

# GENDER DD INDEX: EVIDENCE FROM SENEGAL

Pr Latif Dramani
University of Thies – CREG - Senegal











### Outline

I. Context

II. Concept of DD Index and AU Roadmap

III. What is Gender DD Index

IV. Methodology of Integrating Gender in DD Index

V. GDDI for Senegal





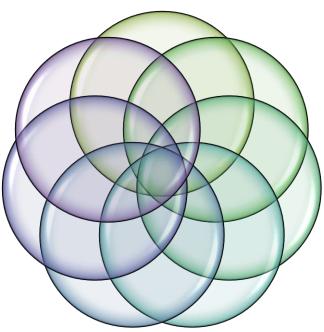


### Context

\*\*Demographic Growth in Africa is very speed: 2.7 per year, twice more important than the world average which is near 1.2 (AU, 2016)

\*\*Every year, about 10 to 12 millions young people join the labor Marlet (Afrique Expansion, 2016).

\*\*Youth without professional perspectives can be considered as a lost generation which is a threat to social stability sociale » (ILO 2014)



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

\*\*Basing on the 2045 projections Africa population will be the youngest in the world:

 400 millions of young people (UNFPA 2016)

\*\*60% of unemployed
African people are 15 and
24 years old between
(UNFPA 2016)

\*\*African Youth (15 to 24 years): 37% of the population have attained working age (UNFPA 2016)







# » » » CONCEPT OF DD MONITORING INDEX (DDMI)







#### **DDMI: DEFINITION**

A synthesis tool which facilitate understanding of all information related to DD;

A Demographic Dividend monitoring and evaluation system in different countries;

A visual representation of synthesis index.







#### **DDMI: JUSTIFICATION**



Understanding the DD progress achievement in each country



Monitoring the evolution of the key indicators in different countries



Making comparisons at local, national and sub regional levels



**AU DD** 

**Pillars** 

P1

P1

P1

P2

**P3** 

**P4** 



**Pillars Definition** 

**Employment and** 

Entrepreneurship

**Education & Skills** 

Health & Wellbeing

Rights, Governance &

Youth Empowerment

Development



**Basic Link** 

**Population** 

structure

Subjective

**Economy** 

**Normative** 

**Economy** 

Education

Institutions,

governance

Health

**Dimensions** 

Dim 1: Economic

Dim2: Quality of

Dim 3: Poverty

Dim 4: Extended

Dim 5: Networks

and Territories

Development

**Living Environment** 

Dependancy

Coverage

Exiting

Human

**Background** 

Methodology

Methodology

Methodology

methodology

methodology

Better Life

Index

**Poverty** 

**HDI** 

Clusters

**Dynamics** 

NTA

REG	INFR:	ACREFAT *	DDIVII Concept

**Theoritical** 

**Approach** 

	 	_	 • •	1	•-	 	 
ľ	The state of the s	- Control of the Cont					
	• • • •	Control of the Contro					]

Main Lin	kages betv	veen Demographic	Dividend Monitoring	index and AU Pillars

••••	Z~LKOAI	BBivii Goileepe

	••••	The later with the same of	

Life Cycle

Theory

Welfare

Human

Capital

Theory

Institutional

economy

theory

theory; regional

theories of

Well-being

	/ACREI/AI	BBIVII Concept

CREG	UNFP?	∭CREFAT ®	DDIVII Concept







### **DDMI**

Based on AU DD
Pillars

Monitoring tool

Set of
Demographic
Dividend Indicators

Analysis & 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































15 SDGs followed with DDMI













6 aspirations related to DDMI









### **Gender DD Index?**

The gender DD index is not just an additional gender index like others

A tool for analyzing country's progress towards women and gender disparities reduction in DD capturing framework

It derives from the DDMI developped by CREG and thus have the DD as entry point

It helps bring out both the gender bias facts and the contribution of women to the DD capturing process







### » » » METHODOLOGY OF GENDER DD







### **Towards to Gender DD**

The Gender DD Index derives from the DDMI constructing methodology

Five dimensions with several relevant and sound indicators are included

Most of included indicators are gender-differentiable







### **DIMENSION 1: E.D.C.I**

### **Economic Dependancy Coverage Index**

- **Objective**: measure capacity of a country to respond to social demand related to youth and seniors life cycle deficit.
- ■Theory: Life Cycle Theory, Modigliani & Brumberg (1954).

Main Source: (UN-NTA 2013), Lee & Mason (2011),

Normative Method

Surplus = Consumption – labour Income

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







### **DIMENSION 2: Q.L.E.I**

### 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 his 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







### **DIMENSION 3: P.E.S.I**

- **❖ Poverty Exiting Synthetic Index**
- Objective: Synthetize level of poverty transition within populations
- ■Theory: Welfare theories of Well Being.
- ■Main Source: Dang & Lanjouw (2013); Dang, Lanjouw, Luoto & McKenzie (2011)
- Normative Method

$$P.E.S.I = \frac{P \rightarrow NP}{NP \rightarrow P + P \rightarrow NP}$$

P == Poor; NP== Non Poor







#### **DIMENSION 4: E.H.D.I**

### Extended Human Development Indicator

- Objective: to know 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







### **DIMENSION 5: N.T.S.I**

### Networks and Territories Synthetic Index

- Objective: Collect information about territorial mobility by describing attractivity 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







### **GDDI FORMULA**

- This is the geometric average of the five previous synthetic index
- The following method is used to calculate DD Monitoring Index (GDDI)

GDDI= 
$$\sqrt[5]{EDCI * QLEI * PESI * EHDI * NTSI}$$

**GDDI=Gender DD Index** 







## Dimension 1 description

Indicators	Type of indicators	Sources
Education consumption	Gender-specific	HH Survey & SNA
Health consumption	Gender-specific	HH Survey & SNA
Other consumption	Gender-specific	HH Survey & SNA
Earnings	Gender-specific	HH Survey & SNA
Self-employment labour income	Gender-specific	HH Survey & SNA
Population by Age	Gender-specific	Census or Survey

**Source: CREG 2019** 19



Security



Homicide rate



### Dimension 2 description

**HH Survey** 

GPI;

sources

Administrative

Non-diff.

CREG	CREFAT	SIOTT Z UE	escription
Criteria or Sub- dimensions	Indicators	Type of indicators	Sources
Civic	Electoral participation	Non-diff.	Election commission
engagement and	Stakeholder participation in the development of regulations	Non-diff.	HH Survey
Social connections	Quality of the social network	Gender-specific	HH Survey
	Atmospheric pollution	Non-diff.	Meteorology data
Environment	Quality of water	Gender-specific	HH Survey
	Number of rooms per person	Non-diff.	HH Survey
Housing	Access to basic sanitary facilities	Non-diff.	HH Survey
	Cost of housing	Non-diff.	HH Survey
Satisfaction	Satisfaction with life	Gender-specific	HH Survey
Work-life	Heavy work schedules	Gender-specific	HH Survey
balance	Time devoted to leisure and self	Gender-specific	HH Survey

Feeling of safety when walking alone in the night Gender-specific







### Dimension 3 description

Criteria or Sub-dimensions	Indicators	Type of indicators	Sources
	CHRONIC POVERTY	Gender-specific	Poverty Survey, ESPS2
Stability State	PURE NO POVERTY	Gender-specific	Poverty Survey, ESPS2
Transitional	POVERTY EXITING	Gender-specific	Poverty Survey, ESPS2
state	FALL INTO POVERTY	Gender-specific	Poverty Survey, ESPS2

Source: CREG 2019 21







### Dimension 4 description

Criteria or Sub- dimensions	Indicators	Type of indicators	Sources
	Life expectancy	Gender-specific	Census
Health	Total Fertility Rate	Non-diff.	DHS; Census
	Average duration of schooling	Gender-specific	HH Survey
Education	Expected duration of schooling	Gender-specific	HH Survey
Living Standard	Consumption per capita	Gender-specific	HH Survey

22

**Source: CREG 2019** 







### Dimension 5 description

Criteria or Sub- dimensions	Indicators	Type of indicators	Sources
	Population density	Gender-specific	Census / HH survey
Linhanization	Average size of households	Non-differentiable	Census / HH survey
Urbanization	Urbanization rate	Gender-specific	Census / HH survey
	Ratio of renter households to owne households	r Gender-specific	Census / HH survey
	Entry index	Gender-specific	Census / HH survey
Migration	Exit index	Gender-specific	Census / HH survey
Infrastructure and basic	Index of access to infrastructure and basic social services	Gender-specific	HH survey
social services	Quality index of infrastructures and basic social services	Gender-specific	HH survey
	Transfer index	Gender-specific	HH survey
Financial flows	Rate of access to formal transfer services	Gender-specific	HH survey / Central Bank database
	Food Consumption per capita	Gender-specific	HH survey

23







### READING GRID SCALE

### How to interpret the GDDI SCALE?

Between 80% and 100%

• HIGH:

Between 50% and less to 80%

• MEDIUM:

Between 0% and less to 50%

• WEAK:







### » » DDMI FOR SENEGAL







Economic Dependancy Coverage Index	SENEGAL	Men	Women
Age Group with Surplus	30-63 years	27-69 years	37-58 years
Surplus (Billions XOF )	1 260	1341	78
Deficit (Billions XOF )	3 399	1 470	2 089
Overall Life Cycle Deficit (Billions XOF)	2 139 (32% of GDP)	128	2011
EDCI	37%	91%	4%

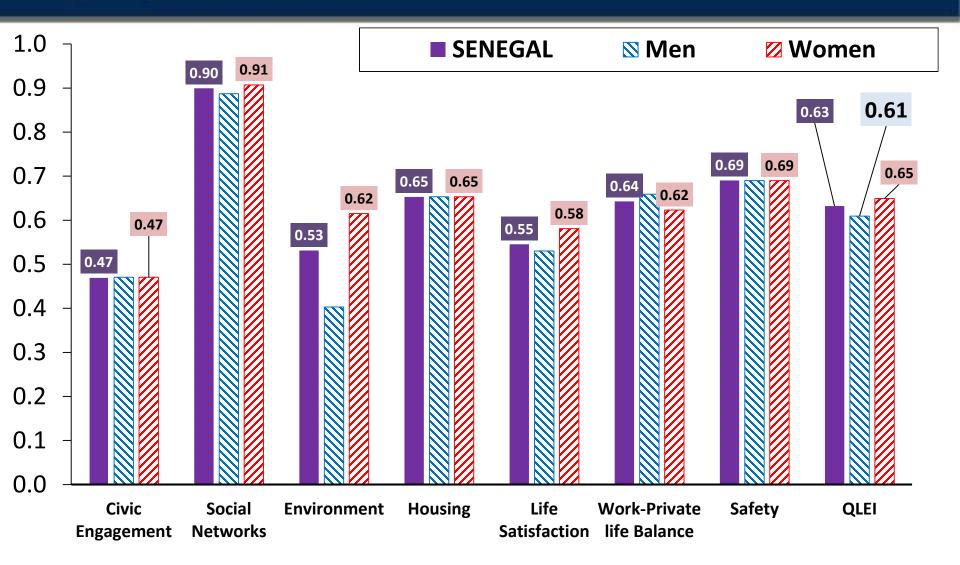
**Source: CREG 2019** 26







27



Source: CREG 2019







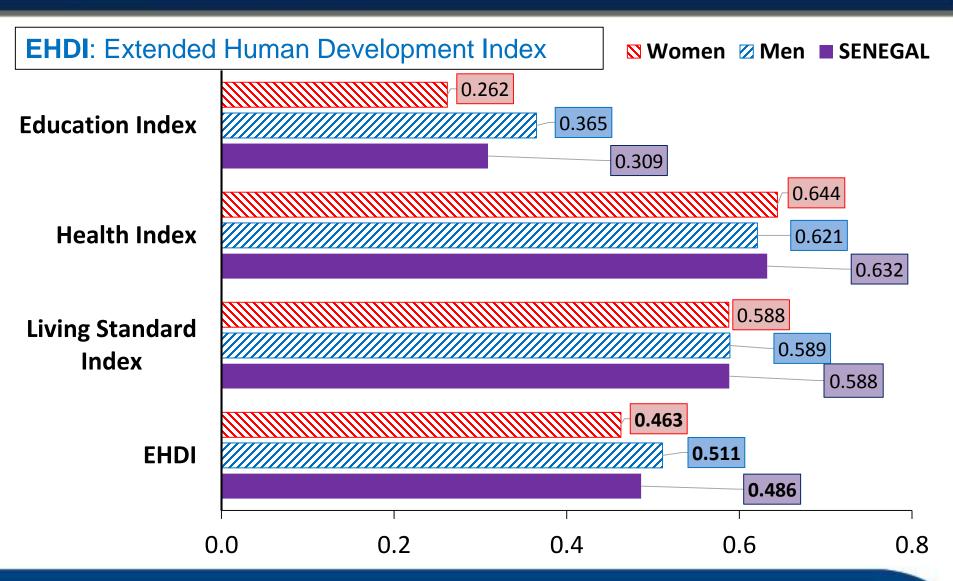
Poverty Exiting Synthetic Index	SENEGAL	Men	Women
Chronic Poverty	23%	28%	19%
Pure No Poverty	38%	32%	41%
Poverty Exiting	21%	21%	24%
Fall into Poverty	18%	19%	16%
P.E.S.I	58%	53%	64%

**Source: CREG 2019** 28







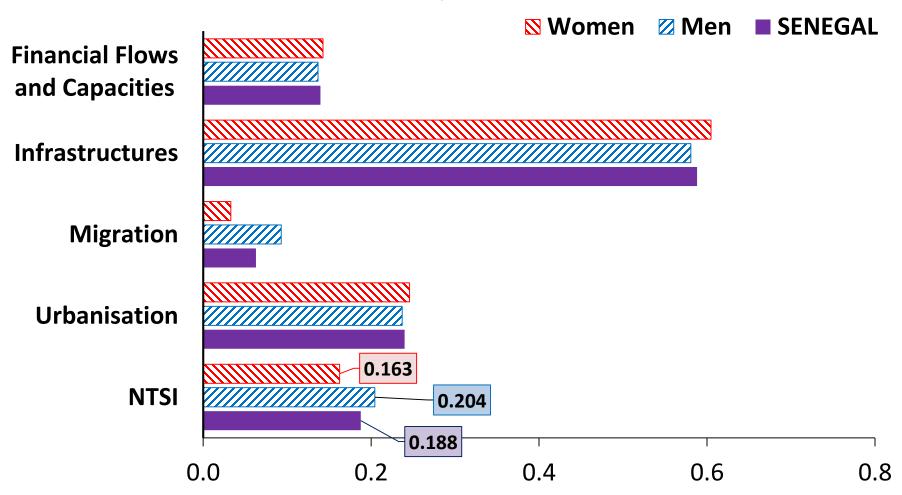


Source: CREG 2019





NTSI: Networks and Territories Synthetic Index

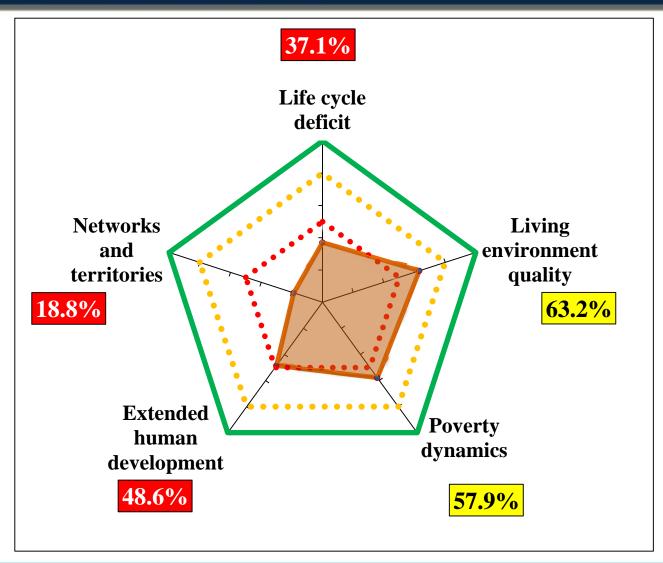


30

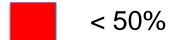




### MCREFAT SYNTHESIS DDMI-SENEGAL



#### Legend:





**DDMI= 41,5%** 







### » » » GDDI FOR SENEGAL

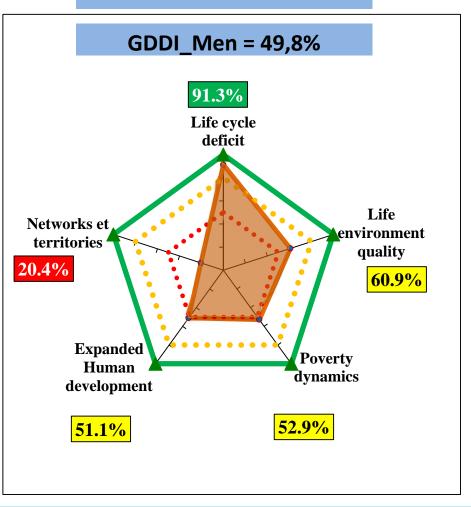




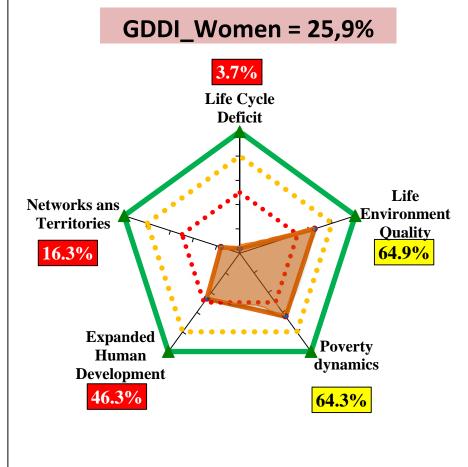


### Gender DD Index Senegal

#### MEN



#### **WOMEN**



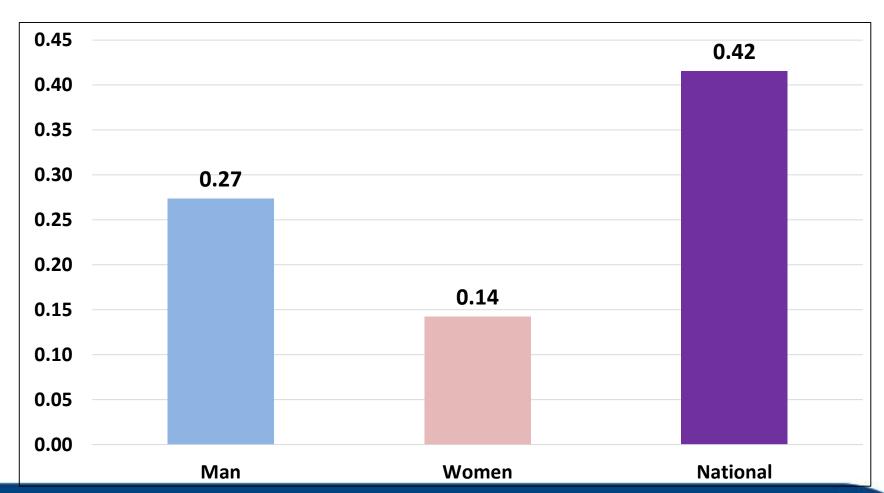






### Gender Contribution to DD

- Men contributions in terms of share is about 66%
- Women contributions as share is around 34%









### **Market Conclusion and Recommendations**

- Senegal are not yet reaping benefit from its demographic structure
- DD\_Men score is around to times big than Women\_DD
- Men contributes up to 66% and women 34% to DD

- > Important investments to economically empower women in Senegal is needed
- Deeping efforts towards humain development for both men and women



# **THANK YOU**



