Continuous Improvement
Do you know EiB?
Excellence in Breeding

Module 1
Product design and management

Module 2
Optimizing Breeding schemes

Module 3
Genotyping Tools and services

Module 4
Breeding Operations and Phenotyping

Module 5
Bioinformatics, Biometrics and data management
Breeding Operations and Phenotyping
Our goal is....

That Platform members breeding programs have the most cost efficient phenotypic process, from field preparation to data collection.
M4 support

1. Agronomic Practices
2. Seed Processing/conditioning
3. Planting and harvesting
4. Phenotyping
5. Continuous Improvement
Why continuous improvement?
As defined by DDGs, head of breeding, funders and other stakeholders during the EIB annual meeting in 2019, and documented in the vision of a modern breeding program, one of the important component is that the CGIAR breeding programs need to have implemented a culture of continuous improvement.
Pillars of a world-class breeding program

- **Focus on developing products and adoption for impact**
  - Double the rate of genetic gain
  - All breeding activities are targeted by clear targeted product profiles that define customer and their needs
  - Target market segments are defined and linked to distinct germplasm pools and breeding schemes

- **Optimized breeding schemes**
  - Variety development, parent development, identification and validation of novel genetic diversity are distinct and separate activities
  - Breeding cycles are shortened towards the biological limit
  - A stage gate system is implemented to manage breeding activities

- **Data accuracy, cost & throughput**
  - Appropriate use of technology to increase genetic gain per dollar invested
  - Selections made on high-quality trials
  - Continuous and accurate data collection
  - Current best practice data management and quality control
  - Breeding costs known and readily retrieved

- **Maximized evaluation accuracy**
  - Genetic gains assessed annually
  - Best practice implementation of trial designs
  - Reliable generation of data representative of targeted population of environments to select parents earlier
  - Latest phenotyping and genotyping technologies exploited

- **Impactful breeding pipeline**
  - A defined pipeline is established to deliver high-quality germplasm from first cross to adopted varieties
  - Sufficient data is generated and available to enable customers and growers to make informed variety choices

Continuous improvement culture

- **Full use of external trialing and germplasm**
- **Breeding teams are the experts**
- **Clear pathway and metrics** to deploy new and successful breeding methods
- **Annual review** of performance metrics
- Respect and safety for all employees

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CGIAR Excellence in Breeding Platform
What do you mean about Continuous Improvement?