

## **Decision Making Support System (DMSS) for Water Resources & Flood Mitigation**

Mohd Shaiful Ridwan Radzi

PSI INCONTROL SDN BHD, SALES & MARKETING, SUNGAI BULOH, Malaysia (shaiful@psi-incontrol.com)

Flooding is a significant issue in low-lying parts of the catchment in Malaysia, leading to flood damage & disruption in major storm events. Recognizing the potential to reduce damage, the decision making support system (DMSS) has been developed to optimize the operation of the water resources assets to both maximize the effectiveness of flood control & maximize the availability of water for public supply & irrigation demand under drought conditions. DMSS functions as to reduce human error during critical times. The tools optimized rules for barrage, sluice gates, pumping station & Dams. Its provide priority for flood zone protection & fuzzy logic supervisory control for all equipment. At the end of the paper presentation, the reader should be able to understand the logic using for this condition, the method using to handle different criteria, the calculation to set & handle goals.