







WATER METRO INTEGRATION WITH METRO RAIL



LOKNATH BEHERA

MANAGING DIRECTOR

KMRL / KWML



INTEGRATED WATER TRANSPORT







One network!



SEAMLESS
TRANSPORTATION
FOR KOCHI AUTO



One timetable!











WHAT IS WATER METRO?

- **❖** Integrated urban water transport
- ***** Electric hybrid boats
- Terminals with passenger amenities
- **❖** Disabled friendly Floating Pontoons
- **❖** Most modern ITMS, OCC
- **❖** AFC and PCS
- **A** Reliability and safety





KOCHI WATER METRO



34,000 daily ridership



15 routes, 76 route km



78 boats & 38 terminals



8-15 minute headway



8-10 knots speed

De-Jure Owner : GoK
Funding Agency : KfW
Executing Agency : KMRL
O & M : KWML

Total Project Cost: 1136 Cr



WATER METRO BOAT





COMMONALITIES WITH METRO RAIL

- √ Fixed headway
- √ Timely service
- ✓ Automatic Fare Collection
- ✓ Centralised Control -OCC
- ✓ Similar interior
- ✓ Same ticket can be used
- ✓ Feeder services and NMT







INTEROPERABLE FARE MEDIA



RPT Pass which can be used in Metro and Water Metro



Open Loop Travel Card. Can be used in Metro, Water Metro, Feeder Bus and Feeder Auto



Kochi 1 Mobile QR Ticket



MULTI MODAL INTEGRATION

INTER MODAL HUBS PLANNED BY WATER METRO

- Metro Bus station Water transport 4 Locations
- Bus station Water Metro 12Nos
- Integration with NMT Walkways, Elevated paths, Cycle tracks





TYPICAL INTEGRATION AT VYTILA



WATER METRO INTEGRATION

Metro Rail - Water Metro - Road

- ✓ Vytila
- ✓ Infopark
- ✓ Kakkanad
- ✓ High Court

12 places are near to a Bus stand

Other locations are connected using feeder buses and autorickshaws



16th conference & Expo 2023



