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Graduation from the category of least developed countries: Rationale, achievement and prospects*

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Introduction: A short story of the LDCs graduation¹

The Least Developed Country (LDC) category was from the start meant to include low income countries facing structural handicaps to economic growth (in the 2011 CDP report economic growth has been replaced with “sustainable development”). Under various names, the structural handicaps considered for the identification of the LDCs have been deficient human resources and weak economic structure. Let us recall that the LDCs are identified by three complementary criteria for inclusion into the category (CDP and UNDESA 2008; CDP 2015): these criteria are presently the income level as measured by Gross National Income per capita (GNIpc), and two indicators of structural handicaps, the Human Asset Index (HAI) and the Economic Vulnerability Index (EVI). Poor countries simultaneously facing these two kinds of handicaps have been described as “caught in a trap”, and in need of special international attention and support measures (Guillaumont 2009a). In the long term, with the help of these measures, it should have been hoped that the countries identified as LDCs will progressively overcome their structural handicaps and exit from the category, leading the LDC category to shrink.

* also chapter 7 in *Out of the Trap* (forthcoming), Guillaumont, P. (ed.), Economica

1. This section and the following relies heavily on a previous paper of the authors (Drabo and Guillaumont 2016)

1. Introduction: A short story of the LDCs graduation

When graduation rules were set up and what they are

The graduation from the list of LDCs, when an LDC no longer fulfills the conditions of membership, was not considered during the first twenty years of the category. The possibility and conditions of graduation were introduced only in 1991, a date since which the list of LDCs has undergone triennial reviews. Three main precautions were taken before an LDC could be recommended for graduation: (i) not only one, but two of the three criteria of inclusion should cease to be met; (ii) margins were set up between inclusion and graduation thresholds for each criterion; (iii) a country is recommended by the CDP for graduation only after having been found eligible at two successive triennial reviews. Moreover since 2004² the country is graduated only three years after the endorsement by the General Assembly of the CDP recommendation. An exception to the initial “two criteria rule” was introduced in 2005³: a country can be found eligible for graduation if its GNIpc is at least twice as high as the ordinary income graduation threshold and deemed sustainable, making income per capita the only one criterion for graduation in these cases. While such cases at the introduction of the rule in 2005 were considered exceptional, they appeared later not to be so, as we shall see below. In what follows we refer to these two alternative rules of graduation as the “two criteria rule” and the “income-only criterion” or “income-only rule”.

The pace of graduation

The history of graduation of the least developed countries since 1991 can roughly be divided into two periods.

From 1991 to the middle of the 2000 decade, only one country graduated from the category according to the rule prevailing at the time, namely Botswana in December 1994. This modest outcome was not only due to the economic trends in LDCs, but also and mainly to the precautionary graduation conditions, as indicated above and shown below. The graduation process has also been impacted by the resistance of some eligible countries since the end of the 1990s (CDP, 1997, 2000, 2003, 2006, CDP and UNDESA 2008, Guillaumont 2009a).

From the mid-2000's to 2018, four countries actually graduated from the group: Cape Verde in December 2007, Maldives in January 2011 and Samoa in January 2014, all on the basis of their GNI per capita and human asset index (HAI), and Equatorial Guinea in 2017, on the only basis of its high GNI per capita⁴. For two other countries, graduation has already been decided by the General

² United Nations General Assembly resolution A/RES/59/209

³ Report of the Committee for Development Policy on the seventh session (14-18 March 2005), Official Records of the Economic and Social Council, 2005, Supplement No. 33 (E/2005/33).

⁴ These three last developed countries had resisted against graduation and obtained some postponements (legitimated in the case of Maldives and Samoa by the occurrence of natural disasters through General Assembly resolutions A/RES/60/33 and A/RES/64/295 respectively).

Assembly, to be effective later: Vanuatu in 2020 (after obtaining a postponement because of huge storm), and Angola in 2021. Seven other ones, including five SIDS, have been found at least twice eligible for the graduation:

- Tuvalu has been found eligible at the 2003 review, and again in 2006, 2009, 2012, was recommended for graduation by the CDP only in 2012, a recommendation confirmed in 2015 and 2018, but without being endorsed by ECOSOC which postponed its consideration three times in 2012, 2013 and 2015, deferring its endorsement decision for 2018;
- Kiribati has been found eligible a first time in 2003, then in 2006, 2012, 2015 and 2018, but recommended by the CDP for graduation only in 2018;
- Bhutan, São Tomé and Príncipe, and Solomon Islands have been found eligible in 2015 and 2018 and recommended for graduation by CDP in 2018;
- Nepal and Timor-Leste have been found eligible in 2015 and 2018 but recommendation for graduation has been deferred to the 2021 review.

Most (9) of the (11) countries having met the graduation criteria during these last 15 years (and recommended by the CDP) are SIDS, found eligible on the basis of their income per capita and human capital levels. A majority of them have been reluctant to graduate, arguing for their vulnerability (see Annex 4 the resistance to graduation over a quarter of century).

Finally three other countries have been found eligible a first time in 2018 (Bangladesh, Myanmar and Lao PDR), so that they could be found so again in 2021, then meet the graduation criteria and be recommended for graduation (as could be Nepal and Timor Leste).

Change in attitudes: the Istanbul goal and beyond

The increase in the number of graduations since mid-2000 is indeed due to the improvement in economic trends in LDCs during the period (see chapter 1). Moreover since the beginning of the 2010s a change in the LDCs attitudes towards graduation has emerged, facilitated by the previous adoption by the General Assembly of the principle of “smooth transition” in 2004 (A/RES/59/209) reinforced by a General Assembly Resolution in 2012 (A/RES/67/221), which aimed at preventing consequences of an abrupt exit from the category (see below).

This change of attitude has been highly evidenced at the UN LDC IV Conference in 2011 with the adoption of the Istanbul Programme of Action (IPoA): this Programme underlines “*the aim at enabling half of the number of LDCs to meet the criteria for graduation by 2020*” (United Nations, 2011, §28)⁵. (see Box 1 on the meaning of this sentence). However, as it results from the (noted above) decisions already taken, at the end of the decade in 2020, there will not be more than 9 to 13 out of

⁵ what is not, as it was sometimes said, a goal of reduction by half of the number of LDCs.

the 48 countries being LDCs in Istanbul⁶ having met the graduation criteria⁷ (3 of which likely to have graduated at that time: Samoa in 2014, Equatorial Guinea in 2017 and Vanuatu in 2020), what means less than one fifth instead of one half in the IPoA goal.

Box 1: What is the real meaning of the IPoA goal of graduation?

In its paragraph 28 the IPoA states “the aim at enabling half of the number of LDCs to meet the criteria for graduation by 2020” (same wording in paragraph 1). It was clear enough that this goal did not mean a reduction by half of the number of LDCs, although the French translation of paragraph 1 refers to the “objectif qui consiste à reclasser la moitié des PMA “hors de leur catégorie”. Indeed the usual meaning of meeting the graduation criteria does not involve to have already left the category. But four meanings are still possible:

- *the country has already met a first time the graduation thresholds, what is also said “eligible a first time”;*
- *the country has been “twice eligible for graduation” (at two successive triennial reviews), what is most often considered as meeting the (quantitative) graduation thresholds a second time;*
- *the country has been “recommended by the CDP for graduation”, what may not be the case for some LDCs having twice met the graduation thresholds, after CDP examination of the situation of the country and according to the repeated principle that the criteria should not be applied mechanically;*
- *the General Assembly of the UN has taken note of the recommendation of the CDP to graduate, what will result in a graduation three years later.*

Here we use mainly the second meaning, often used by the CDP and precise if we are led to use the first or third one. The number of new LDCs having met the criteria according to the three first meanings between May 2011 (IPoA) and 2020 is respectively 12, 9 and 7.

Towards voluntary graduation?

The move towards an attitude more favorable to graduation is illustrated by the wish now expressed by some LDCs to graduate as soon as possible. It may be simply understood as a wish to be soon able to meet the present graduation criteria and so to be recommended for graduation. For instance Myanmar, requested the UN “to review Myanmar as a potential candidate for graduation from the LDC status hoping that we will start identifying the necessary steps to be undertaken”⁸. This has been interpreted by the CDP as a request to monitor the progress of Myanmar vis-à-vis the graduation criteria (CDP 2015 Report, §61).

Another possibility would be for a present LDC to request a graduation even if the criteria are not yet met. Is it conceivable? As far as a country may refuse to be included as an LDC when found eligible

⁶ They were 49 in 2012, after the inclusion of South Sudan

⁷ These LDCs are Samoa and Equatorial Guinea (already meeting the criteria in 2011), Vanuatu, Angola, Tuvalu and Kiribati, Bhutan, Sao Tome & Principe, and Solomon Islands (all founded twice eligible and recommended for graduation), while 2 countries founded twice eligible have not been recommended).

⁸ Letter of the President of Republic of Union of Myanmar to H.E. the SG of the UN, 8 August 2014

(as done from 2006 to 2015 by Zimbabwe), it seems difficult to argue that an LDC cannot leave the category if it wants to do so. Why might it want? From such a “voluntary graduation” the country might expect to receive the benefits from a good performance signal, worth more than the lost benefits of LDC membership. But the signal would not be effective if the country does not really meet the graduation criteria.

The following sections of this chapter should then enlighten why the path of graduation has been so slow, constrained by the graduation rules (section 2), investigates the graduation prospects based on various hypotheses and graduation rules (section 3), and analyses the impact of LDCs graduation, relying on ex-ante and ex-post assessments (section 4). The last section concludes with comments on graduation criteria.

2. Graduation constrained by the rules: Impact of the asymmetry between inclusion and graduation criteria

As explained in the introduction, at the establishment of the graduation conditions in 1991, for precautionary reasons, an asymmetry between inclusion and graduation criteria was set up by three ways: (i), to be graduated, not only one, but two of the three criteria of inclusion should cease to be met; (ii) margins were set up between inclusion and graduation thresholds for each criterion (iii) a country can be recommended by the CDP for graduation only after having been found eligible at two successive triennial reviews (while it can be recommended for inclusion as soon as it is found eligible (CDP, 1991). These differences have impacted graduation and created an unequal treatment of countries in similar situations⁹.

2.1. Impact of the rule of two criteria ceased to be met instead of one

At the first triennial review in 1991, it was decided that a country should exit the category if it has exceeded the cut-off point for two out of the three graduation criteria instead of just ceasing to fulfill the inclusion conditions. The application of this rule has first led to the reduction of the number of LDCs eligible to graduation. As soon as in the 1991 review, 13 LDCs ceased to meet the inclusion criteria among which only 5 ceased to meet at least two criteria (see Table 1). The choice of two criteria to no longer be fulfilled instead of one divided the number of the “potential graduating countries” by more than 2 during all triennial reviews (from 13 to 5 LDCs at the first triennial review in 1991, from 33 to 12 in 2015, and from 31 to 14 in 2018). During the 2006, 2009 and 2012 reviews, less than one third of LDCs not fulfilling inclusion conditions ceased to meet at least two inclusion criteria.

Another effect of this asymmetry has been the avoidance of graduated countries falling back into the category. Had countries be graduated when they cease to fill only one criterion, the list of LDCs would have become unstable, with countries leaving and falling back into the group (since many countries close to the thresholdss showed unstable performance). As for the income per capita

⁹The number of “discordant” countries, meeting neither inclusion nor graduation criteria, and its evolution are analysed in *Caught in a trap* (Guillaumont, 2009)

criterion, Yemen ceased meeting it in 1991, 1997, 2012 and 2015, but not at the other reviews. Djibouti ceased filling the criterion from 1994 to 2018, except in 2000. Liberia would have been eligible for graduation only in 1997 and 2000, and Afghanistan in 1997. With respect to the human capital criterion, Madagascar, Laos and Solomon Islands at once would have been eligible to graduation, then no longer and likely to fall back into the category, as it would have been the case for Haiti, Mozambique and Lesotho with respect to the EVI criterion.

Table 1: Inclusion criteria no longer met and graduation criteria met by 52 countries bring or having been LDCs, at successive triennial reviews

country	1991	1994	1997	2000	2003	2006	2009	2012	2015	2018
Afghanistan			Y				v		v	
Angola	xxxx					y	Y	Y+	Y+	Y+
Bangladesh			v	V	V	V	V	v	hV	YHV
Benin									V	v
Bhutan							Y	Y	YH	YH
Botswana	YH	YH					xxxx (graduated)			
Burkina Faso										
Burundi										
Cape Verde	Yh	YH	YH	YH	YH	YH	xxxx (graduated)			
Cambodia									H	yHv
Central African Republic								v	v	v
Chad										
Comoros										Y
Congo, Dem. Rep.								v	V	V
Djibouti		Y	y		y	Y	y	Y	Y	Y
Equatorial Guinea				Y		Y+	Y+	Y+	Y+	xxxx (Grad)
Eritrea	xxxx			V						
Ethiopia						v	V	v	V	v
Gambia, The									h	
Guinea						V	V	V	V	V
Guinea-Bissau										
Haiti	V	V	v						v	V
Kiribati	H	H	H	h	YH	YH	yH	YH	Y+H	2YH
Lao PDR	H	H					h	h	yh	YHv
Lesotho	h	H	Hv	h		h	yh	yh	Yh	Yh
Liberia			Y	Y						
Madagascar		h		V	V	v	V			
Malawi										
Maldives	h	Yh	YHV	YHv	YHv	Y+H	Y+H	xxxx (grad.)		
Mali									v	
Mauritania						v			Y	y
Mozambique	v	V	v		v					
Myanmar	Hv	yH	YH	h	h	H	hV	H	yHv	YHV
Nepal					V	V	V	V	HV	HV
Niger										v

country	1991	1994	1997	2000	2003	2006	2009	2012	2015	2018
Rwanda										
Samoa	Y H	Y h	Y Hv	yH	Y H	Y H	Y+ H	Y+ H	xxxx (grad.)	Xxxx (Grad.)
Senegal	xxxx	xxxx	xxxx			v	V	y	v	v
Sierra Leone										
São Tome and Principe			H		h	h	H	yH	Y H	YH
Solomon Islands			H			H	h	yh	Y H	YH
Somalia										
South Sudan	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx			Y
Sudan								Y	Y	Y
Tanzania					V	V	V	V	V	V
Timor-Leste							y	Y	Y+	Y+H
Togo								v	v	hV
Tuvalu	H	yH	yH	Y	Y H	Y H	Y+ H	Y+ H	Y+ H	Y+H
Uganda									V	V
Vanuatu	Y h	Y H	Y H	Y h	Y h	Y H	Y H	Y+ H	Y+ H	Y+H
Yemen, Rep.	y		y					y	yv	
Zambia								y	Y	Y
Number of LDCs	48	50	49	50	50	50	49	49	48	47
Number of LDCs meeting inclusion criteria	35	36	32	37	36	29	26	23	15	16
Number of LDCs no longer meeting inclusion criteria	13	14	17	13	14	21	23	26	33	31
Number of LDCs meeting graduation criteria	2	3	5	2	5	7	5	6	10	12
Number of LDCs meeting neither inclusion nor graduation criteria	11	11	12	11	9	14	18	20	23	19
Number of non-LDCs meeting neither inclusion nor graduation criteria	6	7	8	13	19	8	7	7	8	1
Number of LICs non-LDCs (no transition nor large countries) meeting neither inclusion nor graduation criteria	1	3	5	7	10	4	3	2	1	1

Note: y: countries ceasing to fulfill inclusion condition for the income criterion; h: countries ceasing to fulfill inclusion condition for the human capital criterion; v: countries ceasing to fulfill inclusion condition for the vulnerability criterion; Y: countries that reached graduation threshold for the income criterion; H: countries that reached graduation threshold for the human capital criterion; V: countries that reached graduation threshold for the vulnerability criterion; Y+: Countries that reached the income only graduation condition since 2006; xxxx : not LDC at this review.

2.2. Impact of the margins between inclusion and graduation thresholds¹⁰

As indicated above, margins were set up between inclusion and graduation thresholds. To be qualified for graduation for a given criterion, a country should perform better than the inclusion threshold and reach the graduation one. The margins arbitrary chosen at the 1991 triennial review were \$ 100 for the GDP criterion, 5 and 3 points for APQLI and EDI respectively (see Table 2). These margins were kept at the following two reviews (1994 and 1997). In 2000 the CDP chose a margin of 15% between the inclusion and graduation thresholds for all the three criteria. These percentages were modified in 2003 and since then the graduation threshold for income per capita is 20% higher than the inclusion threshold, while for HAI it is 10% higher and for EVI 10% lower than the inclusion ones.

Table 2: Inclusion and graduation thresholds through triennial reviews

Review year	GDP / GNI per capita			APQLI / HAI			EDI / EVI		
	Inclusion (\$)	Graduation (\$)	Margins	Inclusion (\$)	Graduation (\$)	Margins	Inclusion (\$)	Graduation (\$)	Margins
1991	600	700	100	47	52	5	22	25	3
1994	699	799	100	47	52	5	26	29	3
1997	800	900	100	47	52	5	26	29	3
2000	900	1035	135 (15%)	59	68	9 (15%)	36	31	5 (15%)
2003	750	900	150 (20%)	55	61	6 (10%)	37	33	4 (10%)
2006	745	900	155 (20%)	58	64	6 (10%)	42	38	4 (10%)
2009	905	1086	181 (20%)	60	66	6 (10%)	42	38	4 (10%)
2012	992	1190	198 (20%)	60	66	6 (10%)	36	32	4 (10%)
2015	1035	1242	207 (20%)	60	66	6 (10%)	36	32	4 (10%)
2018	1025	1230	205 (20%)	60	66	6 (10%)	36	32	4 (10%)

These margins have of course reduced the number of countries eligible to graduation. Their impact on the number of countries fulfilling the graduation conditions is not as high as that of the choice of “two criteria instead of one”, but it is not negligible. The difference (due to margin) between the number of countries that ceased to meet inclusion conditions and those that met graduation threshold for at least one criterion ranged from 1 in 1994 to 11 in 2012. Moreover, keeping the two criteria condition, if margins had not been set up between inclusion and graduation thresholds, 5 additional countries would have been eligible for graduation at the 2015 (4 at the 1994 review, 3 at the 1991, 2009, 2012 and 2018 reviews, 2 at the 1997 and 2000 reviews, and 1 at the 2003 review), as shown in Table 1.

The margins also prevented countries that graduated to fall back into the category. Indeed, within countries that have ceased to meet inclusion conditions without reaching the graduation threshold in any criterion, eight have fulfilled again inclusion conditions in the following reviews: Yemen,

¹⁰ This issue is analysed in more detail for the period 1991-2009 in Guillaumont 2009.

Madagascar, Djibouti, Haiti, Lesotho, Mozambique, Mauritania and Afghanistan. Without the margins (and the rule of “two criteria to cease to be fulfilled”), these countries would have left the LDC category, then fallen back into it¹¹.

2.3. Impact of the need to be eligible at two successive triennial reviews

The CDP decided at the 1991 review that an LDC should be considered as eligible for graduation if it reaches graduation thresholds not only for at least two out of the three criteria (income per capita, APQLI/HAI and EDI/EVI), but also at least for three years (two consecutive triennial reviews). Due to this condition, the graduation of some LDCs has been slowed down and in some cases postponed (when a country did not meet the eligibility conditions during two triennial reviews). First graduated, Botswana left the category in 1994 instead of 1991 when it fulfilled graduation conditions for the first time. Without the need to fulfill the graduation conditions for two consecutive triennial reviews, Vanuatu could have left the category in 1994, Maldives, Samoa and Cape Verde in 1997, Samoa in 2003, Kiribati and Equatorial Guinea in 2006, Tuvalu and Angola in 2012, Bhutan, Sao Tome and Principe, Solomon Islands, Timor-Leste and Nepal in 2015, and Bangladesh, Myanmar and Lao PDR in 2018. Eighteen countries could have been recommended for graduation from the category instead of four¹².

Each of the three sources of the asymmetry between inclusion and graduation criteria has contributed to reduce the number of countries meeting the graduation criteria, then to make the group more stable. At the 2012 review, among the 49 LDCs under consideration, 26 were no longer meeting the inclusion criteria, at the 2015 review the number was 33 out of the 48 LDCs and 31 out of 47 in 2018. Within these 31 LDCs, 17 ceased to fulfill only one inclusion criterion, six did not reach graduation threshold for any criterion and three met eligibility to graduation conditions for the first time¹³. It means that without the present asymmetry the IPoA goal (enabling half of the number of LDCs to meet the graduation criteria by 2020) would have already been reached, and even over-reached.

¹¹ However, this impact of margins should be nuanced since nine countries having met the graduation threshold stop fulfilling the inclusion conditions in the following reviews: Laos in 1994, Afghanistan, Solomon Islands, and Sao Tome and Principe in 1997, Equatorial Guinea, Eritrea and Liberia in 2000, and Madagascar and Senegal in 2009. Moreover, within countries that stop fulfilling two inclusion criteria, only Lesotho met inclusion conditions again, letting know that the choice of two criteria is more determinant in avoiding graduating countries falling back into the category than the margins.

¹² without taking account Myanmar for which in 1997 the CDP did not recommend the graduation despite the fulfillment of the conditions (see Table 3)

¹³ See the bottom lines of Table 1 for more details.

Table 3: Countries eligible that reached graduation threshold for at least one criterion, and graduated and graduating countries, through triennial reviews

country	1991	1994	1997	2000	2003	2006	2009	2012	2015	2018
Afghanistan										
Angola								r (Y)	R, e, E (Y)	
Bangladesh										r(yhv)
Benin										
Bhutan									r (yh)	R(yh)
Botswana	r (yh)	R, e, E (yh)								
Burkina Faso										
Burundi										
Cape Verde		Nr (yh)	r (yh)	NR (yh)	R, e, E (yh)					
Cambodia										
Central African Republic										
Chad										
Comoros										
Congo, Dem. Rep.										
Djibouti										
Equatorial Guinea						r (Y)	R, e, E (Y)			
Eritrea										
Ethiopia										
Gambia, The										
Guinea										
Guinea-Bissau										
Haiti										
Kiribati					Nr (yh)	r (yh)		r (yh)	NR (yh)	R(Yh)
Lao PDR										r(yh)
Lesotho										
Liberia										
Madagascar										
Malawi										
Maldives			r (yhv)	R, Ne (yh)	R, e, E (Yh)					
Mali										
Mauritania										
Mozambique										
Myanmar			Nr (yh)							r(yhv)
Nepal									r (hv)	NR(hv)
Niger										
Rwanda										
Samoa	Nr (yh)		r (yh)		r (yh)	R, e, E (yh)				
Senegal										
Sierra Leone										
São Tome and Príncipe									r (yh)	R(yh)
Solomon Islands									r (yh)	R(yh)
Somalia										

country	1991	1994	1997	2000	2003	2006	2009	2012	2015	2018
South Sudan										
Sudan										
Tanzania										
Timor-Leste									r (Y)	NR(Yh)
Togo										
Tuvalu					Nr (yh)	Nr (yh)	Nr (yh)	R (Yh)	R, e (Yh)	R(Yh)
Uganda										
Vanuatu		r (yh)	R, e, NE (yh)			r (yh)	NR (yh)	R, e, E (Yh)		
Yemen, Rep.										
Zambia										

Note : r: Eligibility recognised by CDP; Nr: Eligibility not recognised by CDP; R: Graduation recommended by CDP; NR: Graduation not recommended by CDP; e: Graduation endorsed by ECOSOC; Ne: Graduation not endorsed by ECOSOC; E: Graduation agreed by GA (when it takes note of the CDP recommendation); NE: Graduation not yet agreed by GA; y: GDP / GNI per capita; h: Human Asset Index (HAI); v: Economic Vulnerability Index (EVI); Y: Income only criterion reached

Source: Author compilation

2.4. Impact of the change in the design of criteria

The design of the criteria indices is a last factor related to the rules of graduation that may have also impacted the path of graduation, without resulting from an asymmetry between inclusion and graduation criteria. For instance Samoa which met graduation eligibility condition in 1997 did not meet it in 2000 because its per capita GDP fell back below the graduation threshold due to the stagnation of the GDP in real terms “while the lower threshold for graduation had risen relatively to the upper threshold for identification by the World Bank as a low-income country” (see Guillaumont 2009, pp. 73). When in 2012 a new component (Low elevated coastal areas) has been added to EVI at the expense of the population size component, it mechanically lowered the level of EVI in some countries (small countries or countries without a large share of population living in low coastal areas), but in that case without an immediate impact on eligibility. In 2015 when the threshold levels of EVI and HAI have been taken at their absolute level of 2012, they become easier to reach, making three countries eligible which would have not been so had the thresholds be designed at the quartile level as before (Bhutan, Nepal, Solomon Islands, see below 3.2 and Annex 3).

2.5. To sum up: Relative impact of the various factors

After the 2018 review, there were 2 countries for which graduation was decided by the UN General Assembly (Vanuatu and Angola), without being implemented.

This number would be 9 (by adding Nepal, São Tomé and Príncipe, Solomon Islands, Timor-Leste, Bhutan, Kiribati and Tuvalu) if the graduation criteria had been mechanically applied by the CDP and the ECOSOC.

It would have been 12 if meeting the criteria had not been required at 2 successive triennial reviews (the 3 more countries being found eligible only for the first time are Bangladesh, Myanmar, and Lao PDR).

It would have been 15 without the margins between inclusion and graduation thresholds (the 3 additional countries being Cambodia, Lesotho and Togo).

It would have been 25 without the condition of double criteria to be met for eligibility (adding ten countries Comoros, Congo Democratic Republic, Djibouti, Guinea, Sudan, Tanzania, Uganda, Zambia, Haiti and South Sudan).

And finally, it would have been 31 countries without the margins and the condition of double criteria being applied simultaneously (with Benin, Central African Republic, Ethiopia, Mauritania, Senegal and Niger as supplementary countries).

It means that only 16 LDCs would still be eligible for inclusion...

Box 2: The resulting composition of the category and its evolution

From the previous analysis and the figures given in the bottom of the table 1, it is possible to show how the category membership has evolved since 1991 when graduation rules were designed. The upper part of Graph 1 represents the evolution of three groups of LDCs within the LDC category, from 1991 to 2018:

- 1) *The total number of LDCs: rather stable, slightly decreasing during the last decade;*
- 2) *The number of LDCs not meeting the graduation criteria (at least a first time): significantly decreasing from 48 in 2000 to 35 in 2018, what means that the number of LDCs meeting the graduation criteria (but not yet graduated) has been increasing;*
- 3) *The number of LDCs still meeting the inclusion criteria: after staying rather stable from 1991 to 2000 it has been sharply decreasing from 35 in 2000 to 16 in 2018 (it was still one half of the total number of LDCs in 2009, it is less than one third since 2015).*

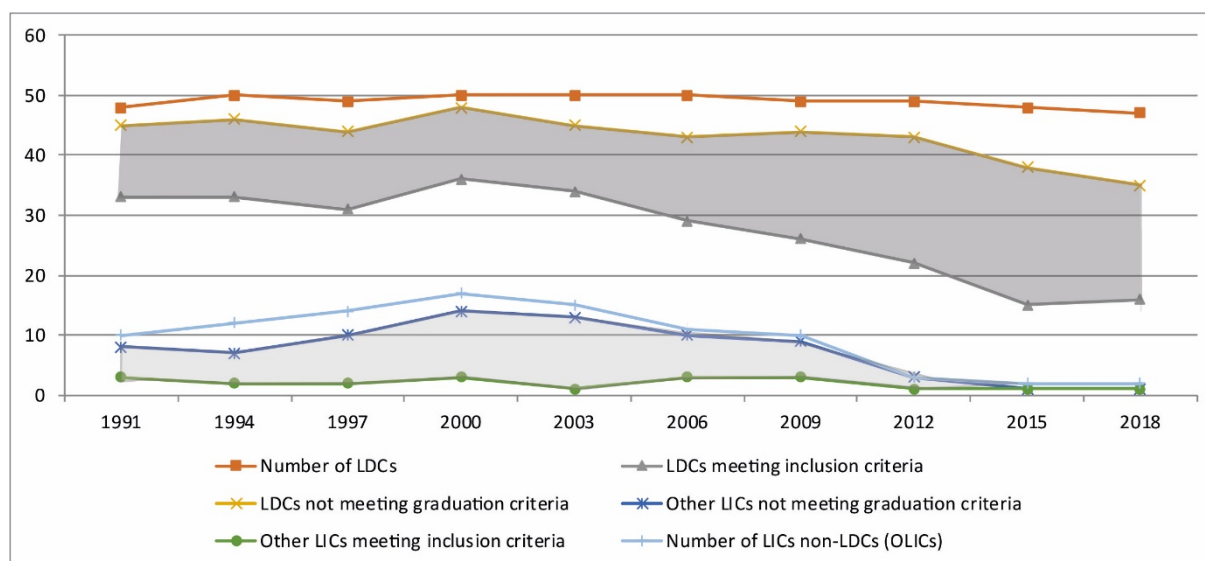
Since the decrease of 3) has been even stronger than that of 2), the number of number of LDCs meeting neither inclusion nor graduation criteria, named "discordant countries", has been slightly growing (except in 2008), weakening the consistency of the category.

And the lower part of the Graph by comparison represents:

- 4) *The number of other low income countries (OLICs), those which are not LDCs: after increasing from 10 in 1990 to 16 in 2000 has strongly decreased, to become only 2;*
- 5) *The number of OLICs not meeting the graduation criteria (had they been LDCs): as the total number of OLICs, still high in 2000, it has nearly disappeared in 2018;*
- 6) *The number of OLICs meeting the inclusion criteria, but not included, having refused: per se always very low and now reduced to 1 (Zimbabwe)*

The gap between 5) and 6) represents the OLICs meeting neither inclusion nor graduation criteria, and being as such in a position similar to that of the LDCs called above "discordant", what was undermining the consistency of the category: Their number after reaching 12 countries in 2003 has now disappeared (only one). Thus only the discordant LDCs, the number of which reached in 2015 nearly half of the LDCs number, still weakens the consistency of the LDC category.

Graph 1. Inclusion and graduation: How the composition of the category has evolved



3. Trends and prospects of LDCs graduation: Back to the category rationale

In order to examine these prospects (as done previously in Drabo and Guillaumont, 2014), we make the assumption that the graduation criteria remain unchanged: two criteria to no longer be met (initial and general rule) or the income per capita only criterion (added in 2005), with a margin with respect to the inclusion threshold. After recalling the prospects in 2020 at the end of the IPoA, we consider the graduation longer-term prospects according to the two criteria rule, then according to the income only criterion.

3.1. Graduation in the Istanbul timeframe

After Istanbul, while one country has been added to the list of LDCs (South Sudan, in 2012) only two countries have been graduated (Samoa, in 2014, Equatorial Guinea, in 2017). For two other ones the graduation has already been decided (by the GA), to be effective later: Vanuatu (in 2020), and Angola (in 2021). Seven other ones, having been twice eligible, have already met the criteria: Tuvalu (in 2012, then again in 2015, recommended for graduation by the CDP in 2012, what ECOSOC did not consider for an endorsement in 2012, neither in 2015, deferring its decision to 2018), Kiribati (not being recommended in 2015 by the CDP but recommended for graduation in 2018 at its third consecutive fulfilment of the graduation condition), Bhutan, São Tomé and Príncipe and Solomon Islands (for which graduation has been recommended by the CDP after their second fulfilment of the graduation criteria in 2018), Nepal and Timor-Leste (for which the recommendation for graduation by the CDP has been deferred despite having met the graduation criteria for the second consecutive time). Three other countries have been found eligible a first time in 2018, likely to be again found so in 2021 but could not “meet the criteria before 2020”: Bangladesh, Myanmar and Lao PDR. *Thus at the end of the decade, there could be 13 out of the 48 LDCs of the IPoA having met the graduation criteria (3 of which likely to have graduated), what means around one fifth instead the IPoA goal of one half.* Although graduation prospects are substantial, they significantly (and unavoidably) lag behind the IPoA goal..

We remember that since 2004 the graduation is effective only three years after the General Assembly has “taken note of” the recommendation of the CDP to graduate a country (a recommendation proposed only after the CDP has found the country eligible at two successive triennial reviews, i.e. meeting the criteria) . It follows that after the country has met the graduation criteria and been recommended for graduation by the CDP, at least three more years are needed for the graduation to be effective. Thus, according to the present rules, for a country to be actually graduated by 2020, it should already have been found eligible a first time no later than in 2012, and a second time in 2015, then recommended for graduation. If the recommendation is rapidly endorsed by ECOSOC and the General Assembly, it could be graduated at best in 2018. So that the number of countries on the list of LDCs that was 48 at the time of the IPoA (49 in December 2012 after the decision of the General Assembly to include South Sudan) will not be less than 46 (initial list + South Sudan – Samoa – Equatorial Guinea – Vanuatu). However six other countries might have graduated one year later in 2021; it could be the case of Angola for which the graduation has been decided for 2021, Tuvalu and Kiribati, two countries found eligible for a first time respectively in 2003 and 2012, and the three other countries recommended for graduation by the CDP in 2018 (Bhutan, Sao Tome and Principe and Solomon Islands) if the ECOSOC endorses the recommendation and the UNGA takes note of it promptly. According to the present rules (and without new inclusion or “voluntary graduation) *the minimum number of countries staying on the list of LDCs in 2021 would be 40, a decrease by nine (less than one fifth compared to 2011).*

As for the three LDC found eligible for the first time at the 2018 review, if they would be so a second time in 2021, they could be graduated at the earliest in 2024.

Graduation prospects should now be considered on a longer time horizon.

3.2. Graduation process and prospects according to the “two criteria” principle

Absolute versus relative thresholds: which impact?

According to the two criteria rule for graduation, a country is eligible for graduation if it reaches the graduation threshold for at least two of the three criteria.

For per capita GNI a threshold by 20% above the absolute level used by the World Bank

For the GNI pc (measured according the World Bank Atlas method), the threshold retained is now 20% above the inclusion threshold, that is the threshold used by the World Bank to separate low income and middle income countries (LICs and MICs). This inclusion threshold is an absolute level, constant over time (a history of this criterion in Guillaumont 2009a).

For HAI and EVI the graduation threshold is by 10% respectively above and below the inclusion one. HAI and EVI are composite indices, scaled, then assessed with respect to maximum and minimum values of a reference group (values possibly bounded to limit the impact of outliers on the index). Until 2012 the EVI and HAI inclusion thresholds were determined with respect to the quartile value of a reference group, making the corresponding criteria clearly relative. In 2015 the thresholds values have been maintained at their level of the 2012 review, with the aim at making the HAI and EVI criteria “absolute”, as is the GNIpc criterion. It does so only to some extent (see Box 3).

Box 3: Have HAI and EVI become really “absolute”?

In 2015 a change has occurred in the way by which the HAI and EVI inclusion and graduation thresholds are determined, with significant implications for graduation. From 1991 to 2015, and reversing the way by which the three identification criteria were managed since 1971 (see details in Caught in a trap), there was indeed an important difference between the per capita GNI criterion that was designed by an absolute threshold in constant dollars and the EVI or HAI thresholds, designed by the quartile value of a reference group, making EVI and HAI criteria “relative” whereas GNIpc criterion was an “absolute” one. In 2015 the HAI and EVI thresholds have been maintained at their 2012 value, suggesting they are now absolute and constant thresholds.

But EVI and HAI are composite indices averaging component indices that are by essence relative indices, a given (constant) value of which has no intrinsic meaning (it is a relative value at a given point of time). If any change occurs in the measurement of a component (new data, new design or new calculation method), the meaning of the supposed absolute EVI or HAI threshold will change. In other words, the new thresholds remain relative to way by which components have been measured and to how their maximum and minimum values have been determined: They are absolute constant index values only ceteris paribus i.e. if the measurement of each component remains strictly the same (and without updating of the previous data on which they rely).

Moreover one may wonder whether in a globalized world it is more meaningful to express the handicaps faced by poor countries in absolute terms, rather than in relative ones. Competitiveness is a relative

concept, handicaps probably too.(see in Annex 3. how it could be taken into account with a new design of the reference group)

This change in the definition of the EVI and HAI thresholds has an impact on graduation prospects. As far as EVI and HAI are improving all over the developing countries, a fixed level of the thresholds makes graduation easier (and inclusion more difficult). Indeed, had the previous determination of the thresholds from the quartile value of a reference group been maintained at the size of the 2012 review, three countries (Bhutan, Nepal and Solomon Islands) out of the four ones found eligible for the first time in 2015 on the basis of the two criteria rule (the fourth one being Sao Tome and Principe) would have not been so¹⁴. It follows that without changing the measurement of the HAI (and EVI) threshold, the number of the 48 IPoA LDCs likely to meet the graduation criteria by 2020 would not be 13 as assessed above, but seven, representing 1/7 instead of 1/5, lagging even more behind the goal of one half (for a discussion of the way by which the issue raised by the reference group could be managed, see Annex 3).

The position of these three countries with respect to criteria strongly differed. Bhutan was close to the income-only criterion (and even closer in 2018). Sao Tome & Principe, as most of previous graduating countries, has a middle level of income and a rather high level of HAI, but is still a vulnerable small island. Nepal is atypical, being the first country still with a low level of income per capita found eligible on the basis of the two structural handicap criteria, HAI and EVI. We come back later to this special case.

To assess the progress towards graduation with regard to the two criteria rule, three kinds of empirical exercises have been carried out. The first one aims at giving a global view on the evolution of the positions of LDCs with regard to each of the three criteria GNI, HAI and EVI. The other one aims at giving a country by country view on the evolution of the relative position with respect to the three criteria and so for each country in order to evidence the trends towards eligibility to graduation. The third one is to consider whether the evolution of the structural handicaps indicators evidence a structural transformation deserving graduation.

How have relative positions been globally changing?

The first exercise, considering all LDCs, and successively for each criterion, consists of comparing the position of the countries with respect to graduation thresholds at different review years. For a relevant comparison the review years 2000 and 2018 have been chosen since the EVI criterion has been introduced in 2000. However the composition of EVI (more than that of HAI) has changed during this period, in particular at the 2006 and 2012 reviews (see Guillaumont 2009a and 2013). In particular the definition of EVI changed in 2012 by a reduction by half of the weight given to the small population size component and the addition of a new component reflecting the share of population in low coastal areas. Moreover, as explained above, the design of the (inclusion and)

¹⁴ Their 2015 HAI level crossed over the 2012 graduation threshold, but would have not reached a graduation threshold located at 10% above the quartile value of a constant size reference group.

graduation thresholds has been changed in 2015. For these reasons, we also compared the evolution from 2006 to 2012 of an EVI corresponding to the (unchanged) definition of the 2006 and 2009 reviews, i.e. using an EVI calculated in 2012 on the basis of the 2006-09 definition.

Graph 2 presents the results for EVI¹⁵, graph 2 for HAI. The red and thick dash lines represent the graduation thresholds for both years, while the blue and thin dash lines represent the inclusion thresholds.

On Graph 2, the progress towards EVI graduation threshold between 2000 and 2018 appears rather weak. Among the countries that met the EVI graduation threshold in 2000, Eritrea, Madagascar, and Bangladesh, only the last one met it in 2018, while seven other countries that did not fulfill this criterion in 2000 do it in 2018: five ones do it clearly, Tanzania, Nepal, Haiti, Togo and Guinea, and three other ones were very slightly over the threshold, and thanks to the new design of a fix threshold, Myanmar, Uganda, Ethiopia, these ones being just on the borderline. On the other hand a majority of LDCs have come closer to the graduation threshold, as shown by their position with respect to the 45 degree line, and seven of them stay between the inclusion and the graduation thresholds¹⁶.

With regard to the HAI criterion, the results obtained are shown on graph 3. Since the changes brought in the composition of HAI (still named APQLI, Augmented Physical Quality of Life Index, in 2000) have been less significant than for EVI, the comparison from 2000 to 2018 is easier. A relative improvement clearly appears for this indicator. A quite larger number of LDCs (12) reach the graduation threshold in 2018 than in 2000 (0): Samoa (graduated in 2014), reaching it in 2000 was joined in 2012 by Tuvalu, Kiribati, Vanuatu, Sao Tome and Principe, and Myanmar, plus (and on the borderline) by three other ones in 2015, due to the change in the threshold definition, Nepal, Bhutan, Cambodia, and four additional LDCs in 2018, Timor-Leste, Lao PDR, Bangladesh and Solomon Islands. This improvement in the location of countries on the graph probably would have not been possible without a real progress in their human assets. However until 2012 it may also have been enhanced by the endogenous effect of the reduction in the reference group, or, less likely, by small changes introduced in the measurement of the index components.

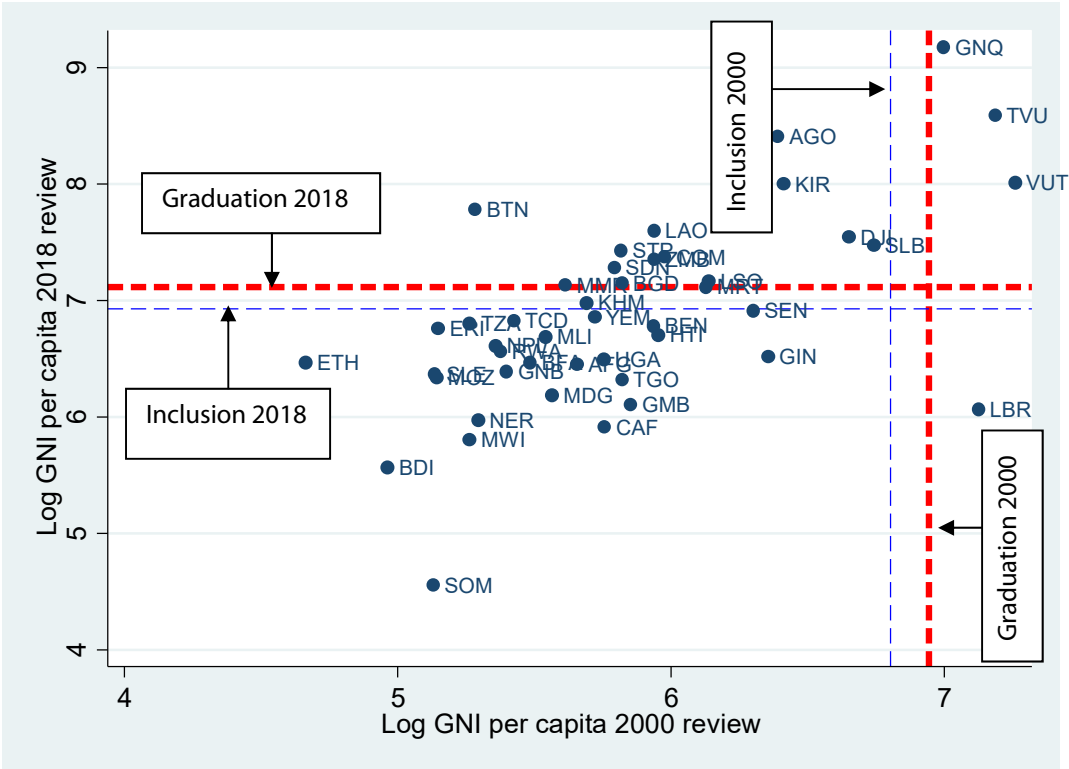
¹⁵ And the graph in Annex 1, where the black and thick horizontal line represents the graduation threshold of EVI for the year 2006 method applied to 2012

¹⁶ They were four in 2012, and would have been five in 2015, had the design of thresholds been unchanged. Do these results come from other changes in the definition of EVI, or from the structural change of countries? A partial answer is given in Graph in Annex 1, where the 2006 positions are compared to the 2012 ones, using for 2012 the same 2006-2009 definition of EVI. On this shorter period the picture seems better. All the four countries that met the graduation criteria in 2006 (Bangladesh, Tanzania, Guinea and Nepal) met it in 2012, while, Ethiopia met it in 2012 without having met it in 2006. On the other hand the whole distribution of countries on both sides of the 45 degree line appears more balanced than on Graph 1¹⁶. Thus it seems from the analysis that the 2011-12 changes in the EVI have affected the positions of LDCs with regard to the EVI graduation threshold.

With respect to the GNIpc criterion, the results as presented in Graph 4 show a global move towards the graduation threshold between 2000 and 2018. 17 countries fulfilled the ordinary graduation threshold in 2018 (14 in 2015 and 9 in 2012), compared to only four in 2000. Only one country (Liberia) met the threshold in 2000 without meeting it in 2018¹⁷.

As a result, during the last fifteen years the two-criteria based graduation eligibilities have resulted from the levels of the per capita GNI and the human asset index (Maldives, Tuvalu, Samoa, Vanuatu, Kiribati, Sao Tome and Principe, Solomon Islands, Bhutan, Bangladesh, Myanmar and Lao PDR), except in one case from the levels of HAI and EVI (Nepal).

Graph 4: Positions of LDCs with regard to log of GNIpc 2018 and log of GNIpc 2000 reviews.



The evolution observed in the relative position with respect to the HAI and EVI criteria should not be taken as a measure of the real change in the level of human assets or of economic vulnerability (a measure requiring setting up homogenous series of these two indices, as seen in chapter 1). It is an evolution with regard to moving thresholds, and depending on the definition of the indicators prevailing at each review. From the previous graphs, it is possible to identify which countries, are closer to meet two criteria of graduation at the next review. It seems that there are only two or three, Lesotho (which already meets the GNIpc criterion and is close to the HAI threshold), Togo (already meeting the EVI criterion and close to the HAI threshold), and possibly Cambodia (already meeting the HAI criterion and not far from the GNIpc and EVI thresholds). Anyway the chance of those countries to move forward in the graduation direction and cross the thresholds should also be

¹⁷ It is not relevant here to draw the 45-degree line, with the view to show an increase in the level of GNIpc, because the 2000 and 2018 values are expressed in current dollars.

assessed with regard to the trend they show in their relative position, without forgetting that since 2015 the absolute levels of the EVI and HAI thresholds remain unchanged.

Box 4: The EVI move away from and towards the graduation threshold: a Bangladesh puzzle

Due to its large size and diversification potential at the 2009 review of the list of the Least Developed Countries Bangladesh had the LDC lowest level of EVI (23.2), putting it quite beyond (-39%) the graduation criterion (set at 38) and more and more so since 2003, what could be seen as a progress towards graduation through a declining structural economic vulnerability. But at the 2012 review its position suddenly changed: With a sharp increase of EVI, estimated at 32.4 Bangladesh was no longer meeting the new graduation threshold, set up at 32. But the lower level of the graduation threshold cannot explain this dramatic change in the ranks. This change results from three factors the main of which is the revision in the definition of EVI that occurred between 2009 and 2012. This can be evidenced by comparing the reviews indices and those resulting from a calculation of the EVI according to the same method and data (FERDI calculations). Let us consider the evolution from 2006 to 2012 of the Bangladesh EVI.

Illustrated on a longer period, from the 2006 to the 2012 review: while the review EVI increased from 25.8 to 32.4 (+6.6), the unchanged EVI decreased from 23.5 to 19.1 (-4.4), on the basis of the 2006-09 review definition, evidencing a structural progress. The change in the composition (or weighting) of the review EVI contributed by 8.4, more (by 1.8) than the official increase (of 6.6). The change in the way by which some components have been calculated also contributed to increase the EVI by 4.5 (in particular the index of natural shock was calculated in 2006-09 from the homeless indicator and in 2012 from the broader indicator of the share of population victim of natural disaster). Furthermore some updating of data when the retrospective EVI were calculated had a small impact in the opposite direction (by -1.9).

Taken together these three factors ($8.4 + 4.5 - 1.9 = 11$) explain the gap between the increase by 6.6 of the review EVI and the decrease by 4.4 of the EVI calculated on the basis of the 2006 definition, a decrease that may reflect a structural economic change, a change which did occur in Bangladesh, although moderately (calculations made at FERDI with Joël Cariolle).

Do graduation prospects relying on the two criteria rule reflect structural transformation?

The evolution of the criteria indicators does not measure structural change per se, as it can be done with the retrospective EVI and HAI series, calculated at FERDI over a long period (1970-2014). It only shows to what extent a country is becoming closer to the current graduation criteria. An important issue is to know whether becoming closer to the EVI and HAI thresholds corresponds to a structural transformation. To check this correspondence we need to use time series of the EVI and HAI indices measured according the same method and the same data, as we did elsewhere (Cariolle, Goujon and Guillaumont 2015).

Since a low level of human capital and a high economic vulnerability are considered to be the main structural handicaps to development (it is the basic assumption on which the LDC category relies), enhancing human capital and reducing vulnerability should be considered as the basis of a structural change likely to transform the countries and allow them to move “out of the trap”.

3.3. Graduation prospects according to the income-only rule

According to the income only criterion rule introduced in 2005, a country can be eligible for graduation when it reaches twice the ordinary income graduation threshold, i.e. when its income per capita is at least 240% of the inclusion threshold (which is the low income threshold used by the World Bank). Since Istanbul one LDC (Eq. Guinea) has been graduated on the basis of this rule, and among LDCs not yet graduated, 4 countries have been meeting this criterion ... At the 2015 review Angola, found a second time eligible on the basis of the only income criterion, has been recommended for graduation. The GA having decided an exceptional additional postponement of 2 years for Angola in its decision of January 2016, this country will not be graduated before 2021. Kiribati, as seen above, eligible for the third time with regard to the two criteria ordinary rule, while meeting the income-only criterion a second time, was recommended only in 2018. Timor-Leste eligible for the second time with regard to income-only criterion was not recommended in 2018. Tuvalu, recommended for graduation since 2012 has also met and still meet the income-only criterion.

What are now the least developed countries likely to reach the income only criterion at the next reviews before 2030? These prospects rely on hypotheses to be made on the growth prospects of the countries. Results are summarized in Tables 4 and 5.

Assuming that each LDC is growing as in the previous fifteen years

We first suppose the LDCs maintain their rates of economic growth of the past fifteen years in the future¹⁸. The results obtained are summarized in Table 4 upper part. They show that seven (7) LDCs are likely to reach 2.4 times the level of the low income (LI) threshold in 2021¹⁹.

Moving to the year of the next review following 2021, what is 2024, these countries would be joined by Lao PDR, Sudan, and Zambia, in 2027 by Sao Tome and Principe and Solomon Islands, and finally by Cambodia in 2030. It means that 13 present LDCs would have reached the income only criterion in 2030, seven more than in 2020. If graduation was to be expected essentially on the basis of this criterion and in the extrapolated growth hypothesis, the IPoA goal for 2020 would not be reached in 2030.

A variant of this analysis is to consider the situation in which the previous average (extrapolated) growth rate of each LDC per annum is uniformly increased by 1%. This might be considered as an optimistic result of the implementation of IPoA, uniform for all LDCs. Table 4 also presents the results of this analysis. They are similar to the previous figure for 2018, but three (3) additional countries would be likely to reach 2.4 times the LI threshold in 2030 (Bangladesh, Djibouti, Lesotho).

An alternative approach to this analysis is to assess in how many years each LDC is likely to reach the threshold, according to the present level of income per capita and the estimated rate of growth. Table 5 shows the results of this exercise. Based only on the income rule and on the above assumptions, the number of LDCs not meeting this graduation criterion will decrease by half just before 2050. Those countries having registered very low or even negative rates of growth during the last decade will not be able to meet the income-only criterion during this century, unless their economic growth is not boosted.

¹⁸ Also supposing the rate of growth of GNI similar to that of the Gross Domestic Product (GDP), we first estimate the rate of growth of the per capita GDP from 2001 to 2014 by ordinary least squares method and from data of the (on line) *World Development Indicators*. Using these growth rates, we then extrapolate the GNI per capita from the latest available GNI per capita.

¹⁹ Including (i) two ones the graduation of which should occur at the latest in 2021, because it has already be decided by the UNGA (Angola and Vanuatu), (ii) one country already reaching this threshold a second time in 2018 (Timor Leste), (iii) one country already close to the threshold and recommended for graduation on the basis of two criteria (Bhutan), (iv) two countries already reaching this threshold, recommended for graduation and (v) one country found eligible for graduation for the first time in 2018 (Myanmar)

Assuming IPoA fully effective: each LDC is growing at the 7% target rate

One of the objectives of the Istanbul Programme of Action is the achievement of “*sustained, equitable and inclusive economic growth in least developed countries, to at least at the level of 7 per cent per annum,*” (United Nations, 2011, p.6) What does 7% mean? In the context of this sentence it seems to refer to the growth of the GDP. Of course a goal of 7% of GDP *per capita* would be very different since LDCs still have high population growth rates.

To assess the consistency between the graduation goal (with respect to the only income criterion) and the GDP growth, we first identified countries on track to reach the income graduation criterion if their average GDP growth rate was 7 per cent per year, starting from the year 2014²⁰. We assume that the LDCs keep their population growth rate of last fifteen years and calculate the per capita growth rate as the difference between 7 and their population growth rate. We then extrapolate the GNI per capita from the latest available GNI per capita (2014). It does not change the number (7) of LDCs meeting the criterion in 2018, compared to the result from extrapolated growth. And still compared to it, it will add only one country (Mauritania) to the list 17 countries reaching the threshold in 2030.

Let us now suppose that the 7% target refers to the per capita GDP growth rate, which is a very high rate indeed, reached during the 2000’s only by two oil exporters (Angola and Equatorial Guinea). The result obtained is of course better, they are summarized in the fourth and last row of Table 1. Thirteen (13) LDCs are likely to reach the income criterion threshold by 2021 and twenty-four (24) by 2030.

It should be noted that in all these simulations all the countries found eligible in 2018 on the basis of the traditional two criteria rule also appear to meet the only income criterion between 2020 and 2030, except Nepal, indeed a special case.

²⁰In a previous assessment of graduation prospects we started from 2011 (see Drabo and Guillaumont, 2014?)

Table 4: Countries likely to meet the income-only graduation threshold at the next five reviews if they keep last decade growth rate of GNI or grow at the 7% target of IPoA.

Review Years	2021	2024	2027	2030
List of countries likely to reach the income-only graduation threshold if their per capita growth rates remain those of 2001-2014	Angola Bhutan Kiribati Myanmar Timor-Leste Tuvalu Vanuatu (7 countries)	Idem as 2021+3 Lao PDR Sudan Zambia (10 countries)	Idem as 2024+2 <i>Sao Tome and Principe</i> <i>Solomon Islands</i> (12 countries)	Idem as 2027+1 Cambodia (13 countries)
List of countries likely to reach the income-only graduation threshold if their economic growth rates increase by 1%, compared to those of 2001-2014.	Idem as above +1 Lao PDR (8 countries)	Idem as above + 2 <i>Sao Tome and Principe</i> <i>Solomon Islands</i> (12 countries)	Idem as above+1 Djibouti (13 countries)	Idem as above+3 Bangladesh Djibouti Lesotho (16 countries)
List of countries likely to reach the income-only graduation threshold if their economic growth rates were 7%.	Idem as above -1+1 <i>+Solomon Islands</i> <i>-Myanmar</i> (8 countries)	Idem as 2021+5 Djibouti Lao PDR <i>Sao Tome and Principe</i> Sudan Zambia (13 countries)	Idem as 2024+2 Lesotho Myanmar (15 countries)	Idem as 2027+3 Bangladesh Mauritania Yemen, Rep. (18 countries)
List of countries likely to reach the income-only graduation threshold if their per capita economic growth rates were 7%.	Idem as above -1+6 <i>-Myanmar</i> <i>+Djibouti</i> <i>+Lao PDR</i> <i>+Sao Tome and Principe</i> <i>+Solomon Islands</i> <i>+Sudan</i> <i>+Zambia</i> (12 countries)	Idem as 2021+4 Lesotho Mauritania Myanmar Yemen, Rep. (16 countries)	Idem as 2024+2 Bangladesh Senegal (18 countries)	Idem as 2027+5 Benin Cambodia Chad South Sudan Tanzania (23 countries)

Note: in italics, countries found in 2015 eligible a first time on the basis of two graduation criteria

Table 5: Year (before 2050) at which each LDC is likely to meet the GNI per capita graduation threshold, would its rate of growth be that of 2001-2014, starting from 2014

Countries	Years of reaching graduation threshold	Countries	Years of reaching graduation threshold	Countries	Years of reaching graduation threshold
Tuvalu	Already reached	Sudan	2023	Ethiopia	2037
Equatorial Guinea	Already reached	Solomon Islands	2024	Afghanistan	2038
Vanuatu	Already reached	<i>Sao Tome and Principe</i>	2027	Rwanda	2040
Angola	Already reached	Cambodia	2030	Mauritania	2041
Timor-Leste	Already reached	Lesotho	2033	Sierra Leone	2044
Bhutan	Already reached	Bangladesh	2033	Tanzania	2044
Myanmar	2021	Djibouti	2034	Mozambique	2047
Lao PDR	2022	Chad	2035	Uganda	2050
Zambia	2023				

Note: in italics, countries found in 2015 eligible a first time on the basis of two graduation criteria

3.4. Back to the rationale of the category

The previous results should be considered with regard to the rationale of the LDC category.

The structural likelihood to graduate

The least developed countries (LDCs) have traditionally been defined as low income countries (LICs) suffering from structural handicaps to growth (more recently to sustainable development). As such they were the countries the most likely to stay poor. Their “least development” can be expressed in a synthetic measure, the natural expected income, obtained from the combination of the indices corresponding to the three criteria, present level of income per capita, human capital and economic vulnerability. As explained in Guillaumont (2009a)²¹, the expected natural per capita income is the per capita income that could be expected if each country structural handicaps remained at their present level, and their marginal impact on growth remained unchanged, all other factors affecting growth being identical across all countries. In other words, it is the future per capita income calculated from its present level of per capita income, and its present level of human capital and economic vulnerability.. Countries can be ranked by their risk of having a per capita income below a certain level in a given future for reasons not depending on their present and future policy. The reverse order corresponds to a ranking in a structural probability to be graduated in x years. The advantages of this approach come from its ability to take into account the three structural features/criteria identifying the LDCs, and to lead to ranking LDCs in 2020 (or later) according to this index.

This method should not be seen as assuming that there is no impact of the IPoA on the rate of growth. As the previous methods applied relying on extrapolation of the past growth, possibly

²¹ Guillaumont, *Caught in a trap*, (2009a), chapter 9

increased by a given and uniform rate, it only supposes that its impact on growth is the same among LDCs.

Box 5: Assuming each LDC growing at its expected structural or natural rate

Methodologically, as done in Guillaumont (2009a), economic growth is regressed on the logarithmic forms of initial per capita income level (Y_0), the economic vulnerability index (EVI) and the complement to 100 of the human asset index (100-HAI) as followed²²:

$$\text{growth}(Y) = \alpha \log(Y_0) + \beta \log(\text{EVI}) + \delta \log(100 - \text{HAI}) + \varepsilon$$

The estimated coefficients obtained (assumed unchanged) are used for the projection of a virtual future (“natural”) income from the latest value of the three variables (present income and handicaps assumed unchanged).

New estimations of the impact of the structural handicaps (and convergence factor) on per capita income growth have been run with same specification of the criteria variables as in Guillaumont (2009a), still over 1970-2010 in order to capture the factors at work before the adoption of the IPOA, but with GMM estimations on a panel of five year periods²³. The coefficients of the logarithmic form of initial GNI per Capita, 100-Human Asset Index, and Economic Vulnerability Index are negative and significant, still consistent with the previous findings of Guillaumont (2009a). The sample of 73 countries includes 29 LDCs.

This result underlines the important role played by (low) HAI and EVI as relative handicaps in economic growth, and the existence of conditional economic convergence among developing countries (including LDCs) when these variables are taken into account.

The growth of the per capita income to 2020 and 2030 has thus been simulated, starting from the level of the criteria variables used at the 2012 review, except for EVI, recalculated according to the method of 2006-09, more appropriate for this exercise²⁴. The results are presented in Table 7.

The half of LDCs likely to reach the highest level of income at the end of the decade, when taking into account their structural handicaps.

Let us first look at the ten countries the most likely to graduate: they include, after Equatorial Guinea, already graduated, the presently two graduating countries (Angola and Vanuatu,), five other LDCs already found at least twice eligible (Tuvalu and Kiribati and, since 2018 Bhutan, Sao Tome & Principe, and Timor Leste,), then Djibouti and Sudan, close to the income-only criterion, three out of seven not yet graduating being oil exporters. The half of the 48 LDCs, 24 LDCs, which are the most likely to graduate for structural reasons include these ten previous countries, and 14 other ones of

²² The logarithmic specification is used to capture interaction between the two handicaps, as assumed by the identification through complementarity criteria (mutual reinforcement of handicaps).

²³ The results obtained from the regression are the following with absolute t statistics in parentheses: $\text{growth}(Y) = 0.328(3.93) - 0.025(3.22)Y_0 - 0.010(1.96)(\log \text{EVI}) - 0.032(3.80)(\log 100 - \text{HAI})$

²⁴ The use of the 2006-09 definition instead of the 2012 one, is legitimate because the new component added (low coastal area population) is intended to reflect a risk for long term and sustainable development, but would weaken the relationship of EVI with growth, as estimated on the past and still relevant for the next two decades.

various kinds (SIDS, landlocked countries, mineral and manufactures exporters), but not Nepal found eligible a first time in spite of a low level of GNI per capita. Among the following countries, some may catch up the top group as a result of rapidly increasing exports of fuels or minerals recently discovered (such as Mozambique). This leads to underline once again that the present exercise is illustrative of the factors at work, and not at all a prevision. Graduation prospects are indeed determined by those structural variables featuring the least developed countries, but also dependent on new exogenous factors not captured in the criteria indicators, on the respective quality of policies implemented by the countries, and on the benefits they will be able to draw from international support measures.

Table 6: 2020 expected natural income ranking of the 48 Istanbul LDCs

country	2020 ranking	country	2020 ranking	country	2020 ranking
Equatorial Guinea	1	Myanmar	17	Guinea-Bissau	33
Tuvalu	2	Senegal	18	Mozambique	34
Angola	3	Bangladesh	19	Gambia	35
Timor-Leste	4	Comoros	20	Togo	36
Vanuatu	5	Cambodia	21	Guinea	37
Kiribati	6	U.R. Tanzani	22	Chad	38
Bhutan	7	Benin	23	Eritrea	39
Djibouti	8	Haïti	24	Central Afric. Rep	40
Sudan	9	Afghanistan	25	Madagascar	41
Sao Tome Pr	10	Mali	26	Malawi	42
Solomon Islands	11	Burkina Faso	27	Ethiopia	43
Lesotho	12	Uganda	28	Niger	44
Zambia	13	Nepal	29	Congo D.R.	45
Mauritania	14	Rwanda	30	Liberia	46
Yemen	15	South Sudan	31	Burundi	47
Lao People's DR	16	Sierra Leone	32	Somalia	48

A step further: revising graduation criteria?

Indeed, it would have been possible to revise the graduation criteria so that they will be met in 2020 by half of the countries still LDCs at the time of the Istanbul Conference. But this was not what the IPoA was aiming at. As we have seen, some change has occurred in the design of the HAI and EVI graduation thresholds, leading 3 additional countries to reach the goal (for their HAI)²⁵. Any revision should be consistent with the principles of the category, and, at least to some extent, be equitable over time with regard to the previous practices of graduation. It moreover might make graduation easier. This should be done before the 5th UN Conference on LDCs that will correspond to 50th anniversary of the category, and a possible adoption of a new graduation goal....

The previous and purely illustrative exercise (3.3) invites to stick to the principles of the category by simultaneously considering the present level of income per capita and the two kinds of structural

²⁵ This reform is discussed in Guillaumont (2014)

handicaps to growth. It would be difficult to use the expected natural income as an augmented income-only criterion, with an appropriate threshold to be determined, because the LDCs identification could not rely on an econometric estimation, always debatable. But another composite index averaging the three indicators of low (log of) income per capita, low human capital and economic vulnerability, as presented in *Caught in a trap*, and called here “Least Development Index” (LDI) could easily be used, covering a larger number of countries than the LDCs group. It could also, but not necessarily be used as an inclusion criterion as well. The Annex 5, simply illustrates what could be the ranking of LDCs according to this LDI. It is measured as a quadratic average of the 3 indicators (data of the 2018 Review), so that their impact is not perfectly substitutable, thus reflecting the initial complementarity of the three criteria.

The ranking of the LDCs according to this LDI, from 2018 Data, evidences both the consistency of the category and that of the present process of graduation, meaning that it could be used as a rule of identification in the future without generating inter-temporal inconsistency: among the 40 countries with the highest “least development index” and a population < 100 millions (a 4th criterion applied), all are LDCs (except Zimbabwe, who refused, and Cote d’Ivoire); and all the other 9 LDCs (except Djibouti) are graduating, recommended or simply eligible among the other ones. Referring to this ranking for graduation would lead to reconsider only the case of Kiribati (recommended, in spite of a high LDI, which would make it no longer eligible). Moreover Nepal found eligible, but not recommended in 2018 would no longer be eligible, ranked 39th²⁶

A minor revision, that also can be applied only to graduation, and still fitting the rationale of the category, is easier to implement, and was already suggested by the CDP. The CDP agreed in 2005 to consider simultaneously only the two structural handicaps (HAI and EVI) in such a way as to take into account some degree of substitutability among the criteria and the possible combined impact of the handicaps as captured by the HAI and EVI” (CDP, 2005)²⁷. This additional information can become a more formal graduation rule, relying on the combined level of (100-HAI) and EVI, we called “*structural handicap index*” (SHI), in *Caught in trap* (Guillaumont, 2009). It is possible to determine graduation thresholds by the same way it has been or is done for each of the two present HAI and EVI indices, either by applying the quartile rule to a reference group of usual size, as done until 2012 (see in Annex how this rule could be re-designed), or by keeping a fix threshold from the 2012 threshold values, as done in 2015 and in 2018. The measurement the more consistent with what has been done in 2012-2015-2018 would be to measure the SHI threshold for 2012 applying the quartile rule to the reference group used at that time, then to keep this value as an “absolute value” for the SHI threshold of 2018²⁸.

²⁶ Djibouti, ranked 42d, could possibly be eligible, depending on the threshold retained

²⁷ Actually in 2006, before recommending Samoa for graduation, it noted “the average of the two indices, (100 –HAI) and EVI was “at a level similar to that of Cape Verde, whose graduation has been decided by the General Assembly”.

²⁸ This seems preferable to measure the SHI threshold of 2015 by the average of the EVI and (100-) HAI “absolute value” thresholds as designed in the 2012 and 2015 Reviews, with 32 for EVI and 34 for 100-HAI, the simple average of which is 33.

The SHI index can be calculated either as an arithmetic average, supposing a perfect substitutability between the two handicaps impact, what is the simplest, or preferably as a quadratic average²⁹, giving higher impact to the stronger handicap and reflecting a limited substitutability between handicaps impact. The quadratic average is more consistent with the usual design of the category where each handicap criterion should be met for inclusion: the handicaps interaction is supposed to make growth more difficult.

Consistent with the present graduation practice, there could be again a “two criteria rule” according to which the new SHI criterion (replacing the two HAI and EVI criteria), and the GNIpc graduation criterion are both to be met, supplemented, as presently, by an income-only criterion..

Let us apply the (quadratic) SHI criterion of graduation to the figures of the 2018 review and examine whether the eligibility for graduation would have been modified:

- Tuvalu and Kiribati (recommended for graduation) and Timor Leste (not recommended) would have not met the SHI graduation criterion³⁰, but were anyway eligible on the basis of the income-only criterion
- Bhutan, and Sao Tome & Principe would have still been eligible a second time to graduation on the basis of the 2 criteria rule, whatever the measurement of the SHI threshold;
- Solomon Islands would not have been so;
- Nepal, would have met the SHI graduation criterion, but would have not been eligible to graduation, being still a low-income country, while Bangladesh, Myanmar, and Lao PDR would still have been eligible a first time on the basis of the two criteria rule. The special case of Nepal, raising conceptual issues about graduation, is discussed in Box 4.³¹

Moreover applying this rule of two criteria (GNIpc and SHI) to inclusion would enhance the consistency of the category, since the number of LDCs still meeting the two criteria would significantly increase (from 16 to 25 or 27³²), without any additional eligibility to inclusion.

²⁹ Or a reverse geometric average, as done in *Caught in a trap*.

³⁰ Tuvalu only if the SHI is calculated through a quadratic average, but it would have been eligible with an arithmetic average

³¹ Using this new rule would make even easier for Bangladesh (having the lowest SHI among LDCs) to implement the “atypical approach” suggested by Bhattacharya and Borgatti (2012) to become rapidly eligible by accelerating the improvement of its human capital.

³² Depending on the precise threshold location

Box 6: The Nepalese exception, and its implications for the meaning of graduation: Measuring vulnerability matters

In all but one cases LDCs have been considered as eligible to graduation either for their income per capita and HAI, on the basis of two graduation criteria rule, or on the basis of the income-only criterion. The exception is the case of Nepal, found eligible in 2015, as crossing the graduation thresholds for HAI and EVI, although still being a low income country (with an income per capita 36% below the graduation threshold).

The Nepal exception appears as a paradox. If the rationale of the category is valid, a country having overcome its structural handicaps would no longer be locked into a low level trap. All other eligible countries had indeed become middle income countries. There may be two kinds of reasons for this Nepalese exception.

One would be that Nepal suffered from obstacles to economic growth that were not structural, but linked to a poor policy. It does not seem that the other countries found eligible to graduation did apply significantly better policies (as assessed by the World Bank CPIA, cf above chapter II). But Nepal evidences a rather poor ranking with regard to various indicators of socio-political vulnerability and state fragility (cf Guillaumont, 2017). Are the factors reflected by these indices not exogenous, independent on current economic policy, and a part of the structural vulnerability of Nepal?

Another and better reason for the Nepalese exception is that the structural obstacles to growth faced by Nepal are not fairly reflected in the HAI and EVI indicators, due to their scope or the way by which they are measured (see the paragraph "What the EVI does not tell us" in Guillaumont, 2017). Let us simply note four factors of underestimation of the genuine structural economic vulnerability of Nepal by the official EVI:

- *the measurement of export instability of goods and services does not take into account the instability of remittances, which are especially high in Nepal;*
- *the measurement of the concentration of merchandise exportation only considers the concentration by product, and not the concentration by destination, that is very high in Nepal, due to its links with India: the 2 kinds of concentration reinforce the risk they raise;*
- *the new EVI component LECZ introduced in 2012 leads to a biased treatment of the risk of flooding due to global warming: this risk results not only from the sea level rise, but also in a country such as Nepal (or Bhutan) from glacial lake outburst flood (so-called GLOF);*
- *the period covered by the calculation of EVI in 2015 could not permit to take into account the vulnerability due to the occurrence of earthquakes in Nepal, as evidenced by the earthquake of April 2015, not yet fully taken into account in the EVI of 2018, due to statistical lags and the measurement of shocks on long periods.*

Anyway the case of Nepal shows the need to supplement the mechanic application of the criteria indicators for graduation by an assessment of structural handicaps, what the vulnerability profile is expected to do.

4. Impact of graduation: Assessments and monitoring

The impact of graduation has two faces. It first can be seen as a reverse of the impact of LDC membership, and be all the more negative that the impact of membership (examined all over this book) is positive. But since graduation occurs in a context differing from that of the most LDCs, its impact is not symmetrical to the average impact of membership: a country is graduating because it is supposed to have overcome the structural handicaps which locked it into a trap. Thus the special measures linked to membership may be less needed for it than for a current LDC. Furthermore the graduation, by showing the country has reached a new development potential, may increase its attractiveness.

In this section the impact of graduation is considered under two main headings. First the several kinds of assessments conducted alongside the process of graduation are reviewed. Second, drawing on the lessons from the few cases of graduation observed (in four to five cases and on a rather short period), some rough evidence of the actual impact is looked for.

4.1. How the expected effects of graduation have been examined

Before taking a recommendation of graduation, the CDP wanted to consider any useful information about the expected effects of graduation. These effects have been examined through three main steps.

Main steps: From “vulnerability profiles” to “ex ante assessments” and to monitoring

In 1999, when adopting the new EVI criterion in place of the former EDI (Economic Diversification Index), the CDP recognized that the indicators used did not capture all the development impediments. Therefore, it proposed to also consider a “vulnerability profile” to be prepared by UNCTAD for LDCs found eligible to graduation for the first time. The vulnerability profile, looking at the factors of vulnerability not necessarily well captured by the EVI, was expected to help the CDP to make its judgement about graduation of an eligible country. Maldives was the first country to have a “vulnerability profile”, prepared for the 2000 triennial review, where, fulfilling two graduation criteria (HAI and GNIpc), it was recommended for graduation by the CDP. After the decision of ECOSOC to defer the Maldives graduation, the CDP requested UNCTAD to prepare a new vulnerability profile of Maldives for the 2003 triennial review. Since the 2003 triennial review, 13 other vulnerability profiles have been prepared: for Maldives and Cape Verde in 2003, Samoa in 2006, Equatorial Guinea in 2009, Kiribati in 2009, 2015 and 2018, Tuvalu and Vanuatu in 2009 and 2012, and Angola in 2015, Bhutan, Nepal, São Tomé and Príncipe, Solomon Islands and Timor-Leste in 2018.

In addition to the vulnerability profile, the year preceding the second triennial review after the first eligibility to graduation, the UNDESA (CDP Secretariat) uses to prepare an *ex-ante impact assessment*

examining the likely economic and social consequences of graduation on the country that could result from the loss of access to special support measures for LDCs³³.

The vulnerability profile, as a graduation warning

UNCTAD has been preparing a vulnerability profile for all the 13 LDCs having met graduation criteria for the first time, nine of which were SIDS (Maldives, Cape Verde, Samoa, Vanuatu, Kiribati, Tuvalu, São Tomé and Príncipe, Solomon Islands, Timor-Leste) and the two other ones oil exporters (Equatorial Guinea and Angola). These vulnerability profiles expose the historical and institutional context of each country, provide an overview of the country with regard to each of the graduation indicators (per capita GNI, HAI, and EVI), analyzes the overall vulnerability including those aspects not covered by EVI, and highlights the impediments to development met by these countries, likely to slow down their progress after they leave the category.

The vulnerability profiles, while recognizing that the countries had registered a steady and fast progress in the level of income per capita, pushing them quite above the corresponding graduation threshold³⁴ and that, in the case of SIDS, their HAI was also above the graduation threshold, discussed several times the relevance of some concepts and data used by the CDP in order to reassess the performance of the graduating countries (eg use of GNI instead of GDP³⁵, consideration of income distribution and environmental degradation³⁶). Above all they underlined the importance of the vulnerability factors existing in the graduating countries, reflected in a high level of EVI and other aspects of vulnerability.

As for Maldives³⁷, Cape Verde, Samoa, Vanuatu, Tuvalu, Kiribati, São Tomé and Príncipe, Solomon Islands and Timor-Leste the vulnerability profiles underlined that their EVI was far below the graduation threshold (and even the inclusion one) and these countries are highly exposed to natural disasters, to the handicaps of small population size, remoteness, and instability of agricultural production... Maldives and Solomon Islands, they noted, are also affected by beach erosion, high population density, deforestation, dumping of solid waste on beaches, leaching of toilet waste into the groundwater...

³³ Concerned countries are also invited to provide comments on the two documents and can make oral presentation at the expert group meeting prior to the triennial review and provide a written statement. Since 2009, assessment notes have been produced for ten countries: Tuvalu, Vanuatu, Kiribati, Equatorial Guinea, Angola, Bhutan, Nepal, São Tomé and Príncipe, Solomon Islands and Timor-Leste.

³⁴ The incomes of graduating SIDS presented good improvement relatively to the graduation threshold ranging from 163% of the threshold in 1997 to 220% in 2003 for Maldives, 98.6% in 2000 to 161% in 2006 for Samoa, 104.6% in 1997 to 147% in 2003 for Cape Verde, Vanuatu 120% in 2003 to 213% in 2012, Tuvalu 141% in 2006 to 419% 2012, Kiribati from 96.5 in 2009 to 163% in 2012.

³⁵ In Maldives, Samoa, Vanuatu, Kiribati and Cape Verde the GNI has generally been smaller than the GDP due to net payments abroad of investment income, but the gap has been decreasing. However, for Tuvalu and Kiribati the GNI exceeded the GDP.

³⁶ Environmental degradation is not taken into account because of the scarcity of data. Moreover, income inequality is not used as indicator for the identification and graduation of LDCs because it can be considered as policy variable, and the human capital indicators (APQLI and HAI) indirectly reflect poverty and income distribution situations.

³⁷ To be noted, Maldives in 1997 curiously reached the Economic Diversification Index (EDI) threshold, what has been in 2000 a good argument to replace the EDI by the EVI.

In the case of Bhutan, although EVI was at a lower level, the profile noted that its improvement was impeded by two out of its eight components: agricultural instability and small population. The vulnerability profiles of Equatorial Guinea and Angola were different, since in the two countries graduation was based on the income only criterion, due to natural resources availability (with a per capita GNI 4 or 3 times the graduation threshold, while the threshold for HAI and EVI were not reached. But they noted that Equatorial Guinea and Angola were vulnerable to oil price reduction, remoteness and export concentration, and they still evidenced high levels of poverty. Nepal, as noted above, presents a situation totally different from the other graduating countries, since its eligibility for graduation in 2015 was based on the HAI and EVI, while its GNI pc is still very low. So the vulnerability profile, while recognizing that this country is less vulnerable compared to other LDCs, made several references to the 2015 earthquakes, but underlined that its income is mainly dependent on remittances from Nepalese living abroad (see other arguments in Box 6).

All the 13 countries were said to have difficulties to achieve structural transformation and thus to sustain their progress. The vulnerability profiles argued that an immediate graduation would impact negatively Maldives, Cape Verde and Samoa through international trade, development financing, and technical and financial assistance³⁸. To address these potential graduation consequences, the vulnerability profile, for instance in the case of Maldives, also proposed special graduation treatment based on: (1) let the country enjoy full market access for export for about 10 years; (2) gradual phasing out of concessionary measures; (3) new modalities of differential treatment, even those not granted by the virtue LDC status.

Finally the UNCTAD vulnerability profiles appear to have been mainly an advocacy to underline the vulnerability of countries likely to be graduated on the basis of criteria other than their vulnerability. They have been a graduation warning rather than an assessment of the possible consequences of their graduation. None of them clearly evidenced a high risk that, following the loss of benefits linked to the LDC status, the graduated country would face a deterioration of its situation and possibly come back eligible for inclusion on the LDC list³⁹.

The CDP ex ante impact assessments⁴⁰

The ex-ante impact assessment have been prepared by the CDP Secretariat to assess the likely (future) consequences of graduation for a LDC, an issue not really addressed by the vulnerability profiles. Development and trading partners provide an LDC with special or preferential treatments

³⁸. Regarding international trade, their exit from the category was supposed to lead them to the loss of competitiveness vis-a-vis to LDCs and non-LDCs (mainly through loss of preferential access to market), the loss of the rules of origin, the loss of implementation delays regarding the WTO obligations for Maldives due to the limited institutional capacities and the slow down of the accession to WTO for Cape Verde and Samoa. For the development financing issue the graduating countries was fearing reduction in concessional financing due to the interpretation of graduation as signal of enhanced capacity of the country. The vulnerability profiles of these countries also anticipated disqualification from applying for trade related technical assistance under the Integrated Framework and the loss of travel coverage for important global events impacting the government budget.

³⁹ The main threat evidenced (for some SIDS) was the risk of a country to be flooded due to the sea-level rise or devastated by hurricanes

⁴⁰ This paragraph relies heavily on the work of the CDP Secretariat, and in particular of Hiroshi Kawamura who prepared a note for this book, a part of which, explaining the methods and results of the ex-ante assessment for Equatorial Guinea, Kiribati, Tuvalu and Vanuatu (see CDP website).

in trade, official development assistance and other areas (see chapters 3 to 6). Once the country has graduated from the category, the development and partners are no longer obliged to extend such preferential treatments. The major objectives of the ex-ante assessment are, first, to see if and when partners would introduce changes in their aid or trade policies towards the country after the graduation and, second, to evaluate likely impacts of such changes. The distinctive feature of the impact assessment, compared to the vulnerability profile, is its emphasis on examining potential impacts of the discontinuation of the special (support) measures extended to an LDC. A specific task is then to gather information through desk work and contacting development and trading partners via questionnaires, and to collect information on the future behavior of the partners after the country graduation: do they intend to postpone the end of special measures or to take other measures to mitigate its effect?

In response to the request by the ECOSOC, the CDP Secretariat has so far undertaken ex ante impact assessments on ten countries (namely, Equatorial Guinea (2009), Kiribati (2009, 2015, 2018), Tuvalu (2009, 2012), Vanuatu (2009, 2012), Angola (2015), Bhutan (2018), Nepal (2018), São Tome and Príncipe, Solomon Islands (2018) and Timor Leste (2018)) which were recommended to graduate from the list of LDCs by the CDP from 2009 to 2018.

The ex ante assessments of the CDP do not use model-based quantitative methods. They rely on a more descriptive methodology focused on each LDC special measure that a graduating country may cease to benefit. This approach appeared to be more adapted to the issue examined and the data availability as well. To qualitatively assess the importance of socio-economic implications of probable changes in the special or preferential treatments, the first task was to identify the support measures available to the country on the basis of its LDC status, and the second to quantitatively or qualitatively examine their importance in country's economic activities and social development. The third one was to identify probable changes in special or preferential treatments to be made by development and trade partners. This was done by asking the partners via a form of the questionnaire and by reviewing rules and commitments made by them in regard to the graduation of an LDC.

However this approach had its limitation, well summarized in CDP Secretariat documents, and corresponding to the difficulty, underlined all over this book, to measure the impact of the LDC status." *First some measures or treatments are not necessarily specific to LDCs, but are development assistance/treatments for developing countries in general, which can nevertheless be affected by graduation⁴¹ ... Second, there can be multiple or wide ranging impacts of a single support measure. For example, trade preferences extended to LDCs' exports to its developed countries' market help the country to increase the exportable, access to foreign exchange, employment and economic growth. Without a macro-econometric or simulation model, total impacts at the economy-wide level of the loss of trade*

⁴¹ "For example, whereas the European Union's "Everything but arms" initiative and the UN financial support for LDCs to UN General Assembly are easily identified and specific to LDCs., at least some part of ODA given to an LDC by donor countries or multilateral institutions are not solely based on its LDC status, but are not identifiable (many donors send development assistance to LDCs not solely because of their LDC status, but because of donors' own political, historical or humanitarian reasons)".

preferences are not easily estimated. Other support measures, such as the special consideration given to an LDC when becoming a member of the WTO, are not simply measurable.

Given these constraints and limitations, every effort has been made by the CDP Secretariat to collect latest information from national, regional and international sources on socio-economic data on the LDCs concerned and on trade, tariff rates and external aid data of their development and trade partners” (Kawamura 2010).

The conclusion drawn from these ex ante assessments, as presented by Kawamura (2010), are still valid, even once updated to take into account the results of more recent ones.

“ Graduation of Angola, Equatorial Guinea, Kiribati, Tuvalu and Vanuatu from the list of LDCs does not appear to significantly influence development paths of these countries at least in the short- to medium-terms, except a few areas, such as higher tariffs on copra and tuna exports to the EU and Japan, access to the Least Developed Country Fund (LDCF) under the UNFCCC/GEF and expected higher contributions to the UN peacekeeping operations. The limited impact of graduation on their development paths is largely due to two factors; (i) trade liberalization at the global level since the 1980s has eroded preferences given to LDCs, relative to non-LDCs as a result of reduced tariff differentials between the two groups of countries, and: (ii) major bilateral donors and some multilateral institutions have their own aid policies and criteria for aid allocations among recipient countries and LDC status is merely one of many factors that they consider when offering aid.

The exercise of the ex-ante assessment has revealed not only the limited impact of graduation, but also the complex web of arrangements for implementing various support measures for LDCs. For example, it had to go around many ministries in donor countries to find out likely impact of graduation of the five countries.... Because of this decentralized structure in regard to administrating and implementing support measures for LDCs, it took rather longer time to receive a comprehensive reply from them on likely changes that donor countries would introduce when a country becomes a non-LDC....

Second, various programmes and funds in the UN Secretariat and UN specialized agencies and programmes have special clauses or fund allocations for LDCs to receive technical cooperation at favourable terms or to attend assemblies and conferences under their auspices. But there is no centralized unit in the UN to monitor how these special clauses and funds are utilized. It is difficult (if not impossible) to see to what extent LDCs are aware of these and, more importantly, they fully use the funds for their advantage.

Third, it is about the timing of conducting an ex-ante assessment. It is undertaken after an LDC is considered to be eligible for graduation for the first time and, therefore, it takes at least 3 years for this LDC to actually graduate. The CDP Secretariat has to ask donors a rather “hypothetical” question, i.e. “what if a country graduates from the list of LDCs three (or longer) years from now?” In many cases, because aid-policy frameworks or multilateral or regional trade agreements that are currently in place are often to be expired or amended within 3 years, donors are unable to provide concrete answers to the inquiries by the CDP Secretariat.” (See more details on CDP website).

In short, while the vulnerability profiles underlined that graduating countries were and remained vulnerable, what was independent of their graduation, the ex ante impact assessments did not reach clear conclusion about a possible negative impact of the graduation of the same countries.

CDP monitoring alongside smooth transition

Since some LDCs fulfilling graduation conditions are confronted to vulnerabilities that may hamper their development, it was necessary to check that the graduation, if it is not well prepared, .due to the loss of the benefits linked to the status, is not disrupting their development progress. To avoid this situation the GA adopted the resolution 59/209 in December 2004 (the “smooth transition strategy”) aiming at making graduation successful and effective. The resolution provided the process to be followed by a country from the fulfilment of the graduation conditions to the total exit. It was recalled and reinforced by the resolution 67/221 in December 2012. The need for a new resolution had risen both from the fear and resistance of the countries recommended or found eligible for graduation during the previous years and from the perspective of an acceleration of the number of graduations, a goal of the IPoA. The smooth transition particularly stressed the need of monitoring mechanism of graduation and graduated countries from the list. The three years following the decision of the GA to graduate an LDC, the country remains member of the group and benefit from the advantages of the status. A transition strategy should be prepared during these three years with development partners. These resolutions also highlighted the need to monitor the development progress of graduated LDCs. These monitorings and assessments are mainly based on the level and evolution of the three graduation criteria.

At the request of the ECOSOC resolutions 2008/12, 2011/20 and 2013/20 the CDP has been monitoring since 2009 the development progress of *graduating* countries and has included the findings in its annual report. During the last four triennial reviews (2009,2012, 2015, 2018), the CDP presented the monitoring reports of five graduating LDCs: Maldives, Samoa, Equatorial Guinea, Vanuatu and Angola.

- The situation of Maldives as graduating LDC was presented in the 2009 review. The country evidenced a good performance regarding the GNI per capita and the HAI score relatively to other LDCs and developing countries. However, the EVI score that was relatively high, deteriorated by the impact of the tsunami and its components.
- Samoa was examined in 2009 to 2018 and had been found to have experienced improvement in the three indicators (GNI, EVI and HAI). The country had overcome the consequences of the tsunami even though its vulnerability level captured by the EVI score remained high.
- A monitoring report of Equatorial Guinea was prepared for the 2012, 2015 and 2018 triennial reviews. The situation of the country, which graduation was recommended only based on GNI per capita, had been judged sustainable owing to its oil resources
- Regarding the monitoring of Vanuatu graduation process, progress has been noted in the GNI and HAI criteria on which the graduation recommendation of the country was based.

However, the country was hit by the Cyclone Pam on March 2015, devastating the country and creating doubt in the relevance of maintaining Vanuatu graduation agenda.

- The monitoring report of Angola was prepared for the first time in the 2018 triennial review. It shows that while the per capita GNI remained stable and sustainable despite decreasing oil production and prices, the HAI and EVI have been deteriorating.

Following their graduation the development progress of *graduated* countries has been monitored since 2009 in line with smooth transition resolutions (59/209 and 67/221). The main objective is to assess a possible deterioration in the development progress. The results of this second phase of monitoring are summarized below when we consider what has happened after graduation in graduated countries.

4.2. What has happened after graduation: a rough ex post assessment

Results of CDP ex post monitoring

The situation of three graduated countries has been examined by the CDP in its monitoring exercise: Cape Verde (in 2009 and 2012), Maldives (in 2012, 2015 and 2018), Samoa (in 2015 and 2018) and Equatorial Guinea (in 2018). According to the CDP none of these countries had shown a sign of reversal of its progress, in spite of their remaining and specific vulnerability.

- The reports on Cape Verde, graduated in 2007, argued that the country situation had been largely improved in each of the three graduation criteria and the economic growth had been robust, in spite of its remaining economic vulnerability: it noted that sustained efforts were needed to move towards structural transformation and to upgrade the economy.
- The reports on Maldives, graduated in 2011, noted that the country recorded progress since its graduation in terms of GNI per capita and EVI; however, the HAI had experienced a slight reduction due to a decline in the gross enrolment ratio in secondary schools and the EVI had remained high; the termination of trade preferences had been well managed by the country through market reorientation and had not affected exports of fish.
- As for Samoa, graduated in 2014, the 2015 monitoring reported that the country had registered progress since graduation and had almost completely recovered from the impact of the Cyclone, improving its income level and maintaining its high HAI score, but remaining vulnerable to economic and environmental shocks.
- Regarding Equatorial Guinea which graduated in 2018, the country still faces serious challenges due to low oil production and prices. The GNI per capita remains highly above the graduation threshold but 27% below the last year level. The HAI is improving and the EVI remains below graduation threshold.

Short term macro economic change in graduated countries: Comparison with other LDCs

It is difficult to draw general conclusions about the (ex post) impact of graduation since only four LDCs have been graduated, then observed after their graduation, and on a relatively short period (at least for the four countries considered by the CDP in its ex post monitoring). Moreover each of the

five countries that exited the LDC category (Botswana and these four countries) presents characteristics different from the others, and they have been graduated at different periods, corresponding to different international environments. For this reason the difference between “before” and “after” (the graduation) should be itself compared to the difference over the same period in the non graduated LDCs. The comparison covers a relatively short period, due the recent dates of graduation⁴². Five years of observation have been retained both for the period before and the period after the graduation. This double difference approach is applied to the following variables: the rate of growth of GDP, the trade to GDP ratio, the ODA to GDP ratio, the same ratio extended to all official capital flows, and the debt to GDP ratio. Results are given below in the Table 7. They should be considered cautiously. The average evolution of the ratios in other LDCs may not give a fair counterfactual of the exogenous and often specific factors likely to affect the performance of countries after their graduation.

⁴² Although a longer period of observation is available for Botswana, the same length has been applied to it for the sake of comparison and because the longer the period observed after the graduation the stronger the possible weight of exogenous factors, independent of the graduation (HIV for instance in Botswana). For Samoa only two years have been taken into account after graduation.

Table 7: Relevant variables before and after graduation: 4 graduated countries compared with remaining LDCs

Country		Botswana	Cape Verde	Maldives	Samoa
Graduation year		1994	2007	2011	2014
Annual average per capita GDP growth rate	five years before graduation (1)	3.41	7.70	5.93	-1.54
	five years after graduation (2)	2.72	1.57	2.69	0.67
	Difference for the graduated (3)=(2)-(1)	-0.69	-6.13	-3.24	2.21
	Remaining LDCs before graduation (4)	-0.73	3.26	3.02	2.43
	Remaining LDCs after graduation (5)	3.23	2.60	1.88	1.07
	Difference for remaining LDCs (6)= (5)-(4)	3.96	-0.66	-1.14	-1.36
	Double difference (7)= (3)-(6)	-4.66	-5.48	-2.10	3.57
Average trade to GDP ratio	five years before graduation (1)	52.52	36.46	83.09	29.00
	five years after graduation (2)	52.53	35.32	101.76	27.72
	Difference for the graduated (3)=(2)-(1)	0.01	-1.14	18.68	-1.28
	Remaining LDCs before graduation (4)	21.74	28.70	28.01	28.75
	Remaining LDCs after graduation (5)	26.69	28.51	27.61	26.11
	Difference for remaining LDCs (6)= (5)-(4)	4.95	-0.19	-0.40	-2.64
	Double difference (7)= (3)-(6)	-4.94	-0.95	19.08	1.36
Average ODA to GDP ratio	five years before graduation (1)	3.62	14.74	2.74	14.39
	five years after graduation (2)	2.01	14.21	1.35	11.84
	Difference for the graduated (3)=(2)-(1)	-1.60	-0.53	-1.39	-2.55
	Remaining LDCs before graduation (4)	22.23	14.79	15.31	12.12
	Remaining LDCs after graduation (5)	18.54	14.31	12.99	13.28
	Difference for remaining LDCs (6)= (5)-(4)	-3.70	-0.48	-2.32	1.16
	Double difference (7)= (3)-(6)	2.10	-0.05	0.93	-3.71
Average ODA and Other Official capital inflows to GDP ratio	five years before graduation (1)	3.69	14.81	3.45	14.51
	five years after graduation (2)	1.69	16.03	0.65	11.92
	Difference for the graduated (3)=(2)-(1)	-2.00	1.23	-2.80	-2.59
	The remaining LDCs before graduation (4)	22.35	15.06	15.27	12.26
	The remaining LDCs after graduation (5)	18.59	14.49	13.07	13.33
	Difference for the remaining LDCs (6)= (5)-(4)	-3.77	-0.57	-2.20	1.07
	Double difference (7)= (3)-(6)	1.76	1.79	-0.60	-3.66
Debt to GDP ratio	Five years before graduation	17.83	54.23	37.55	
	Three years before graduation	15.54	49.12	54.38	52.59
	Just before graduation	15.96	38.35	39.45	56.2
	Three years after graduation	12.92	53.62	32.22	57.48
	Five years after graduation	11.11	71.06	27.45	
	For 2015	14.92	94.82	27.45	57.48

Source: authors calculation from various sources (OECD, United Nations)

Comparing the five year averages before and after graduation, the growth of GDP per capita has increased after graduation for Samoa while it has decreased for Botswana, Cape Verde and Maldives (for Samoa two year-period are used since it just graduated in early 2014). The decline in GDP growth rates of Cape Verde, but not that of Maldives, might be due to the coincidence of the graduation

with global economic crisis in 2007,. When the difference is compared to the same difference during the same period in remaining LDCs, only Samoa appears to have succeeded to keep its advance after graduation, the three other countries showing a deterioration in their relative growth after graduation. At the same time the double difference method applied in a so short period evidences its limitation: growth rates are to be considered on long term period (what is not possible in these cases), even on long term growth the convergence process involves slowing down rates of growth, and finally, as noted above, there may be specific exogenous factors acting in the case of these few countries.

The export of goods and services as a percentage of GDP, slightly decreased after graduation in Cape Verde and Samoa, and remained constant in Botswana, while in Maldives it largely increased from 83% before to 102% after graduation. The fact that all the four countries had quite higher export ratio than the average of the remaining LDCs should be kept in mind to interpret the results of the double difference, negative for Botswana and Cape Verde, positive for Maldives and Samoa.

Let us now consider the ODA as percentage of GDP (as already done in chapter 3). It slightly decreased in all the four countries after graduation. But it also decreased in other LDCs in the same periods (except during the Samoa short period), so that the double difference gives positive results for Botswana and Maldives, nil for Cape Verde (but negative for Samoa) Here again this method, applied on a short periods and without taking into account other exogenous factors, with not really conclusive. And on a longer term, a relative decline, if not too sharp, in the ODA to GDP ratio of countries where the relative income per capita has increased is not a shortfall of graduation, And it may be compensated by new sources of external finance. However when other official capital inflows are added, the ratio comparison remains similar, except in Cape Verde where the ratio of official capital inflows slightly increased after graduation.

The evolution of the debt to GDP ratio is consistent with these last findings. It shows decreasing trends in Botswana and Maldives and increasing trends in Cape Verde and Samoa⁴³. The Cape Verde debt evolution is the most worrying. Its debt ratio, after decreasing from 54% five years before graduation to 38% just before graduation, began after graduation to increase again, (reaching more than 70% five year after and about 95% in 2015 evidencing the use of non-concessional capital inflows.

Graduated countries in longer perspective: have they achieved "structural transformation"?

For former LDCs, by definition, the most relevant structural transformation is the alleviation of the structural handicaps that hamper their economic growth, so that growth becomes sustained, and more broadly that development becomes sustainable. In that context the first indicators of structural transformation are given by the criteria of identification of LDCs. (see chapter 1). In this context, as

⁴³ In Botswana, the debt level went from 17,8% of GDP five years before its graduation to 16% just before graduation and 11,1% five years after the graduation. But it went up last year and reach 14,9% in 2015, still a very moderate ratio. The government of Botswana willingness to reduce the debt level and rely on diamonds resources and the existence of the "Pula fund" are the main explanations. In Maldives, the debt level increased from 38% of GDP five years before graduation to 54 three years before graduation and kept decreasing since then reaching 39% just before graduation, 32% three years after and 27% five years after leaving the category. The Samoa post-graduation situation is to be analyzed with caution since it just leaves the LDC group in 2014 and we do not have enough time periods for assessment.

shown in Table 8, the results obtained by the last three graduated countries evidence a continuous progress, not only for the income per capita level, but also through their EVI and HAI position with respect to the graduation threshold. A comparison with Botswana here is not relevant since the evolution of this country can be observed on a quite longer period, featured by a rapid economic growth in spite of a high vulnerability to HIV not linked to graduation.

To assess the evolution of graduated LDCs with regard to the LDC criteria, Table 8 shows the GDP (or GNI) per capita and the gap with graduation threshold of EVI and HAI in the triennial reviews following the graduation recommendation by CDP. It clearly appears that after the decision, all the four countries kept improving the income level and the human capital relatively to graduation threshold, criteria that allowed their graduation. However, they remain vulnerable since none of them reached the graduation threshold many years after graduating from the category.

However the change in the levels of the three criteria-indicators may give a too narrow vision of the structural transformation expected before and after the graduation, as it is underlined in the IPoA. Let us then consider their graduation in a broader perspective.

Table 8: LDC criteria before and after graduation in the last three graduated countries

		Cape Verde	Year	Maldives	Year	Samoa	Year
GNI per capita	When recommended for graduation	1323	2003	1983	2003	1596	2006
	first review after graduation	1486	2006	2320	2006	2240	2009
	Second review after graduation	2180	2009	2940	2009	2880	2012
		3010	2012	5473	2012	3319	2015
		3595	2015	6645	2015		
EVI absolute gap with graduation threshold	When recommended for graduation	22.54	2003	0.57	2003	26.65	2006
	first review after graduation	19.92	2006	12.51	2006	26.28	2009
	Second review after graduation	10.05	2009	20.18	2009	19.05	2012
		3.17	2012	23.17	2012	11.9	2015
		4.2	2015	17.5	2015		
HAI absolute gap with graduation threshold	When recommended for graduation	11.02	2003	4.24	2003	26.41	2006
	first review after graduation	18.11	2006	17.94	2006	26.22	2009
	Second review after graduation	15.85	2009	21.53	2009	26.78	2012
		20.78	2012	25.73	2012	28.4	2015
		22.6	2015	25.3	2015		

Source: drawn from various CDP reports

Regarding the origins of their graduation, *Botswana* graduation was one step in a long term development strategy implemented with a prudent economic policy. Since the independence of the country in 1966, policy makers adopted and implemented the National Development Plan (NDP) later reinforced by in 1996 by the “Vision 2016 - Prosperity for All”. These plans provide the development strategies and programme to be implemented in the short, middle and long term guided by the principles of democracy, development, dignity, and discipline (IST-Africa, 2011). The leadership of national policy makers allowed the improvement of trade competitiveness, a good management and development of the mining sector, performance in monetary management, fiscal sector, and unemployment reduction. The Dutch disease was avoided in Botswana thanks to good

exchange rate policies sustaining the trading sectors⁴⁴. The country invested the resources generated by mineral sector and other economic activities in growth promotion, human development, infrastructure building. In spite of the huge HIV shock, this country seems to be now far away from the LDCs features.

Cape Verde graduated from the category in 2007 taking advantage of external resources and tourism. The graduation of Cape Verde was facilitated by capital inflows from various sources. These resources help the country to address some of its impediments: institutions and infrastructures. The long term national development strategies promoting economic transformation and poverty reduction since 1990 focused on adequate environment to maximize the impacts of ODA and remittances through state modernization in public financial and macroeconomic management among others. These policies coupled with infrastructural development financed essentially by ODA not only increased economic growth and employment, but also encouraged remittances and foreign capital inflows, causing a debt issue. Moreover, the long term development vision operationalized through Growth and Poverty Reduction Strategies (GPRS) puts the services sector at the core of the development strategies. The competitiveness of the country's tourist sector due to its integration into global economy with the accession to WTO in 1999 led services sector to be the driver of economic growth and development (70 per cent of GDP in 2007). The geographical location at the crossroad of different continents and the large coastline provide to Cape Verde a natural advantage for fisheries and tourism. This country seems to have moved out of the low income trap.

The graduation of *Maldives* has been possible thanks to the development of its world-class tourism sector and a robust fisheries industry. Indeed, since the 1980's the country has largely invested in effective tourism infrastructures raising the contribution of tourism to more than two third of the GDP in 2013. The government also encourage foreign private sector through incentives and strategies. Regarding the fishing sector, the country implemented since the 1990 policies leading to the modernization of this traditional leader of its economy. The effect of tourism and fishing on the economy was reinforced by prudent macroeconomic policy, and effective investment in social sectors. With respect to current indicators, Maldives seems to have overcome the traditional impediments to growth, reaching a level of income per capita three times the low income threshold. But as underlined the graduation process and here again, it is still a country highly vulnerable to climate change.

Diversification of agricultural sector and tourism promotion are the main policies that partly allowed the graduation of *Samoa*. Samoa's economy is mainly based on agricultural production (cacao, coconut, banana, fish and crayfish, among others) and processing as well as tourism and remittances. To boost agricultural production, which is the sector employing the majority of Samoans, the government implemented agricultural diversification strategies by encouraging the combination of production for local consumption and commercial investment in high-value crops, and encouraging their processing. By promoting the Samoan culture and traditions, by constructing infrastructures and by encouraging foreign and domestic investments, the government of Samoa

⁴⁴ As part of the diamonds revenue utilization Botswana has established a pooled fund called "the Pula fund" a type of sovereign fund that keep the country floating during difficult times and help avoid foreign debt and protect the next generation from indebtedness by sharing diamonds revenue with future generations

succeeded to develop the tourism sector and to place it as an important factor of the success of its graduation. But, as Maldives, it is still vulnerable to climate change.

Is the next step of the development of these countries after graduation is to reach “industrial economy” status? These countries have some common features regarding their development opportunities, dominated by their small size. All of them successfully invested in human capital and infrastructures with encouraging effects on the services sector.

Indeed, graduated countries evidence many differences. Even though tourism is a common important resource for development of each of them, it is not to the same extent. It is the main source of resource in Cape Verde and Maldives, but is largely dominated by mining in Botswana and by agriculture in Samoa. But the contribution of the manufacturing sector to the GDP remains low in these graduated countries and the diversification of the narrow economic base is a main challenge. The heavy concentration on tourism of Cape Verde, Maldives and even Samoa (along with agriculture in this country) exposes them to external shocks. These threecountries are thus highly dependent on the economic prospects in developed countries, climatic shocks, as Botswana is dependent on the fluctuation of commodity prices, especially diamonds, and the emergence of artificial diamonds.

Then the structural transformation in these countries will rely on (or be reinforced by) their capacity to adopt and implement appropriate policies to face exogenous shocks, external or natural, in particular countracyclical policies, supported by international community.

The international support to smooth transition

There are several ways by which the international community can facilitate the transition out of the LDC category.

First for the matters where a preference is given to LDCs in practice without any rule, the preferential practice may be continued. It is roughly what has been observed above for ODA, a support all the more easy that the graduated country is of small size, as the graduated countries have been.

Second some support measures of binary nature, explicitly limited to LDCs, may be officially maintained some time after the graduation. Main present examples are: the 3 year postponement of the end of EBA offered by EU after graduation; a similar kind of postponement of the access to the UN CDF, GEF LDCF and to EIF. This way to maintain some benefits of the LDCstatus may be general (valid for all graduated LDCs, as in the examples given just above) or taken on a case by case basis (as it is for the preference given to LDC on a purely practical basis, ie without rules). Anyway postponement can only be transitory, without what graduation would loose its meaning.

Moreover for all non-binary support measures, those which can be applied on a continuous basis, such as the allocation of ODA, the use of the criteria of identification of the LDCs (income per capita, HAI and EVI) is a consistent way to make the transition smoother (as we suggested in Guillaumont, 2009, 2013). In particular it allows to take into account the remaining vulnerability of most of the graduated or graduating countries. This was explicitly recommended by the UN General Assembly in its Resolution A/RES/67/221 adopted in December 2012. And significantly it has been

implemented by the EU which retained these three criteria among the four used in the allocation model used for present EDF and DCI.

If this principle is extended for taking into account the vulnerability to climate change in the allocation of aid and concessional resources for adaptation, it will be a major contribution to the graduation of small islands and other vulnerable LDCs. The countries vulnerable to climate change, either graduated LDCs or not, require an appropriate kind of support.

5. Conclusion

The category of the LDCs had been created to help these countries to develop more quickly, so that they will be once able to leave the category. Actually the graduation of the LDCs has been successively forgotten, feared, and desired. During the first 20 years of the category, from 1971 to 1991, no rule had been set up for that purpose. During the following 20 years, the graduation has been mainly considered by the countries concerned as a risk the occurrence of which was to be postponed. In 2011 when the 4th UN conference on LDCs met in Istanbul, the graduation became a goal for 2020, ambitious, although unreachable as it was designed in the IPoA.

The graduation of the LDCs has indeed been slow and recent. This had been the result of two main factors, besides the resistance of the countries concerned. One has been the long-lasting growth lag of LDCs, as evidenced in chapter I, reversed to some extent since the mid-1990s. The other and more important one has been the strong asymmetry between the inclusion and graduation criteria. To avoid any risk of reversibility, precautionary conditions had been set up before an LDC be recommended for graduation by the CDP (criteria to be met not only at one, but at two successive triennial reviews, margins set up between the inclusion and graduation thresholds of the criteria indicators, and, a major asymmetry, two criteria to cease to be met, while three complementary criteria were to be met for inclusion). Moreover an additional three year period was set up after the graduation has been decided before it becomes effective. As a result, in 2018, 31 out of the 47 LDCs were no longer meeting the inclusion criteria without being graduated (i.e. only 16 out of the 47 LDCs still met the inclusion criteria). Moreover, while the goal of the IPoA was that half of the 48 LDCs will be able to meet the graduation criteria in 2020, they will be around one fifth: They will include 2 countries which are already graduated (Samoa, Equatorial Guinea), 2 countries the graduation of which has already been decided (Vanuatu for 2020, and Angola for 2021), possibly 5 countries already recommended for graduation by the CDP and waiting for the ECOSOC endorsement and the General Assembly decision (Tuvalu, Kiribati, Bhutan, Sao Tome and Principe and Solomon Islands). To be noted, most of the countries graduated, recommended for graduation, or likely to be so, from 2007 to 2020, are SIDS (9 out of 14), all still vulnerable countries..

This asymmetry between inclusion and graduation criteria has weakened the consistency of the category and calls for an adaptation of the criteria both for graduation and inclusion. Several proposals have been presented in the chapter, the simplest relying on an identification of the LDCs from two instead of three criteria, with the EVI and HAI criteria merged in a structural handicaps index (SHI). This index could be designed so that it would still reflect the interaction between the two kinds

of structural handicaps. Anyway it would allow each of them to be taken into account. A structural handicaps index could be used both for inclusion and graduation or only for graduation.

The various studies conducted before or after the graduation and reviewed in this chapter do not show a significant negative impact of graduation on the few graduated countries. They do not show them being at risk to fall back in the category. They neither evidence a slowing down of the pace of development having led them to graduation, in spite of a significant remaining vulnerability.

Should this appear as a paradox? All the previous chapters of this book tried to show the positive impact that the LDC membership has or could have on the development of the member countries through the broad set of special measures. It does not follow that the exit from the category would have a symmetrical negative impact. Indeed the argument is not reversible. The impact of the special support measures is probably all the higher that the country is “least” developed, in other words far from graduation, then most in need of these measures. Moreover the smooth transition strategy has led to dampen the change of status, by various means, including postponement of the end of some special measures or access to new sources of finance. The international context, that have facilitated the exit from the category, has probably also made easier the transition. It can of course change in the future under the effect various exogenous shocks, in particular in the price of commodities. Beyond this risk, the graduation, by, involving a mitigation of the structural handicaps featuring the LDC category (in the case of the few graduated countries, diminishing poverty and human capital improvement), also involves some structural transformation of the economy likely to make its development sustainable.

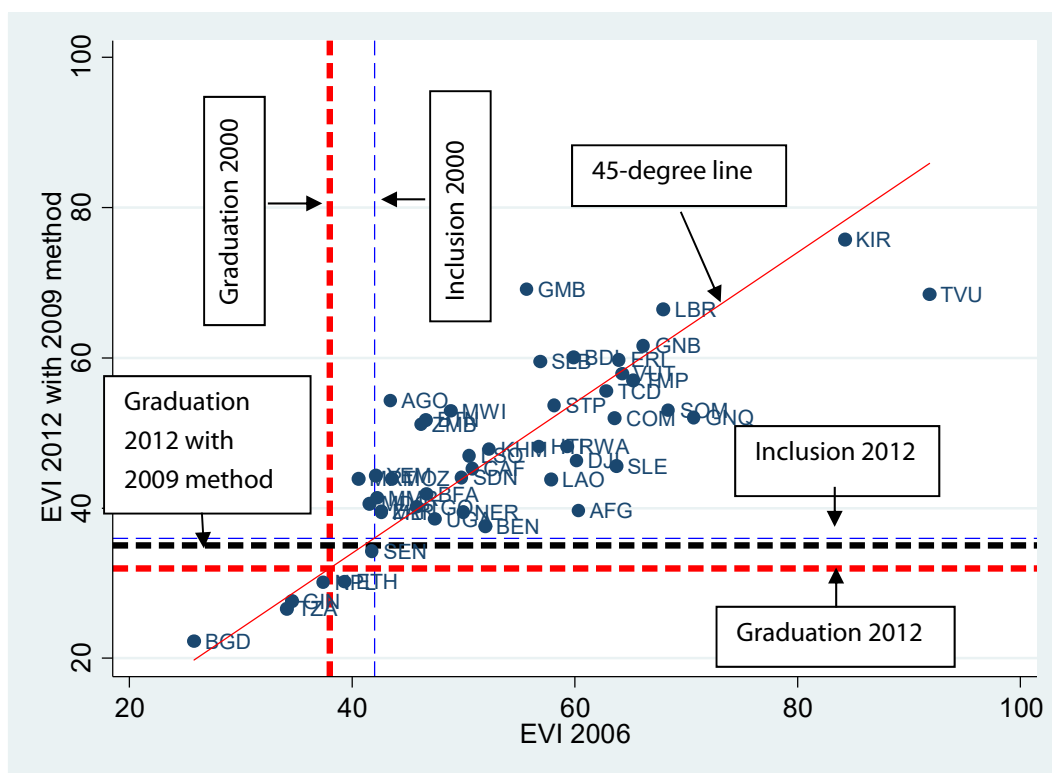
The rather limited number of graduations in the period covered by the IPoA should still be an incentive to implement and reinforce the support measures progressively adopted and agreed upon in Istanbul. These measures are not only for the possibly graduating countries, but for all LDCs. The major present issue is not the impact of being graduated from the list of the LDCs, it still is the impact of being included into the list.

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Annex 1: Positions of LDCs with regard to EVI 2012 and EVI 2006 both calculated according to 2006 method



Annex 2: Some country evolutions with regard to the set of criteria

It is possible to present for each country on a graph its position with respect to the graduation and inclusion thresholds over the last seven triennial reviews.⁴⁵ For each country, and each criterion indicator, we transform its value into the relative deviation with respect to the inclusion threshold as follows:

$$RelativeX_{it} = \frac{100 * (absoluteX_{it} - inclusion_t)}{inclusion_t}$$

Where $RelativeX_{it}$ and $absoluteX_{it}$ are respectively the relative and absolute value of variable X (EVI, HAI or per capita GNI country level value, inclusion and graduation thresholds) of LDC i at time t (2000, 2003, 2006, 2009, 2012, 2015 or 2018). Here "inclusion" represents the inclusion threshold of the indicator considered. Since an increase in the index is an improvement for HAI and the reverse for EVI⁴⁶, the difference $(100 - EVI)$ is instead used with regard to this criterion to make easier the interpretation. Thus, all inclusion thresholds are represented on a horizontal line at zero on the

⁴⁵ This exercise is close to, graphs set up at UNCTAD and recently updated (2013, forthcoming), but slightly different from them since here all the indicator values are presented on the same graph, normalized with respect to the inclusion thresholds...and expressed in the same direction.

⁴⁶ See footnote 1 above for the definition of HAI and EVI

vertical scale: a country does not fulfill the inclusion criterion if its relative value is below this line. All the graduation thresholds before 2003 are represented by a horizontal line scaled at 15 (since before 2003 the margin between the inclusion and graduation thresholds was 15% for all three criteria), while from 2003 the horizontal line representing the graduation thresholds of EVI and HAI is 10, and that of per capita GNI is 20 (according to the respective margins of 10% and 20% applied from this time). The country meets the graduation criterion if its relative value is above the horizontal line representing the graduation threshold. Similarly, the horizontal line scaled at 140 is the graduation threshold applied with the income-only rule (according to which, countries reaching 2.4 times the per capita GNI inclusion threshold may be considered as eligible for graduation). All the per capita GNI above 140 are brought back to 140 to make the graph readable, meaning that above 140, the graph does not indicate actual scores.

The evolution of EVI is indeed affected by the changes in the index definition: an example is given by the Bangladesh where for 2012 we can observe seemingly an increase of vulnerability on its graph as well as a decrease of the positive deviation of EVI from the graduation threshold clearly due to the change in the EVI definition (see Box 3).

The detailed country results obtained from this exercise, here illustrated by only three graphs⁴⁷, each of which representing a pattern of trends towards graduation. Graphs are given here for:

- Bhutan on graph 2.1 Annex 2: positive trend with regard to GNI per capita and HAI criteria (similar trends found for Cambodia, Kiribati, Lesotho, Solomon Islands, Tuvalu, Vanuatu and Yemen)
- Benin on graph 2.2 Annex 2: positive trend with regard to GNI per capita and EVI-
- Bangladesh on graph 2.3 Annex 2: positive trend with regard to EVI and HAI criteria (similar trends found for Nepal)

A positive trend with respect to the three criteria is also found for Lao PDR, Sao Tome and Principe and Senegal.

To be underlined, the shape and interpretation of these trends have been modified in 2015 with the new design of the threshold values for EVI and HAI, since this design is intended to make the thresholds no longer relative, but absolute. From 2012 to 2018 the evolution no longer represents a change in the distance to a quartile value (depending from the distribution of the indicator values within a reference group of countries), but in the distance to the value of the quartile in 2012 maintained constant.

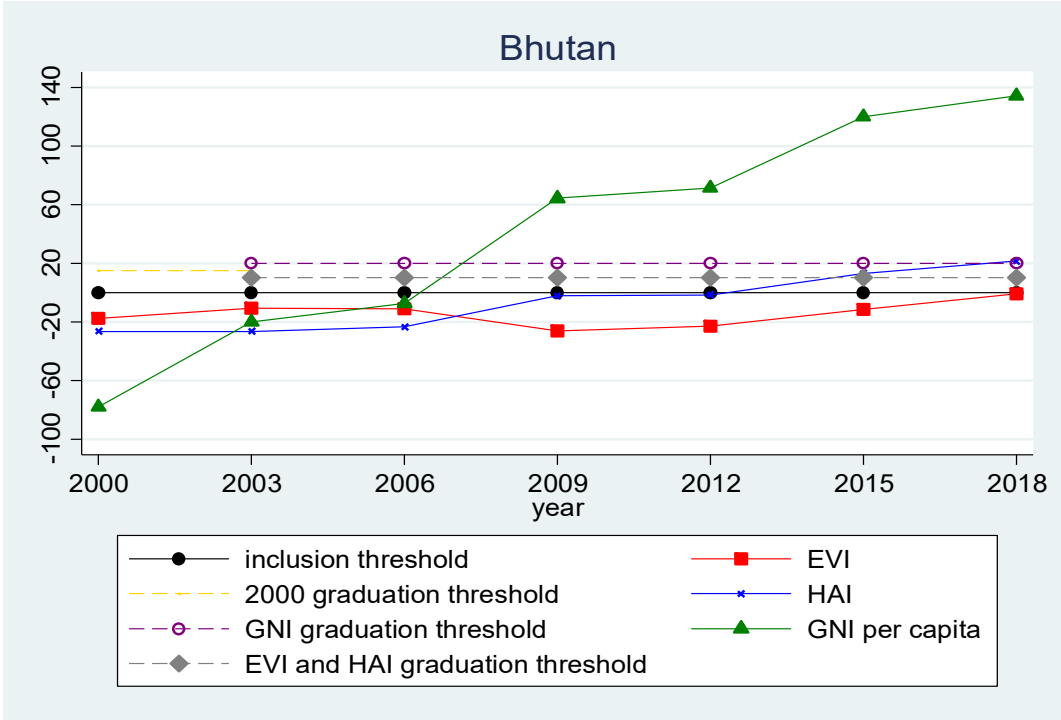
Indeed the impact of these trends for the likelihood to graduate depends on the level already reached. A positive trend gives a relevant indication of this likelihood if the country is already close to the graduation threshold for the criterion considered. It then leads us to come back to the results of the beginning of this section. Few LDCs are both close to two graduation thresholds and evidencing positive trends towards them, in spite of the upward move of 2015 due to the change in the design of the thresholds. There are still many LDCs which, even if they are close to one graduation

⁴⁷other ones are available upon request

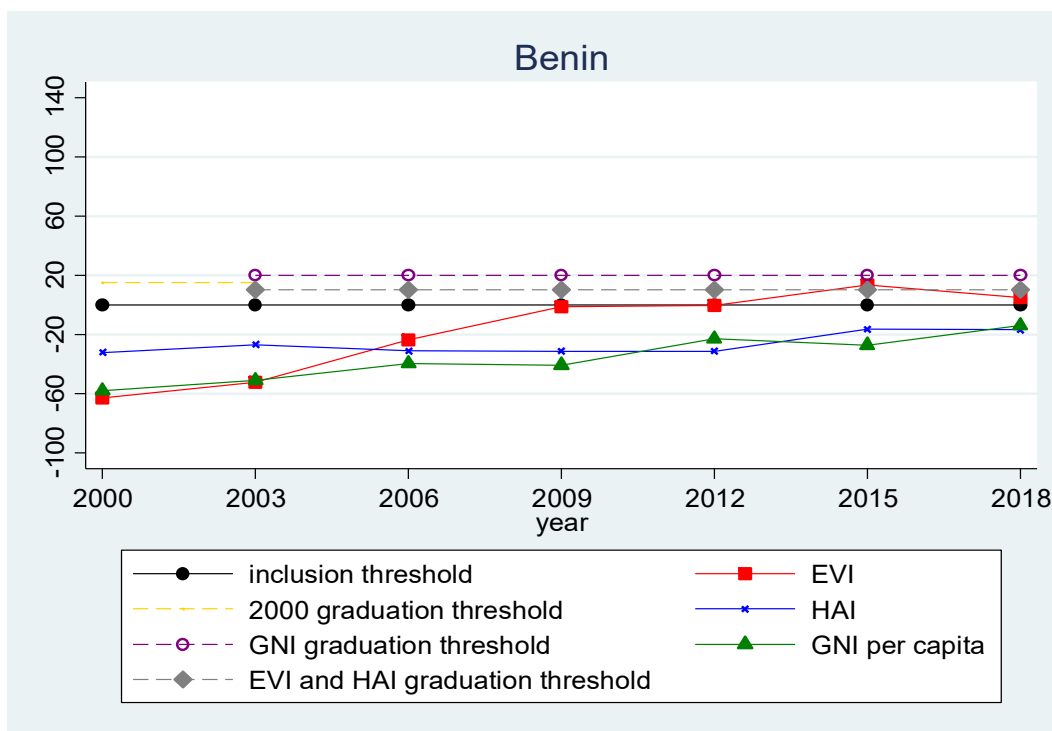
threshold, remain far from the two other ones (in particular countries rather close to the EVI one and far from the HAI and the income ones).

Because GNIpc and HAI are more closely correlated than GNIpc and EVI, the association between the income and HAI criteria has led the major number of eligibilities to graduation. Double graduation criteria have mainly been met by countries benefitting of a relatively high level of human capital, which in turn has supported their economic growth, exceptions being provided by three oil exporters LDCs.

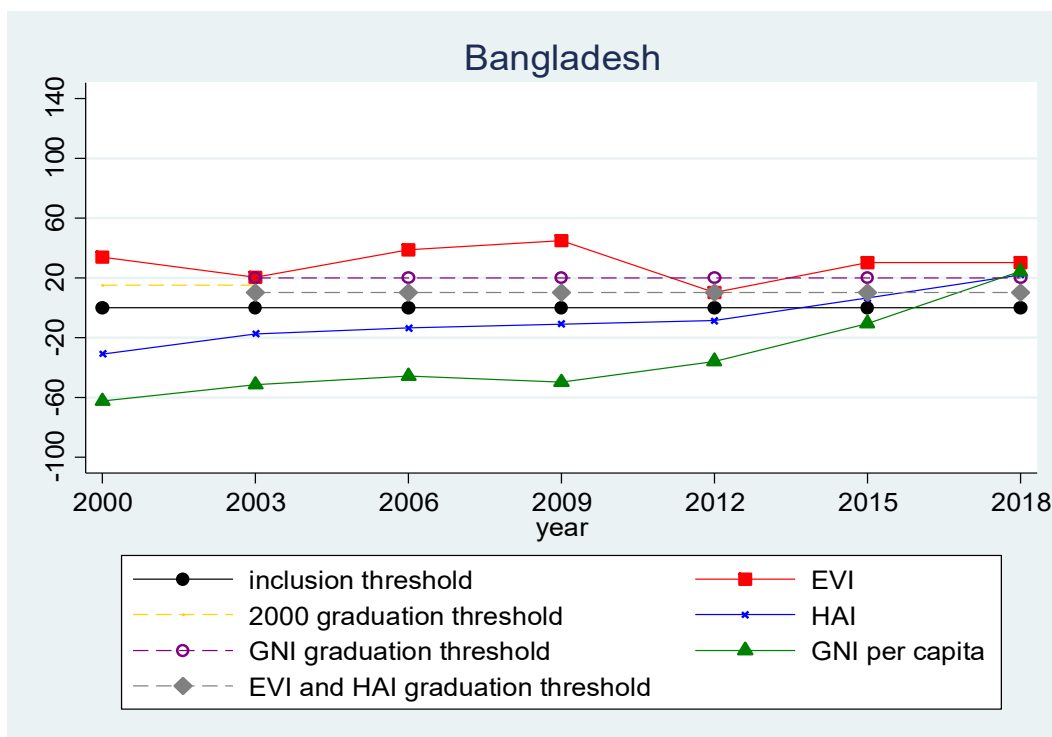
Graph 2.1: Relative evolution of Bhutan’s position with respect to the graduation and inclusion thresholds over the six last triennial reviews



Graph 2.2: Relative evolution of Benin's position with respect to the graduation and inclusion thresholds over the six last triennial reviews



Graph 2.3: Relative evolution of Bangladesh's position with respect to the graduation and inclusion thresholds over the six last triennial reviews



Annex 3: The issue raised by the reference group and how it could have been addressed

Before 2015 the LDCs likelihood of meeting a relative graduation criterion depended on the size of the reference group and on the location of the threshold set up to identify LDCs. The reference group had traditionally included all LDCs and other LICs and the threshold for inclusion had traditionally been put at the (better) quartile of the reference group. The higher the number of (low income) countries of the reference group which were not LDCs (but had relatively good EVI or HAI indices), the lower was the probability for an LDC to be in the better quartile.

More and more former non-LDC LICs have become MICs since 2000⁴⁸. As a consequence, the reference group had been shrinking over time (from a maximum of 67 in 2000 to a minimum of 60 in 2009 and 2012)⁴⁹, making the attainment of the graduation threshold easier. If there were no longer LICs non LDCs, the reference group would have become the group of LDCs itself. Then, with around one quarter not reaching the inclusion threshold, a proportion a little smaller (due to the margin between inclusion and graduation thresholds), but still significant would have necessarily reached the graduation threshold whatever the evolution of HAI and EVI for the whole set of countries. With graduation occurring, it would correspond to a renewed set of LDCs, resulting in an endogenous process of graduation, whatever the rate of improvement in the indicators on which HAI and EVI rely⁵⁰.

Indeed it was not logical that, with the reduction of the number of non-LDC LICs, the reference group was reduced to the only group of LDCs, designed as the poor countries suffering the most from structural handicaps. The purpose of the category from its beginning was a differentiation between LDCs and other developing countries. For this reason, at the 2012 review, where there were only three non LDC-LICs (Zimbabwe, DPR Korea, Kenya), the CDP extended the design of the group. The reference group has then included all the LDCs and “all other developing countries whose per capita income in any of the three years used to determine average incomes (i.e. 2008-2010) was less than 20 per cent above the low-income threshold determined by the World Bank” (CDP, 2012). This extension led to the inclusion of nine additional countries, without which the reference group (according to its previous definition) would have fallen to 51 (instead of 60 in 2009), and made the probability to attain the relative graduation criteria higher, as explained above⁵¹.

Retaining in 2015 and in 2018 the same principle as in 2012 for the extension of the reference group would have not avoided the reference group to shrink on⁵². The reference group could have been and still could

⁴⁸ And more LDCs have become MICs as well

⁴⁹ After been expanding from the 1991 first triennial review, where the number was only 58, to the year 2000. It was 65 for the 2003 and 2006 reviews (cf Guillaumont, 2009a, p 54), 60 in 2009..

⁵⁰ More precisely for the countries in the better quartile of the distribution

⁵¹ The quartile rule applied to a reference group of 51 countries, would have led Bangladesh to meet the EVI graduation criterion and Solomon Islands to meet the HAI graduation criterion, but not to make them eligible since not meeting another graduation criterion. In 2015, still with the definition of the reference group prevailing until 2009, the reference group would have become even smaller (50) due to the graduation of Samoa..

⁵² since in 2015 six of the nine countries added in 2012 would have crossed the line located 20 per cent above the low-income threshold (India, Vietnam, Ghana, Nicaragua, PNG, Nigeria), reducing the group to no more than 54 countries

be revised by several simple ways, consistent with previous practice and rationale of relative criteria of handicaps. The most pragmatic way would be to include in the reference group all LDCs and the number of other developing countries, ranked by increasing order of income per capita, which are needed to reach 60 or 64, the approximate number of the reviews until 2012. Another and more logical way would be to consider all LDCs plus other countries with a GNlpc lower than the income only criterion of graduation (2.4 times the low income threshold used as inclusion criterion, what would have given 65 countries in 2015 and 63 in 2018). Whatever the choice, with the quartile rule applied to a reference group of 64 to 65, the three countries Bhutan, Nepal, Solomon Islands would not have met the HAI graduation threshold in 2015 and 2018 and would not have been eligible.

Annex 4: The resistance to graduation from the LDC category over a quarter of century: Its dampening during the last decade

The application of graduation rules have been influenced by the resistance of some LDCs fearing the loss of the benefits linked to to the LDC status. Early after the adoption of graduation rules, the CDP did not recommend the graduation of some countries fulfilling the criteria because of this fear and a lack of clear assessment of the situation. This was the case for Samoa in 1991, Cape Verde in 1994 and Myanmar in 1997 for an “artificial” GDP expansion (due to increasing aid flows and real exchange rate appreciation), and Cape Verde in 2000 because of the high vulnerability. Maldives was indeed recommended for graduation in 2000 by the CDP, but the ECOSOC requested the CDP to re-examine its recommendation to graduate Maldives at the 2003 review: Maldives had sent letters of the to the President of the ECOSOC in 1999, 2000, and 2001, explaining that the level of human development has been overestimated and the vulnerability underestimated. Vanuatu was recommended by the CDP for graduation in 1997, recommendation endorsed by the ECOSOC, but not accepted by the GA because of the high vulnerability of this country, which had expressed its opposition to the graduation through a letter to the president of the ECOSOC (requesting him to defer the review by the Committee of the status of Vanuatu as a least developed country until the year 2000).

The history of graduations presented at the beginning of this document reflects the resistance to graduation of the majority of countries concerned. Significant lags and postponements have been observed in the case of Samoa, The Maldives, Equatorial Guinea, Vanuatu, between the finding that country was meeting the criteria and the final decision. And the cases of Tuvalu and Kiribati, each by its own way, still evidence resistance to graduation in spite of the new context of the IPoA. The vulnerability profile and the ex-ante assessment were supposed to provide evidences guiding the choice at the different steps of the graduation decision.(CDP, ECOSOC and GA), and possibly reduce the complains of graduating LDCs..

The adoption and implementation of smooth transition resolutions in 2004 and 2012, bringing monitoring after endorsement of the graduation decision seems to have provided more confidence to LDCs regarding their exit from the category.). It also amplified the focus of the development community on the acceleration of graduation.

From 1991 to the middle of the 2000 decade, only one country graduated from the category according to the rule prevailing at the time, namely Botswana in December 1994. From the adoption the smooth transition resolutions, graduation accelerated: three countries exited the category: Cape Verde in 2007, Maldives in 2011, Samoa in 2014, and Equatorial Guinea⁵³ in 2017. The graduation has been decided for other two LDCs: Vanuatu and Angola.

At the 2012 triennial review Tuvalu and Vanuatu were found eligible for the third consecutive time and only then recommended for graduation from the list by the CDP. The ECOSOC has postponed three times the consideration of the recommendation for Tuvalu, in 2012, 2013 and 2015; at the 2015 review in 2015, the CDP reiterated that Tuvalu was eligible to graduation, but has no longer recommended it. As for the 2012 recommendation to graduate Vanuatu, it was endorsed by ECOSOC, but took some time to be taken into consideration by the General Assembly. Vanuatu requested a postponement on the basis of climatic circumstances, as was previously obtained by Maldives and Samoa, on the basis of a tsunami. A shorter postponement by one year called "additional preparatory period on an exceptional basis" was in December 2013 retained by the General Assembly, at the same time as for Equatorial Guinea to which an "additional preparatory period of six months has also been given "on an exceptional basis", without any explicit reason. It then made Vanuatu graduation expected at the end of 2017 (and that of Equatorial Guinea at the mid of 2017). But giving consideration to the huge damage for Vanuatu resulting from the Cyclone Pam in March 2015, the General Assembly adopted in December 2015 a new Resolution extending "the preparatory period preceding the graduation" of this country by an additional period of three years, until 4 December 2020 (A/RES/70/78).

At the 2012 review, Angola and Kiribati were also found to meet the eligibility criteria for graduation for the first time, and for a second time at the 2015 review. But only Angola has been recommended for graduation (CDP , 2012, 2015), and the GA decided its graduation to be effective in 2021. Kiribati has finally be recommended by the CDP for graduation for in 2018...with the wish of the creation of a category of countries facing extreme vulnerability to climate change.

Finally the ex ante assessments and monitoring exercises, by bringing information and flexibility in the process of graduation on a regular basis, may have both contributed to dampen the resistance to graduate of the countries concerned...and to regulate the pace of actual graduation.

⁵³ The graduation of Equatorial Guinea, recommended by the CDP in March 2009 and agreed by the Economic and Social Council in July 2009 (Resolution 2009/35), has been waiting the decision by the General Assembly for an unusually long time, being repeatedly considered as imminent: after having been agreed upon at the end of May 2013 (A/67/L.20, compilation text agreed ad ref, based on A/67/L.31), the adoption of that resolution has itself be postponed to September 2013 at the request of concerned country, then the resolution has been adopted on 4th December 2013 (A/RES/68/18).

Annex 5: Ranking of LDCs, graduated LDCs and reference group according to the Least Development Index (Quadratic average of 100-HAI, 100-normalised GNI and EVI)

country	LDI rank	country	LDI rank
Somalia	1	Lesotho	34
Central African Republic	2	Timor-Leste	35
Gambia	3	Zambia	36
Sierra Leone	4	Côte D'Ivoire*	37
Chad	5	Solomon Islands	38
Burundi	6	Nepal	39
Liberia	7	Cambodia	40
South Sudan	8	Democratic People's Republic of Korea*	41
Niger	9	Nigeria*	42
Guinea-Bissau	10	Djibouti	43
Malawi	11	Pakistan*	44
Eritrea	12	Myanmar	45
Democratic Republic of the Congo	13	Ghana*	46
Burkina Faso	14	Kenya*	47
Mozambique	15	Angola	48
Guinea	16	Papua New Guinea*	49
Zimbabwe*	17	Cameroon*	50
Afghanistan	18	Sao Tome and Principe	51
Mali	19	Bangladesh	52
Madagascar	20	Vanuatu	53
Ethiopia	21	Lao People's Democratic Republic	54
Comoros	22	Tuvalu	55
Uganda	23	Bhutan	56
Rwanda	24	India*	57
Haiti	25	Nicaragua*	58
Mauritania	26	Viet Nam*	59
Benin	27	Botswana**	60
Sudan	28	Maldives**	61
Kiribati	29	Cabo Verde**	62
Togo	30	Bolivia (Plurinational State of)*	63
Yemen	31	Samoa**	64
Senegal	32	Equatorial Guinea**	65
United Republic of Tanzania	33		

Note: ** Graduated LDC, * Non-LDC

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