

Panel on Development
196WC – Implementation of Water Intelligent Network (WIN)

Follow-up Issues of the Meeting held on 23 January 2018

At the meeting on 23 January 2018, the Panel on Development discussed the LC Paper No. CB(1)493/17-18(03) on the proposal to upgrade part of **196WC** “Implementation of Water Intelligent Network (WIN)” to Category A at an estimated cost of \$655.4 million in money-of-the-day prices to implement the second stage of WIN. The Administration was requested to provide information on (a) the estimated benefits of the implementation of the WIN, in terms of the annual cost savings arising from the reduction in the public mains leakage rate, or in other words, the cost of the water lost otherwise; and (b) the plans showing the distribution of about 2 000 District Metering Areas throughout the territory. This note sets out our response to the request.

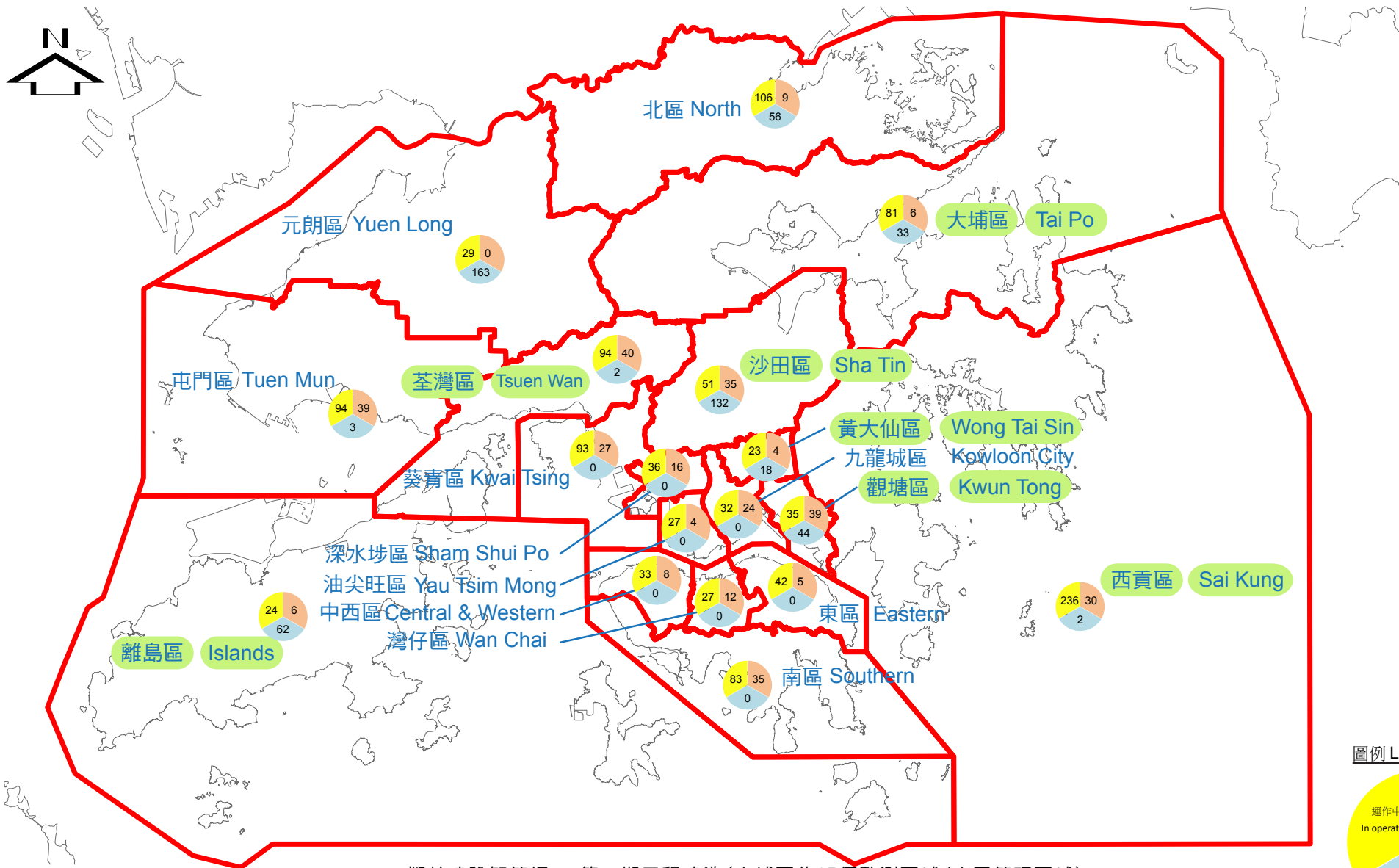
(a) Estimated benefits of the implementation of the WIN


2. WIN is an effective, efficient and a sustainable management system that helps continuous monitoring the performance of the water supply networks, thereby enabling early identification of the problematic areas for effective follow up measures and determining the priority of the corresponding works. Follow up measures include proactive leak detection and leakage control, pressure management to reduce leakage, planned repair of leaks to avoid them becoming bursts and causing significant impact to the public and economic activities, replacement or rehabilitation of the concerned water mains based on the conditions of the water mains in the District Metering Areas. While WIN is being established progressively, we have been using a number of established District Metering Areas and Pressure Management Areas to effect many water leakage reduction cases. This shows implementation of WIN would drive the optimal and effective use of resources. Moreover, as most of the follow up measures are small-scale repair of leaks only, compared with the replacement and rehabilitation of water mains, WIN is more cost effective and causes much smaller impact to the public and economic activities. With full implementation of WIN and other measures, we target to reduce leakage rate in government water mains from about 15.2% in 2017 to below 10% by 2030.

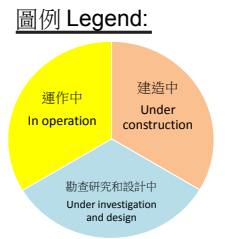
(b) Plans showing the approximate number of District Metering Areas and Pressure Management Areas in each District Council Area.

3. A layout is attached.

**Development Bureau
Water Supplies Department
March 2018**



 擬於建設智管網——第二期工程建造(大埔區佔15個監測區域/水壓管理區域)
 Proposed construction under Implementation of Water Intelligent Network - Stage 2
 (Tai Po District with 15 DMAs / PMAs)



各個區議會範圍的監測區域/水壓管理區域大約數目(截至2018年2月1日)
 Number of District Metering Areas (DMAs) / Pressure Management Areas (PMAs)
 in District Council Areas (as at 1 February 2018)