



# Digital Technologies in the Implementation of the State Climate Policy of the Kyrgyz Republic

Integration of Digital Solutions for Climate Change Monitoring, Management, and Adaptation in the Mountain Regions of Central Asia

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# Kyrgyzstan: High Vulnerability to Climate Change



**94%**

Territory - mountains  
High dependence on  
water resources

**Critical**



**+ 1.2°C**

Temperature rise above  
global average (+0.6°C)

**Higher norms**



**-16%**

Glacier retreat  
(glacier area)

**Critical**



**~200**

Emergencies per year  
(mudflows, floods, landslides)

**Critical**



**<0.034%**

Contribution to global  
GHG emissions

**Minimum**

Despite its low contribution to global greenhouse gas emissions (<0.034%), due to its geography, Kyrgyzstan is one of the most vulnerable countries to the impacts of climate change

# National Climate Policy



## Concept of Environmental Security of the Kyrgyz Republic until 2040 (CES)

approved by Presidential Decree No. 105 of March 27, 2025



## Concept for Achieving Carbon Neutrality by 2050 (CACN)

approved by Resolution of the Cabinet of Ministers of the Kyrgyz Republic No. 397 of July 3, 2025



## NAP National Adaptation Plan (NAP)

has been developed



## Climate financing

GCF, GEF, Loss and Damage Fund, Climate Club



## NDC 3.0

The third Nationally Determined Contribution was developed and submitted to the UNFCCC Secretariat in 2025



## Biennial Transparency Report (BTR) 1

The first Biennial Transparency Report was developed and submitted to the UNFCCC Secretariat in 2025



## Country Program

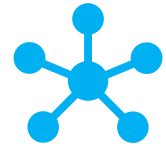
Country cooperation program between the Kyrgyz Republic and the GCF contains a portfolio of 6 project initiatives



## Law of the Kyrgyz Republic on Climate Activities

The concept of the draft Law of the Kyrgyz Republic on Climate has been approved by the relevant committee of the Jogorku Kenesh (Parliament)

# Key Barriers to Implementation



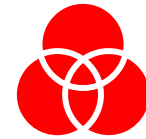
## Lack of a unified system

There is no unified system for monitoring and accounting of GHG emissions



## Data fragmentation

Data is fragmented across sectors and agencies



## Insufficient integration

Limited integration of climate aspects



## Dependence on funding

Dependence on external financing



## Low awareness

Lack of awareness among businesses and the public

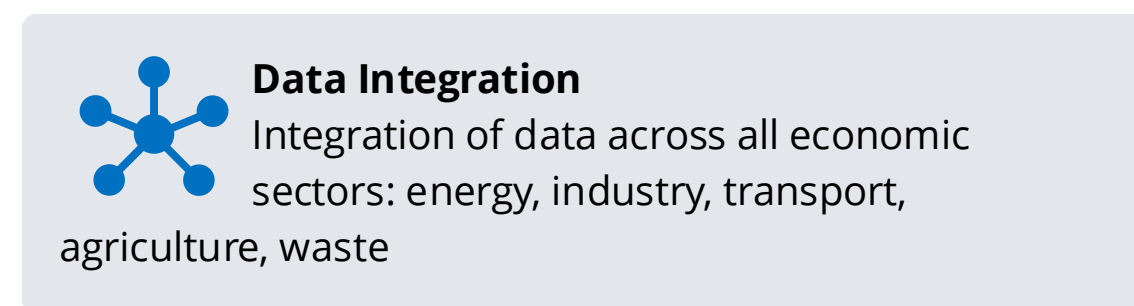
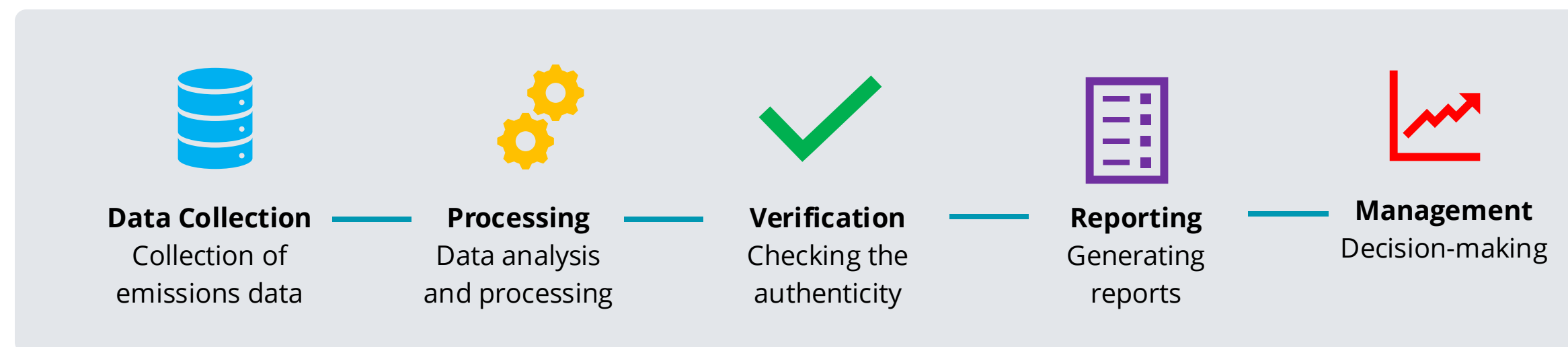
# MRV as the Foundation of Digital Climate Infrastructure

## Measurement, Reporting and Verification (MRV)

National Accounting System

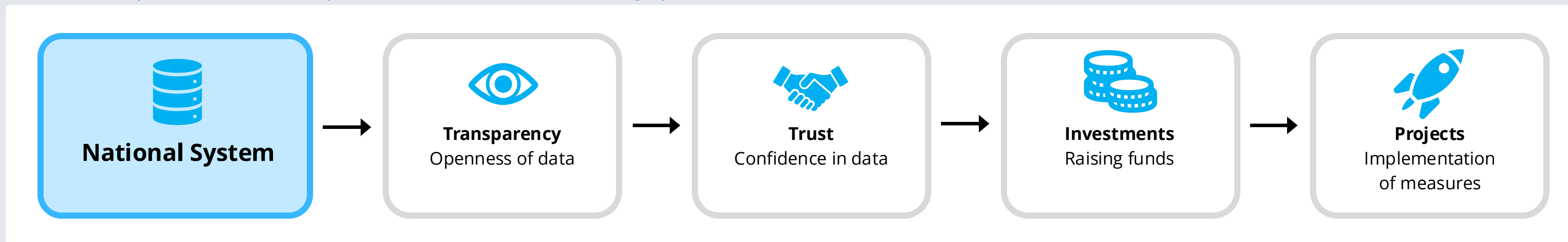
### Legal Framework

Regulations on the National System for GHG Inventory, Monitoring, Reporting, Verification and Carbon Units Handling approved by Resolution of the Cabinet of Ministers of the Kyrgyz Republic No. 133 of February 24, 2026



# Role of MRV in Climate Policy Implementation

Impact chain and key functions of the monitoring system



## Role of the system:



### Tracking progress

Monitoring implementation of NDCs and climate measures



### International reporting

Preparation of BTRs and National Communications



### Carbon market

Foundation for Article 6 of the Paris Agreement



### Climate finance

Attracting investments into climate projects

# Other Digital Climate Solutions



## Early Risk Warning

Meteo/hydro sensors, GIS

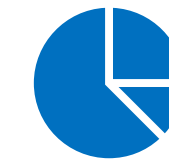
Early warning system for climate risks using meteorological and hydrological sensors, GIS technologies, and data analysis.



## Smart Agriculture

Sensors, precision technologies

Smart agriculture technologies using sensors and precision technologies to optimize production.



## Climate Analytics

Portals, models, APIs

Use of climate data and analytics through specialized portals, models, and APIs for decision-making.

# Conclusion

**1**

## **Systematic Policy**

Kyrgyzstan is developing a systematic climate policy

**2**

## **Digital Technologies**

Key implementation tool

**3**

## **MRV System**

The core of transparency and trust

**4**

## **Carbon market**

Requires high-quality data

**5**

## **International cooperation**

Openness to cooperation

**THANK YOU!**

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