved and farmer-preferred varieties, we aim to **increase** **productivity** thereby contributing to food security and economic development for poverty reduction.
Integrating Seed Sector Development

- **Improving farmers’ access to quality seed** of new, improved and farmer-preferred varieties

- **Sector approach** contributing to increased *agricultural productivity* and enabling environment

- **Systems approach** focusing on informal, intermediary and formal seed systems

- Promoting **profitable seed business** and seed value chain development

- **Scaling** the approach and **tailoring** it to **national** and **local** context

- **Facilitating change processes**

ISSD guiding principles video: https://www.youtube.com/watch?v=4BQxR5vdvZw
The ISSD Ethiopia programme

Informal seed systems
direct: 36,000 farmers
indirect: 750,000 farmers

Intermediary seed systems
direct: 12,000 farmers

Formal seed systems
seed companies: 25 private – 5 public

Seed value chains
address challenges: pilots + scaling | seed platforms: 5 regional + 1 national

Enabling environment
advocacy to include evidence based innovations in policy frameworks (6x)

Professional capacities
The capacity building for scaling up of evidence-based best practices in agricultural production (CASCAPE)

- Improving agricultural productivity
- Through promoting evidence based best fit agricultural practices;
- Contributes to an agriculture innovation ecosystem;
- Partner in WB financed Agricultural Growth Programme;
In depth research

- Fertilizer trials: make soil type specific fertilizer recommendations for most important crops;
- Drivers for adoption studies, including use of panel data;
- MonQIT: nutrient balances and impact at field and farm level;
- Methodology development for integrated technology assessment;
- Soil mapping (1:250,000)
Some results

- Carries out on-farm research and demonstrations on 1033 farms (2016);
- Scaling trials with 16320 farmers (2016);
- Delivered 18 best fit practice manuals (2016);
- Works with woreda level administrators to include these technologies in woreda development planning in 65 woredas;
- Special studies, soil mapping, recommendation mapping, drivers for adoption add to scientific base.
Ethiopian-Netherlands Trade Facility for Agribusiness (ENTAG)

- Improved markets and trade & strengthened institutional environment through supporting agribusiness in Ethiopia

1. Support individual companies
2. Sector development
3. Individual and sector funds

- Collaboration with private sector associations
  - Poultry
  - Aquaculture
  - Spices
  - Pulse crops
Putting research into action

Stakeholder network & support programme
Action research/evidence based approach

- Agricultural practices
- Yield measurement and harvest & PH losses
- Production and credit costs
- Credit costs
- Social inclusion: labour, gender & youth
Good Agricultural Practices: 20 steps

20 Steps

1. Land cleaning and first ploughing ........................................2
2. Rotation crops .......................................................................4
3. Land preparation ...................................................................6
4. Using treated/dressed seeds ..................................................8
5. Sowing (seed rate and depth in row planting) .........................10
6. Fertilizer application .............................................................12
7. Gap filling ............................................................................14
8. Weeding ................................................................................16
9. Thinning ...............................................................................18
10. Pest scouting .........................................................................20
11. Pest control ..........................................................................22
12. Maturity and harvesting ........................................................23
13. Preparation of drying spots ....................................................24
14. Stacking and drying ..............................................................25
15. Threshing .............................................................................26
16. Winnowing and cleaning .......................................................27
17. Bagging ...............................................................................28
18. Loading, transporting and unloading ....................................29
19. Storing...................................................................................30
20. Monitoring and evaluation ....................................................32
Examples of ongoing collaboration with CG

ICRISAT & CASCAPE  soil fertility
ILRI & ENTAG  national poultry & aquaculture strategies
CIP & ENTAG  potato value chains & markets
CIAT & ENTAG  inclusive business models
CIMMYT & ISSD  training on seed business management; promotion of small seed pack use
Bioversity & ISSD  crowd-sourcing: fast deployment of released and local varieties
ICARDA & ISSD  scaling access to seed of malt barley, faba bean, and chick pea
ICRISAT & ISSD  ISSD paper International workshop Community based seed production (FAO-ICRISAT)
ILRI & ISSD  forage seed training seed producers (FeedSeed)
Thank you

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Knowledge in action
## Potential future collaboration with CG

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<tr>
<td>ILRI &amp; CASCAPE</td>
<td>Collaboration with Africa RISING (ILRI)</td>
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<tr>
<td>ILRI–ICRISAT &amp; ENTAG</td>
<td>Collaboration around aquaculture, poultry, dairy, legumes, spices and sesame</td>
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<td>ICRISAT &amp; SBN</td>
<td>Attention to sesame breeding – this is an ‘orphan’ crop, especially non-shattering varieties</td>
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<tr>
<td>ICRISAT–ICARDA–CIMMYT &amp; ISSD</td>
<td>Release/scaling of new varieties in Ethiopia</td>
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<td>CIMMYT &amp; ISSD</td>
<td>Upscaling of small seed packages</td>
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<tr>
<td>CIP–IITA &amp; ISSD</td>
<td>Tools and methods for measuring and understanding farmer demand (RTB programme)</td>
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