

Demographic Dividend and SDGs in AFRICA

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I. Context

- II. Concept of DD monitoring index
- III. Methodology of DD monitoring index
- IV. Gap analysis and investment targeting
- V. Senegal case study



Context

**Populations are growing very quickly in Africa: 2.7% per year. twice faster than the world average. which is about 1.2% (AU. 2016)

**Every year. about 10 to 12 million young people join the labor market (Afrique Expansion. 2016)

**Youth without professional prospects can be considered a lost generation. which is a threat to social stability (ILO. 2014)



**More than 25% of the worldwide population will be adult (UNFPA. 2016)

> **Based on projections for 2045. Africa's population will be the youngest in the world: 400 million young people (UNFPA. 2016)

**60% of unemployed African people are 15-24 years old (UNFPA. 2016) **African youth (15-24 years): 37% of the population has attained working age (UNFPA. 2016)



» » » CONCEPT OF DD MONITORING INDEX (DDMI)



A synthesis tool that facilitates understanting of all information related to DD

A demographic dividend monitoring and evaluation system for different countries

A visual representation with synthesis index



DDMI : JUSTIFICATION



Understanding DD progress in each country



Monitoring the evaluation of key indicators in different countries



Making comparisons at local. national and sub-regional levels



DDMI Concept

Main Linkages between Demographic Dividend Monitoring index and AU Pillars

AU DD Pillars	Pillars Definition	Basic Link	Theoretical Approach	Background	Dimensions
P1	Employment and entrepreneurship	Population structure	Lifecycle theory	NTA methodology	 Economic dependancy coverage
P1		Subjective economy	Welfare	Better life index methodology	2 : Quality of living environment
P1		Normative economy	well-being	Poverty dynamics methodology	3 : Poverty exiting
P2	Education and skills development	Education	Human capital	HDI	4 : Extended human development
P3	Health and wellbeing	Health	theory	methodology	
P4	Rights. governance and youth empowerment	Institutions. governance	Institutional theory. regional economy theory	Clusters methodology	5: Networks and territories





The DDMI

Based on AU DD pillars	Monitoring tool	Set of demographic dividend indicators
Analysis and modeling tool	SDGs' complementary monitoring tool	Opportunity to make public policy proposals
Innovative barometer	Scientific basis for effective and efficient advocacy	DD & SDGs strategic investment targeting



DDMI Strategic Interactions

OBJECTIFS DE DÉVELOPPEMENT DURABLE





The synthetic index for demographic dividend monitoring includes five dimensions

Dimensions	Synthetic Index	Sub Dimensions	SDGs Link		
		Consumption			
	Economic dependancy coverage index (EDCI)	Labor income	SGD1. SGD3.		
Lifecycle deficit		Asset income	SGD4. SGD5. SGD8. SGD9		
		Transfer flows	SGD10		
		Saving			
	Quality of living environment index (QLEI)	Housing			
		Social networks			
Quality of		Environment	SGD3. SGD6.		
living		Civic engagement	SGD11. SGD13		
environment		Life satisfaction	SGD16		
		Safety			
		Work-life balance			



The Synthetic Index for Demographic Dividend Monitoring include 5 dimensions:

Dimensions	Synthetic Index	Sub Dimensions	SDGs Link		
	Poverty exiting	Poverty trap			
Poverty	synthetic index (PESI)	Poverty-stricken	SGD1. SGD2.		
transition		Poverty exiting	SGD3. SGD4. SGD10		
		Poverty free			
Extended	Extended human development index (EHDI)	Education	SGD1. SGD3. SGD4. SGD5. SGD10		
human capital		Health			
		Living standards			
	Synthetic index of networks and territories (SINT)	Urbanization	SGD2. SGD6. SGD10.		
Networks and		Migration			
territories		Financial flows	SGD16.		
		Basics infrastructure	SGD17		



» » METHODOLOGY OF DD MONITORING INDEX (DDMI)



Economic Dependancy Coverage Index

- Objective: Measure the capacity of a country to respond to social demands related to the young- and old-age lifecycle deficits
- Theory: Life Cycle Theory. Modigliani & Brumberg (1954)
- Main Source: (UN-NTA 2013). Lee & Mason (2011) Surplus = Consumption – labour Income
- Normative Method

 $E.D.C.I = \frac{surplus}{deficit(youth defict+seniors deficit)}$



Quality of Living Environment Index

- Objective: Living environment refers to all elements that are part of a person's life and how this environment influences the quality of life
- Theory: Welfare theories of well-being Easterlin (2010).
 Dasgupta (1995). Nussbaum & Sen(1993). Sen (1989.1997.
 2001)
- Main Source: OCDE 2011. 2013
- Normative Method

Weighted average of the standard sub-dimensions index



- Poverty Exiting Synthetic Index
- Objective: Synthesize the level of poverty transition within populations
- Welfare theories of well-being
- Theory: Main Source: Dang & Lanjouw (2013). Dang. Lanjouw.
 Luoto. & McKenzie (2011)
- Normative Method

P == Poor ; NP== Non Poor

$$P.E.S.I = \left(\frac{P \to NP}{NP \to P + P \to NP}; \frac{NP \to NP}{NP \to NP + P \to P}\right)^{1/2};$$



Extend Human Development Indicator

- Objective: Know the level of human development of a country or a region
- **Theory**: Human Capital Theory
- Main Source: Schultz. Becker. Sen. and UNDP(2015)
- Normative Method

• E.H.D.I= $\sqrt[3]{IH * IE * ICons}$

IH== Health index IE== Education Index Icons== Consumption index



- Networks and Territories Synthetic Index
- Objective: Collect information about territorial mobility by describing the attractiveness of zones. human migration. financial flows. goods and services flows as well as the distribution of infrastructures in a territory
- Theories: Cluster Theory. Theory of Social Change. Institutional Theory. Regional Economic Development Theory
- Normative Method

Weighted average of the standard sub dimensions index



DDMI FORMULA

- All indicators used in DDMI framework are first normalized between 0 and 1
- DDMI is a synthetic index which is computed as geometric average of the five previous indices
- The following method is used to calculate DD Monitoring Index (DDMI)

$$D.D.M.I = \sqrt[5]{EDCI * QLEI * PESI * EHDI * NTSI}$$





How to interpret the DDMI SCALE ?

Between 80%	• HIGE
and 100%	DD &

• HIGH: country harnesses DD & attains SD

Between 50% and 79%

Between 0% and 49%

• MEDIUM: country needs investment to harness DD & attain SD

 WEAK: country doesn't harness DD or attain SD; several strategies amd investments are needed



» » » GAP ANALYSIS & INVESTMENT TARGETING



CHOOSING THE TARGET





GAP ANALYSIS





SECTORAL AND STRATEGIC INVESTEMENTS TARGET





» » » CASE STUDY OF SENEGAL



Recap (amount in billions XOF)

Deficit	Youth (0-26 ans)	2.608.03 (96% of deficit)		
	Seniors (63 years and above)	100.02 (4% of deficit)		
Surplus 27-62 years		1.228.54		
Overall lifecycle deficit		1.479.51		
		22% of GDP		
EDCI		45.4%		



DIMENSION 2 RESULTS





DIMENSION 3 RESULTS





DIMENSION 4 RESULTS

IS: Health index; **IE**: Education index; **Icons/T**: Consumption per capita index

IDHE/EHDI: Extended human developement indicator





DIMENSION 5 RESULTS

Urbanization index





DDMI RESULTS FOR SENEGAL



Source : CREG/CREFAT. 2017





Regions	EDCI	QLEI	PESI	EHDI	NTSI	DDMI	Rank
Saint Louis	100	56.0	56.1	63.6	19.7	52.4	1er
Dakar	21.1	63.8	71.5	76.3	45.4	50.6	2e
Diourbel	58.3	61.0	52.8	55.3	19.4	45.8	3e
Kaolack	76.8	57.0	38.0	63.7	17.9	45.3	4e
Louga	48.4	58.3	72.4	59.2	15.7	45.3	4ex
Thiès	26.5	65.3	58.7	64.4	21.6	42.7	6e
Kaffrine	57.2	58.0	38.0	48.6	14.3	38.8	7e
Ziguinchor	36.5	60.4	30.2	63.4	20.8	38.8	7ex
Tamba	66.2	59.0	23.2	50.5	16.7	37.7	9e
Kolda	42.9	61.8	32.7	48.0	15.3	36.4	10e
Matam	12.5	54.8	55.3	51.1	17.2	31.9	11e
Fatick	97.6	59.4	6.3	54.6	14.9	31.3	12e
Sédhiou	22.8	59.4	32.7	44.6	14.8	31.1	13e
Kédougou	23.1	55.2	23.2	51.4	10.7	27.7	14e

Source : CREG/CREFAT. 2017



INVESTMENTS & ELASTICITIES CASE OF EHDI SENEGAL





» » » GAP ANALYSIS: RECOMMENDATIONS AND INVESTMENTS



Recommandations

- ✓ Raise awareness and promote education for all. especially girls
- ✓ Reform education by identifying the real manpower needs of the economy
- ✓ Tailor the education system to the needs of the labor market
- Invest in the sector of general education but also and especially in vocational training



THANK YOU



