



UNIVERSITAS GADJAH MADA



Indonesian River Restoration Movement (IRRM) toward Education for Sustainable Development (EfSD)

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IRRM Network Members
(Administrator/Coordinator IRRM)

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Background and Problems of River Restoration Movement

We Had Healthy Rivers

Rivers were our
homes and
they were clean,
healthy and
wonderful



Our Rivers were Amazing.....



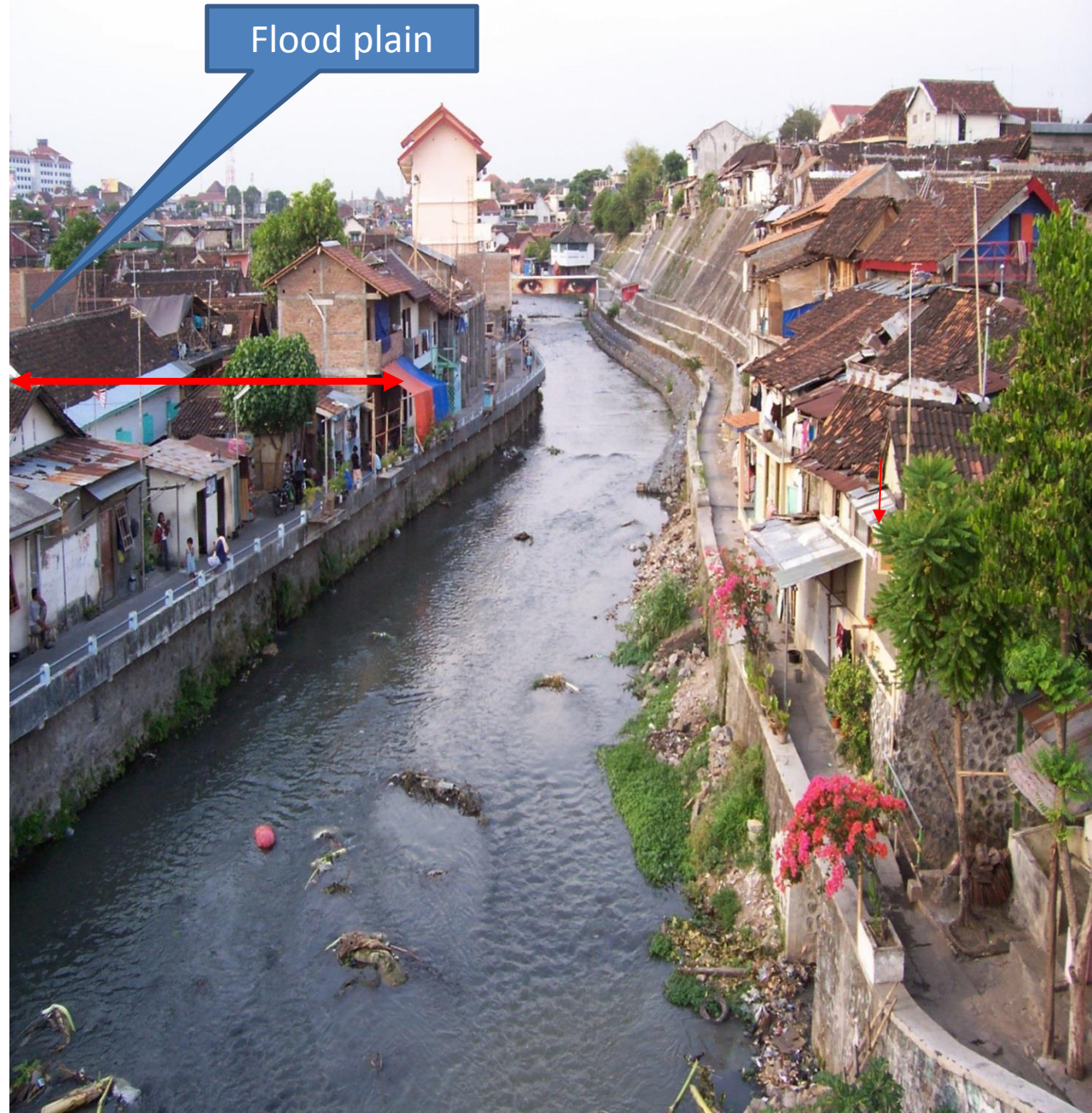
But,



Now :

Settlements
move Closer
and Closer
to the Rivers

Settlements Occupied the River Flood Plains and Rivers Change to Canals



People Treat Rivers as a Waste Disposal

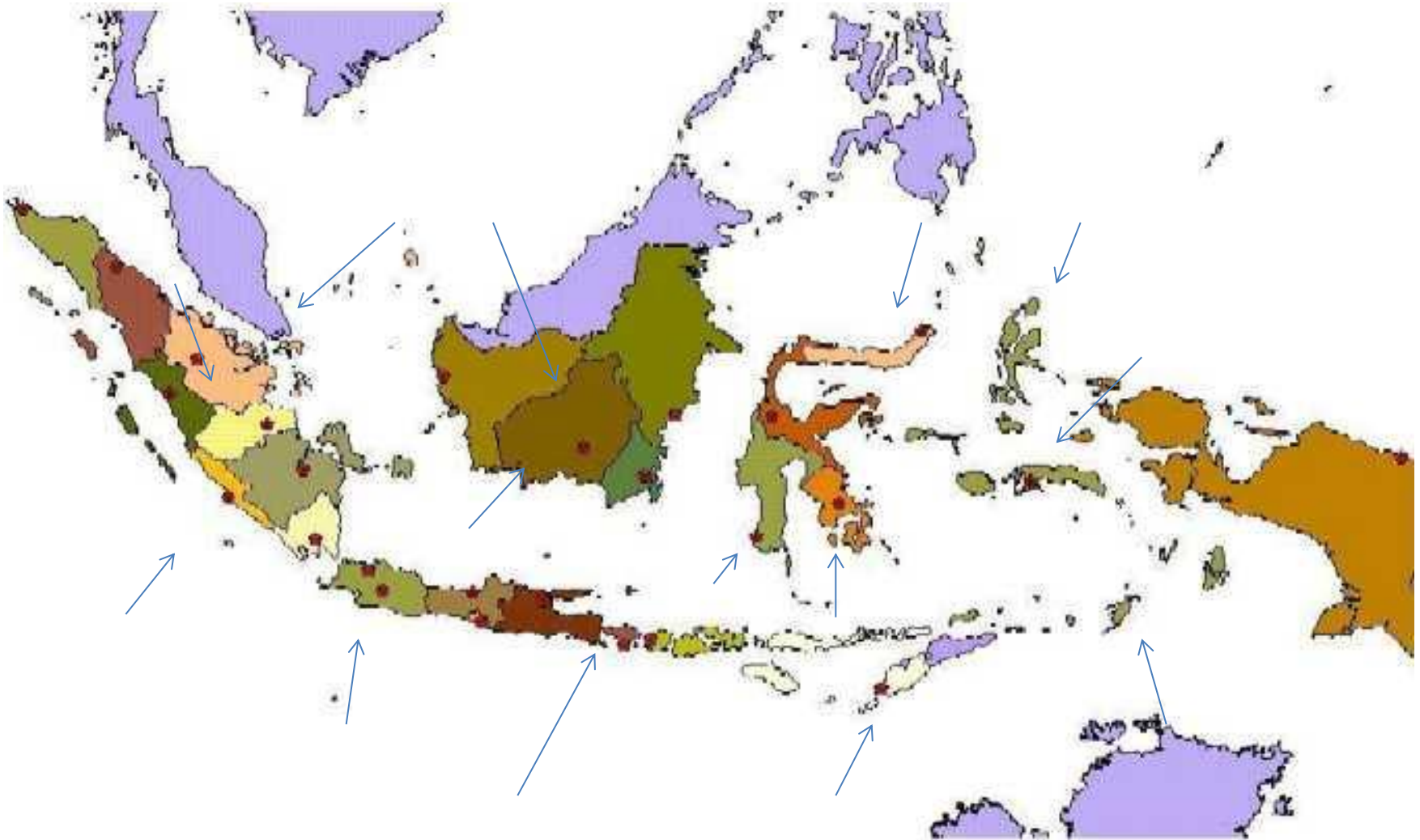


Panumpu, Makassar, Desember, 2004

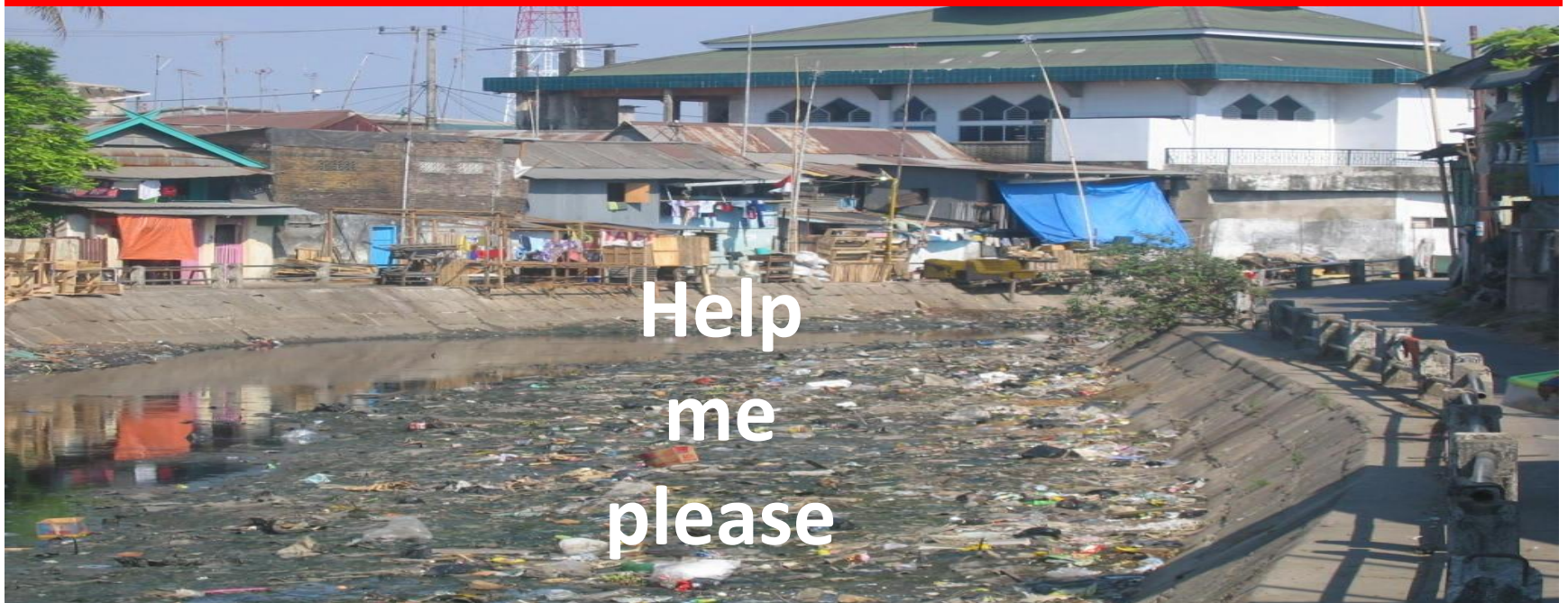
Damage of Catchment Areas Create Flood and Drought



The Problems of almost all Rivers in Indonesian Cities



We Need Solutions !!
Indonesian rivers really
need help...



Help
me
please

We Need an
“Unusual Way”,
We Need a
“Movement”

Way not government programs ?

1. We have a large number of rivers

2. Programs have less spirit and move slowly

Movement has never ending spirit, motivation, unlimited energy, easy to start and can grows fast.

The Spirit of Movement is to Learn, to Act and to Solve Problems Right Now

ENERGY for
IRRM

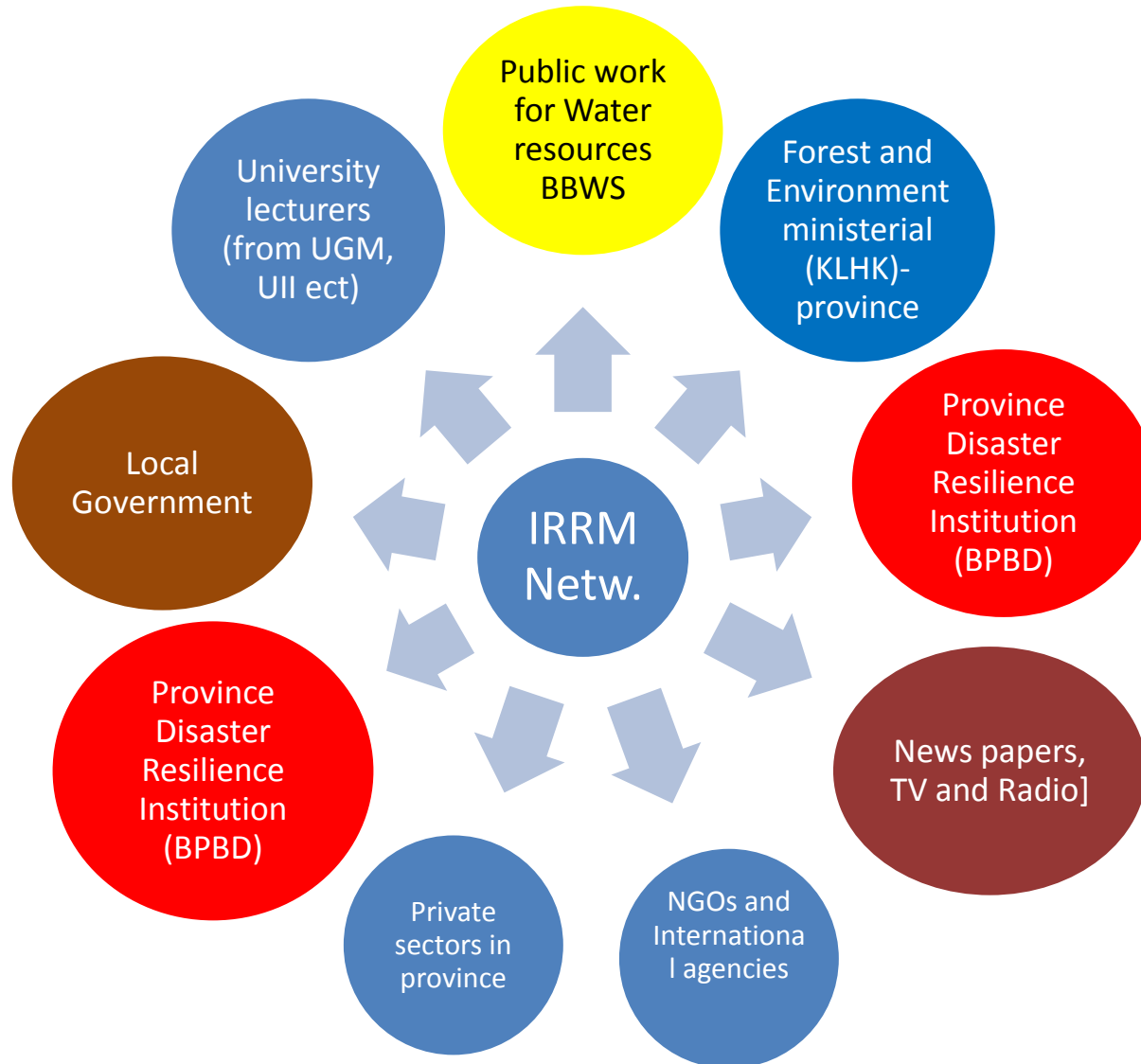


How to Run the Movement..?

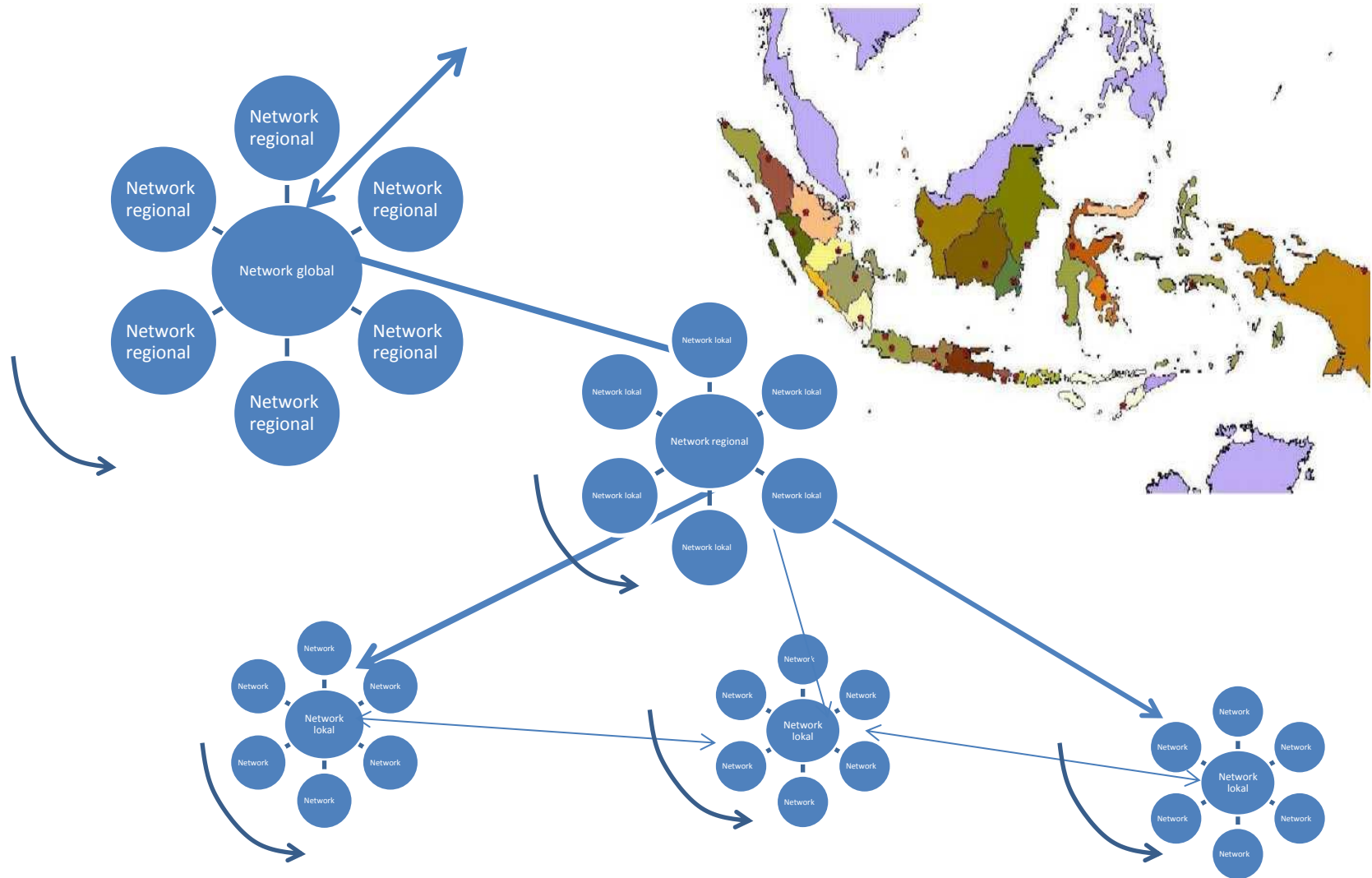
we use SDGs Approaches



Systemic Approach → Invite and Involve all Stakeholders



Networking Approach → Connecting each group → suits Large, Archipelago Region



E-Communication Approach

→ fast and cheap



Whatsapp

YOUTUBE

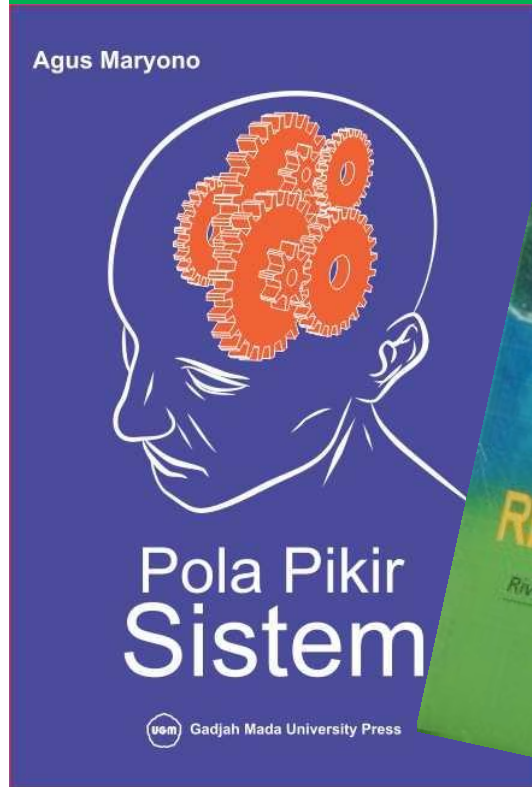
webex

Skype

twitter

FACE BOOK

Knowledge Based Approach → ESD → Book and River School



River School
organized by IRRM

Community based Approach →(SDGs)



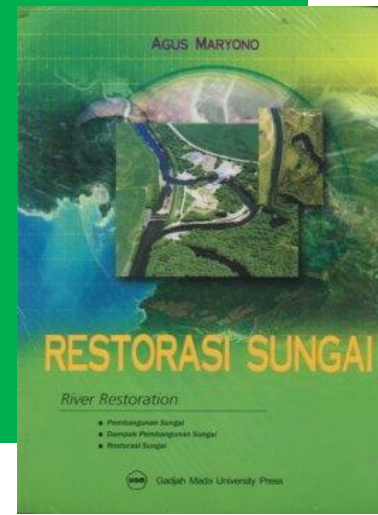
**To success in SDGs we need
“Community Involvement and Movement”**

What is River Restoration ?

Definition of
River Restoration (Maryono,2015):
*is a set of activities to restore
river from it's degraded condition
as much as possible to it's
original condition.*

Field of River Restoration (Maryono, 2006)

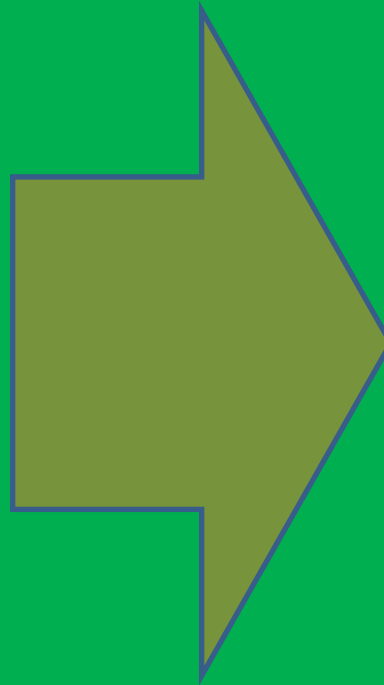
1. RESTORATION of HIDROLOGY
2. RESTORATION of ECOLOGY
3. RESTORATION of MORPHOLOGY
4. RESTORATION of SOCIAL-Economic and Culture
5. RESTORATION of INSTITUTION and REGULATION



Goals of River Restoration

To Reach River :

1. Clean
2. Healthy
3. Productive
4. Save
5. Conserved
6. Useful for all



IRRM
Goal

Main Activities of River Restoration

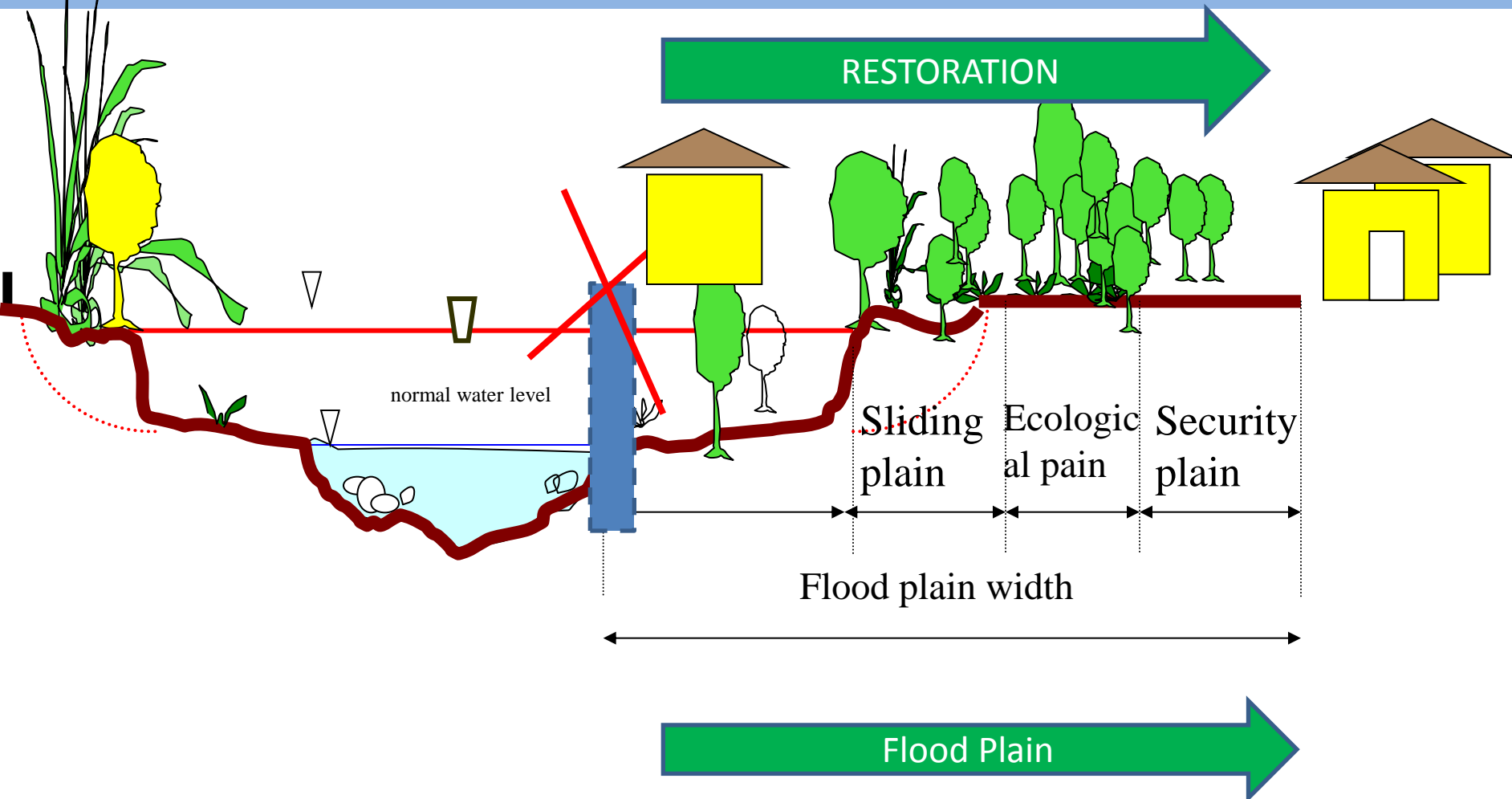
- Clean up and replanting the river



Remeanderinging and Revegetating River Flood Plains and River Banks.



Removing or shifting Houses from the River Flood Plain



Education on Environmental, Socio-Economic and Culture



EfSD



Result: Healthy and Restored River



The Outcomes of River Restoration

Resilience on :

1. Water
2. Foods
3. Energy
4. Environment
5. Disaster
6. Socio, Economic and Culture

How can we start the
movement....?

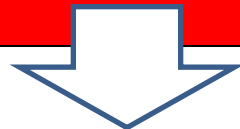
What do Indonesian people have ?

Love

Togetherness



Spirit and Motivation



Harmony → Productive

*Aku angkat
sampah ini
karena Cinta
**I take this
waste
because of
love***





**Together and
Harmony
to clean up the
river**

Productive : Participatory Planning 15 Regions along the river Code Corridor



Love, Togetherness, Harmony
→ Productive

Lesson Learned from Code River: How Can the Community Change the Condition?

Condition before **River Restoration
Movement**



**CODE
RIVER
5 km in
Yogyakarta
City**

Solid Waste in Code River (1999)



Solid Waste and Waste Water of Code River (2002)



How Can They Start the Restoration
Movement..?

Development of River Communities (2001 – Now)



Komunitas Peduli
Code (**KOMPAC**)
Blunyah gede Sinduadi
2004

Komunitas
Sayidan
Prawirodirjan –Kota
2004

Forum Komunikasi
Code Selatan (FMCS)
Brontokusuman-Kota
2004

Komunitas Boyong
Selatan – Plemburan Sleman
2008

FMCU :
Forum Masy. Code Utara
Jetis –Terban Kota - 2001

Komunitas
Romo Mangun
Kotabaru – Kota - 2000

Gerakan Cinta Code
Keparakan – Kota - 2000



2010 ---PEMERTI KALI CODE
(CODE COMMUNITY YOGYAKARTA 2008)

deklarasi pemerti kali code.mp4

Working Together Regularly to Clean up the River



Greening and Managing the Solid Waste



Working Regularly Together for Sanitation and Environment



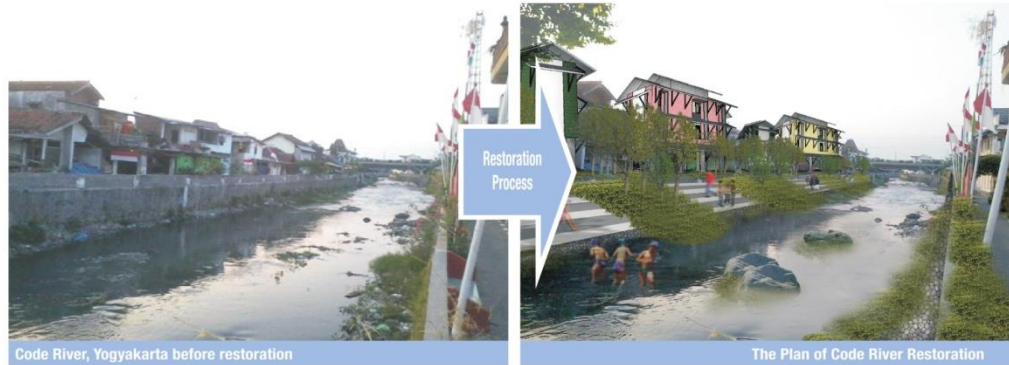
Boat Competition and Waste Collecting



Peg Planting to Preserve the Flood Plain Area



Creating RIVER SCHOOL



Code River, Yogyakarta before restoration

The Plan of Code River Restoration

River School (Sekolah Sungai) (Yogyakarta, Klaten and Solo)

Background on the development of **Sekolah Sungai**: the stream degradation in Indonesia reached 73% in 2014 (according to the Ministry of Environment and Forestry), and the management of rivers today is far from the ideal. This River School objectives are to develop the responsibility of the community, transfer of river knowledge and develop the knowledge and understanding of the community about river and environment. The River School produce also module, book, film, comic and history in order to support the social economic environment of the community.

The River School Modules are:

1. Concept and implementation of river restoration
2. River pollution and waste management
3. Empowerment and organization of riverbank communities
4. Development of Tourism
5. Disaster risk reduction
6. Improving local economy



Kartini Day & Earth and Environment Day Celebration



Yogyakarta River School: Clean Water Day in Gajah Wong River



Klaten River School: Resik Kali

Philosophy of the Program

- The activity is undertaken by the philosophy of community movement
- The activity stimulate and generate a new movement concerned to the environment and forestry
- The activity encouraging local community to be active in collaboration with all stake holders
- The organization and activity is using Systemic and network approach

River Restoration

- Hydrological Restoration (water quantity and quality)
- Ecological Restoration (Flora and Fauna of the stream)
- Stream Morphology Restoration (lengthwise and crosswise grooves stream)
- Socio-economic and Cultural Restoration (improving people awareness who lives near stream area)
- Regulation and institution of river restoration (river community group)

Love and Affection are the Souls of Indonesia River Restoration Movement (GRSI)



I remove the river waste because of love



I do rafting because of love



UGM Launching Srikandi Sungai Indonesia : Prof. Suratman

GRSI in Yogyakarta



Indonesian River restoration movement (IRRM) begin with socialization of river flood plain awareness in 2001.

WhatsApp Group of Indonesian River Restoration Movement since 2016

- | | |
|--------------------------|-------------------------|
| 1. GRSUJRM Yogyakarta | 10. GRSUJRM Banjarmasin |
| 2. GRSUJRM Jakarta-Bogor | 11. GRSUJRM Lombok |
| 3. GRSUJRM Bandung | 12. GRSUJRM Manado |
| 4. GRSUJRM Surakarta | 13. GRSUJRM Sukoharjo |
| 5. GRSUJRM Semarang | 14. GRSUJRM Jember |
| 6. GRSUJRM Surabaya | 15. GRSUJRM Tasikmalaya |
| 7. GRSUJRM Klaten | |
| 8. GRSUJRM Makassar | |
| 9. GRSUJRM Aceh | |

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website : www.sekolahsungai.org



How is the Result 2015-now

Code River 2014 -Now



*Children play
rafting,
Because of love*



Community Library in Garden of Inspiration on Boyong Code River



CODE River, Jogja

How can we restore it?



Dream → Restoration Planning



Community Innovation Develop Very Well → Coloring the Houses → Tourist





Colorful river
Community
residents

The Community Keeps The River Clean, Green and Health



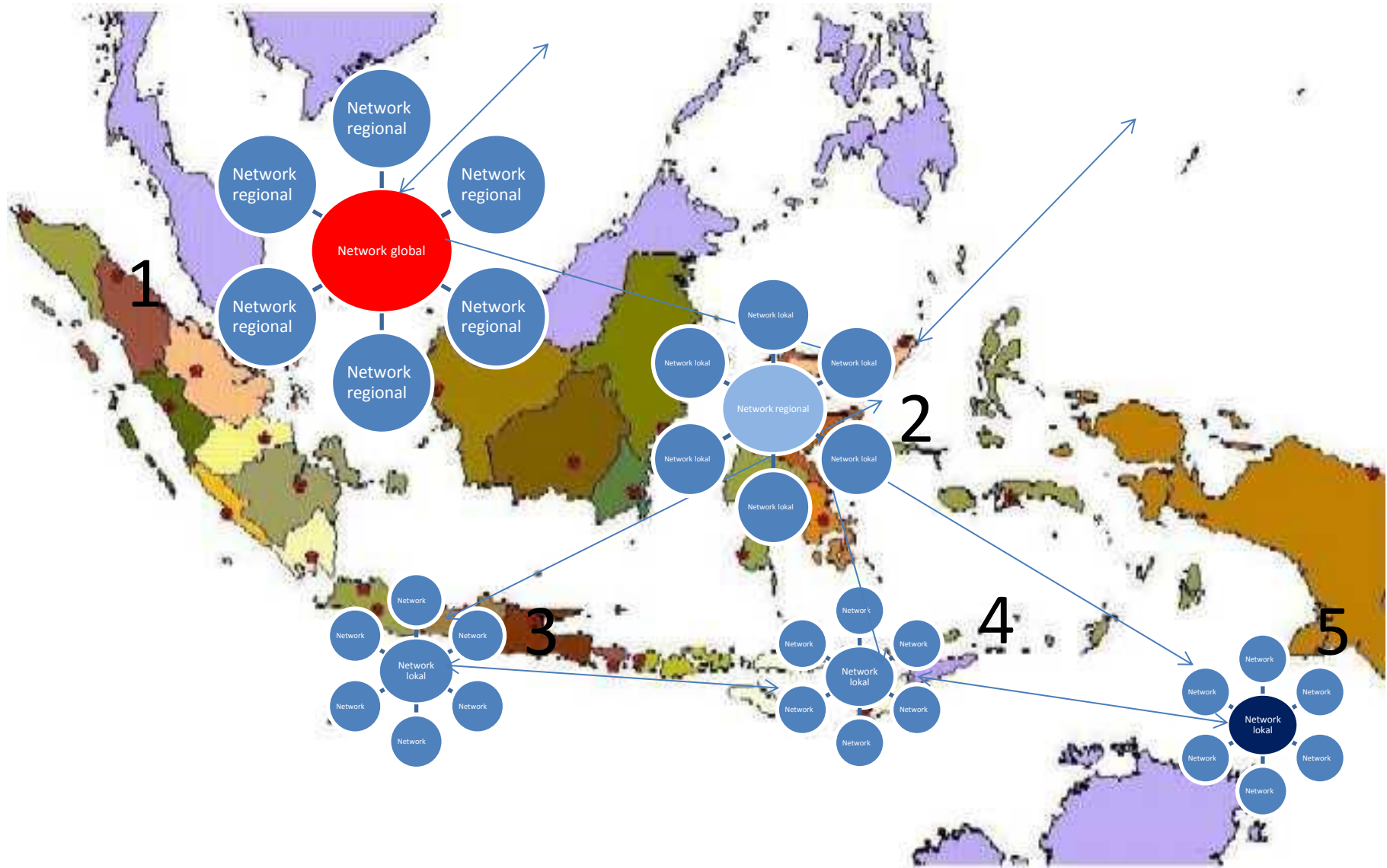
How to Enlarge

**River Restoration Movement → to the
whole Indonesian
Archipelago..?**

(Which is Done by All Stakeholders)

IRRM Network Development-> Connecting all Group

→for Large Country and an Archipelago Region



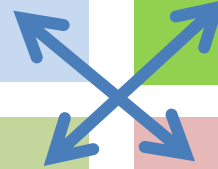
Organizing and Activating the Network & Members using (WA) Whatsapp Groups

- Group IRRM 1. A, B, C, D, E, F, G, H, I, J, K, L, (Jogja)

- Group IRRM 2. A, B, C, D, V, W, X, Y, ..
..... (Jakarta Bogor)

- Group IRRM 3. A, B, C, D, O, P, R, S, T, U..(Bandung)

- Group IRRM 4. A, B, C, D, Z, A1, B1, B2, B3,.. (Solo)



Development of IRRM NETWORKING

30 WA Group, more than 50 Communities, 2016



Opportunity : Regional Network of River Restoration for ASEAN and World



How to Ensure
the Sustainability..?

Develop Road Map of IRRM 2017- 2025

Supported by Community, Local and
Central Government, University and
Private Sectors in Indonesia

2017:

Establishment of river
communities at **34** provinces
and enlarge the network **to**
30 % of District.

30 % river is clean and health,
kept by community

2020:

Establishment of river
communities at **34**
provinces and enlarge the
network to **50%** District
regions

40 % river in Indonesia
clean and health, kept by
community

2025: Establishm

ent of river
communities at 34
provinces and enlarge
the network to **75%**
District

75 % of river in
Indonesia clean , health
and productive , kept by
community

Maintain : the Love, Togetherness, Spirit and Motivation



Let IRRM belong to Community and Let IRRM be a Culture of Community

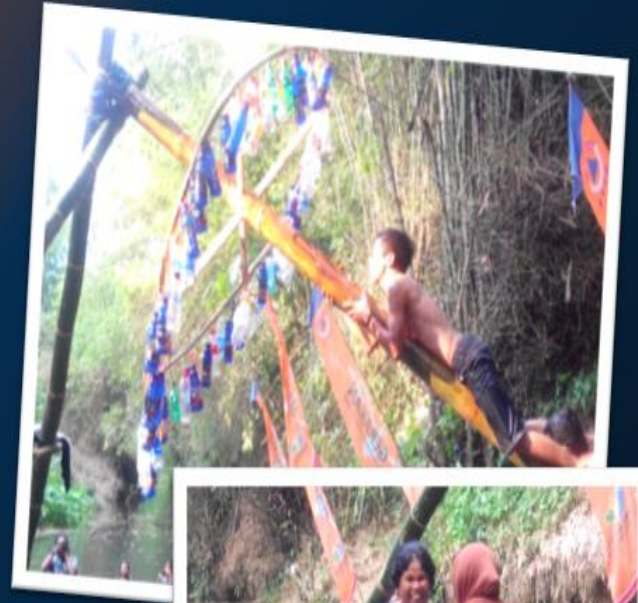
Keeping the Spirit that We Can Solve the Problem



Masalah !



Output



Outcome

Support : COMMUNITY ACTIONS FOR RIVER RESTORATION



**Communications Forum of Winongo ASRI-(FORUM KOMUNIKASI
WINONGO ASRI (FKWA) YOGYAKARTA**

COMMUNITY ACTIONS FOR RIVER RESTORATION



PAGUYUBAN PENGENDALI DAN PENANGGULANGAN AIR PASANG PANGGUNG LOR (P5L), KOTA SEMARANG – JAWA TENGAH

COMMUNITY ACTIONS FOR RIVER RESTORATION



COMMUNITY of EKOLINK – BANDUNG – WEST JAVA

COMMUNITY ACTIONS FOR RIVER RESTORATION



**COMMUNITY for RIVER RESPONSIBILITY (MELINGAI)
MASYARAKAT PEDULI SUNGAI (MELINGAI) – KALIMANTAN SELATAN**

COMMUNITY ACTIONS FOR RIVER RESTORATION



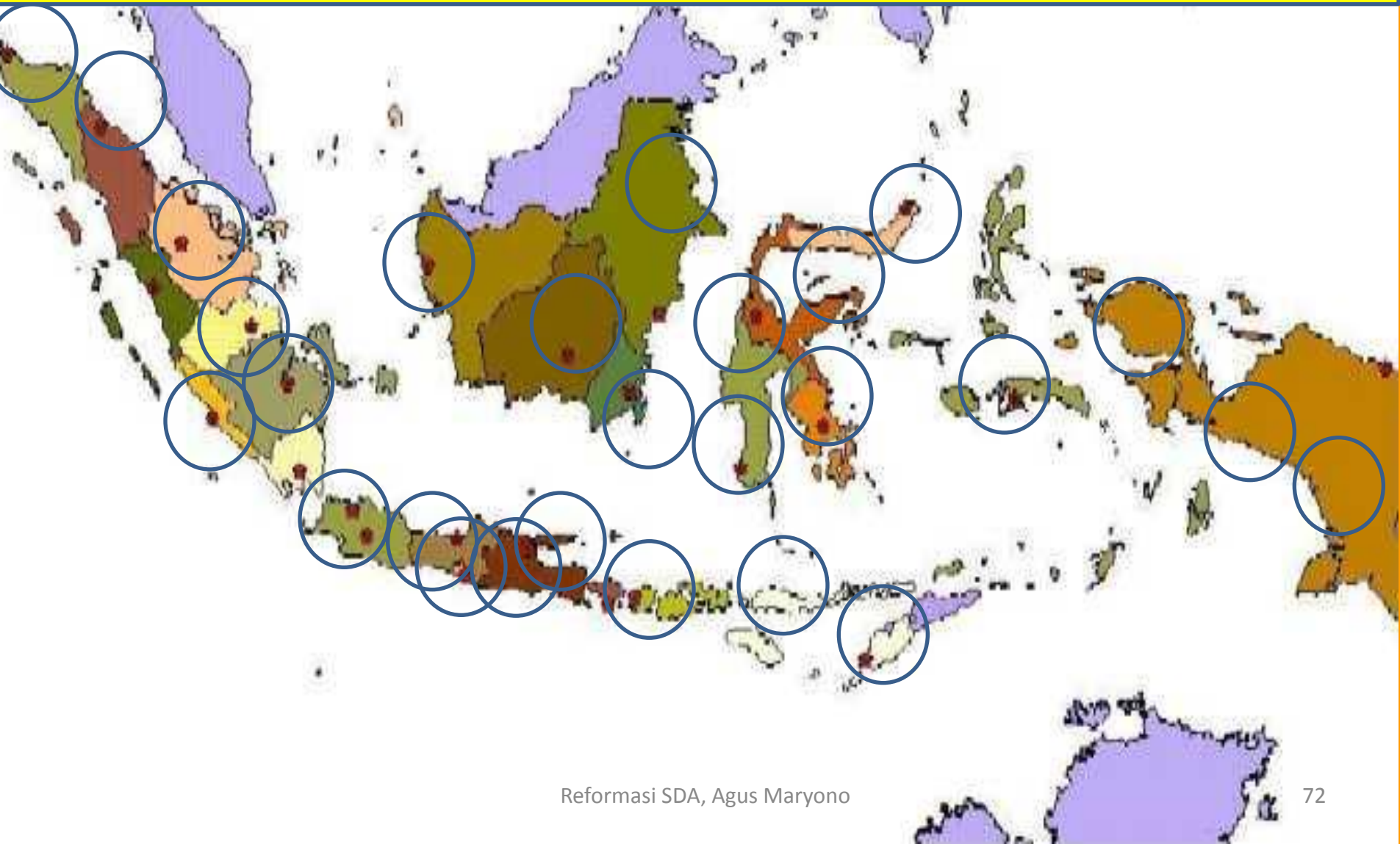
**COMMUNITY SANTRI JOGO KALI EAST JAVA
(SANTRI JOGO KALI – JAWA TIMUR)**

COMMUNITY ACTIONS FOR RIVER RESTORATION



**COMMUNITY of BATU BULAN AMBON MALUKU
(KOMUNITAS PEDULI SUNGAI BATU BULAN – MALUKU)**

RIVER RESTORATION MOVEMENT DEVELOP VERY FAST



Conclusion


1. The Movement has been **educating** and **changing the attitude** of the people and community from “**neglecting**” the river to **respecting, loving** and **preserving** the river.
2. The movement has been resulting **clean, green and protected rivers** in several regions in Indonesia
3. The **spirit and motivation** for River Restoration Movement is **growing very fast** because people **involve themselves**.

*Living in Harmony With River
Our life remains nice and sustain for ever*



A young girl with dark hair, wearing a colorful patterned dress, is crouching in a shallow pool of water. She is holding a red and white striped cloth over her head, pouring water from it into the pool. The background is a blurred green forest. The text "Let us work forward, you can join us any time and we are always waiting for your heart." is overlaid on the right side of the image in white font.

Let us work
forward, you can
join us any time
and
we are always
waiting for your
heart.

A photograph of two young boys on a bamboo raft in a river. The boy standing is holding a long wooden pole and looking up. The boy sitting is also looking up. The background is a lush, green forest with a waterfall or misty area. The text "We love river and we love you so much" is overlaid on the right side of the image.

We love river and
we love you so
much

Thanks for your
Attention