TECHNICAL NOTES

for preparing the 2017 African Agriculture Transformation Scorecard on implementing Commitments of the June 2014 AU Heads of State Malabo Declaration

The 2017 Progress Report on African Agricultural Transformation for implementing the Malabo Declaration is due at the January 2018 AU Assembly of Heads of State and Government

Draft March 2017, Reviewed July 2017
Introduction

The African Union (AU) Commission is preparing the 1st Report on the implementation of the June 2014 AU Assembly Declaration on the Malabo Commitments for agricultural transformation in Africa; a report which is due for the January 2018 AU Assembly.

The Report is currently being prepared and will be a compilation of data expected from the 55 AU Member States that are being trained to carry out self-assessments and provide their individual progress report for achieving each target set in the Malabo Declaration.

Member states are preparing their report using the Country Reporting Template and Technical Guidelines that are developed in line with the 7 performance themes of the Malabo Declaration, where 23 performance categories and 43 indicators have been prioritized to be tracked and reported on by member states for the 2017 reporting round.

The seven (7) performances themes of the Malabo Declaration include:

- Theme 1- Commitment to CAADP process
- Theme 2- Investment finance in Agriculture
- Theme 3- Ending Hunger
- Theme 4- Eradicating Poverty through Agriculture
- Theme 5- Intra-African Trade in Agriculture commodities
- Theme 6- Resilience to Climate Variability
- Theme 7- Mutual Accountability for Actions and Results

Agreement reached by the leadership of the AU Commission is to evaluate the progress made by individual member state in the form of Balanced Scorecard and to come up with the African Agricultural Transformation Scorecard, using appropriate methods to benchmark country performance in achieving targets set in the Malabo Declaration.

Benchmarking methods are metric methods that bring accuracy, rightness and fairness in evaluating progress for achieving a specific goal for which smart targets and corresponding indicators have been designed and agreed upon. The methods can help to get a Balanced Scorecard that enables peer-to-peer metric comparison of performances in order to stimulate continuous improvement of interventions towards the common agreed targets. In this case, the clarity of the benchmarking model seeks mainly to allow Member States to see how their performance is measured, and to search for best practices in order to overcome identified challenges, while reinforcing the culture of continuous improvement and providing sense of urgency in achieving agriculture Sector goals for Africa.

These 2017 Technical Notes, while recalling methods used in the AU's Malabo Biennial Review Technical Guidelines to calculate each performance indicator, provide as well further details on the methods used to calculate the Performance Indices and reference points for performance measurement that permit to set a right score in the Balanced Scorecard, accordingly with the agreed weighting systems.

In line with the performance structure set for the Biennial review exercise, the models in this document, provide: the I-score which is the score attributed to the performance Indicator; the C-score which is the combined score of the performance Category; the T-score which is the combined score of the performance Theme; and the O-score which is the Overall score in achieving the Malabo declaration. The milestone and the Benchmark as appeared in the document, are respectively the current values (minimum) of the indicator and the score, for the country to be on track for achieving the target set for the target year.

These Technical Notes will serve as basis for the design of the database for country data compilation to generate the 2017 Malabo Scorecard.
ADOPTED WEIGHTING SYSTEM

for designing the balanced African Agricultural Transformation Scorecard: The Performance Structure.
<table>
<thead>
<tr>
<th>Performance Theme</th>
<th>Performance Category</th>
<th>No.</th>
<th>Item</th>
<th>T-weight</th>
<th>C-weight</th>
<th>No.</th>
<th>Item</th>
<th>Performance Indicators</th>
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<td>1</td>
<td>Commitment to CAADP Process</td>
<td>PC.1.1</td>
<td>Country CAADP Process</td>
<td>14.8%</td>
<td>4.8%</td>
<td>PC.1.1</td>
<td>CAADP Process Completion Index (CAADPR)</td>
<td>1.1</td>
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<td>2</td>
<td>Investment Finance in Agriculture</td>
<td>PC.2.1</td>
<td>Public Expenditures to Agriculture</td>
<td>14.3%</td>
<td>3.6%</td>
<td>PC.2.1</td>
<td>Public agriculture expenditure as share of total public expenditure (PAE)</td>
<td>2.1.1</td>
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<td>3</td>
<td>Ending Hunger</td>
<td>PC.3.1</td>
<td>Access to Agriculture inputs and technologies</td>
<td>14.3%</td>
<td>2.9%</td>
<td>PC.3.1</td>
<td>Fertilizer consumption (kilogram of nutrients per hectare of arable land), (Fz)</td>
<td>3.1.1</td>
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<td>4</td>
<td>Agricultural Productivity</td>
<td>PC.3.3</td>
<td>Growth rate of the ratio of supplied quality agriculture inputs (seed, breed, fingerlings) to the total national inputs requirements for the commodity (FagI)</td>
<td>2.8%</td>
<td>6.2%</td>
<td>PC.3.3</td>
<td>Growth rate of agriculture value added, in constant US dollars, per agricultural worker (FagW)</td>
<td>3.2.1</td>
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<tr>
<td>5</td>
<td>Post-Harvest Loss</td>
<td>PC.3.4</td>
<td>Reduction rate of Post-Harvest Losses for at least the 5 national priority commodities, and possibly for the 11 AU agriculture priority commodities (TFL)</td>
<td>2.8%</td>
<td>2.9%</td>
<td>PC.3.4</td>
<td>Budget lines (%) on social protection as percentage of the total resource requirements for coverage of the vulnerable social groups (TSP)</td>
<td>3.4.1</td>
</tr>
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<td>Social Protection</td>
<td>PC.3.5</td>
<td>Proportion of the population that is undernourished (% of the country’s population) (U)</td>
<td>2.8%</td>
<td>6.5%</td>
<td>PC.3.5</td>
<td>Proportion of Minimum Dietary Diversity-Women (MIDDW)</td>
<td>3.5.1</td>
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<tr>
<td>7</td>
<td>Food security and Nutrition</td>
<td>PC.3.6</td>
<td>Proportion of 6-23 months old children who meet the Minimum Acceptable Diet (MAD)</td>
<td>2.8%</td>
<td>0.5%</td>
<td>PC.3.6</td>
<td>Proportion of underweight (% of children under 5 years old) (Uw)</td>
<td>3.5.6</td>
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<tr>
<td>Performance Theme</td>
<td>Performance Category</td>
<td>Performance Indicators</td>
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<tr>
<td>4 Eradicating Poverty through Agriculture</td>
<td>PC 4.1 Agricultural GDP and Poverty Reduction</td>
<td>4.1i Growth rate of the Agriculture Value Added (AgGDP) Growth rate of the agriculture value added, in constant US dollars (AgVA) 0.7%</td>
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<td></td>
<td>PC 4.2 Inclusive PPPs for commodity value chains</td>
<td>4.1ii Agriculture contribution to the overall poverty reduction target (Stand-by) 0.7%</td>
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<td>PC 4.3 Youth job in agriculture</td>
<td>4.1iii Reduction rate of poverty headcount ratio, at national poverty line (% of population) Dpov/N 0.7%</td>
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<td>PC 4.4 Women participation in Agri-business</td>
<td>4.1iv Reduction rate of poverty headcount ratio at international poverty line (% of population) Dpov 0.7%</td>
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<td>4.1v Reduction rate of the gap between the wholesale price and farmgate price (tfgws) 0.7%</td>
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<tr>
<td>5 Intra-African Trade in Agriculture Commodities</td>
<td>PC 5.1 Intra-African Trade in agriculture commodities and services</td>
<td>4.2 Number of priority agricultural commodity value chains for which a PPP is established with strong linkage to smallholder agriculture, (Nc) 3.6%</td>
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<td>PC 5.2 Intra-African Trade Policies and institutional conditions</td>
<td>4.3 Percentage of youth that is engaged in new job opportunities in agriculture value chains, (jyth) 3.6%</td>
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<td>4.4 Proportion of rural women that are empowered in agriculture, (jWE) 3.6%</td>
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<td>6 Resilience to Climate Variability</td>
<td>PC 6.1 Resilience to climate related risks</td>
<td>5.1 Growth rate of the value of trade of agricultural commodities and services within Africa, in constant US dollars (IAT) 7.1%</td>
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<td>PC 6.2 Investment in resilience building</td>
<td>5.2i Trade Facilitation Index (TFI) 3.6%</td>
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<td>5.2ii Domestic Food Price Volatility Index (CV) 3.6%</td>
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<td>7 Mutual Accountability for Actions and Results</td>
<td>PC 7.1 Country capacity for evidence based planning, impl. and M&amp;E</td>
<td>6.1i Percentage of farm, pastoral, and fisher households that are resilient to climate and weather related shocks (RAghh) 3.6%</td>
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<td>PC 7.2 Peer Review and Mutual Accountability</td>
<td>6.1ii Share of agriculture land under sustainable land management practices (SSLM) 3.6%</td>
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<td></td>
<td>PC 7.3 Biennial Agriculture Review Process</td>
<td>6.2 Existence of government budget lines to respond to spending needs on resilience building initiatives (Eg) 7.1%</td>
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Adopted by Task Team @ Nairobi, August 2016 Revised after ToT meeting in November 2016 in Nairobi.
Technical Notes 1

Performance Evaluation for achieving goals under Theme 1: “COUNTRY COMMITMENT TO CAADP PROCESS”
1.1- CAADP process to be fully completed at the country level: Reach 100% of the completion, CAADPpro, by 2018.
I-score_{1.1} \mid \text{Estimating progress on completing CAADP Process}

<table>
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<tr>
<th>Existence of Communication on internalizing CAADP, $p_1$</th>
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<td>Existence of NAIP Appraisal Report, $p_3$</td>
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<td>Existence of NAIP implementation progress Report, $p_7$</td>
</tr>
</tbody>
</table>

2016

\[
\text{average}(p_i)_{1=10}^{7}
\]

(a)

\[
\frac{\text{CAADP}_\text{pro} \times 10}{\tau_{1.1}}
\]

(b)

**TARGET**

$T_{1.1} = 100\%$

(c)

2016 Benchmark

\[
2016 \quad B_{1.1} = \frac{2016 \; \mu_{1.1} \times 10}{\tau_{1.1}} = 3.33
\]

(d)

Baseline Yr \quad 2015

Target Yr \quad 2018

On Track ???
1.2- Multi-sectorial *coordination body* and multi-stakeholder body fully established and operational at national level: Reach **100%** for the Quality of multi-sectorial and multi-stakeholder coordination body, Qc, by **2018**.
I-score\(_{1.2}\) | Estimating progress on establishing multi-sectorial coordination body and multi-stakeholder body

- Existence of the TORs, \(P_{TOR1}\)
- Reflection of the key elements, \(P_{TOR2}\)
- Representation of stakeholders, \(P_{TOR3}\)
- Relevance of membership, \(P_{TOR4}\)
- Existence of List of official nominees and affiliation, \(P_{TOR5}\)
- Performance for meetings held, \(P_{IMT1}\)
- Level of engagement, \(P_{IMT2}\)
- Total number of organizations, \(N_{org}\)
- Total number of meetings organized, \(N_{mor}\)
- Number of organizations present at each meetings organized, \(N_{orgi}\)
- Total number of recommendations taken during the evaluation period, \(N_{RT}\)
- Total number of decisions taken with out of the number of recommendations during the evaluation period, \(N_{DT}\)
- Total expected senior attendance per meeting, \(T_{SA}\)
- Total number of meetings organized, \(N_{mO}\)
- Observed senior attendance at each meetings organized, \(Q_{SA}\)

2016 Benchmark
\[
2016 \quad B_{1.2} = \frac{2016 \mu_{1.2} \times 10}{\tau_{1.2}} = 3.33
\]

2016 Milestone:
\[
2016 \mu_{1.2} = \frac{(2016 - 2015)}{(2018 - 2015)} \times \tau_{1.2} = 33\%
\]
1.3- Evidence-based policies and institutions that support planning and implementation are established and implemented by the country to deliver on Malabo: Reach 100% for the Evidence-based policies, supportive institutions and corresponding human resources, EIP, by 2018.
**I-score\(_{1.3}\) | Estimating progress on establishing evidence based policies and institutions**

- Total number of policies and strategies in the NAIP, \(TNP\)
- Number of policies and strategies that are evidence-based, \(NEP\)
- Number of policies and strategies elements in the NAIP that required supportive institutions (laws and regulations), \(NRI\)
- Number of institutions (laws and regulations) that exist to support policies and strategies, \(NIP\)
- Number of required fulltime staff positions for planning and M&E, \(FTP\)
- Number of staffing positions filled, \(FTS\)

\[\text{Evidence-based policies and strategies evidence, } EPE\]

\[100 \times \frac{NEP}{TNP}\]

\[\text{Supportive institutions - laws and regulations, } EPI\]

\[100 \times \frac{NIP}{NRI}\]

\[\text{Full-time equivalent staff dedicated to agricultural policy planning, implementation and M&E within the Ministry of agriculture, } FTE\]

\[100 \times \frac{FTS}{FTP}\]

\[\text{Evidence-based policies, supportive institutions and corresponding human resources, } EIP\]

\[\frac{EIP \times 10}{\tau_{1.3}}\]

**TARGET**

\[T_{1.3} = 100\%\]

**2016 Benchmark**

\[2016 \ B_{1.3} = \frac{2016 \ \mu_{1.3} \times 10}{\tau_{1.3}} = 3.33\]

**2016 Milestone:**

\[2016 \ \mu_{1.3} = \frac{2016 - 2015}{2018 - 2015} \times \tau_{1.3} = 33\%\]

**baseline yr**

2015

**target yr**

2018

**On Track ???**
Overall progress for Theme 1: “COUNTRY COMMITMENT TO CAADP PROCESS”

\[ T\text{-score}_1 \]

\[ \text{average}(C\text{-score}_{1,i}) \] (u)

\[ \text{average}(d,m,t) = 3.33 \] (v)

On Track ???

2016 Benchmark
Technical Notes 2

Performance Evaluation for achieving goals under Theme 2: “INVESTMENT FINANCE IN AGRICULTURE”
PC 2.1 | Public Expenditures to Agriculture

2.1i- Increase public expenditures to agriculture as part of national expenditures, to at least 10%, from 2015 to 2025.

2.1ii- Ensure adequate intensity of agricultural spending by keeping annual public agriculture expenditure as % of agriculture value added to no less than (or at a minimum of) 19% from 2015 to 2025.

2.1iii- Ensure that Official Development Assistance (ODA) committed to implement the NAIPs is fully disbursed to countries. The target is to have 100% ODA disbursement annually from 2015 to 2025.
I-score_{2.1i} | Estimating progress on public expenditures in agriculture

Baseline Yr | 2015
Target Yr | 2025

Total Public Expenditure in local currency unit (lcu), $TPE$

Public Agriculture Expenditure in local currency units (lcu), $PAE$

100 \times \frac{PAE}{TPE}, (%) \tag{w}

2015

Public agriculture expenditure as share of total public expenditure, $TPAE_{2015}$

100 \times \frac{PAE}{TPE}, (%) \tag{x}

2016

Public agriculture expenditure as share of total public expenditure, $TPAE_{2016}$

Average Public agriculture expenditure as share of total public expenditure, $TPAE$

\[ \frac{\tau PAE_{2016} + \tau PAE_{2015}}{2} \] \tag{y}

Max \[ \min \left( 10 \times \frac{\tau PAE}{\tau_{2.1i}}, 10 \right), 0 \] \tag{z}

\[ I-score_{2.1i} \]

On Track ???

2016 Benchmark

\[ 2016 \ B_{2.1i} = \frac{2016 \ \mu_{2.1i} \times 10}{\tau_{2.1i}} = 10 \] \tag{ab}

2016 Milestone:

\[ 2016 \ \mu_{2.1i} = \tau_{2.1i} = 10\% \] \tag{aa}
**Estimating progress on intensity of agricultural spending**

**Baseline Yr** 2015

**Target Yr** 2025

**Public Agriculture Expenditure in local currency units (lcu), \( PAE \)**

\[ 100 \times \frac{PAE}{AgGDP} \]  

**Agriculture Value Added in local currency units (lcu), \( AgGDP \)**

\[ \frac{PAE_{AgGDP,2015}}{2} \]

**Public Agriculture Expenditure in local currency units (lcu), \( PAE \)**

\[ 100 \times \frac{PAE}{AgGDP} \]

**Average Public agriculture expenditure as % of agriculture value added, \( PAE_{AgGDP} \)**

**Max \left[ \min \left( 10 \times \frac{PAE_{AgGDP}}{\tau_{2.1ii}}, 10 \right) \right] \]  

**2016 Benchmark**

\[ 2016 B_{2.1ii} = \frac{2016 \mu_{2.1ii} \times 10}{\tau_{2.1ii}} = 10 \]

**2016 Milestone:**

\[ 2016 \mu_{2.1ii} = \tau_{2.1ii} = 19\% \]  

**TARGET** \( \tau_{2.1ii} = 19\% \)

**I-score_{2.1ii}**

**On Track ???**
I-score\textsubscript{2.1iii} | Estimating progress on ODA disbursement to agriculture

**Baseline Yr** 2015

**Target Yr** 2025

\[
100 \times \frac{agODAD}{agODAC} \quad (ai)
\]

\[
100 \times \frac{agODAD}{agODAC} \quad (aj)
\]

\[
ODA \text{ disbursed to agriculture as } \% \text{ of commitments, } ODA_{2015}
\]

\[
ODA \text{ for agriculture, livestock, forestry, and fishery, gross disbursements (US$): } agODAC
\]

\[
ODA \text{ disbursed to agriculture as } \% \text{ of commitments, } ODA_{2016}
\]

\[
ODA \text{ for agriculture, livestock, forestry, and fishery, gross disbursements (US$): } agODAC
\]

\[
\frac{(ODA_{2016} + ODA_{2015})}{2} \quad (ak)
\]

\[
Average \text{ ODA disbursed to agriculture as } \% \text{ of commitments, } ODA
\]

\[
Max \left[ Min \left( 10 \times \frac{ODA}{\tau_{2.1iii}}, 10 \right) \right] \quad (al)
\]

\[
TARGET \quad \tau_{2.1iii} = 100\%
\]

\[
2016 \text{ Benchmark: } \quad 2016 B_{2.1iii} = \frac{2016 \mu_{2.1iii} \times 10}{\tau_{2.1iii}} = 10
\]

\[
2016 \text{ Milestone: } \quad 2016 \mu_{2.1iii} = \tau_{2.1iii} = 100\%
\]

On Track ???
Combined progress on Public Expenditures to Agriculture

\[ \text{C-score}_{2.1} \]

\[ I\text{-score}_{2.1i} \quad \text{On Track ???} \]

\[ I\text{-score}_{2.1ii} \]

\[ I\text{-score}_{2.1iii} \]

\[ \text{average}(I - \text{score}_{2.1x})_{x=i \rightarrow iii} \]

\[ (ao) \]

\[ \text{2016 Benchmark} \]

\[ \text{average}(ab, ah, an) = 10 \]

\[ (ap) \]
2.2- Ensure that government investment leverage at least X times, domestic private investment in agriculture sector by 2025.
\[ I\text{-score}_{2.2} = \frac{C\text{-score}_{2.2}}{1.00} \]

\[ \text{TARGET}_{2.2} = X \]

\[ 2016 \text{ Benchmark} = \frac{2016 \mu_{2.2} \times 10}{\tau_{2.2}} = 1.00 \]

\[ 2016 \text{ Milestone:} \]

\[ 2016 \mu_{2.2} = \frac{\tau_{2.2} \times 2016 - 2015}{2025 - 2015} = \frac{X}{10} \]
2.3- Ensure that government investment leverage at least \( Y \) times, foreign private direct investment in agriculture sector by 2025.
I-score$_{2.3}$ | Estimating progress on foreign private investment in agriculture

Baseline Yr | 2015
---|---
Target Yr | 2025

**TARGET**

$$\tau_{2.3} = Y$$

**2016 Benchmark**

$$2016 \ B_{2.3} = \frac{2016 \ \mu_{2.3} \times 10}{\tau_{2.3}} = 1.00$$

**2016 Milestone:**

$$2016 \ \mu_{2.3} = \tau_{2.3} \times \frac{2016 - 2015}{2025 - 2015} = \frac{Y}{10}$$

**Ratio of foreign private sector investment to government investment in agriculture (%)**, \(TF\text{PrPr}_b\)

$$100 \times \frac{FDI}{GAE}$$

**Government Agriculture Expenditure**, \(GAE\)

**Foreign Direct Investment**, \(FDI\)

**On Track??**
2.4- Ensure that 100% of men and women engaged in agriculture have access to financial services to be able to transact agriculture business, by 2018.
I-score\textsubscript{2.4} | Estimating progress on market access

- **Baseline Yr** 2015
- **Target Yr** 2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Total number of men engaged in agriculture, $N_{tAgM}$</th>
<th>Total number of men and women engaged in agriculture, $N_{tAg}$</th>
<th>Proportion of men and women engaged in agriculture with access to financial services, $\tau_{AgFs}$</th>
<th>$I$-score\textsubscript{2.4}</th>
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<tbody>
<tr>
<td>2015</td>
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<td>2016</td>
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**2016 Benchmark:**

$$2016 \ B_{2.4} = \frac{2016 \mu_{2.4} \times 10}{\tau_{2.4}} = 3.33$$

**2016 Milestone:**

$$2016 \mu_{2.4} = \frac{(2016 - 2015)}{(2018 - 2015)} \times \tau_{2.4} = 33\%$$

**On Track??**
Overall progress for Theme 2: “INVESTMENT FINANCE IN AGRICULTURE”

\[ T \text{-score}_2 | \text{Through average}(C \text{-score}_{2,i}) \]

\[ (bf) \]

On Track ???

2016 Benchmark
\[ \text{average}(ap, be) = 6.67 \]
Technical Notes 3

Performance Evaluation for achieving goals under Theme 3: “ENDING HUNGER”
PC 3.1 | Access to Agriculture inputs and technologies

3.1i- Ensure minimum use of fertilizer for African agriculture development at level of consumption of at least 50 kilograms/ha of arable land, from 2015 to 2025.

3.1ii- Increase the size of irrigated areas (as per its value observed in the year 2000), by 100% by the year 2025.

3.1iii- Double (100% increase) the current levels of quality agricultural inputs for crops (seed), livestock (breed), and fisheries (fingerlings) by 2025, from 2015.
3.1iv- All farmers have access to quality agricultural advisory services that provide locally relevant knowledge, information and other services by 2018.

3.1v- Increase the level of Investments in Agricultural Research and Development to at least 1% of the Agricultural GDP, from 2015 to 2025.

3.1vi- Ensure that 100% of farmers and agribusiness interested in agriculture have rights to access the required land, by 2018.
**Estimating progress on fertilizer use (organic and/or inorganic)**

**Target Year (Yr) 2025**

**Baseline Year (Yr) 2015**

**I-score**

**Total fertilizers consumption (N+P, N+P+K) in Kg, \( Fc \)**

**Fertilizer consumption (kilogram of nutrients per hectare of arable land), \( Fz \)**

**Arable Land and Permanent Crops in hectare, \( L \)**

**Average Fertilizer consumption (kilogram of nutrients per hectare of arable land), \( Fz \)**

**TARGET \[ T_{3.1i} = 50 \text{ kg/ha} \]**

**2016 Benchmark**

\[ 2016 \quad B_{3.1i} = \frac{2016 \mu_{3.1i} \times 10}{\tau_{3.1i}} = 10 \]

**2016 Milestone:** \[ 2016 \mu_{3.1i} = \tau_{3.1i} = 50 \text{ kg/ha} \]

**On Track??**
**I-score**<sub>3.1ii</sub> Estimating progress on the size of irrigated areas

**Baseline Yr**
- 2000

**Target Yr**
- 2025

The milestone 2005 of 25% and the milestone 2015 of 50% in the same commitment, are to be considered in the scoring method. It is called the multi-targets situation in the Easy-Theory. (***)

**Multi-targets commitment on the size of irrigated areas in the African Water Vision 2025, used in this performance category.**

<table>
<thead>
<tr>
<th>Targets</th>
<th>Baseline</th>
<th>25% increase</th>
<th>50% increase</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years</td>
<td>2000</td>
<td>2005</td>
<td>2015</td>
<td>2025</td>
</tr>
</tbody>
</table>

**Size of Irrigated areas,**
- \( I_{A,2016} \)
- \( I_{A,2000} \)

\[
100 \times \left( \frac{I_{A,2016} - I_{A,2000}}{I_{A,2000}} \right) \]

**On Track ???**

**Growth rate of the size of irrigated area (in %),**
- \( R_{IA} \)

\[
\frac{\min \left( 5.0 + \frac{R_{IA} - 50\%}{100\% - 50\%} (10 - 5.0) \right) - 0}{10} \]

\[
\max \left( \frac{R_{IA} \times 2.5}{25\%} \right) \]

\[
\frac{2.5 + \frac{R_{IA} - 25\%}{50\% - 25\%} (5.0 - 2.5)}{25\% \leq R_{IA} \leq 50\%} \]

\[
= \text{Max} \left( \text{Min} \left( 10 \times \frac{R_{IA}}{\tau_{3,1ii}}, 10 \right), 0 \right) \]

**Target**
- \( \tau_{3,1ii} = 100\% \)

**2016 Benchmark**
- \( B_{3.1ii} = \frac{2016 \times \mu_{3,1ii} \times 10}{\tau_{3,1ii}} = 5.50 \)

\[
2016 \mu_{3,1ii} = \frac{(2016 - 2015) + (25\% + (2025 - 2015)}{2015 - 2015} = 55\% \]

\[
2005 \mu_{3,1ii} = 25\% \quad 2015 \mu_{3,1ii} = 50\% \]
**I-score*$_{3.1iii}$** | Estimating progress on quality agricultural inputs for crops (seed), livestock (breed), and fisheries (fingerlings)

<table>
<thead>
<tr>
<th>Commodity $i$, $\text{TAI}_i$</th>
<th>Commodity $j$, $\text{TAI}_j$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\text{AgIS}_i$</td>
<td>$\text{AgIR}_i$</td>
</tr>
<tr>
<td>$\text{AgIS}_j$</td>
<td>$\text{AgIR}_j$</td>
</tr>
</tbody>
</table>

**Total national quality agriculture inputs requirement for the considered commodity $i$, $\text{AgIR}_i$**

**Supplied quality agriculture inputs for the commodity $i$, $\text{AgIS}_i$**

**Ratio of supplied quality agriculture inputs to the total national inputs requirements for the commodity $i$, $R_i$**

**Growth rate of the ratio of supplied quality agriculture inputs to the total national inputs requirements for the commodity $i$, $\text{TAI}_i$**

**Average Growth rate of the ratio of supplied quality agriculture inputs to the total national inputs requirements, $\text{TAI}$**

**Average**($\text{TAI}_x$)$_{x=i,j,...}$

**Max**$\left[ \text{Min}\left( 10 \times \frac{\text{TAI}}{\tau_{3.1iii}}, 10 \right), 0 \right]$ ($\text{bv}$)

**TARGET** $\tau_{3.1iii} = 100\%$

**2016 Benchmark**

$B_{3.1iii}^{2016} = \frac{\mu_{3.1iii}^{2016} \times 10}{\tau_{3.1iii}} = 1.00$ ($\text{bw}$)

**2016 Milestone:**

$\mu_{3.1iii}^{2016} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{3.1iii} = 10\%$ ($\text{bx}$)

**Baseline Yr** 2015

**Target Yr** 2025

On Track ???
Estimating progress on access to quality agricultural advisory services

**TARGET**

$
\tau_{3.1iv} = 100%$

**2016 Benchmark**

$2016 B_{3.1iv} = \frac{2016 \mu_{3.1iv} \times 10}{\tau_{3.1iv}} = 3.33$

**2016 Milestone:**

$2016 \mu_{3.1iv} = \frac{(2016 - 2015)}{(2018 - 2015)} \times \tau_{3.1iv} = 33%$

**On Track??**
Estimating progress on investment in agriculture research and development

Baseline Yr: 2015
Target Yr: 2025

**2016 Benchmark**

\[
2016 B_{3.1v} = \frac{2016 \mu_{3.1v} \times 10}{\tau_{3.1v}} = 10
\]

**2016 Milestone:**

\[
2016 \mu_{3.1v} = \tau_{3.1v} = 1\%
\]

**TARGET**

\[
\tau_{3.1v} = 1\%
\]

**I-score_{3.1v}**

**On Track?**
## I-score_{3.1vi} Estimating progress on access to land

### Baseline Yr: 2015

### Target Yr: 2018

### 2015

#### Baseline

<table>
<thead>
<tr>
<th>Year</th>
<th>Milestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>33.310</td>
</tr>
</tbody>
</table>

#### Target

<table>
<thead>
<tr>
<th>Year</th>
<th>Milestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>100%</td>
</tr>
</tbody>
</table>

### 2016

#### Benchmark

\[
B_{3.1vi} = \frac{2016 \mu_{3.1vi} \times 10}{\tau_{3.1vi}} = 3.33
\]

#### Milestone

\[
\mu_{3.1vi} = \frac{(2016 - 2015)}{(2018 - 2015)} \times \tau_{3.1vi} = 33%
\]
Combined progress on Access to Agriculture inputs and technologies

$I\text{-score}_{3.1i}$

$I\text{-score}_{3.1ii}$

$I\text{-score}_{3.1iii}$

$I\text{-score}_{3.1iv}$

$I\text{-score}_{3.1v}$

$I\text{-score}_{3.1vi}$

$average(I - score_{3.1x})_{x=i\rightarrow vi}$

$C\text{-score}_{3.1}$

2016 Benchmark

$average(bm, bq, bx, cb, ch, cl) = 5.53$
3.2i- Double (100% increase) the current agricultural labor productivity levels by the from 2015 to 2025.

3.2ii- Double (increase by 100%) the current agricultural land productivity levels, by 2025 from 2015.

3.2iii- Double (100% increase) the current agricultural yield levels, by 2025 from 2015.
**I-score\textsubscript{3.2i} | Estimating progress on labor productivity**

- **Baseline Yr**: 2015
- **Target Yr**: 2025

### 2011 to 2015

- **Agriculture value added in constant US dollars, \( AgGDP_{t} \)**
  - Formula: \( AgGDP_{t} / \overline{W}_{t} \) (co)

- **Agricultural worker, \( W_{t} \)**
  - Formula: \( \text{average}(AgW_{t})_{2011 \rightarrow 2015} \) (cq)

- **Average Agricultural value added per agricultural worker (constant 2010 USD), \( AgW_{av} \)**
  - Formula: \( 100 \times (AgW_{2016} - AgW_{av}) / AgW_{av} \) (cr)

### 2016

- **Agriculture value added in constant US dollars, \( AgGDP_{2016} \)**
  - Formula: \( AgGDP_{2016} / \overline{W}_{2016} \) (cp)

- **Agricultural worker, \( W_{2016} \)**
  - Formula: \( \text{Average Agricultural value added per agricultural worker (constant 2010 USD), } AgW_{2016} \)

### Growth rate of Agriculture value added per agricultural worker, \( \tau_{3.2i} \)

- Formula: \( \text{Max}[\text{Min}(10 \times \frac{\tau_{AgW}}{\tau_{3.2i}}, 10), 0] \) (cs)

### TARGET

- \( \tau_{3.2i} = 100\% \)

### 2016 Benchmark

- Formula: \( 2016 \text{ Benchmark} = \frac{2016 \mu_{3.2i} \times 10}{\tau_{3.2i}} = 1.00 \) (cu)

### 2016 Milestone:

- Formula: \( 2016 \mu_{3.2i} = \left( \frac{2016 - 2015}{2025 - 2015} \right) \times \tau_{3.2i} = 10\% \) (ct)
Estimating progress on land productivity

**TARGET**

\[ \tau_{3.2ii} = 100\% \]

**2016 Benchmark**

\[ 2016 \, B_{3.2ii} = \frac{2016 \, \mu_{3.2ii} \times 10}{\tau_{3.2ii}} = 1.00 \]

**2016 Milestone:**

\[ 2016 \, \mu_{3.2ii} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{3.2ii} = 10\% \]
Estimating progress on agricultural yield

1. Score 3.2

Baseline Yr: 2015
Target Yr: 2025

On Track??

2016 Benchmark

2016 Milestone:

\[ \mu_{3.2} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{3.2} = 10\% \]

For at least the 5 priority commodities of the country and the 11 African Union priority commodities that include: -Rice, -Maize, -Legumes, -Cotton, -Oil palm, -Beef, -Dairy, -Poultry and fisheries, -Cassava, -Sorghum and -Millet.
$I\text{-}\text{score}_{3.2i}$

$I\text{-}\text{score}_{3.2ii}$

$I\text{-}\text{score}_{3.2iii}$

$C\text{-}\text{score}_{3.2}$

\[\text{average}(I - \text{score}_{3.1x})_{x=i\rightarrow vi} \quad (dk)\]

2016 Benchmark

\[\text{average}(cu, db, dj) = 1.00 \quad (dl)\]

On Track ???
3.3- Halve (decrease by 50%) the current levels of Post-Harvest Losses (PHL), by the 2025 from 2015.
For at least the 5 priority commodities of the country and the 11 African Union priority commodities that include: -Rice, -Maize, -Legumes, -Cotton, -Oil palm, -Beef, -Dairy, -Poultry and fisheries, -Cassava, -Sorghum and -Millet.

**I-score\textsubscript{3.3}** Estimating progress on Post-Harvest Loss

2011 to 2015

- Total production of commodity \(i\) at year \(t\), \(P_{d_{it}}\)
- Post harvest Loss of the commodity \(i\), \(P_{HL_{it}}\)
- Average value of the Post harvest Loss of commodity \(i\), \(\bar{P}_{HL_{iav}}\)
- Reduction rate of the post-harvest loss of the commodity \(i\), \(\tau_{PHL_{i}}\)

2015

- Target Yr
- Baseline Yr

Baseline Yr 2015

- \(C\)-score\textsubscript{3.3}

Target Yr 2025

- On Track ???

Total loss of the commodity \(i\) at year \(t\), \(L_{s_{it}}\)

\(\frac{L_{s_{it}}}{P_{d_{it}}}(dm)\)

Total production of commodity \(i\) in 2016, \(P_{d_{2016}}\)

\(\frac{L_{s_{2016}}}{P_{d_{2016}}}(dm)\)

Total loss of the commodity \(i\) in 2016, \(L_{s_{2016}}\)

\(\frac{L_{s_{2016}}}{P_{d_{2016}}}(dn)\)

Average of observed reduction rates of post-harvest loss for all the commodities, \(\bar{\tau}_{PHL}\)

\(\max \left[ \min \left( 10 \times \frac{\bar{\tau}_{PHL}}{\tau_{3.3}}, 10 \right), 0 \right] (dr)\)

\(I\)-score\textsubscript{3.3}

\(\bar{P}_{HL_{iav}}(do)\)

\(100 \times \frac{\left( \bar{P}_{HL_{iav}} - \bar{P}_{HL_{iav2016}} \right)}{\bar{P}_{HL_{iav2016}}} (dp)\)

\(\text{Total loss of the commodity } i \text{ in } 2016, L_{s_{i2016}}(dn)\)

\(\text{Total production of commodity } i \text{ in } 2016, P_{d_{i2016}}(do)\)

\(\text{Commodity } i, \bar{\tau}_{PHL_{i}}(dp)\)

\(\text{Commodity } j, \bar{\tau}_{PHL_{j}}(do)\)

**TARGET** \(T_{3.3} = 50\%\)

2016 Benchmark

\(2016 B_{3.3} = \frac{2016 \mu_{3.3} \times 10}{\tau_{3.3}} = 1.00 (dt)\)

2016 Milestone:

\(2016 \mu_{3.3} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{3.3} = 5\% (ds)\)
3.4- Commit within national budgets, budget lines that amount to 100% of the total resource requirements for coverage of the vulnerable social groups, from 2015 to 2025, for use to support social protection initiatives, and to address any eventual disasters and emergencies with food and nutrition security implications.
Estimating progress on Social Protection

I-score$_{3.4}$

Baseline Yr: 2015

Target Yr: 2025

**On Track??**

TARGET $T_{3.4} = 100\%$

**2016 Benchmark**

$$2016 \, B_{3.4} = \frac{2016 \, \mu_{3.4} \times 10}{\tau_{3.4}} = 10$$

$\mu_{3.4} = \tau_{3.4} = 100\%$
PC 3.5 | Food security and Nutrition

3.5i- Bring down child stunting to 10% or less, by 2025.

3.5ii- Bring down underweight to 5% or less, by 2025.

3.5iii- Bring down wasting to 5% or less, by 2025.
3.5iv- Bring down undernourishment to 5% or less, by 2025.

3.5v- Increase the proportion of women at reproductive age that attain the minimum dietary diversity by 50%, by 2025.

3.5vi- Reach at least 50% of children 6-23 months that have the minimum acceptable diet by 2025.
**I-score$_{3.5i}$** Estimating progress on prevalence of stunting

Prevalence of stunting (% of children under 5 years old), $S_t$

Prevalence of stunting (% of children under 5 years old), $S_{t0}$

\[
\left\lfloor \max \left( \min \left( \frac{(S_{t0} - S_t)}{(S_{t0} - \tau_{3.5i})} \times 10, 10 \right), 0 \right) \right\rfloor_{S_{t0} > \tau_{3.5i}}
\]

\[\left\lfloor 10 \right\rfloor_{S_{t0} \leq \tau_{3.5i}} (and) \ S_t \leq \tau_{3.5i} \]

\[\left\lfloor 0 \right\rfloor_{S_{t0} \leq \tau_{3.5i}} (and) \ S_t > \tau_{3.5i} \]

**TARGET** $\tau_{3.5i} = 10\%$

**2016 Benchmark**

\[
2016 \ B_{3.5i} = \frac{S_{t0} - 2016 \ \mu_{3.5i}}{S_{t0} - \tau_{3.5i}} \times 10 = 1.00
\]

**2016 Milestone:**

\[
\left\lfloor 2016 \ \mu_{3.5i} = S_{t0} - \frac{(2016 - 2015) \times (S_{t0} - \tau_{3.5i})}{(2025 - 2015)} \right\rfloor_{S_{t0} > \tau_{3.5i}}
\]

\[\left\lfloor \tau_{3.5i} \right\rfloor_{S_{t0} \leq \tau_{3.5i}}
\]

This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value ...
Estimating progress on prevalence of underweight

Prevalence of underweight (% of children under 5 years old), $Uw_0$

Prevalence of underweight (% of children under 5 years old), $Uw$

$$\begin{align*}
\max \left( \min \left( \frac{(Uw_0 - Uw)}{(Uw_0 - \tau_{3.5ii})} \times 10, 10 \right), 0 \right)_{Uw_0 > \tau_{3.5ii}} \\
[10]_{Uw_0 \leq \tau_{3.5ii} \text{ (and) } Uw \leq \tau_{3.5ii}} \\
[0]_{Uw_0 \leq \tau_{3.5ii} \text{ (and) } Uw > \tau_{3.5ii}} 
\end{align*}$$

**2015 Milestone:**

$$\begin{align*}
2016 \mu_{3.5ii} &= Uw_0 - \frac{(2016 - 2015)}{(2025 - 2015)} \times (Uw_0 - \tau_{3.5ii}) \quad Uw_0 > \tau_{3.5ii} \\
[\tau_{3.5ii}]_{Uw_0 \leq \tau_{3.5ii}}
\end{align*}$$

**TARGET** $\tau_{3.5ii} = 5%$

**2016 Benchmark**

$$2016 \ B_{3.5ii} = \frac{Uw_0 - 2016 \ \mu_{3.5ii}}{Uw_0 - \tau_{3.5ii}} \times 10 = 1.00$$

*This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value...*
Estimating progress on prevalence of wasting

**I-score**

\[ I_{3.5_{iii}} \]

<table>
<thead>
<tr>
<th>2015 Baseline Yr</th>
<th>2025 Target Yr</th>
</tr>
</thead>
</table>

**Prevalence of wasting (%) of children under 5 old,** \( W_0 \)

\[
\begin{cases}
\max\left( \min\left( \frac{(W_0 - W)}{(W_0 - \tau_{3.5_{iii}})} \times 10, 10 \right), 0 \right) & \text{if } W_0 > \tau_{3.5_{iii}} \\
[10]_{W_0 \leq \tau_{3.5_{iii}} \text{ (and) } W \leq \tau_{3.5_{iii}}} & \\
[0]_{W_0 \leq \tau_{3.5_{iii}} \text{ (and) } W > \tau_{3.5_{iii}}} \end{cases}
\]

**TARGET** \( \tau_{3.5_{iii}} = 5\% \)

**2016 Milestone:**

\[
\begin{cases}
2016 \mu_{3.5_{iii}} = W_0 - \frac{(2016 - 2015)}{(2025 - 2015)} \times (W_0 - \tau_{3.5_{iii}}) & \text{if } W_0 > \tau_{3.5_{iii}} \\
[\tau_{3.5_{iii}}]_{W_0 \leq \tau_{3.5_{iii}}} \end{cases}
\]

**2016 Benchmark**

\[
2016 B_{3.5_{iii}} = \frac{W_0 - 2016 \mu_{3.5_{iii}}}{W_0 - \tau_{3.5_{iii}}} \times 10 = 1.00
\]

This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value...
Proportion of the population that is undernourished (% of the country's population), $U_0$

$$\left\{ \begin{align*} \max \left( \min \left( \frac{U_0 - U}{U_0 - \tau_{3.5iv}} \times 10, 10 \right), 0 \right) \\ [0] \, U_0 \leq \tau_{3.5iv} \quad (and) \quad U \leq \tau_{3.5iv} \\ [10] \, U_0 \leq \tau_{3.5iv} \quad (and) \quad U > \tau_{3.5iv} \end{align*} \right\}$$

$U_0 > \tau_{3.5iv}$

**TARGET**

$\tau_{3.5iv} = 5\%$

**2016 Milestone:**

$$\left\{ \begin{align*} 2016 \mu_{3.5iv} &= U_0 - \frac{(2016 - 2015)}{(2025 - 2015)} \times (U_0 - \tau_{3.5iv}) \\ \tau_{3.5iv} &\leq U_0 \leq \tau_{3.5iv} \\ [0] &\leq U_0 \leq \tau_{3.5iv} \quad (and) \quad U > \tau_{3.5iv} \end{align*} \right\}$$

$U_0 > \tau_{3.5iv}$

**2016 Benchmark**

$$2016 B_{3.5iv} = \frac{U_0 - 2016 \mu_{3.5iv}}{U_0 - \tau_{3.5iv}} \times 10 = 1.00$$

This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value...
\[ I\-score_{3.5v} \text{ Estimating progress on Minimum Dietary Diversity - Women} \]

**Baseline Yr** 2015

**Target Yr** 2025

Proportion of minimum Dietary Diversity - Women, \( MDDW_{2015} \)

Proportion of minimum Dietary Diversity - Women, \( MDDW_{2016} \)

100\( \times \)\( \left( MDDW_{2016} - MDDW_{2015} \right) / MDDW_{2015} \) (eo)

Increase rate of the proportion of Minimum Dietary Diversity - Women (in %), \( \tau_{MDDW} \)

\[ \text{Max} \left[ \text{Min} \left( 10 \times \frac{\tau_{MDDW}}{\tau_{3.5v}}, 10 \right), 0 \right] \]

\( \tau_{3.5v} = 50\% \)

**TARGET**

\( \tau_{3.5v} = 50\% \)

**2016 Benchmark**

\[ 2016 \ B_{3.5v} = \frac{\mu_{3.5v} \times 10}{\tau_{3.5v}} = 1.00 \] (er)

**2016 Milestone:**

\[ 2016 \ \mu_{3.5v} = \left( \frac{2016 - 2015}{2025 - 2015} \right) \times \tau_{3.5v} = 5\% \] (eq)

**On Track ??**
I-score$_{3.5vi}$ - Estimating progress on child Minimum Acceptable Diet

**Baseline Yr**: 2015

**Target Yr**: 2025

**2015 Baseline**:

\[ \text{MAD}_0 \]

**2025 Target**:

\[ \text{MAD}_0 \leq \tau_{3.5vi} \text{ and } \text{MAD} \geq \tau_{3.5vi} \]

**2016 Benchmark**:

\[ B_{3.5vi} = \frac{\text{MAD}_0}{\tau_{3.5vi}} - \frac{\mu_{3.5vi}}{\text{MAD}_0} \times 10 = 1.00 \]

**2016 Milestone**:

\[ \text{TARGET } T_{3.5vi} = 50\% \]

This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value ...

\[ \left\{ \begin{array}{l}
\text{max} \left( \min \left( \frac{(\text{MAD} - \text{MAD}_0)}{(\tau_{3.5vi} - \text{MAD}_0)} \times 10, 10 \right), 0 \right) \quad \text{if } \text{MAD}_0 < \tau_{3.5vi} \\
10 \text{ if } \text{MAD}_0 \geq \tau_{3.5vi} \text{ (and) } \text{MAD} \geq \tau_{3.5vi} \\
0 \text{ if } \text{MAD}_0 \geq \tau_{3.5vi} \text{ (and) } \text{MAD} < \tau_{3.5vi}
\end{array} \right. \]

(es)

(au)
Combined progress on Food security and Nutrition

\[ \text{average}(I - \text{score}_{3.5x}) \] 

2016 Benchmark

\[ \text{average}(ee, eh, ek, en, er, eu) = 1.00 \]
\[ T\text{-score}_3 \mid \text{Overall progress for Theme 3: “ENDING HUNGER”} \]

\[ C\text{-score}_{3,1} \]

\[ C\text{-score}_{3,2} \]

\[ C\text{-score}_{3,3} \]

\[ C\text{-score}_{3,4} \]

\[ C\text{-score}_{3,5} \]

\[ \text{average}(C - \text{score}_{3,i}) \quad (\text{ex}) \]

\[ T\text{-score}_3 \]

\[ \text{On Track ???} \]

\[ \text{2016 Benchmark} \]

\[ \text{average}(cn, dl, dt, eb, ew) = 3.71 \]

\[ (ey) \]
Technical Notes 4

Performance Evaluation for achieving goals under Theme 4:
“ERADICATING POVERTY THROUGH AGRICULTURE”
PC 4.1 | **Agricultural GDP and Poverty Reduction**

4.1i- Sustain annual agricultural GDP growth of at least 6%, from 2015 to 2025.

4.1ii- Ensure that agriculture growth contribute to at least 50% to the overall poverty reduction target, from 2015 to 2025.

4.1iii- Reduce poverty level by at least 50%, at national poverty line, from 2015 to 2025.
4.1iv- Reduce poverty level by at least 50%, at international poverty line, from 2015 to 2025.

4.1v- Contribute to poverty reduction by reducing the gap between the wholesale price and farm-gate price, by 50%, by 2025, from 2015.
**Estimating progress on agricultural GDP growth**

**Baseline Yr**: 2015  
**Target Yr**: 2025

---

### Agriculture value added in constant US dollars, $\text{AgGDP}$

#### 2011 to 2015

- $\text{average}(\text{AgGDP})_{t=2011\rightarrow2015}$

#### 2016

- $100 \times (\text{AgGDP}_{2016} - \text{AgGDP}_{2015}) / \text{AgGDP}_{2015}$

### Annual growth rate of Agriculture value added, in constant US dollars, $\text{tAgGDP}_{2016}$

### Growth rate of agriculture value added, at constant US dollars, $\text{aAgGDP}$

### $\text{I-score}_{4.1i}$

#### On Track ???

---

**TARGET**: $T_{4.1i} = 6\%$

**2016 Benchmark**

$$2016 \; B_{4.1i} = 2016 \; \mu_{4.1i} \times 10 = 10$$

**2016 Milestone**

$$2016 \; \mu_{4.1i} = T_{4.1i} = 6\%$$
Estimating progress on agriculture growth contribution to the overall poverty reduction target

<table>
<thead>
<tr>
<th>Baseline Yr</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Yr</td>
<td>2025</td>
</tr>
</tbody>
</table>

Stand-by for more research
I-score\textsubscript{4,1iii} | Estimating progress on poverty reduction at national poverty line

**Baseline Yr**: 2015

**Target Yr**: 2025

<table>
<thead>
<tr>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>\textit{phrn\textsubscript{2015}} &amp; \textit{phrn\textsubscript{2016}}</td>
<td></td>
</tr>
</tbody>
</table>

**Reduction rate of poverty headcount ratio, at national poverty line, \( dpovN \)**

\[
\text{Max} \left[ \text{Min} \left( 10 \times \frac{dpovN}{\tau_{4,1iii}}, 10 \right), 0 \right]
\]

**TARGET**

\( \tau_{4,1iii} = 50\% \)

**2016 Benchmark**

\[
2016 \ B_{4,1iii} = \frac{2016 \ \mu_{4,1iii} \times 10}{\tau_{4,1iii}} = 1.00
\]

**2016 Milestone**

\[
2016 \ \mu_{4,1iii} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{4,1iii} = 5\%
\]
**I-score**\textsubscript{4.1iv} Estimating progress on poverty reduction at international poverty line

**Baseline Yr**: 2015

**Target Yr**: 2025

**2015**

**On Track ???**

**2016 Benchmark**

\[
2016 \ B_{4.1iv} = \frac{2016 \ \ \mu_{4.1iv} \times 10}{\tau_{4.1iv}} = 1.00
\]

**TARGET**

\( \tau_{4.1iv} = 50\% \)

\[
Max \left[ Min \left( 10 \times \frac{dpoivl}{\tau_{4.1iv}}, 10 \right), 0 \right]
\]

\[
100 \times (phrl_{2015} - phrl_{2016})/ phrl_{2015}
\]

**Poverty headcount ratio at international poverty lines (% of population)**, \( phrl_{2015} \)

**Poverty headcount ratio at international poverty lines (% of population)**, \( phrl_{2016} \)

**Reduction rate of poverty headcount ratio, at international poverty line**, \( dpoivl \)

**2016 Milestone**

\[
2016 \ \mu_{4.1iv} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{4.1iv} = 5\%
\]
I-score\textsubscript{4.1v} | Estimating progress on wholesale-farmgate price gap

**Baseline Yr** 2015

**Target Yr** 2025

Average weighted farm gate price, \( FgP \)

\[ 100 \times (WSP - FgP) / WSP \]

\( fp \)

Average weighted Wholesale/Market Price, \( WSP \)

\[ 100 \times (Gfgws\textsubscript{2015} - Gfgws\textsubscript{2016}) / Gfgws\textsubscript{2015} \]

\( fr \)

Average weighted farm gate price, \( FgP \)

\[ 100 \times (WSP - FgP) / WSP \]

\( fq \)

Average weighted Wholesale/Market Price, \( WSP \)

\[ 100 \times (WSP - FgP) / WSP \]

\( ft \)

Gap between the wholesale price and farmgate price, \( Gfgws\textsubscript{2015} \)

\[ 100 \times (WSP - FgP) / WSP \]

\( fs \)

Gap between the wholesale price and farmgate price, \( Gfgws\textsubscript{2016} \)

\[ 100 \times (WSP - FgP) / WSP \]

\( fu \)

Reduction rate of the gap between the wholesale price and farmgate price (in \%), \( tfgws \)

\[ \text{Min} \left( 10 \times \frac{tfgws}{\tau_{4.1v}}, 10 \right), 0 \]

\[ \text{Max} \left( \text{Min} \left( 10 \times \frac{tfgws}{\tau_{4.1v}}, 10 \right), 0 \right) \]

\text{TARGET} \ \tau_{4.1v} = 50\%

2016 Benchmark

\[ 2016 B_{4.1v} = \frac{2016 \mu_{4.1v} \times 10}{\tau_{4.1v}} = 1.00 \]

2016 Milestone:

\[ 2016 \mu_{4.1v} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{4.1v} = 5\% \]
$C\text{-score}_{4.1}$ | Combined progress on Agricultural GDP and Poverty Reduction

\[ C\text{-score}_{4.1} \]

\[
C\text{-score}_{4.1} = \frac{1}{3} \left( I\text{-score}_{4.1i} + I\text{-score}_{4.1iii} + I\text{-score}_{4.1iv} \right)
\]

\[
average(I\text{-score}_{4.1x})_{x=i \rightarrow v, x \neq ii}
\]

2016 Benchmark

\[
average(f, f_j, f_o, f_u) = 3.25
\]
4.2- Establish and/or strengthen inclusive public-private partnerships (PPP) for at least five (5) priority agricultural commodity value chains with strong linkage to smallholder agriculture, by 2025.
Estimating progress on priority agricultural commodity value chains that involve smallholder agriculture

Baseline Yr 2015

Target Yr 2025

\[ I\text{-score}_{4.2} = \frac{\text{Priority commodity value chains for which a PPP is established with strong linkage to smallholder agriculture, } PC_{\text{smh}}}{\text{Number of smallholders integrated into the value chain of the priority commodity, } N_{\text{smhi}}} \times \text{Percent of volume of trade between smallholders and target buyers of the priority commodity, } \frac{V_{\text{smhi}}}{V_i} \]

\[ \text{Percent of volume of trade between smallholders and target buyers of the priority commodity, } \frac{V_{\text{smhi}}}{V_i} \]

\[ \text{Priority commodity value chains for which a PPP is established with strong linkage to smallholder agriculture, } PC_{\text{smh}} \]

\[ \text{Number of smallholders integrated into the value chain of the priority commodity, } N_{\text{smhi}} \]

\[ \text{Total suppliers that are supplying the market of the value chain of the priority commodity, } N_{T_i} \]

\[ \text{Total volume of trade for the priority commodity, } V_{T_i} \]

\[ \text{Volume of trade between smallholders and target buyers of the priority commodity, } V_{\text{smhi}} \]

\[ \text{Commodity } i, \text{ PC}_{\text{smh}}^i \]

\[ \text{Commodity } j, \text{ PC}_{\text{smh}}^j \]

\[ \text{TARGET } T_{4.2} = 5 \]

\[ \text{2016 Benchmark: } 2016 \frac{B_{4.2}}{T_{4.2}} = \frac{2016 \mu_{4.2} \times 10}{T_{4.2}} = 1.0 \]

\[ \text{2016 Milestone: } 2016 \mu_{4.2} = \frac{(2016 - 2015) \times T_{4.2}}{(2025 - 2015)} = 0.5 \]
4.3- Create job opportunities for at least 30% of the youth in agricultural value chains, by 2025.
Estimating progress on Youth job in agriculture

**Baseline Yr**: 2015

**Target Yr**: 2025

**Target** $T_{4.3} = 30\%$

**2016 Benchmark**

\[
2016 \text{ Benchmark} = \frac{2016 \times \mu_{4.3} \times 10}{\tau_{4.3}} = 1.00
\]

**On Track??**

Cumulative number of new jobs for youth, counted from the year 2015.

- Number of youth who do any agriculture related work as paid employees for any agriculture enterprise or SME, $\text{AgN}_{yth}E$
- Number of youth who work as self-employed in their own business or profession or on their own farm, $\text{AgN}_{yth}SE$
- Number of youth who work 15 hours per week or more as unpaid workers in a family-operated enterprise, $\text{AgN}_{yth}FE$
- Total number of youth at working age in the country, $\text{TN}_{yth}$

\[
(ge) \quad \text{AgN}_{yth}E + \text{AgN}_{yth}SE + \text{AgN}_{yth}FE
\]

\[
(gf) \quad 100 \times \frac{\text{AgN}_{yth}}{\text{TN}_{yth}}
\]

\[
(gg) \quad \text{Min} \left( 10 \times \frac{\text{TY}_{yth}}{\tau_{4.3}}, 10 \right)
\]

\[
(gh) \quad \mu_{4.3} = \frac{2016 - 2015}{2025 - 2015} \times \tau_{4.3} = 3\%
\]

**I-score_{4.3}**: 

\[
\text{I-score}_{4.3} = \text{C-score}_{4.3}
\]
4.4- Ensure that 20% of rural women have access to productive assets, including land, credit, inputs and financial services and information (empowered) by 2023.
Estimating progress on Women Empowerment in agriculture

\[ I-score_{4,4} = C-score_{4,4} \]

Baseline Yr 2013

Target Yr 2023

On Track ???

2016 Benchmark

\[ 2016 \times B_{4,4} = \frac{2016 \times \mu_{4,4}}{\tau_{4,4}} \times 10 = 3.00 \]

\[ \mu_{4,4} = \frac{2016 - 2013}{2023 - 2013} \times \tau_{4,4} = 6\% \]

**Total number of women engaged in agriculture, \( Ntw \), forming a set \( W \)**

**Number of women that have: a) Input in productive decisions and b) Autonomy in production, \( NDE_1 \), forming a set \( DE_1 \)**

**Number of women that have: a) Ownership of assets, b) Purchase, sale or transfer of assets, c) Access to and decisions about credit, \( NDE_2 \), forming a set \( DE_2 \)**

**Number of women that have Control over use of income, \( NDE_3 \), forming a set \( DE_3 \)**

**Number of women that have: a) Group member and b) Speaking in public, \( NDE_4 \), forming a set \( DE_4 \)**

**Number of women that have control over: a) Workload and b) Leisure, \( NDE_5 \), forming a set \( DE_5 \)**

**Proportion of rural women that are empowered in agriculture, \( \tau_{WE} \)**

\[ \sum_{i=1}^{5} \left( \frac{n \left( DE_i \cap DE_j \cap DE_k \cap DE_l \right)}{n \left( \cap \{1, 2, 3, 4, 5\} \right)} \right) + n \left( \cap \{1, 2, 3, 4, 5\} \right) \]

**Target \( \tau_{4,4} = 20\% \)**

**2016 Milestone:**

\[ \mu_{4,4} = \frac{2016 - 2013}{2023 - 2013} \times \tau_{4,4} = 6\% \]

\[ 100 \times \frac{NwE}{Ntw} \]

\[ \min \left( \frac{\tau_{WE} \times 10}{\tau_{4,4}} ; 10 \right) \]
Overall progress for Theme 4: “ERADICATING POVERTY THROUGH AGRICULTURE”

\[ T\text{-score}_4 | \]

\[ C\text{-score}_{4,1} \]
\[ C\text{-score}_{4,2} \]
\[ C\text{-score}_{4,3} \]
\[ C\text{-score}_{4,4} \]

\[ \text{average}(C\text{-score}_{4,i}) \]

\[ (\text{go}) \]

\[ T\text{-score}_3 \]

\[ \text{On Track ??} \]

\[ 2016 \text{ Benchmark} \]
\[ \text{average}(fw, gd, gi, gn) = 2.06 \]

\[ (gp) \]
Technical Notes 5

Performance Evaluation for achieving goals under Theme 5: “INTRA-AFRICAN TRADE IN AGRICULTURE COMMODITIES”
5.1- Triple intra-African trade in agricultural commodities and services, by 2025 from 2015.
Estimating progress on Intra-African Trade for agriculture commodities and services

**Baseline Yr** 2015

**Target Yr** 2025

**Value of intra-African imports for agriculture goods, IAMg**

**Value of intra-African imports for agriculture services, IAMs**

**Value of intra-African exports for agriculture goods, IAXg**

**Value of intra-African exports for agriculture services, IAXs**

**Value of intra-African imports for agriculture goods, IAMg**

**Value of intra-African imports for agriculture services, IAMs**

**Value of intra-African exports for agriculture goods, IAXg**

**Value of intra-African exports for agriculture services, IAXs**

**Growth rate of the value of trade of agricultural commodities and services within Africa, in constant US dollars (in %), \( \tau_{IAT} \)**

\[
\text{Growth rate } (gr) = \frac{100 \times (IAT_{2016} - IAT_{2015})}{IAT_{2015}}
\]

\[
\text{Max} \left[ \text{Min} \left( 10 \times \frac{\tau_{IAT}}{\tau_{5.1}}, 10 \right) \right], 0
\]

**TARGET** \( \tau_{5.1} = 200\% \)

**I-score\_{5.1}**

**2016 Benchmark**

\[
2016 \; B_{5.1} = \frac{2016 \; \mu_{5.1} \times 10}{\tau_{5.1}} = 1.00
\]

**2016 Milestone:**

\[
2016 \; \mu_{5.1} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{5.1} = 20\%
\]

On Track???
PC 5.2 | Intra-African Trade Policies and institutional conditions

5.2i- Fully establish trade facilitation measures by reaching **100% of Trade Facilitation Index** by 2025.

5.2ii- Reduce the **Domestic Food Price Volatility Index** to less than 7.5% by 2025.
**I-score\textsubscript{5.2i} Estimating progress on Trade Facilitation**

- **Baseline Yr**: 2015
- **Target Yr**: 2025

**Trade Facilitation Index, TFI**

\[
(PI + ICT + BA + ATA + IM)/5
\]

- **Physical infrastructure, PI**
- **Information and communication technology, ICT**
- **Border administration, BA**
- **Bilateral Agricultural trade related agreements, ATA**
- **Immigration, IM**

**Number of countries with bilateral agricultural trade related agreements, NTA**

\[
NTA \times \frac{100}{54}
\]

**Number of countries with visa free entry, NVF**

\[
(NVF + VA) \times \frac{100}{54}
\]

**Number of countries with visa on arrival, VA**

\[
(TFI \times 10) / \tau_{5,2i}
\]

**2016 Benchmark**

\[
2016 B_{5,2i} = \frac{2016 \mu_{5,2i} \times 10}{\tau_{5,2i}} = 1.00
\]

**2016 Milestone**

\[
2016 \mu_{5,2i} = \frac{(2016 - 2015) \times \tau_{5,2i}}{(2025 - 2015)} = 10\%
\]

**TARGET**

\[
\tau_{5,2i} = 100\%
\]

**On Track ???**
I-score\textsubscript{5.2ii} | Estimating progress on Domestic Food Price Volatility

### Target\textsubscript{5.2ii} = 7.5%

#### Baseline Yr
2015

#### Target Yr
2025

### Domestic Food Price Volatility Index, $CV_o$

### Domestic Food Price Volatility Index, $CV$

\[
\left[ \max \left( \min \left( \frac{(CV_0 - CV)}{(CV_0 - \tau_{5.2ii})} \times 10, 10 \right) \right), 0 \right]_{CV > \tau_{5.2ii}}
\]

\[
[10]_{CV_0 \leq \tau_{5.2ii} \text{ (and) } CV \leq \tau_{5.2ii}}
\]

\[
[0]_{CV_0 \leq \tau_{5.2ii} \text{ (and) } CV > \tau_{5.2ii}}
\]

(hc)

### TARGET $\tau_{5.2ii} = 7.5\%$

#### 2016 Milestone:

\[
2016 \mu_{5.2ii} = \frac{CV_0 - (2016 - 2015) \times (CV_0 - \tau_{5.2ii})}{(2025 - 2015)}
\]

\[
[\tau_{5.2ii}]_{CV_0 \leq \tau_{5.2ii}}
\]

(he)

#### 2016 Benchmark

\[
2016 B_{5.2ii} = \frac{CV_0 - 2016 \mu_{5.2ii}}{CV_0 - \tau_{5.2ii}} \times 10 = 1.00
\]

(hd)

This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value ...
Combined progress on Intra-African Trade Policies and institutional conditions

\[ \text{average}(I - \text{score}_{5.2x})_{x=i\rightarrow ii} \]

On Track ???

2016 Benchmark
\[ \text{average}(hb, he) = 1.00 \]
Overall progress for Theme 5: “INTRA-AFRICAN TRADE IN AGRICULTURE COMMODITIES”

$T\text{-score}_5$

$C\text{-score}_{5.1}$

$C\text{-score}_{5.2}$

$T\text{-score}_5$

$\text{average}(C - \text{score}_{5,i})$

$On\ Track\ ???$

$2016\ Benchmark$

$\text{average}(gv, hg) = 1.00$

$(hi)$
Technical Notes 6

Performance Evaluation for achieving goals under Theme 6: “RESILIENCE TO CLIMATE VARIABILITY”
PC 6.1 | Resilience to climate related risks

6.1i- Ensure that at least 30% of farm, pastoral, and fisher households are resilient to climate and weather related risks, by 2025.

6.1ii- Ensure that at least 30% of agricultural land is placed under sustainable land management practice by 2023 from 2013.
Estimating progress on households resilience to climate and weather related risks

**I-score**

- **Baseline Yr**: 2015
- **Target Yr**: 2025

**2016 Benchmark**

\[ B_{6.1i} = \frac{2016 \mu_{6.1i} \times 10}{\tau_{6.1i}} = 1.00 \]

**2016 Milestone**

\[ 2016 \mu_{6.1i} = \frac{(2016 - 2015)}{(2025 - 2015)} \times \tau_{6.1i} = 3\% \]

**TARGET**

\[ \tau_{6.1i} = 30\% \]

**2016**

- Total number of farm, pastoral, and fisher households, \(NagHh\)
- Percentage of farm, pastoral, and fisher households that are resilient to climate and weather related shocks (in %), \(TRagHh\)
- \(RagHh\)
- \(NagHh\)
- \(NRagHh\)

**On Track ???**

\[ 100 \times \frac{NRagHh}{NagHh} (hj) \]

\[ \frac{\tau_{RagHh} \times 10}{\tau_{6.1i}} (hk) \]
Estimating progress on sustainable land management

Share of agriculture land under SLM practices (in %), $SSLM$

\[
\frac{SSLM \times 10}{\tau_{6.1ii}}
\]

$I$-score$_{6.1ii}$

2016 Benchmark

\[
B_{6.1ii} = \frac{\mu_{6.1ii} \times 10}{\tau_{6.1ii}} = 3.00
\]

100\times ASLM / AA

Share of agriculture land under SLM practices (in %), $SSLM$

Agriculture area under SLM, $ASLM$

Target Yr: 2023

Baseline Yr: 2013

On Track ???

2016 Milestone:

\[
\mu_{6.1ii} = \frac{(2016 - 2013) \times \tau_{6.1ii}}{(2023 - 2013)} = 9\%
\]

Total agriculture area, $AA$

2016 Benchmark
Combined progress on Resilience to climate related risks

\[ \text{average}(I - \text{score}_{6.1x})_{x=i \rightarrow ii} \]

2016 Benchmark
\[ \text{average}(hm, hq) = 2.00 \]
6.2- Create permanent investment budget-lines to respond to spending needs on resilience building initiatives, especially for disaster preparedness plans, functioning early warning and response systems, social safety nets, and weather-based index insurance, from 2015 to 2025.
**I-score \(_{6.2}\) | Estimating progress on availability of budget lines on resilience building**

### Baseline Yr 2015

- **Existence of government budget-lines on disaster preparedness policy and strategy, \(E_{RB1}\)**
- **Existence of government budget-lines on Early warning and response systems and social safety nets, \(E_{RB2}\)**
- **Number (proportion) of households covered by index insurance, \(E_{RB3}\)**

### Target Yr 2025

- **TARGET \(T_{6.2} = 100\%\)**

#### 2016 Benchmark

\[
2016 \, B_{6.2} = \frac{2016 \, \mu_{6.2} \times 10}{\tau_{6.2}} = 10
\]

#### 2016 Milestone

\[
2016 \, \mu_{6.2} = \tau_{6.2} = 100\%\]

**On Track ???**
$T$-score$_6$ | Overall progress for Theme 6: “RESILIENCE TO CLIMATE VARIABILITY”

\[ \text{average}(C\text{-}score^{_{6.1}}) \]

\[ \text{average}(C\text{-}score^{_{6.2}}) \]

\[ T\text{-}score^6 \]

\[ \text{On Track ????} \]

\[ 2016\text{ Benchmark} \]

\[ \text{average}(hs, hx) = 6.00 \]
Technical Notes 7

Performance Evaluation for achieving goals under Theme 7: “MUTUAL ACCOUNTABILITY FOR ACTIONS AND RESULTS”
7.1- Reach at least 63 for the Index of capacity to generate and use agriculture statistical data and information (ASCI), by 2025. 2015.
Estimating progress on the country capacity to generate and use agriculture statistical data

**TARGET**

\[ \text{I-score}_{7.1} = 63 \]

**Index of capacity to generate and use agriculture statistical data and information, ASCI**

\[
\left\{ \begin{aligned}
\max \left( \min \left( \frac{(ASCI - ASCI_0)}{\tau_{7.1} - ASCI_0} \times 10, 10 \right), 0 \right) \\
[10]_{ASCI_0 \geq \tau_{7.1}} (\text{and}) \ ASCI \geq \tau_{7.1} \\
[0]_{ASCI_0 \geq \tau_{7.1}} (\text{and}) \ ASCI < \tau_{7.1} \\
\end{aligned} \right\}_{\text{ASCI}_0 < \tau_{7.1}}
\]

**2016 Benchmark**

\[ 2016 B_{7.1} = \frac{2016 \mu_{7.1} - ASCI_0}{\tau_{7.1} - ASCI_0} \times 10 = 1.00 \]

**I-score_{7.1}**

\[ \text{On Track ??} \]

**2016 Milestone:**

\[
\left\{ \begin{aligned}
2016 \mu_{7.1} &= ASCI_0 + \frac{(2016 - 2015)}{(2025 - 2015)} \times \left( \tau_{7.1} - ASCI_0 \right) \\
\tau_{7.1} &= ASCI_0 \geq \tau_{7.1} \\
\end{aligned} \right\}_{\text{ASCI}_0 < \tau_{7.1}}
\]

This is a relative milestone which is specific to each country as it depends on where the country is coming from: the 2015 baseline value ...

**Baseline Yr**

2015

**Target Yr**

2025
7.2- Foster alignment, harmonization and coordination among multi-sectorial efforts and multi-institutional platforms for peer review, mutual learning and mutual accountability, \(\text{(reach 100\% for the Existence of inclusive institutionalized mechanisms and platforms for mutual accountability and peer review, ECI) by 2018.}\)
### I-score\(_{7.2}\) | Estimating progress on Peer Review and Mutual Accountability

**Baseline Yr**: 2015

**Target Yr**: 2018

**On Track ???**

<table>
<thead>
<tr>
<th>Metric / Formula</th>
<th>Year</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TARGET</strong> (T_{7.2} = 100%)</td>
<td>2016</td>
<td>100%</td>
</tr>
<tr>
<td><strong>2016 Benchmark</strong></td>
<td>(B_{7.2})</td>
<td>(\frac{2016 \times \mu_{7.2} \times 10}{\tau_{7.2}} = 3.33)</td>
</tr>
<tr>
<td><strong>2016 Milestone</strong></td>
<td>(\mu_{7.2})</td>
<td>(\frac{(2016 - 2015)}{(2018 - 2015)} \times \tau_{7.2} = 33%)</td>
</tr>
</tbody>
</table>

**Number of mutual accountability principles satisfied by the country, MAPS**

\[
100 \times \frac{MAPS}{6} \quad (id)
\]

**Adherence to mutual accountability principles (%), AMAP**

\[
\frac{EMAP + AMAP + CARR}{3} \quad (ig)
\]

**Coverage of agricultural review report, CARR**

\[
100 \times \frac{NKAA}{6} \quad (if)
\]

**Existence of mutual accountability mechanism and platform (%), EMAP**

\[
100 \times \frac{BPS}{12} \quad (ie)
\]

**Existence of inclusive institutionalized mechanisms for mutual accountability and peer review ECI**

\[
\frac{ECI \times 10}{\tau_{7.2}} \quad (ih)
\]
7.3- Conduct a biennial Agriculture Review Process that involves tracking, monitoring and reporting progress made in implementing the Malabo Declaration, by availing the regular country Biennial Report to the AU Assembly.
I-score\textsubscript{$7.3$} | Estimating progress on availing the regular country Biennial Report for the AU Assembly

- **Baseline Yr**: 2015
- **Target Yr**: 2025

**2016 Benchmark**

\[ 2016 \, B_{7.3} = \frac{2016 \, \mu_{7.3} \times 10}{\tau_{7.3}} = 10 \]

**2016 Milestone**

\[ 2016 \, \mu_{7.3} = \tau_{7.3} = 100\% \]

**On Track ???**

- **Existence of Draft 1 Country Biennial Report**
  that has been validated at country level, \( BR_{1} \)
  - Weight \( W_{1} = 25\% \)

- **Quality of the Draft 1 of the Biennial Report**
  - Weight \( W_{2} = 25\% \)

- **Draft 2 Country Biennial Report**
  that has been validated at subregional level, \( BR_{3.1} \)
  - Weight \( W_{3} = 12.5\% \)

- **Country attendance to the regional validation meeting**
  - Weight \( W_{4} = 12.5\% \)

- **Submission of the Biennial Report by the country to the AUC/NPCA through RECs**
  - Weight \( W_{5} = 25\% \)

\[ \sum_{i} (BR_{i} \times w_{i}) \]

\[ \frac{BR \times 10}{\tau_{7.3}} \]

\[ C\text{-}score_{7.3} \]
Overall progress for Theme 7: “MUTUAL ACCOUNTABILITY FOR ACTIONS AND RESULTS”

\[ T\text{-score}_7 \]

\[ \text{On Track ??} \]

\[ \text{2016 Benchmark} \]

\[ \text{average}(ic, ij, io) = 4.78 \]
OVERALL PROGRESS FOR IMPLEMENTING THE JUNE 2014 MALABO DECLARATION ON AFRICAN AGRICULTURE TRANSFORMATION

$O$-score

$T$-score$_1$

$T$-score$_2$

$T$-score$_3$

$T$-score$_4$

$T$-score$_5$

$T$-score$_6$

$T$-score$_7$

average($T$-score$_i$)

(On Track ???)

2016 Benchmark

average($v, bg, ey, gp, hi, hz, iq$) = 3.94

(is)
The 2017 Benchmark Scorecard on Country performances in implementing Malabo Declaration for agricultural transformation in Africa...

...minimum scores to be on track in 2017 for meeting targets set for each of the 7 commitments of the Malabo Declaration.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Theme (T) Performance</th>
<th>Category (C) Performance</th>
</tr>
</thead>
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<td>PC 1.1</td>
<td>National CAADP Process</td>
<td>3.33 On track</td>
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<tr>
<td></td>
<td>PC 1.2</td>
<td>CAADP based Cooperation, Partnership, &amp; Alliance</td>
<td>3.33 On track</td>
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<tr>
<td></td>
<td>PC 1.3</td>
<td>CAADP based Policy &amp; Institutional Review/ Setting/ Support</td>
<td>3.33 On track</td>
</tr>
<tr>
<td>4</td>
<td>PC 3.1</td>
<td>Access to Agriculture inputs and technologies</td>
<td>5.53 On track</td>
</tr>
<tr>
<td></td>
<td>PC 3.2</td>
<td>Agricultural Productivity</td>
<td>1.00 On track</td>
</tr>
<tr>
<td></td>
<td>PC 3.3</td>
<td>Post-Harvest Loss</td>
<td>1.00 On track</td>
</tr>
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<td></td>
<td>PC 3.4</td>
<td>Social Protection</td>
<td>10.00 On track</td>
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<td></td>
<td>PC 3.5</td>
<td>Food security and Nutrition</td>
<td>1.00 On track</td>
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<tr>
<td>6</td>
<td>PC 5.1</td>
<td>Intra-African Trade in agriculture commodities and services</td>
<td>1.00 On track</td>
</tr>
<tr>
<td></td>
<td>PC 5.2</td>
<td>Intra-African Trade Policies and institutional conditions</td>
<td>1.00 On track</td>
</tr>
<tr>
<td>1</td>
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<td>Re-commitment to CAADP Process</td>
<td>3.33 On track</td>
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<tr>
<td></td>
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<td>CAADP based Cooperation, Partnership, &amp; Alliance</td>
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<tr>
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Overall progress: On track

Temporary Structure of the Country Scorecard proposed at the Experts' Group Reflection Meeting on Scorecard held on 3rd-5th August 2016 in Nairobi, Kenya.
African Union Commission, Headquarters, Addis Ababa, Ethiopia
Department of Rural Economy and Agriculture (DREA),
Comprehensive African Agriculture Development Programme (CAADP)
Contacts: Anselme Vodounhessi, anselmev@africa-union.org, & Maurice Lorka N'Guessan, NGuessanp@africa-union.org

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