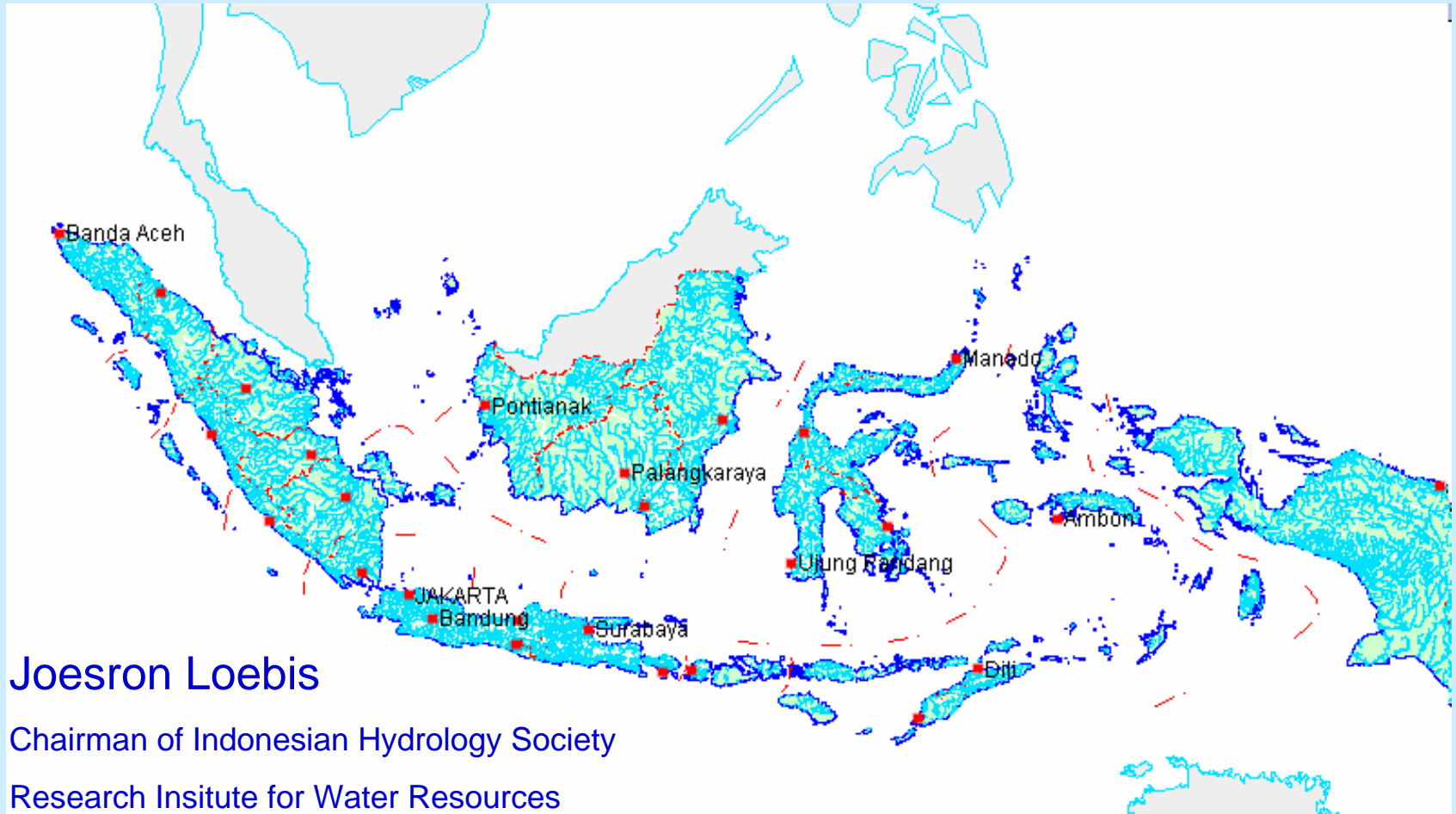


GIS Application for Flood Assessment and Management.

Case Study Indonesia



Joesron Loebis

Chairman of Indonesian Hydrology Society

Research Institute for Water Resources

Jl. Ir.H.Juanda 193, Bandung 40135,
Indonesia.

e-mail : joesron@melsa.net.id

BACKGROUND

Indonesia geographic position which lays on the monsoon climate zone has constantly caused annual flood during the rainy season; and nowadays even unexpectedly occurred as well during the dry season.

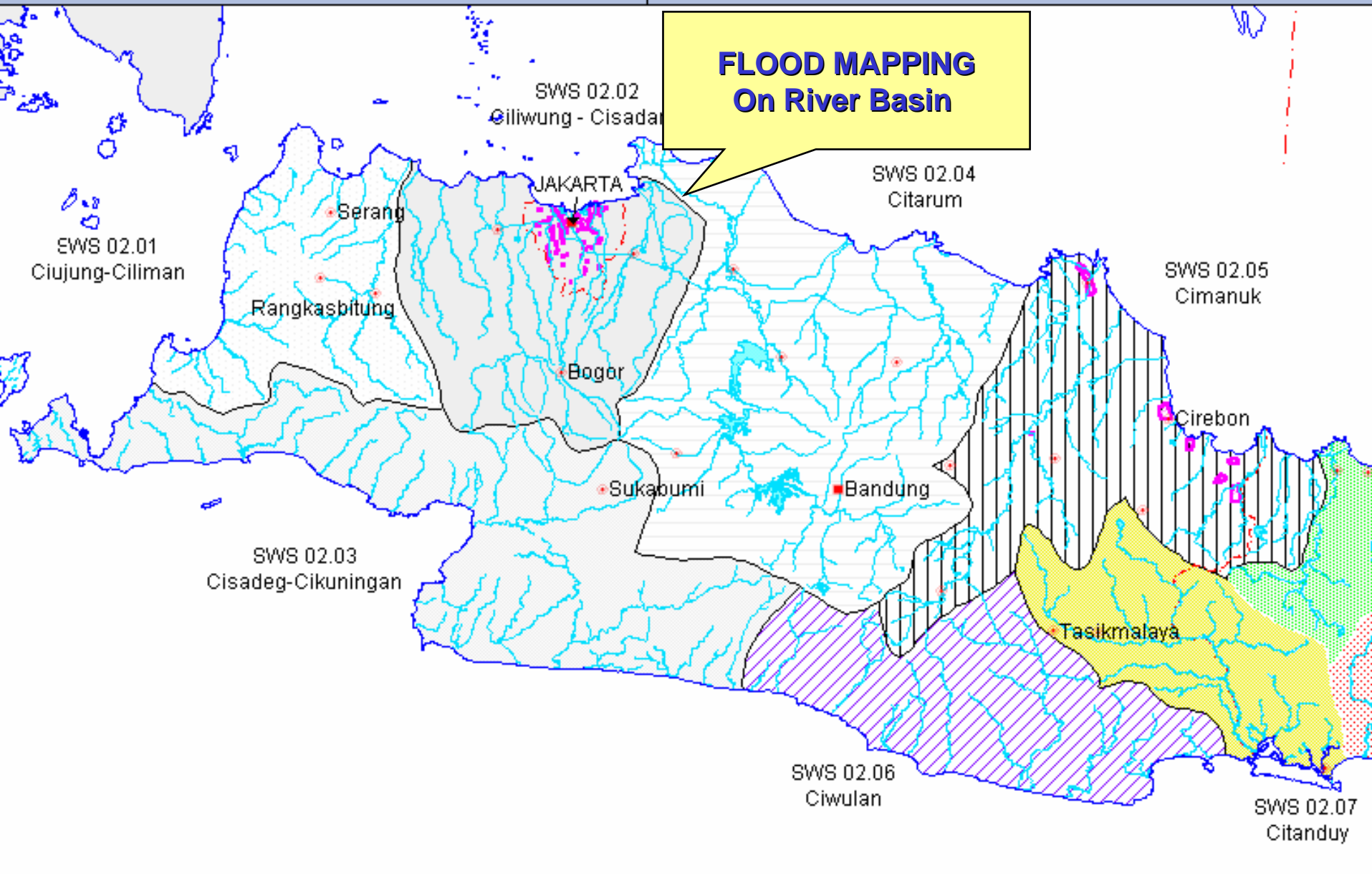
Later on, the frequency of this annual flood get increasing significantly due to the changes in land use and hydrological cyclus

Regarding to that, a comprehensive information system is required to query, process and inventory the flood occurrence data to be further used as strategic information for decision-maker to take right action in managing the flood.

ACTIVITIES

Indonesia has been implementing GIS to build hydrological database, processing the data and information in order to prioritize the problem handlings occurred from the flood disaster.

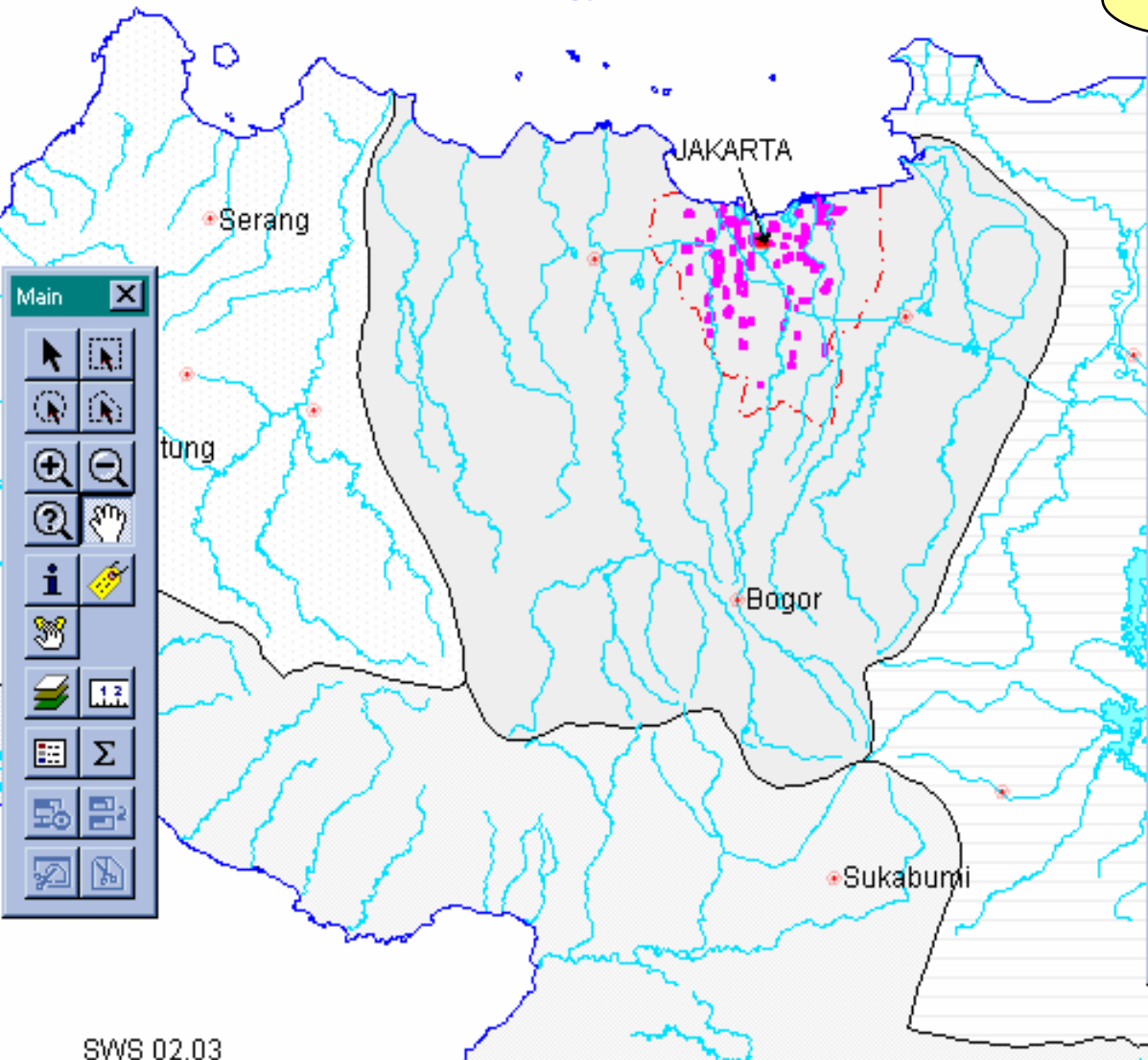
One of the products that can be gained from the GIS implementation is the ready-to-use all hydrological information to be further disseminate and communicated among all related institutions





SWS 02.02
Ciliwung - Cisadane

Flood Area Information



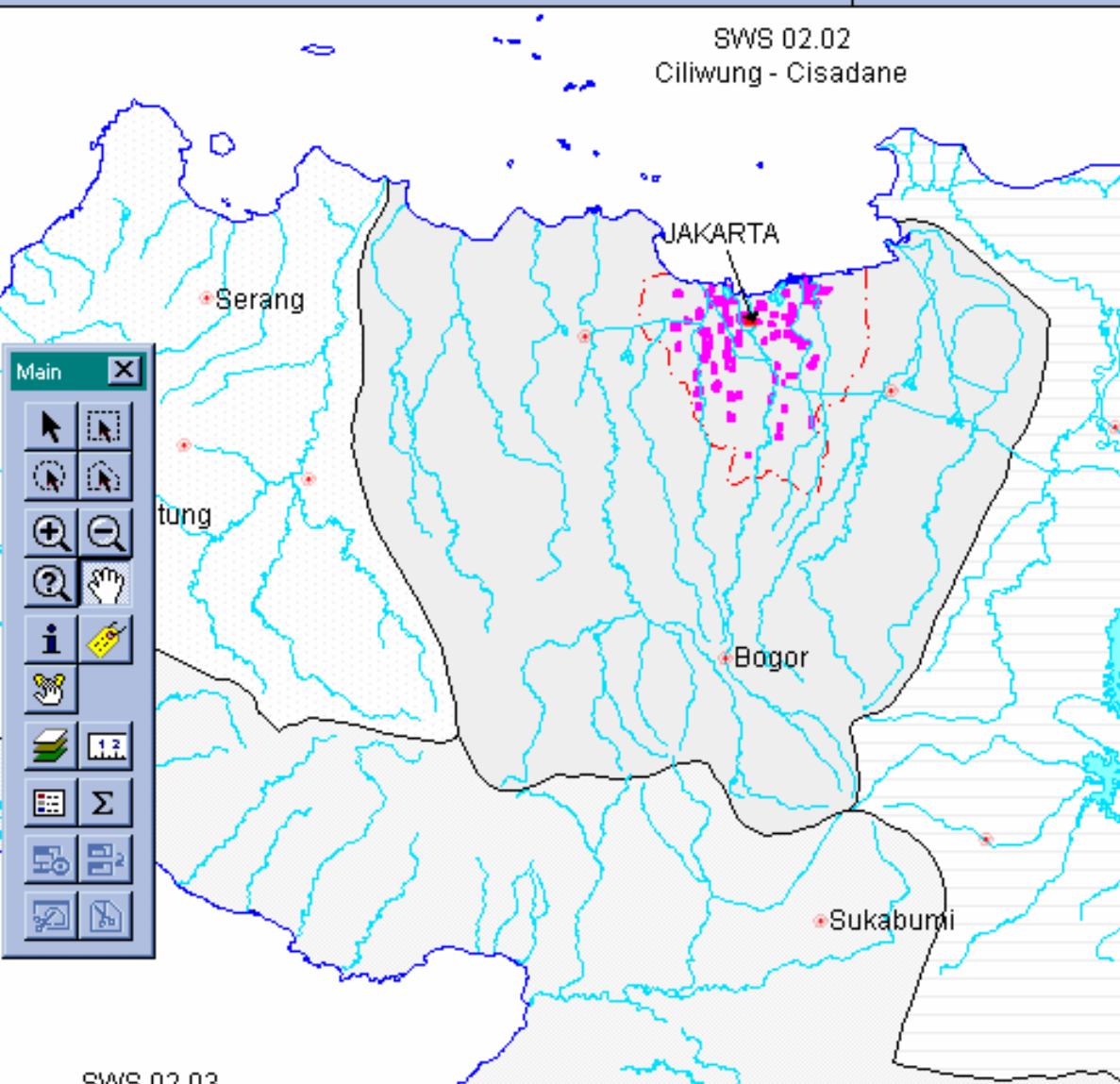
Info Tool	
SWS:	Cisadane-Ciliwung
Nomor_SWS:	2.02
Tahun_Data:	1996-1997
Total_luas_Genangan:	0.00
Korban_Jiwa_Luka:	0.00
Mengungsi_Jiwa:	0.00
Kawasan_Pertanian_Ha:	0.00
Kawasan_Pemukiman_Ha:	0.00
Kawasan_Pariwisata_Ha:	0.00
Kawasan_Industri_Ha:	0.00
Sarana_Transportasi_Km:	0.00
Sarana_Irigasi:	0
Sarana_Penanggulangan_Banjir:	0
Sarana_Penyedia_Air_Baku:	0
Real_Time_Data:	0
Historical_Data_Rp:	0
Prioritas_Pengend_Banjir:	Banjir Nasional

SWS 02.03

Zoom: 159.5 mi

Editing: Data_Kebijakan_SWS

<< >> List Data_Kebijakan_SWS



Main

Technical Information

..._SWS:	02.02
Tahun_Data:	1996-1997
Total_Juas_Genangan:	0.00
Dalam_Genangan_m:	0.00
Lama_Genangan_Jam:	0.00
Frekuensi_Banjir:	0.00
Korban_Jiwa:	0.00
Mengungsi_Jiwa:	0.00
Kerugian_Rumah:	0.00
Kerugian_Harta_Benda:	0.00
Kawasan_Pertanian_Ha:	0
Kawasan_Pemukiman_Ha:	0
Kawasan_Wisata_Ha:	0
Kawasan_Industri_Ha:	0
Bandara_Udara:	0
Jalan_Nas_Prop_Lokal:	0
Stasiun_Bus_KA:	0
Sarana_Irigasi:	0
Sarana_Penangulangan_Banjir:	0
Sarana_Penyedia_Air_Baku:	0
Real_Time_Data:	0
Historical_Data:	0

<< >> List

Data_Teknis_SWS

SWS 02.03

Zoom: 159.5 mi Editing: Data_Kebijakan_SWS

The development of flood database information system, which covered data collection from all Indonesia's River Basin, will strongly support the decision-maker to make priority for managing flood risk.

The priorities are made in purpose of optimizing the allocation of financial and equipment as well the human resources

Kop Khun Khap