Communities at riverbanks

Of the total 82,190 villages/kelurahan in *Indonesia* 63,256 villages / kelurahans are located alongside rivers, and

21,065 villages/kelurahan (26% of total) have settlements on riverbanks (BPS 2015). Of these, 4,805 kelurahans have slums at riverbanks.

Some details:

- Surabaya 2,099 families on riverbanks [survey on seasonal migrants, July 2002]
- Jakarta 34,000 people on riverbanks [PU]
- *Yogyakarta* 90% of slums are on riverbanks (Arkom)
- *Banjarmasin* 23% of houses declared "kumuh" are on riverside areas.
- Palu 55% of kelurahan (urban wards) with slums are on rivers / coast
 - -- 26% of slum RTs (neighborhood units) are on a riverbank / coast.

Kampungs occupying riverbanks or above water : a tradition for generations.

Pontianak, sungai Kapuas & Landak

(Kampung Beting, sedang didampingi DJCK)







Decline of Environmental quality with density increase









Government not always uniform: Conflicting paradigms

A "buang air" paradigm O	r B "lestarikan air" paradigm
 How to drain. The riverbank should be clear Clear the Edge Concrete dams 	 How to retain water. Not only riverbanks: catchment areas, floodplains Redevelop the whole area Biodiversity
\rightarrow evict, relocate	→rearrange, land consolidation
BBWS / river authority, most local governments	a few local gov'ts like Banjarmasin, Min. of ATR, environmentalists

* Yogyakarta, Malang, Balikpapan, Palembang compromising.

This community set back their houses to 5 m from the riverbank and were awarded a certificate by the mayor.



Evicted in 2015

Quickly occupied by trucks

Temporary shelters along "10m building line"



Sungai Buntung riverside improvement (1) Karangwaru village, YOGYAKARTA, DIY

Upgrading of high density riverbanks settlements in Karang Waru-Yogyakarta

Karangwaru river was dirty and full of trash from surrounding settlements. With PLPBK program, Karangwaru residents rehabilitated riverside and built a communal sanitation system. Maintenance is managed by communities.









Biofill (communal septic tank)

Kali Winongo riverbank Kel. Ngampilan, YOGYAKARTA, DIY







Only an issue of setback?



(1) EVICTION, RELOCATION ... focus on strip / sempadan



Houses / part of houses inside the riverbank strip / sempadan sungai





Initial situation

(2) LAND CONSOLIDATION... considering neighborhood





LC : participatory redesign of parcels for efficiency, more open space, infrastructure

Some residents not participating

Communities can invite private firm in Land Consolidation scheme

Manggis shophouses, Samarinda (1985)

a fire destroyed substandard housing - partially shops. An NGO helped the community to set up a cooperative. Land was readjusted to allow for better infrastructure. A private firm rebuilt the complex, compensated with 5 years Build-Operate-Transfer agreement.

before fire



after reconstruction





- smaller shophouses, two story
- bigger units at main road
- traditional market
- pedestrianization & vendor (K5) stalls

2% of location collectively owned for K5 (kakilima) zone

LICITRA NIA

Platform for collaboration through the urban slums upgrading program



Multi-interpretation of Regulation on riverbank setback / sempadan sungai:

especially PERMEN-PUPR 28/2015 (= PP38/2011, includes annex on sempadan study).

- Par. 4: "Tanggul . . . merupakan bangunan penahan banjir yang terbuat dari timbunan tanah" (heaped earth?)
- Par. 5 (criteria sempadan): in urban areas, less than 3m if no tanggul (embankment) → 10 m sempadan . . . etc.
- Par. 13-14: The sempadan should be decreed by the Head of the Region – sesuai lingkup wewenangnya, berdasar kajian penetapan sempadan sungai.
- Par. 14: Kepala daerah (sesuai wewenangnya) membentuk Tim Kajian sempadan sungai. Lampiran 1 menetapkan tatacara kajian: *lingkup kajian, dokumen yang dihasilkan.*
 - * Catatan: baru sedikit daerah yang membentuk Tim Kajian. Belum jelas apakah Tim ini dapat mengubah sempadan di lapangan, dari PP dan PermenPUPR.
- Par. 15 & 26: bila terdapat bangunan, dapat ditetapkan status quo, untuk secara bertahap "mengembalikan" fungsi sungai.

