



**Kingdom of Morocco**  
**Ministry of Energy, Mines and Sustainable**  
**Development**

**WORKSHOP FOR THE FACILITATIVE SHARING OF  
VIEWS (FVS) UNDER THE INTERNATIONAL  
CONSULTATION AND ANALYSIS PROCESS (ICA)**

**Kingdom of Morocco**

1

**Bonn, 15 May 2017**

# Contents

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## Part I: Summary of BUR and recent development

- National context
- GHG inventory
- Mitigation actions and effect
- Barriers and support needed and received

## Part II: Experience and lessons learned in participating in the ICA process

# 1. NATIONAL CONTEXT

01/06/2017

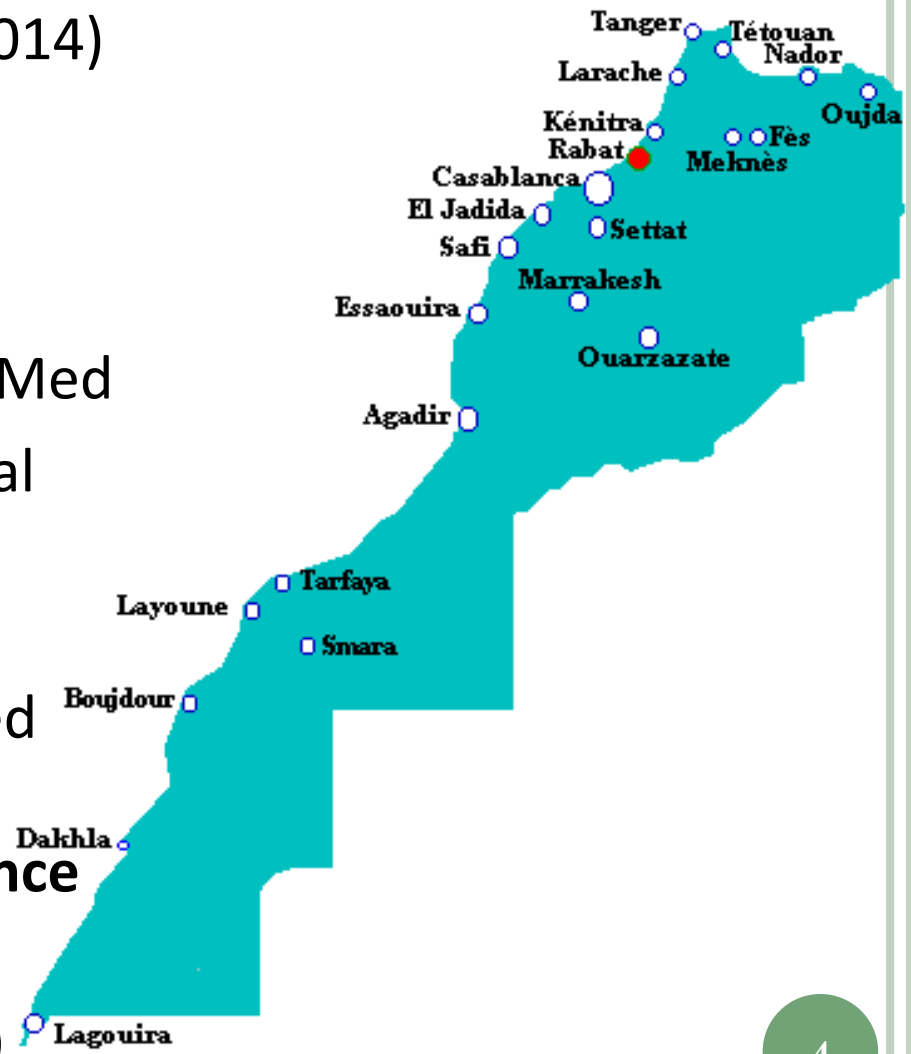


3

## NATIONAL CONTEXT/RELEVANT FACTS

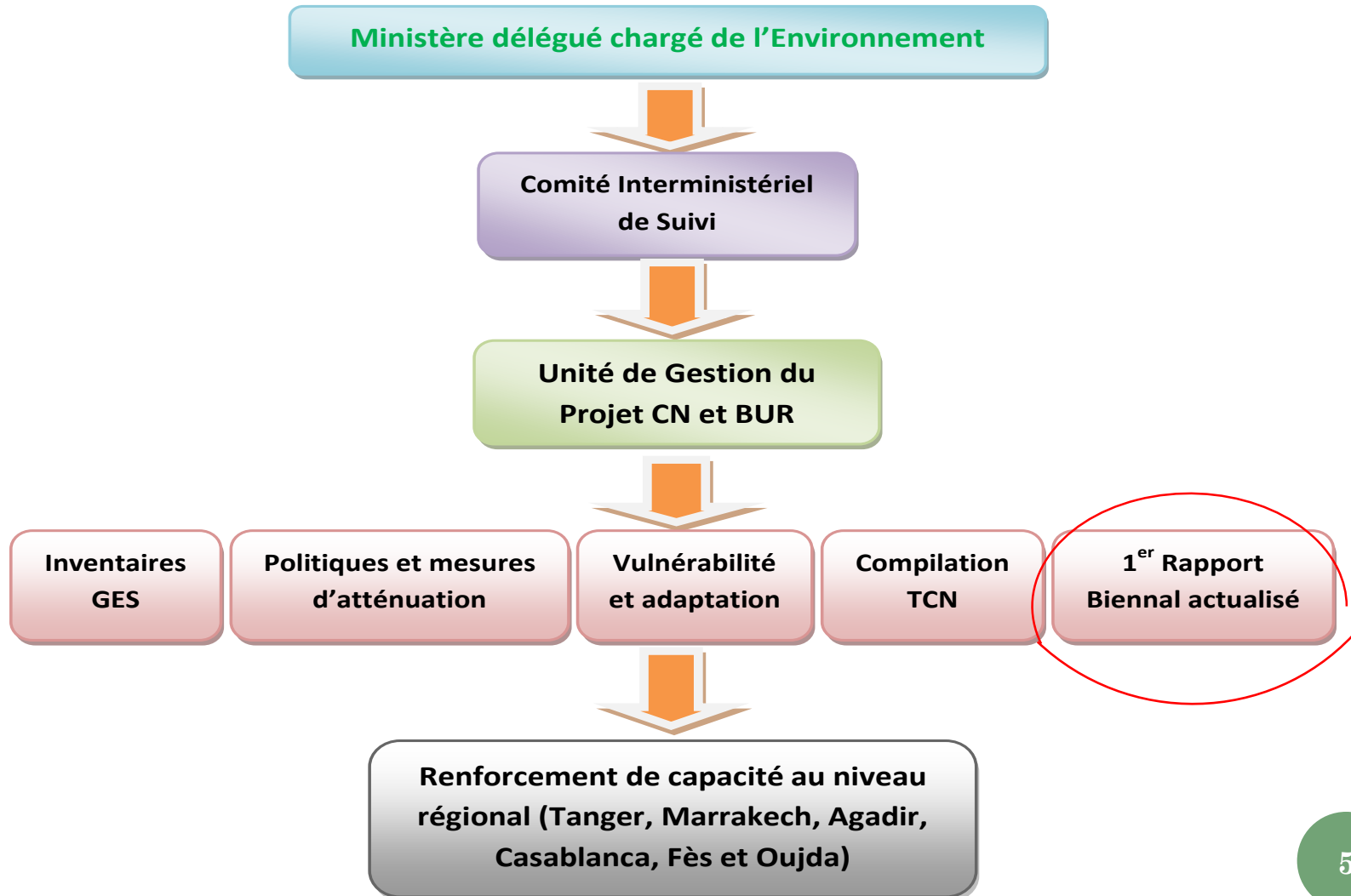
- Population : **33,848 millions** (2014)  
/ more than **60% in urban**
- Economic growth / year: **4,3%**  
since 2008
- Seaboard (3.446 km) : Atlantic+Med
- Ecosystems vulnerability (Coastal areas – estuaries – fauna and flora; Oasis 44 000 Ha )
- Water-scarce country confronted with dwindling groundwater reserves and a **strong dependence on rain-fed agriculture**
- Temperature increases (+1,8°C )  
and declining precipitation (1-30%)

( 1960-2005)



# NATIONAL CONTEXT/ INSTITUTIONAL ARRANGEMENTS

01/06/2017



## 2. GHG INVENTORY



6

# GHS INVENTORY IN MOROCCO IN THE FRAMEWORK OF THE TNC

- Morocco has already prepared and communicated to the UNFCCC:
  - The inventory for the year of 1994 (FNC)
  - The inventory for the year of 2000 (SNC), and also 2004
  - For the TNC, the inventory covers the years:  
2005, 2006, 2008, 2010 et 2012
- The first BUR is based on the results of the inventory of 2012

# RESULTS OF MOROCCAN GHG INVENTORY FOR 2012

01/06/2017

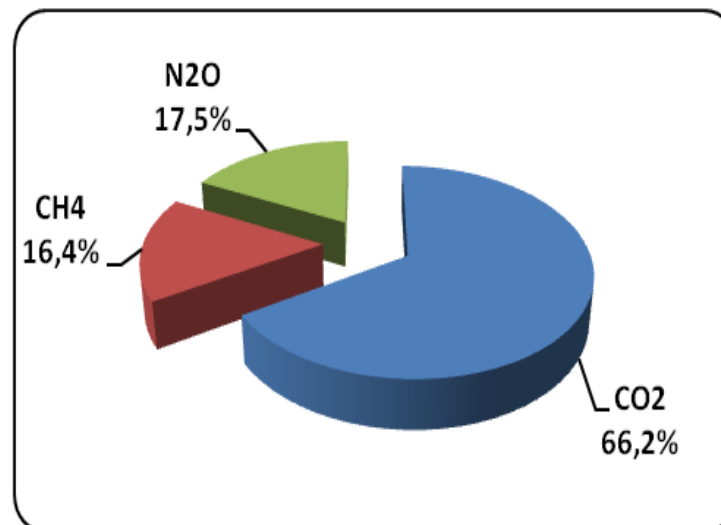
- The net anthropogenic net emissions of GHG in Morocco are estimated **100.5 million t CO<sub>2</sub>e**
- **Emissions per capita : 3.10 t CO<sub>2</sub>e**
- These emissions correspond to the balance of total GHG emissions for the different sources (gross emissions) and the absorption of CO<sub>2</sub> through the vegetation ecosystems.
- The contribution of direct GHG in that emissions is the following

**CO<sub>2</sub> : 66 538 Gg**

**CH<sub>4</sub> : 16 452 Gg**

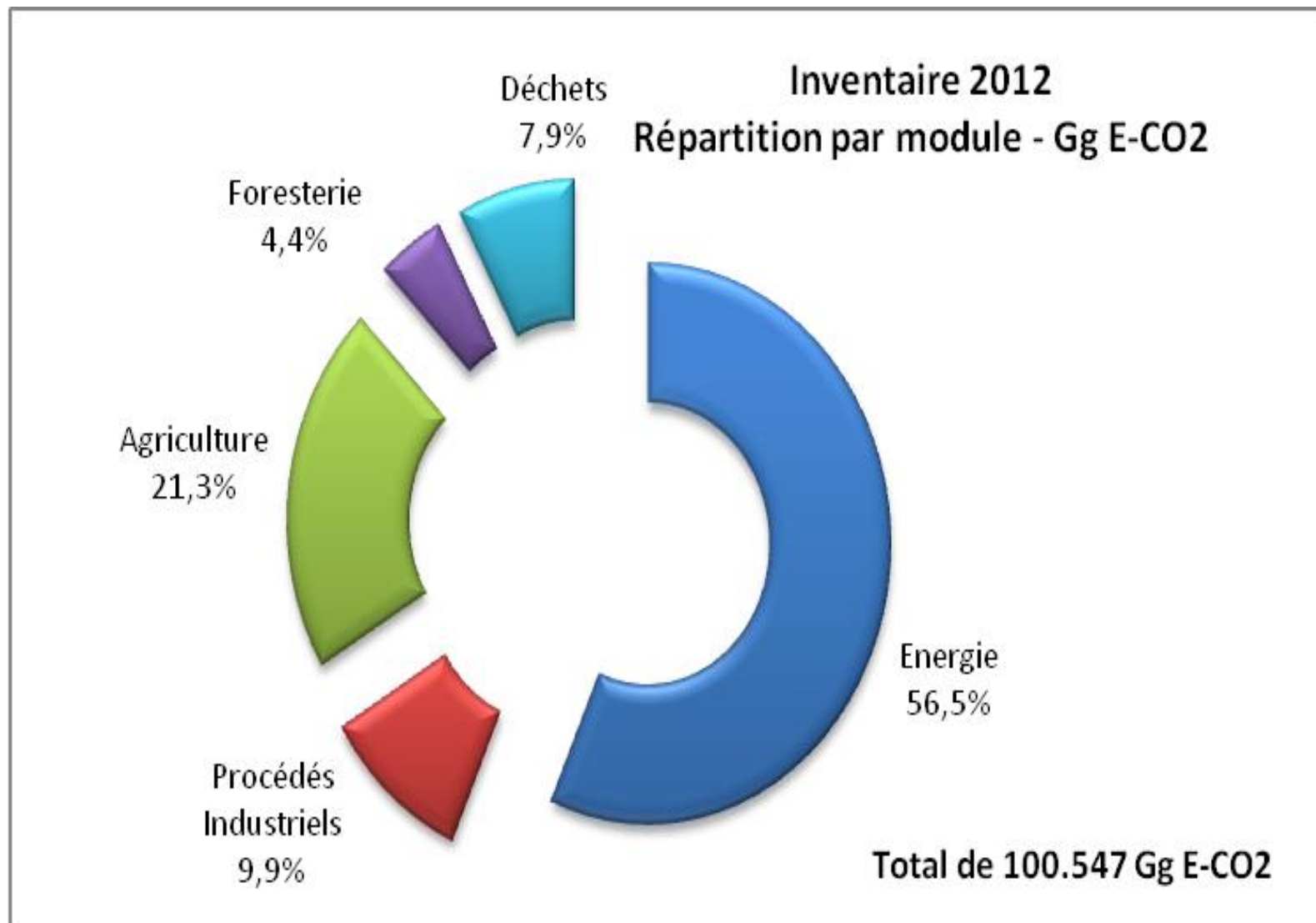
**N<sub>2</sub>O : 17 556 Gg**

- Sequestrations CO<sub>2</sub> :  
**5 103,50 Gg (4,8%)**



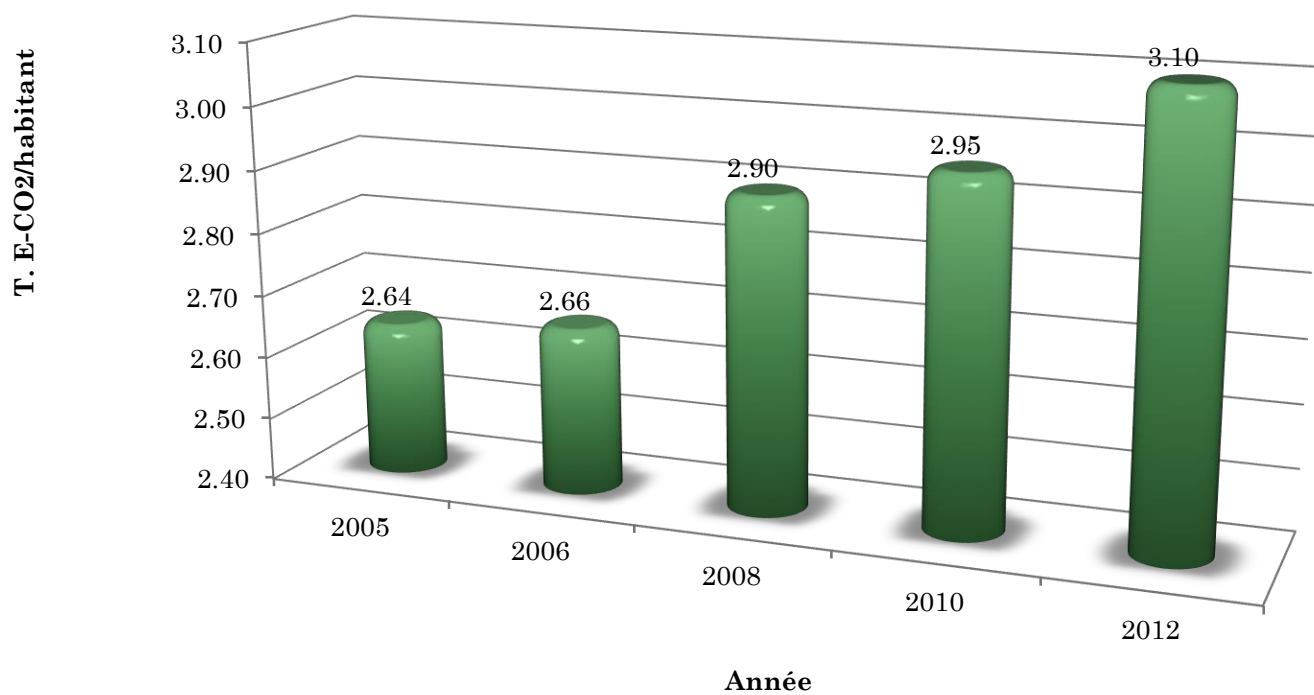


# GLOBAL RESULTS OF EMISSION BY SECTOR FOR 2012

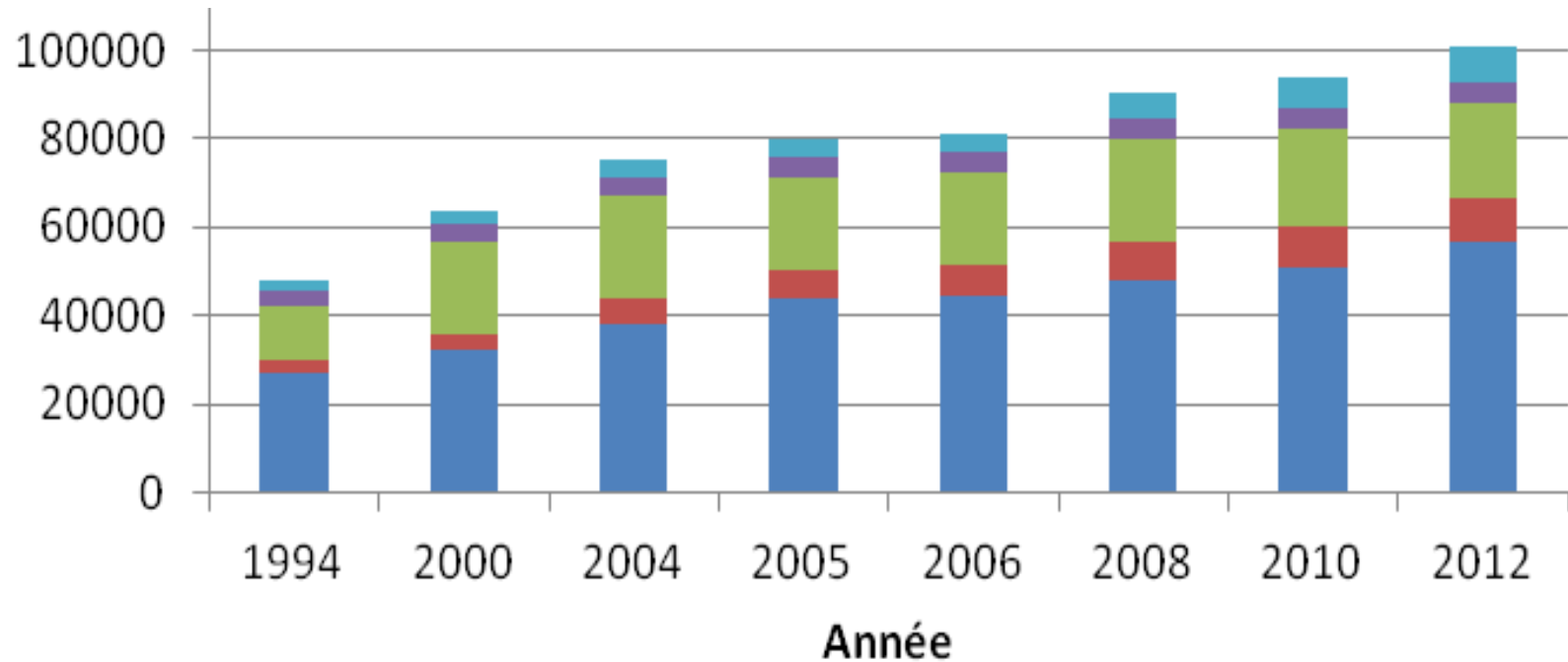


# EMISSION PER CAPITA - TREND

Evolution des émissions de GES per capita  
2005 - 2012



# ANALYSS OF TRENDS OF EMISSIONS PER SECTOR BETWEEN 1994 AND 2012

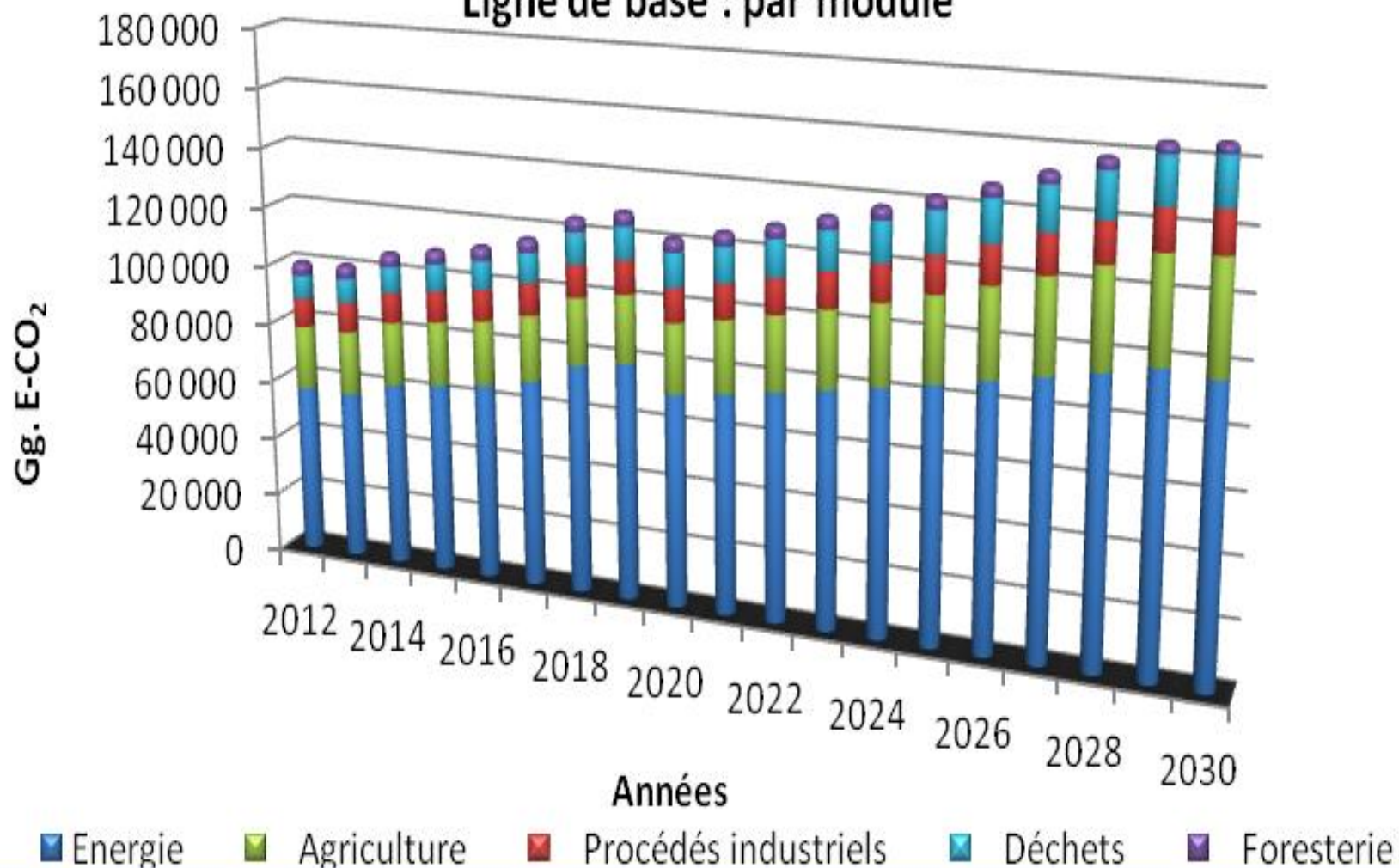


■ Energy ■ Industry ■ Agriculture ■ Forestry ■ Waste

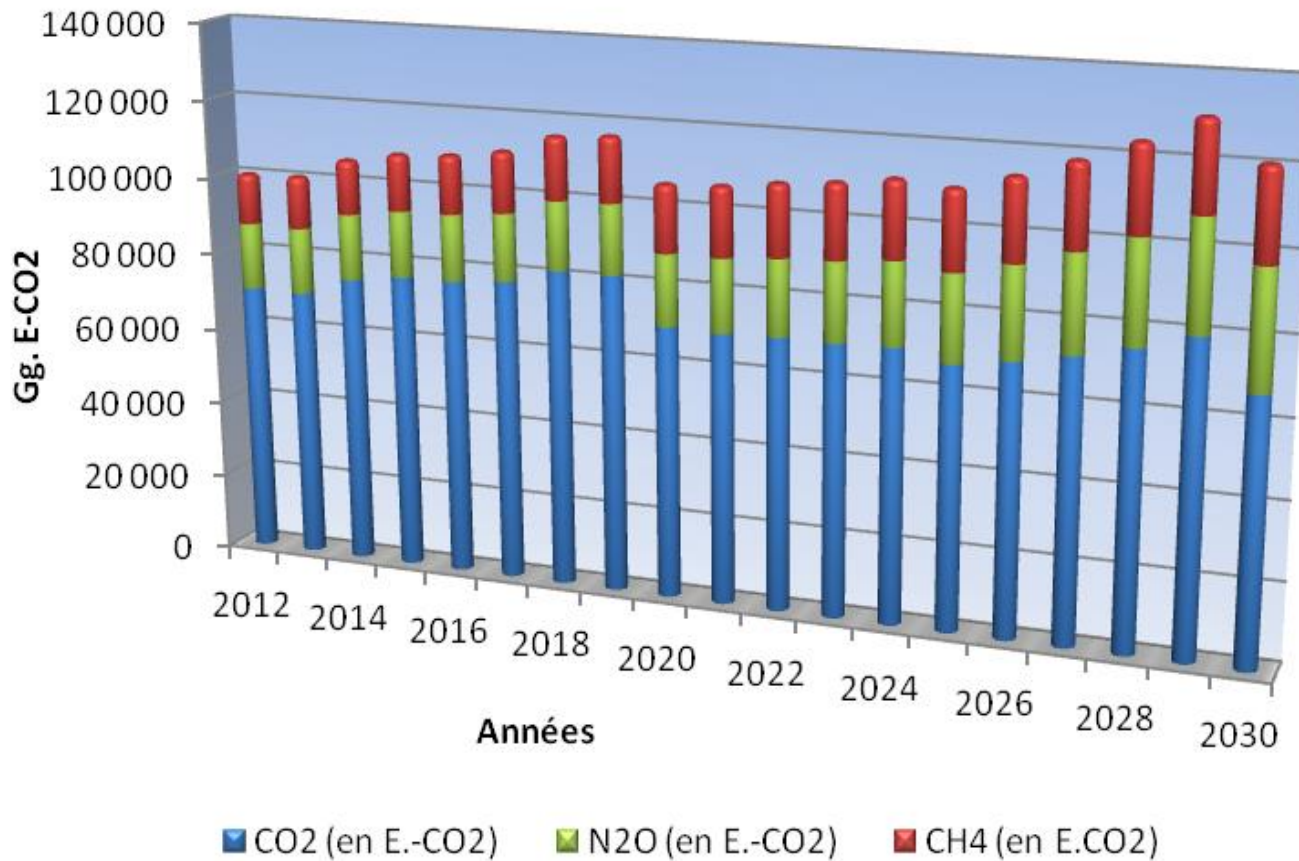
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## Evolution des émissions de GES 2012-2030

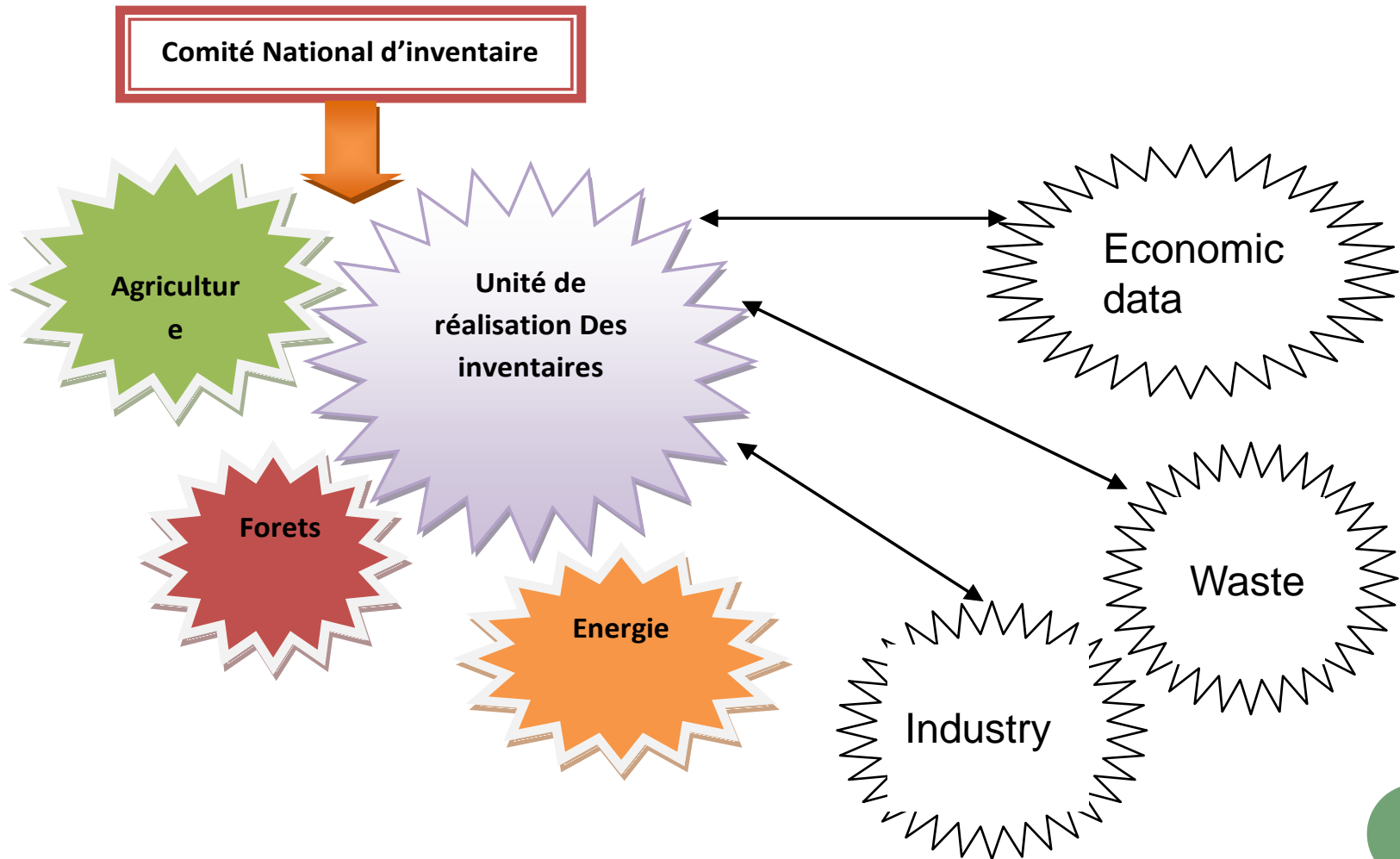
Ligne de base : par module



## Evolution des émissions de 3 principaux GES Scénario d'atténuation - 2012-2030



# INSTITUTIONAL SCHEME OF THE NATIONAL SYSTEM FOR THE INVENTORY OF GHG EMISSIONS



### 3. MITIGATION ACTIONS AND EFFECT



15

# MITIGATION OPTIONS

- **Adopted methodology for the definition of mitigation measures**
  - Emphasis was placed on measures that could mitigate GHG emissions **while enabling Morocco to meet its challenges of economic growth and social development.**
  - The main objective of the mitigation measures identified is to **ensure the integration of GHG reduction requirements into all Moroccan development programs.**
  - The suggested measures are **based both on** current national programs and on **new projects** resulting from consultation with the various operators.

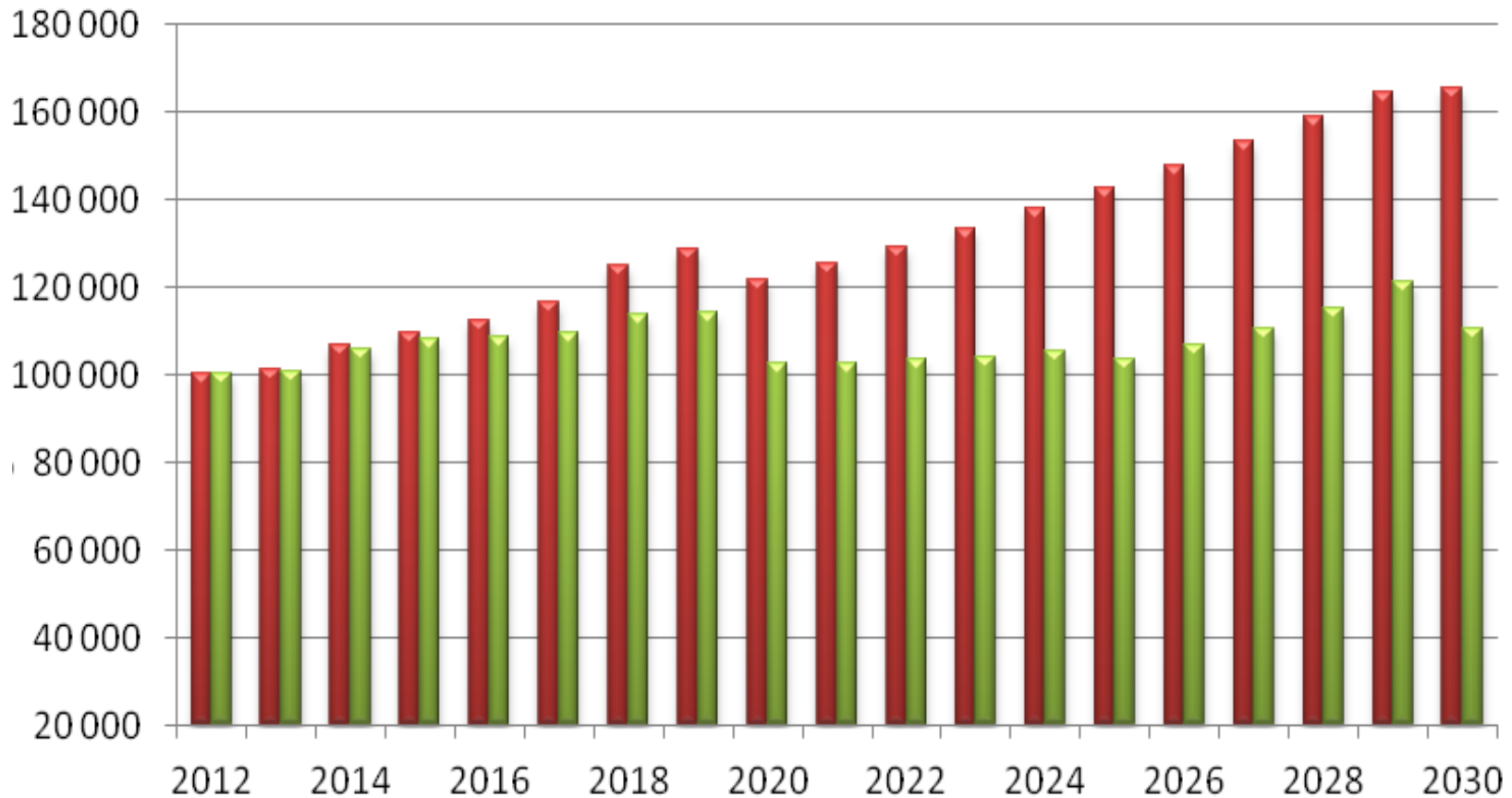


## MITIGATION OPTIONS ENERGY – NON ENERGY

- The basic investment for the implementation of **energy** measures is **49.94 billion US \$**
- The mitigation potential is **51.6 million t CO<sub>2</sub>/year.**
- The basic investment for the implementation of **non-energy** measures is **5.09 billion US \$**
- The potential mitigation is **19.5 million t CO<sub>2</sub>/year.**

Total: **55 billions US \$ / 71 million T CO<sub>2</sub>e**

# MITIGATION MEASURES...BASELINE VS MITIGATION



01/06/2017

# MITIGATION MEASURES AND POLICIES

- Contribution of the NAMAs to the mitigation of GHG emissions
  - NAMA Buildings
  - NAMA Agriculture
  - NAMA Household Waste
  - NAMA solar pumping
  - NAMA solar roofs PV in BT
- CDM portfolio
- Impact of the application of the Thermal Building Regulation in Morocco on the mitigation of GHG emissions
- Assessment of the GHG mitigation potential of the Green Morocco Plan

# NEEDS AND GAPS CONCERNING HUMAN, REGULATORY AND INSTITUTIONAL CAPACITY-BUILDING

6 cross-cutting modes of intervention :

- Strengthening the legal and institutional framework
- Improvement of the expertise and the observation
- Regional variations of the policies of combatting global warming
- Prevention and reduction of climate risks
- Awareness-raising, empowerment of actors and capacity-building
- Promoting research, innovation and transfer of technologies



# NEEDS AND GAPS IN FINANCING, MONITORING AND ASSESSMENT CAPACITY-BUILDING

5 interventions considered :

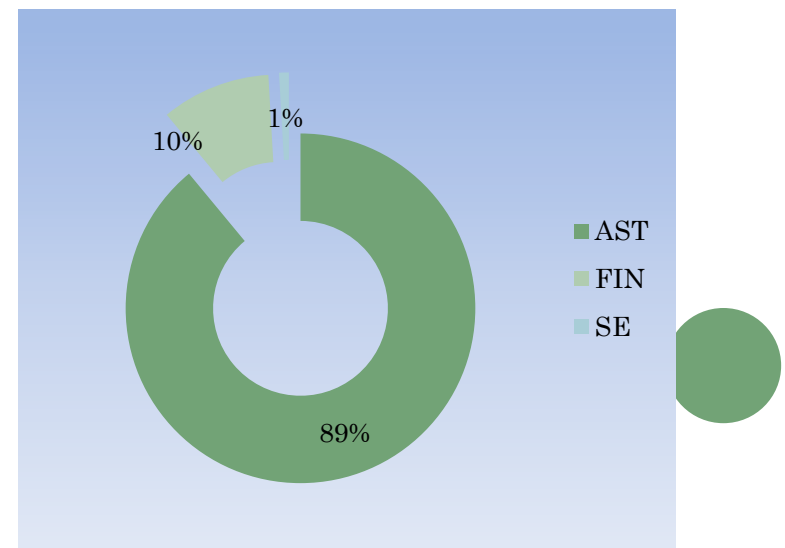
- institutional
- financial engineering
- technical assistance
- capacity-building
- Monitoring and assessment



# NEEDS AND GAPS IN CB: GLOBAL ACTION PLAN

- Action plan for the implementation of CB measures related to different aspects
- Timelines used in the budget estimate and the financial arrangement of the CB actions:
  - Annual,
  - short term (ST) under 3 years,
  - medium term (MT) - 3 to 6 years,
  - long term (LT) - 6 to 15 years.

GLOBAL BUDGET  
**111.7 MILLION US \$**



## FINANCING NEEDS...

- Morocco proposed a **range of mitigation and adaptation measures** communicated through TNC, PIV and INDC
- The sectors that have been selected are those with real potential for **Morocco's transition to green growth** (water, renewable energy and energy efficiency, forestry, agriculture, cities, transport, waste management, etc.).
- Morocco counts on the mobilisation of resources of the **Green Climate Fund (GCF)** to contribute to the financing of its GHG emission mitigation and adaptation projects
- These resources should make it possible to mobilize even greater amounts **from the private sector through leverage** and towards countries offering an attractive policy and investment environment as is the case for Morocco.



## 5. MRV

24



# MRV OF THE NAMAs ...

## EX. of The Waste NAMA

The MRV system proposed in the framework of this NAMA is stated as follows :

- MRV of GHG emissions ;
- MRV of sustainable development cobenefits ;
- MRV of GHG emissions.

Process ongoing for other NAMAs

SNI-GES System

# EXPERIENCE AND LESSONS LEARNED IN PARTICIPATING IN THE ICA PROCESS

26

## Part II: Experience and lessons learned in participating in the ICA process

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### 1. The BUR preparation and domestic coordination

- a. Development of the BUR1 in parallel with the TNC.
- b. The TNC&BUR1 process has raised the level of coordination among the various partners.
- c. Was the basis for the preparation of Morocco's NDC,

### 2. The value addition of the TA of BURs by the TTE

- a. The TA of the BUR1 of Morocco pointed out some gaps
- b. Emphasize some details to be presented to ensure more transparency
- c. Respect data Tables as indicated in UNFCCC reporting guidelines of BURs
- d. The quality of BUR 2 will thus be considerably improved.

***Thank You***



01/06/2010



**شكرا لكم**