

SESSION 3 : WATER AND WASTE POLLUTION CONTROL

THE CURRENT SITUATION OF WATER ENVIRONMENT AND WASTE MANAGEMENT IN MALAYSIA

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MALAYSIA

is a nation
blessed
with over
3,000
millimetres
of rainfall
each year

recent years...



**TREATMENT PLANTS
SHUT DOWN**



RIVERS RUN DRY

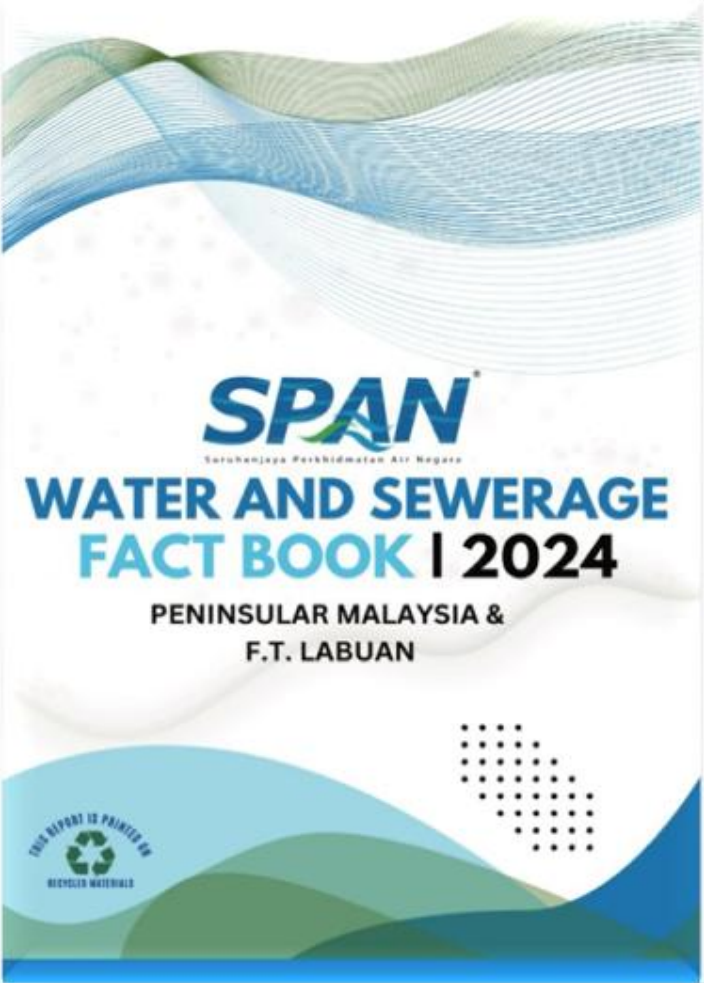


FLOODING

having water
does not mean
having security



WATER SUPPLY QUICK FACTS



RAW WATER
17,299 MLD

River (80.2%) | Dam (17.5%) | Others (2.3%)



PUBLIC WATER OPERATOR
12



NUMBER OF ACCOUNTS
8.36 million



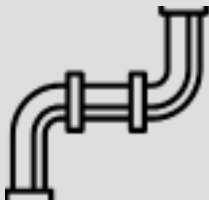
WATER TREATMENT PLANT
350
18,998 MLD Design Capacity
16,167 MLD Water Demand



POPULATION SERVED
97.0 %
Urban = 97.0 % | Rural = 97.0 %



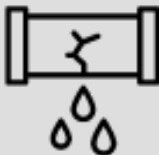
DOMESTIC WATER CONSUMPTION
225
liter/capita/day



PIPE LENGTH
140,172 KM



WATER QUALITY
4/5
E. Coli, Free Chlorine, Combined
E. Coli and Free Chlorine , Turbidity and Aluminum



NON-REVENUE WATER
34.3%
5,541 MLD



RESERVE MARGIN
14.9%

SEWERAGE SECTOR QUICK FACTS



SEWAGE TREATMENT PLANT (Public)



7,794

Multipoint (7,738) | Regional (56)

SEWAGE TREATMENT PLANT (Private)



5,043

CONNECTED COVERAGE



75%

40 mil PE

SEWER PIPES LENGTH



22,564 km

NETWORK PUMPING STATION



1,542

SEPTIC TANKS



1.38 mil

Individual (1,373,619) | Communal (3,457)
Total of 7.6 mil PE

TRADITIONAL FACILITY



1.14 mil

5.68 mil PE

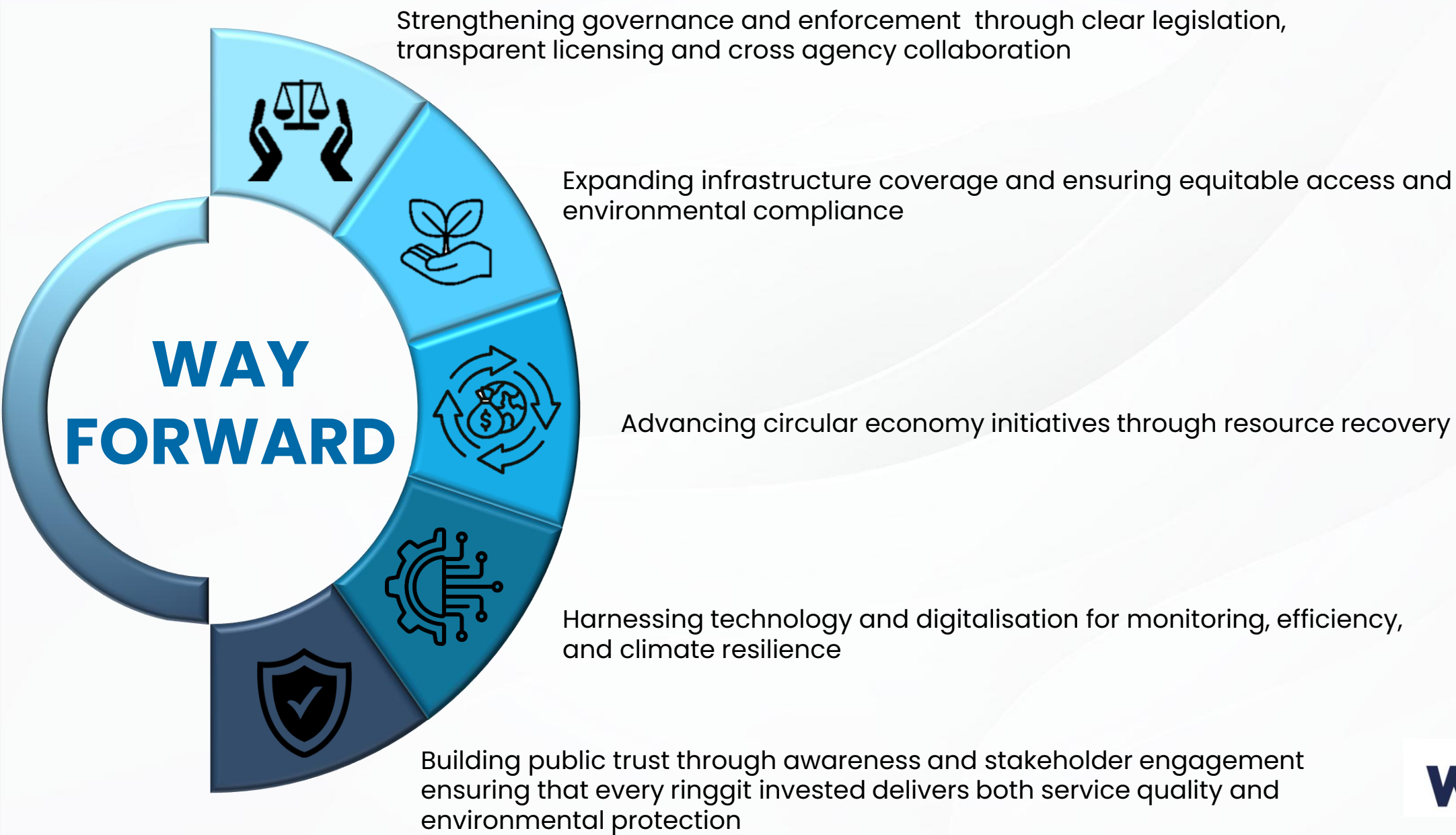
EFFLUENT COMPLIANCE



98.0%

Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Suspended (SS), Ammoniacal Nitrogen (AMN), Total Nitrogen (TN), Total Phosphorus (TP), Oil and Grease (O&G)

Note : PE is Population Equivalent



thankyou



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