



Updates of Water Environment Governance in Viet Nam

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The 16th WEPA Annual Meeting (online)
2 March 2021

Facts and statistics of water quality

Table No 1: Water quality to be calculated using WQI according to Decision 879/QĐ-TCMT, 2011 by Viet Nam Environment Administration are shown in values from 0-100

WQI value	Explanation	Color code
91 - 100	Good for drinking water supply	Blue
76 - 90	Good for drinking water supply with special treatment options	Green
51 - 75	Good for agricultural activities	Yellow
26 - 50	Good for waterway transportation	Orange
0 - 25	Heavily polluted water needs treatment before usage	Red

Facts and statistics of water quality

WQI

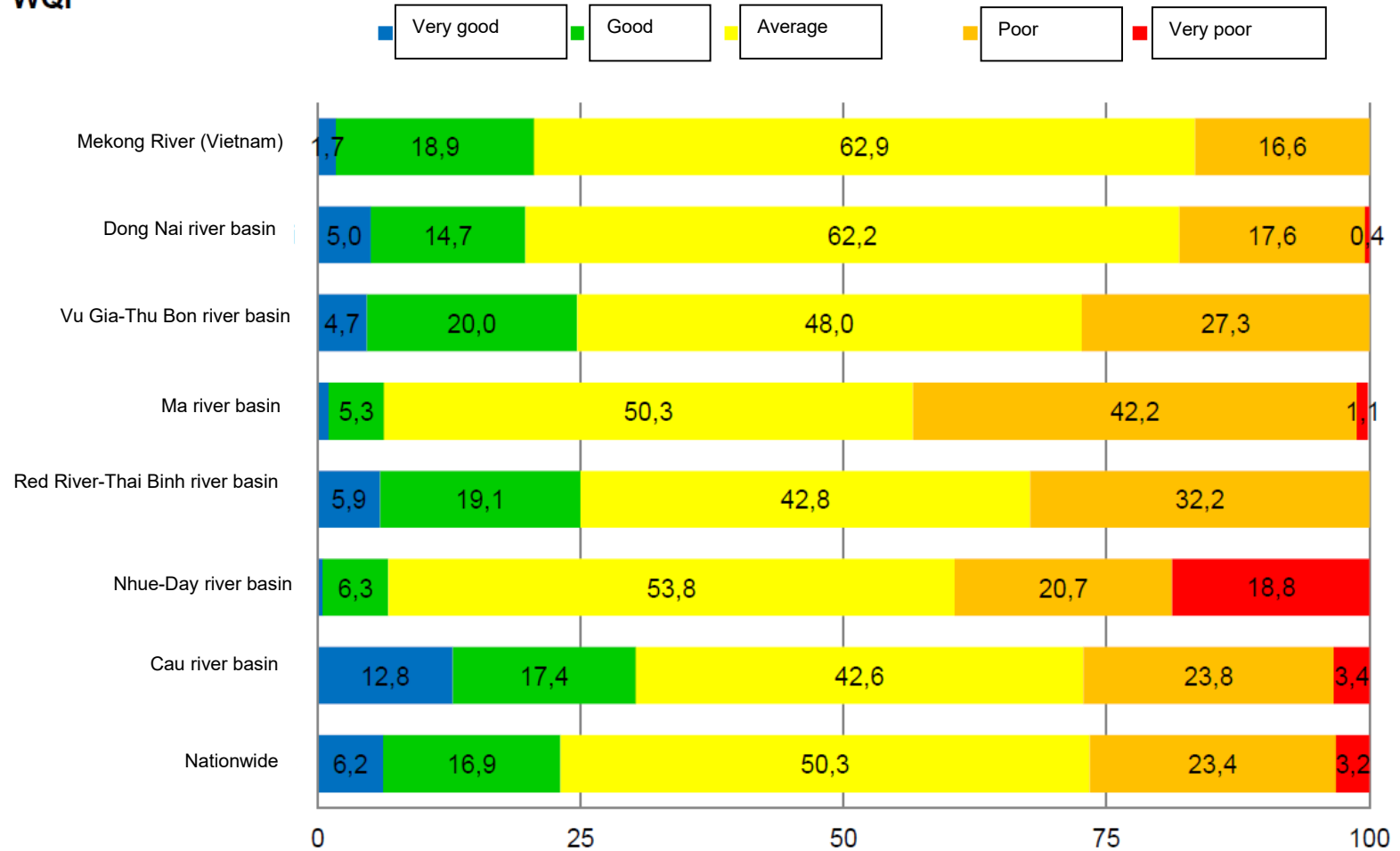


Chart No 1: WQI values for 7 main river basins in Viet Nam from 2014-2018

Facts and statistics of domestic wastewater management

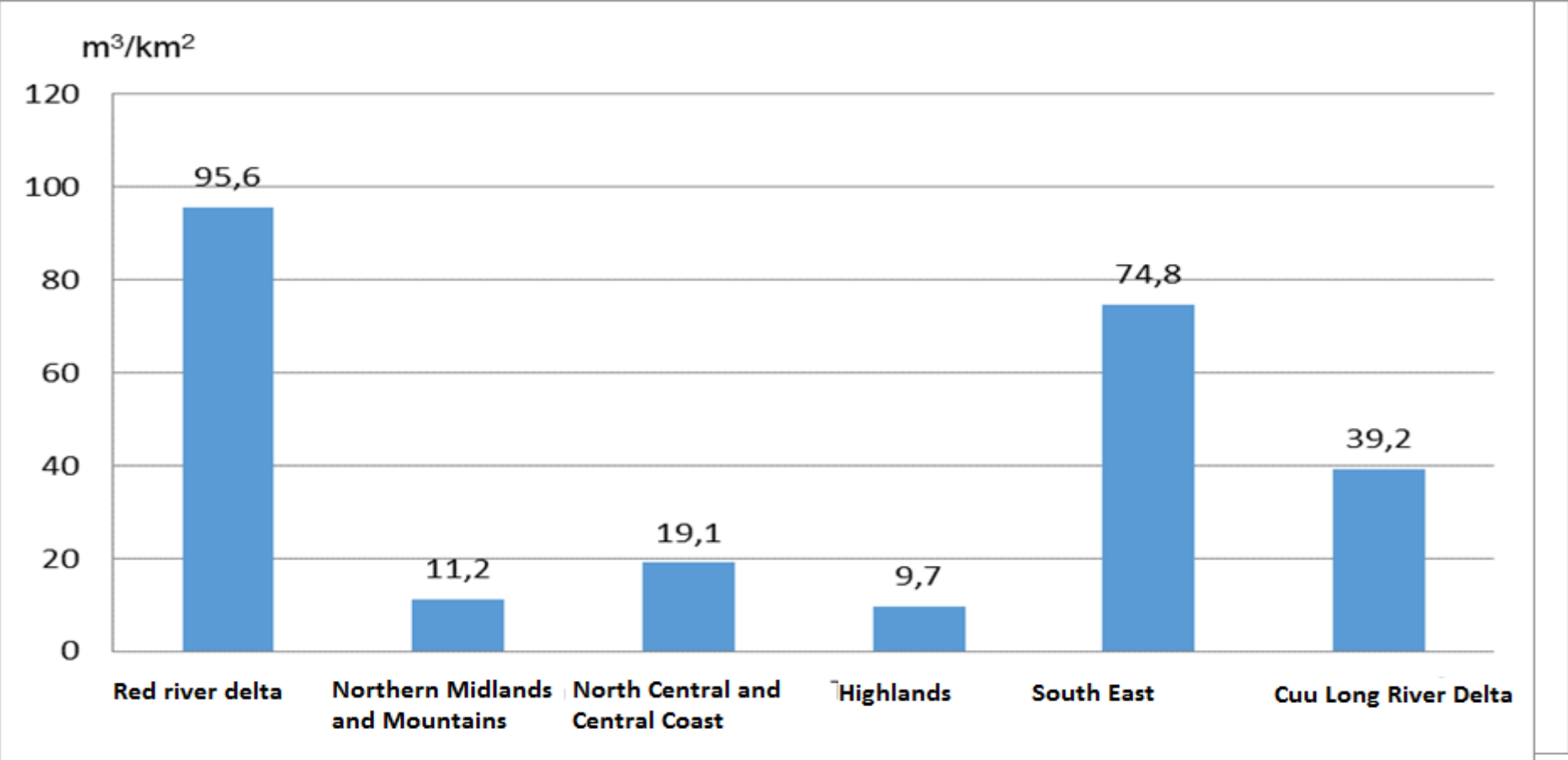


Chart No 2: Generation of domestic waste water in 6 regions in Viet Nam

Facts and statistics of domestic wastewater management

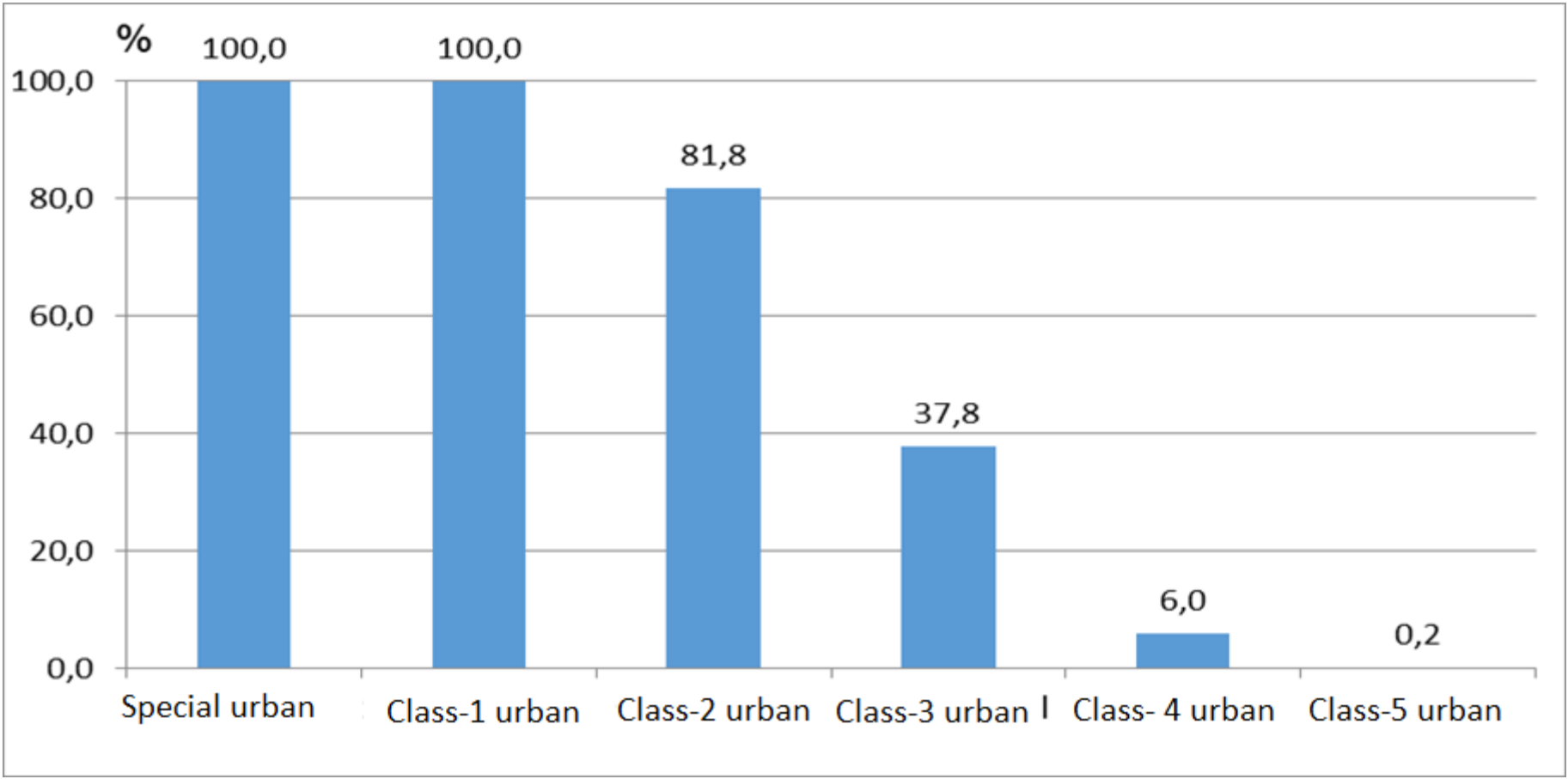


Chart No 3: Ratio of standard waste water treatment plant in 6 types of cities in Viet Nam

Facts and statistics of Industrial wastewater management

Region	Province	Volume (m ³ /day)
Red River Delta	Ha Noi	75,000
	Bac Giang	51,000
	Ninh Binh	13,000
	Bac Ninh	65,000
Northern Central and Coastal Central	Nghe An	26,578
	Thanh Hoa	2,800
	Khanh Hoa	10,000
South Eastern Delta	Binh Duong	136,700
	Ho Chi Minh city	143,701
	Ba Ria-Vung Tau	56,880
Mekong Delta	Dong Thap	12,477

Table No 2: Generation of industrial waste water in several provinces in Viet Nam

Facts and statistics of Industrial wastewater management

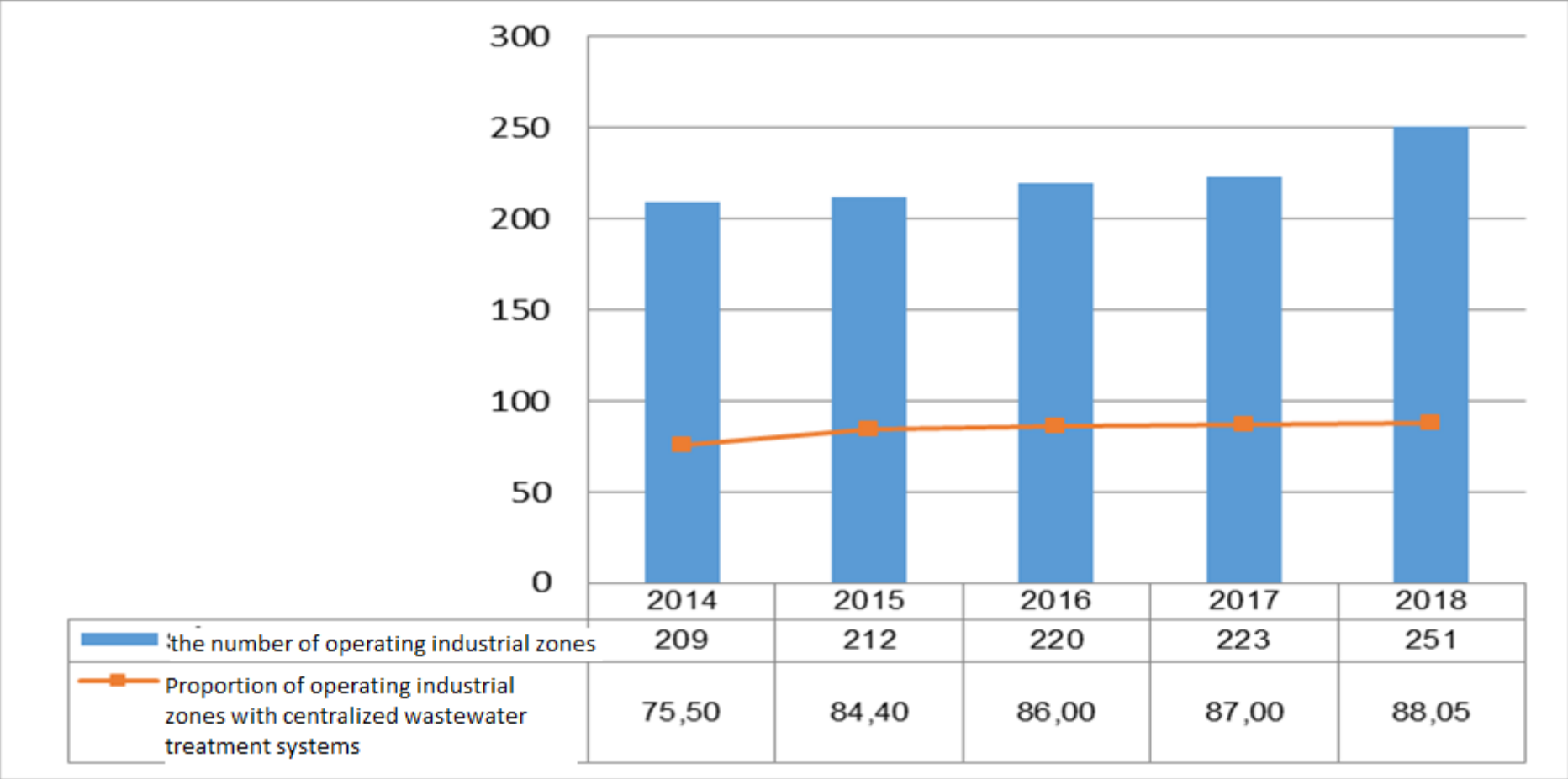


Chart No 4: Percentage of waste water treatment plants in industrial parks in Viet Nam

Legislative framework for water environmental governance

LAW ON ENV. PROTECTION 2020

15 chapters, 171 articles

1. Water quality management and control of discharge to the water environment

2. Management of wastewater

3. Supportive tools to management of water environment

LAW ON WATER RESOURCES 2012

1. Prevention of water pollution, degradation and shortage

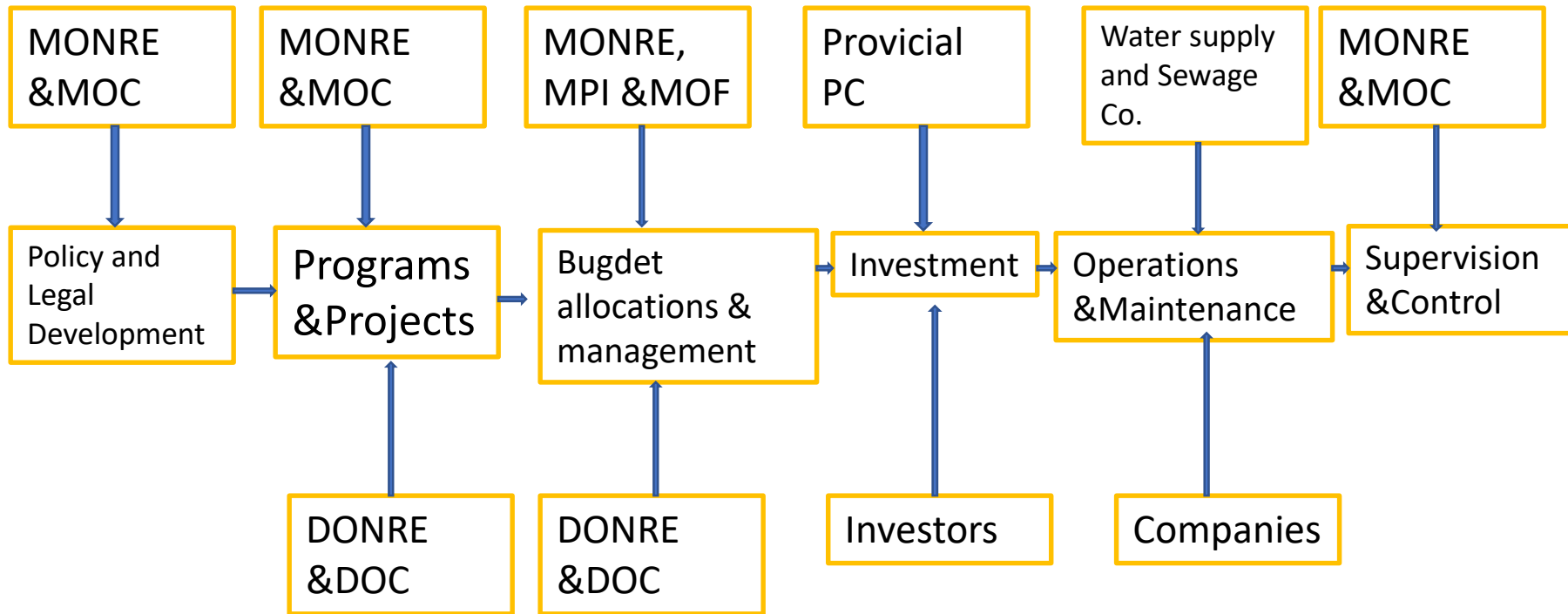
2. Monitoring of water resources

3. Water resources protection corridor

Legislative framework for water environmental governance

- Set of National Technical Regulations (QCVN): 01 QCVN for surface water quality; 12 QCVN for waste water; 03 QCVN for waste water applied to the Capital area:
 - QCVN 08-MT:2015/BTNMT for surface water quality
 - QCVN 09-MT:2015/BTNMT for Groundwater quality standard
 - QCVN 10-MT:2015/BTNMT for Coastal water quality standard
 - QCVN 14:2008/BTNMT for domestic waste water
 - QCVN 25:2010/BTNMT for waste water from landfill
 - QCVN 28:2010/BTNMT for hospital and medical waste water
 - QCVN 29:2010/BTNMT for waste water from oil and gasoline facility
 - QCVN 40:2011/BTNMT for industrial waste water
 - QCVN 01-MT:2015/BTNMT for waste water from pretreatment of natural rubber
 - QCVN 11-MT:2015/BTNMT for waste water from seafood processing
 - QCVN 12-MT:2015/BTNMT for waste water from paper and pulp industry
 - QCVN 60-MT:2015/BTNMT for waste water from alcohol fuel processing
 - QCVN 62-MT:2015/BTNMT for waste water from foundry
 - QCVN 52-MT:2017/BTNMT for waste water from steel manufacturing
 - QCTĐHN 02:2014/BTNMT for industrial waste water in Ha Noi area
 - QCTĐHN 04:2014 for waste water from textile industry in Ha Noi area
 - QCTĐHN 05:2014 for waste water from paper and pulp industry in Ha Noi area

Institutional framework for water environmental governance



Water quality monitoring framework

- Legal framework for monitoring:
 - Decree 127/2014/ND-CP, 2014 providing regulation on conditions and requirements of monitoring services
 - Decree 38/2015/ND-CP on the management of waste and secondary materials
- Monitoring activities
 - MONRE maintaining annual monitoring programs for surface water at 360 locations with frequency of 4-5 round per year; Line ministries monitor at 100 locations in urban and industrial areas with frequency of 3-6 round per year.
 - Provincial DONREs maintaining annual monitoring programs for surface water at 5 – 30 locations with frequency of 2-6 round per year varies by provinces.
 - There are 23 central government-operated automatic monitoring station and 80 provincial government-operated stations.
 - There are 420 automatic monitoring stations operated by industry

Enforcement instruments for water environment management

- Legal framework for inspection:
 - Decree 155/2016/ND-CP on the administrative penalties in the field of environmental protection
 - Decree 142/2013/ND-CP on the administrative penalties in the field of water resources and minerals
- Enforcement activities
 - 2014 – 2018, MONRE has implemented inspection at more than 3,000 entities. 1,400 entities among those had violations and paid the penalties equivalent to 200 bil. VND.
 - Provincial DONREs also organised about 3,000 inspections at 10,000 entities including companies, industrial parks, 4,100 entities among those got the administrative penalties.

Future targets/plans, issues and challenges of water environment governance

- 1. Review Law on Environmental Protection and under-law legal documents**
- 2. Strengthening the capacity of the institutional framework to avoid overlapping areas in water governance at the central and local level**
- 3. Issue policy and regulation to promote the development of environmental technology for waste water treatment**
- 4. Development of policies that promote cooperation between government agencies, private sectors and civil society; policies to promote privatization and investment to wastewater treatment and management**

Thank you for your attention!