



**REPUBLIC OF TURKEY**  
**Ministry of Environment and Urbanization**  
**General Directorate of Environmental Management**  
Climate Change Department



# **STATUS AND CHALLENGES WITH MONITORING FACILITY-LEVEL GHG EMISSIONS**

MRV Regional Workshop  
*17 September 2014, İzmir*

# Country Context

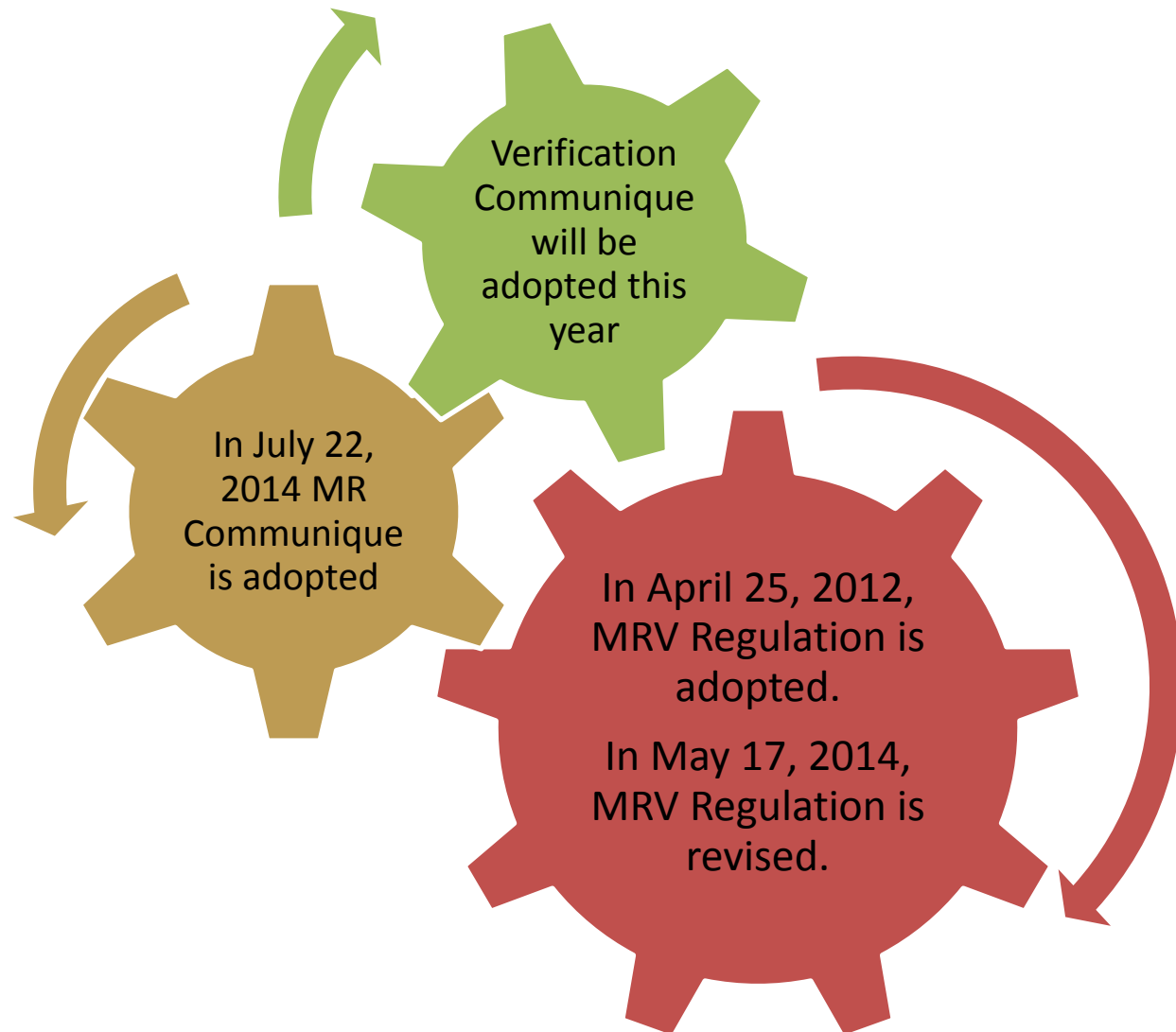
## UNFCCC

- Ratified on 24.05.2004 as an Annex-I and Annex-II Country
- Removed from Annex-II by decision 26/CP.7 in 2001 at COP 7
- 1/CP.16, 2010 *“Recognizing that Turkey is in a situation different from other Annex-I countries”*

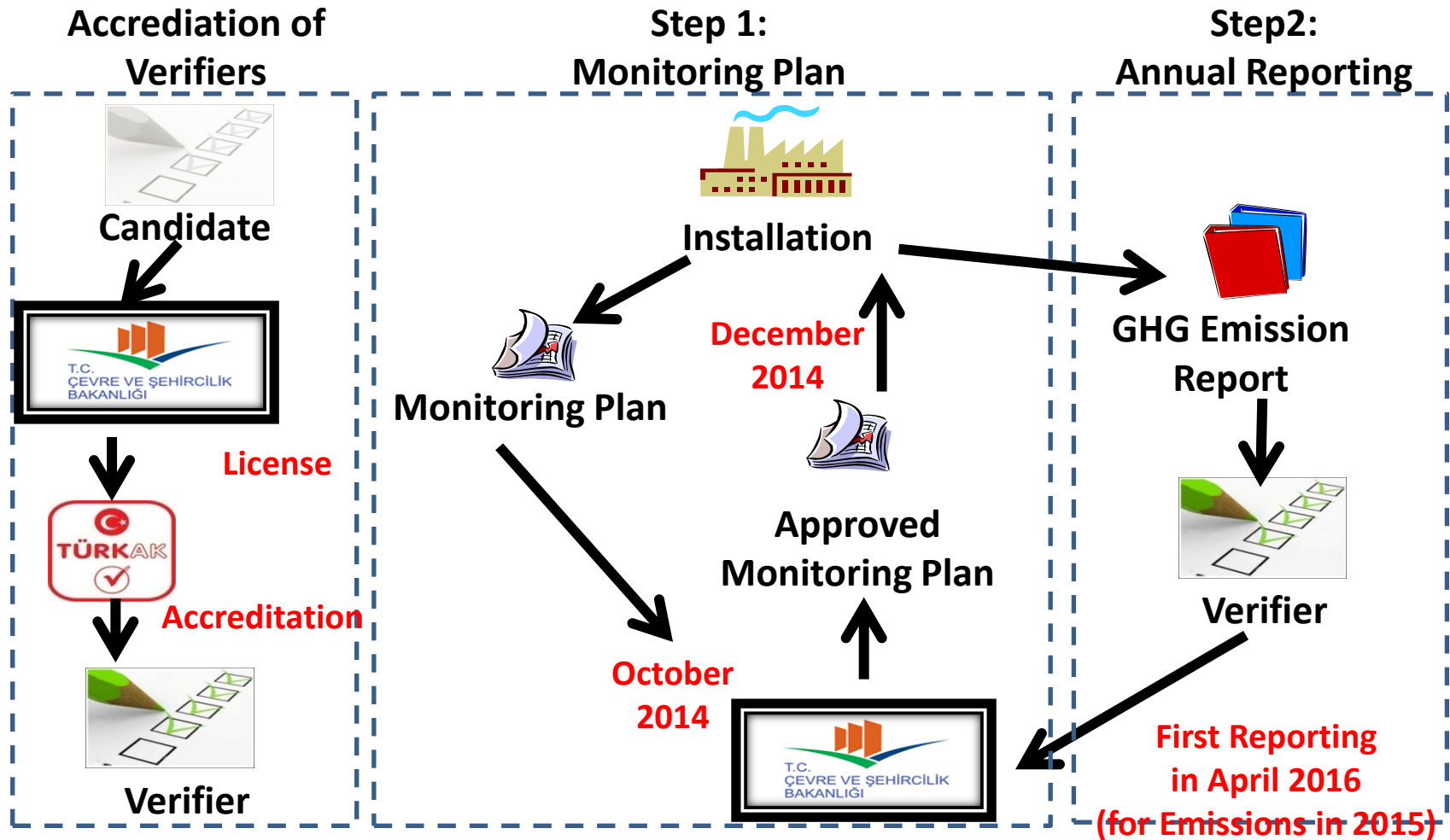
## Kyoto Protocol

- Ratified on 26.08.2009
- Not listed in Annex-B
- Not eligible for flexible mechanisms

# Regulatory Framework



# Regulatory Framework



# MRV System in Turkey

- Some 2000 installations expected to be in the scope
- $\pm$  50% of national GHG emissions to be covered
- Public inst. (energy!), industry, consultants, verifiers, accreditation body.... to be involved

- Problems with Industry
- Problems about Accreditation and verification

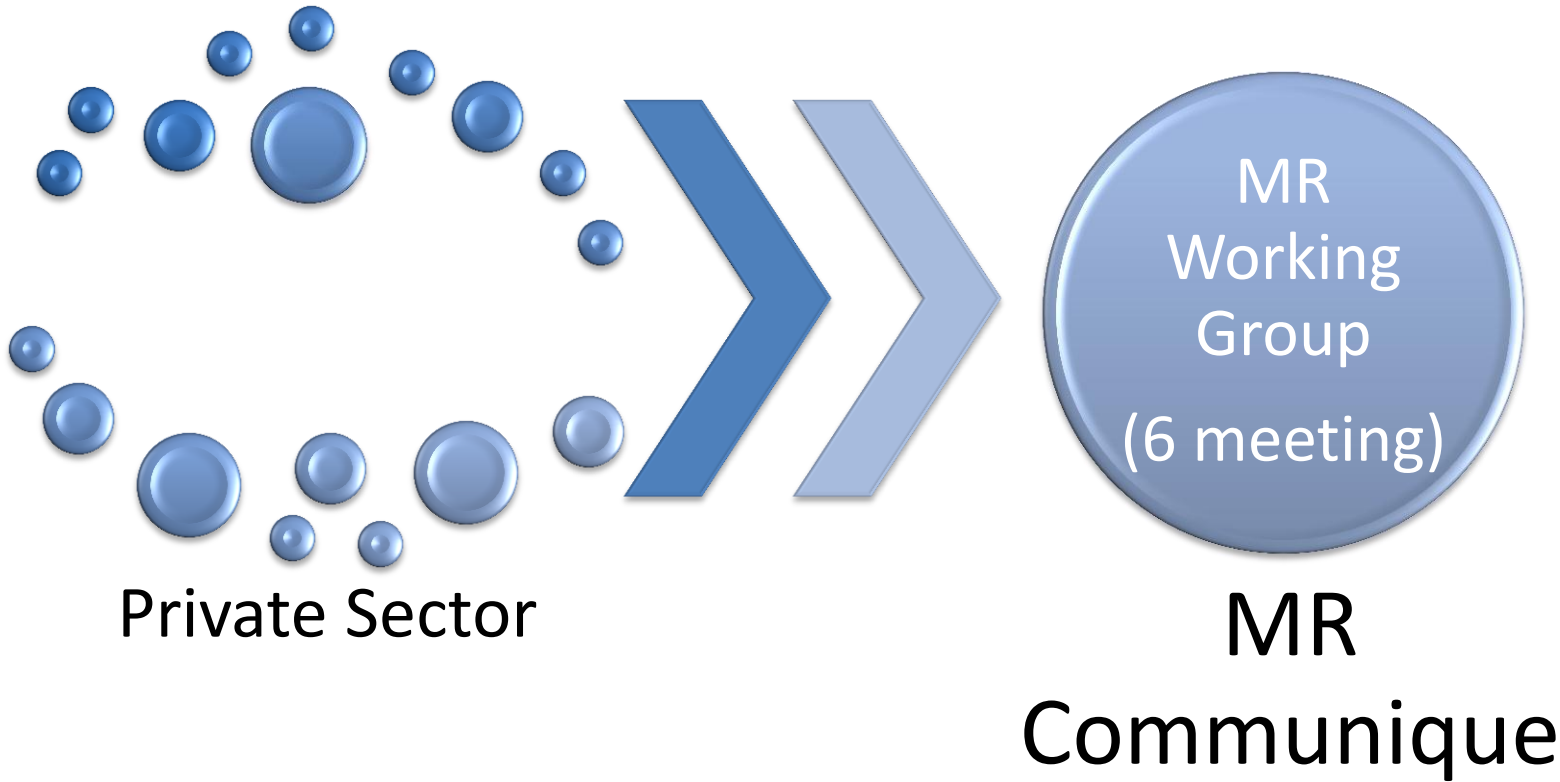
# Stakeholder Consultation Meetings

Installation + Sector representatives



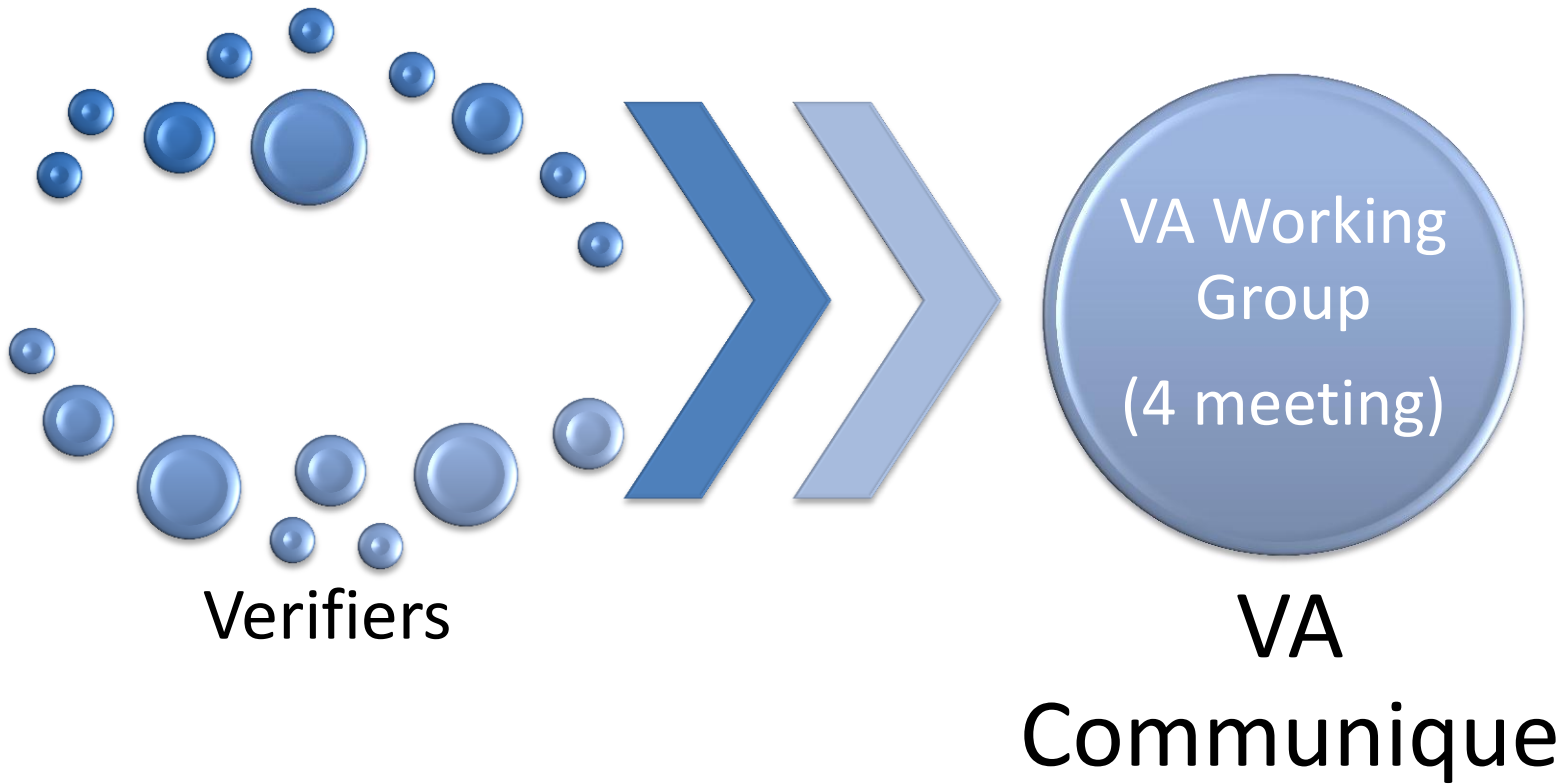
# Working Groups

Public Institutions



# Working Groups

Accreditation Body



# MRV Training for Trainers

- MR Working Group
- Sector representatives from each sector
- Ministry of Energy



# MRV System in Turkey

- Industry sector is open and willing for implementation
- They want to see their current situation and improvement opportunities
- They require one standard for comparability among themselves
- They are aware of technical challenges but eager to overcome
- Crediting/Trading/?, MRV is the backbone of any future mechanism

# PMR Pilot MRV

## Voluntary Installations:

- 18 Installation from Electricity sector (4 private+14 state owned)
- 5 Installation from Cement sector
- 1 Refinery

## In the scope of Pilot MRV:

- Preparation of Monitoring Plans
- Preparation of 3 months emission reports
- Preparation of Verification Reports
- Gap Analysis Report



The Partnership for  
Market Readiness

Shaping the Next Generation of  
Carbon Markets



PARTNERSHIP FOR  
MARKET READINESS

# Capacity Building Project of MRV of GHG Emissions (GIZ)

- web-based system was built
- Guidelines were prepared
- Training need assessment
- Sectoral Trainings for each sub-sector of the Regulation
- Prepared a Monitoring Plan Template that is tailored into the local context
- MP template has been road-tested in a cement installation and finalized



# Why we were in need of an MRV Pilot & capacity building?

- Lack of experience & capacity of:
  - Industrial sector (lack of in-house capacities and dedicated staff- particularly by local industries)
  - Verifiers (anticipated delayed validation/ verification process, inconsistency and incompetency)
  - Consultancies (not locally experienced, learning by doing)
  - Regulatory bodies governing the system

# Why we were in need of an MRV Pilot & capacity building?

- *Problems encountered in MRV systems*
  - Harmonization within and across sectors, for preparing inventories and the MRV process (e.g. varied coefficients, factors, selection approach)
    - Varied interpretation of unclear guidelines and rules
    - Varied data series, inputs by national institutions and other agencies (e.g. several sources on power plant efficiencies)
    - Lack of short term incentives for industry unlike in emission reduction projects

# Why we were in need of an MRV Pilot & capacity building?

## *Problems encountered in MRV systems*

- Adequate monitoring plan/system often missing
  - Who records what, how often?
  - Is all necessary data actually recorded?
  - Who reports what and when?
- Lack of monitoring infrastructure/tools
- Laboratories for calibrating/repairing tools not always available or too costly
- Electronic/systematic tools not planned well

# Why we were in need of an MRV Pilot & capacity building?

## *Problems encountered in MRV systems*

- Quality assurance and control systems are not in place
- Missing data due to technical problems, loss of staff members, etc.
- Country-specific data (e.g. emission factors) not always available
- Double counting



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**Thank you for listening.....**