Introduction to GRP

Matthijs Bouw

founding principal One Architecture & Urbanism, Amsterdam/New York

Associate Professor of Practice, McHarg Center Fellow for Risk and Resilience, PennDesign, University of Pennsylvania

bouw@onearchitecture.nl

@matthijsbouw
Mangrove site (Nulatula)
Signing of MOU for restoration pilots
Participatory plantings, mangroves
Participatory plantings: beach forest and mangroves
Beach forest site (New Karvayan)
Existing site selection process

**Inputs**
- NL Master Plan recommendations
  - Expert knowledge
- Site Visits
  - Site Soil Samples
- Real Estate Records
  - Site Surveys
  - Permit Logs
- Detailed Site Surveys
  - Legal Records
  - Stakeholder Meetings

**Coastal Greenbelt Gaps**
Latitude and Longitude Coordinates
- 11° 16’ 16.52” N
- 12° 33’ 10.11” N
- 13° 21’ 17.53” N
- 14° 12’ 26.13” N
- 15° 49’ 26.22” N
- 16° 55’ 19.30” N
- 17° 11’ 16.16” N
- 18° 54’ 31.28” N
- 19° 28’ 15.10” N
- 20° 15’ 11.23” N
- 21° 47’ 14.31” N
- 22° 18’ 35.30” N
- 23° 22’ 12.23” N
- 24° 10’ 44.21” N
- 25° 33’ 56.10” N
- 26° 58’ 21.34” N
- 27° 56’ 12.29” N
- 28° 19’ 10.10” N

**Ecologic Verification**
Google Aerials and Field Notes
- 25 sitios

**Tenure Verification**
Ownership + Permits + Existing Projects
- 10 sitios

**Final Pilot Sites**
Meetings with Owners + Agencies
- 6 sitios
- 2 sitios
EXISTING INITIATIVES INISIATIF YANG ADA

1. Mangrove System
2. Flood Early Warning System (FEWS)
3. Urban Forestry System
4. Integrated Coastal Management (ICM)
5. Kamping Bahari
6. Livelihood Resilience Program
7. Drinking Water Supply System Masterplan
8. Design Masterplan of Water Resilience
9. Poly Bouncer Solar Cells Pilot
10. Wetland planning and sustainable management
11. Land management models, habitat
12. Integrated water resources and flood management project for Semarang
13. Bond Fund - Nusabali
14. Flood-Resistant Housing
15. West Semarang Drinking Water Supply System
16. Program Perumahan Dhuafa
17. Arang Bangun Air Pumping Pumping Plan (PAP)
18. Public Eel Sampling
19. Public Eel Fishing
20. Public Eel Fishing
21. West Semarang Drinking Water Supply System
22. Poly Bouncer Solar Cells
23. Poly Bouncer Solar Cells
24. Poly Bouncer Solar Cells
25. Poly Bouncer Solar Cells
26. Poly Bouncer Solar Cells
27. Poly Bouncer Solar Cells
28. Poly Bouncer Solar Cells
29. Poly Bouncer Solar Cells
30. Poly Bouncer Solar Cells

one resilient semarang

water(shed) as leverage