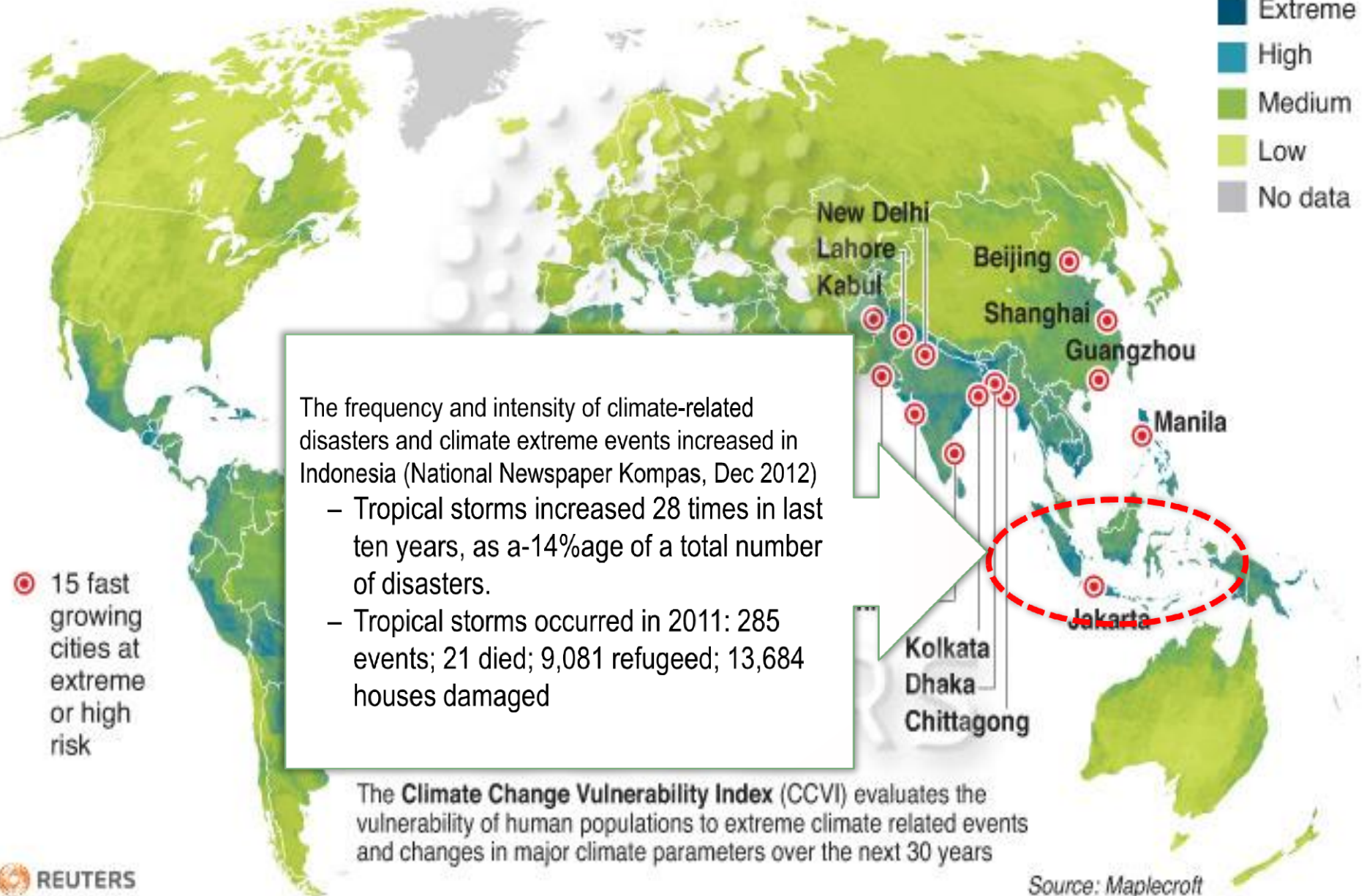
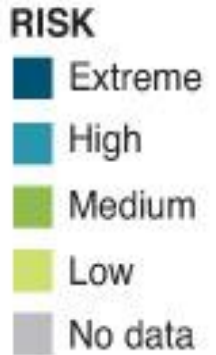


Program Kampung Iklim (ProKlim):
Local Action to Respond Climate
Change

Yulia Suryanti
The Ministry of Environment
Republic of Indonesia

CLIMATE CHANGE VUNERABILITY INDEX



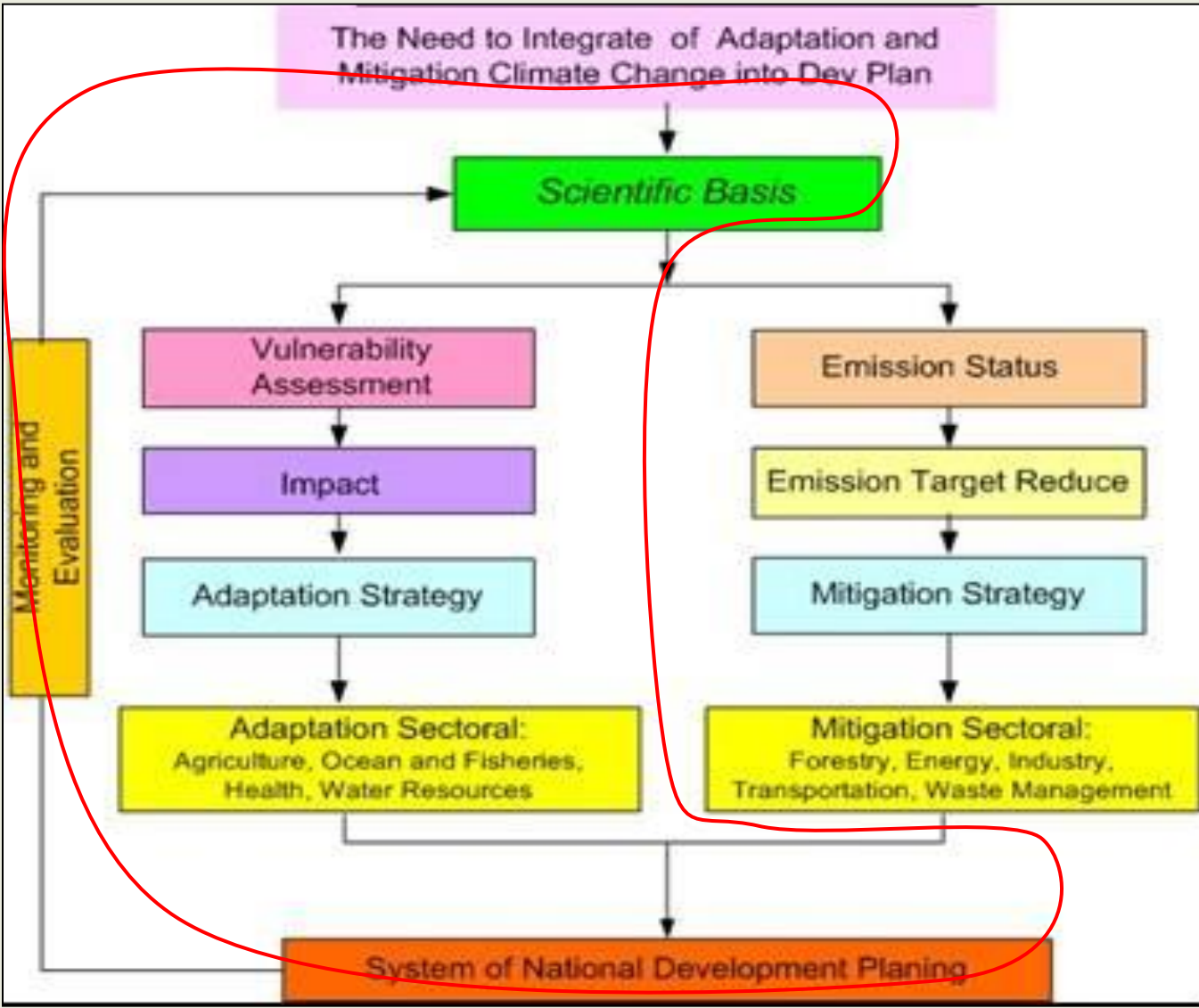
● 15 fast growing cities at extreme or high risk

The frequency and intensity of climate-related disasters and climate extreme events increased in Indonesia (National Newspaper Kompas, Dec 2012)

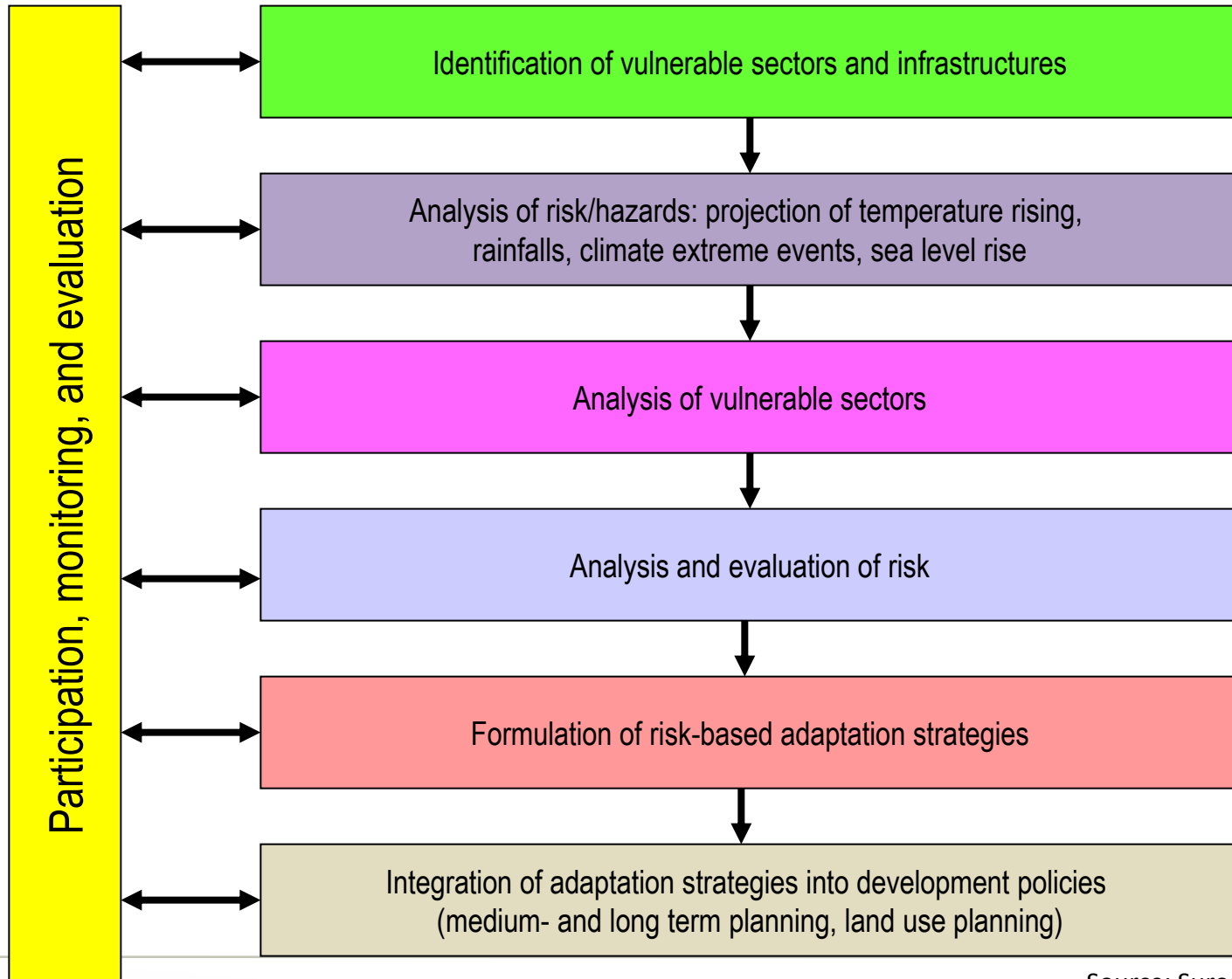
- Tropical storms increased 28 times in last ten years, as a-14%age of a total number of disasters.
- Tropical storms occurred in 2011: 285 events; 21 died; 9,081 refugeed; 13,684 houses damaged

The **Climate Change Vulnerability Index (CCVI)** evaluates the vulnerability of human populations to extreme climate related events and changes in major climate parameters over the next 30 years

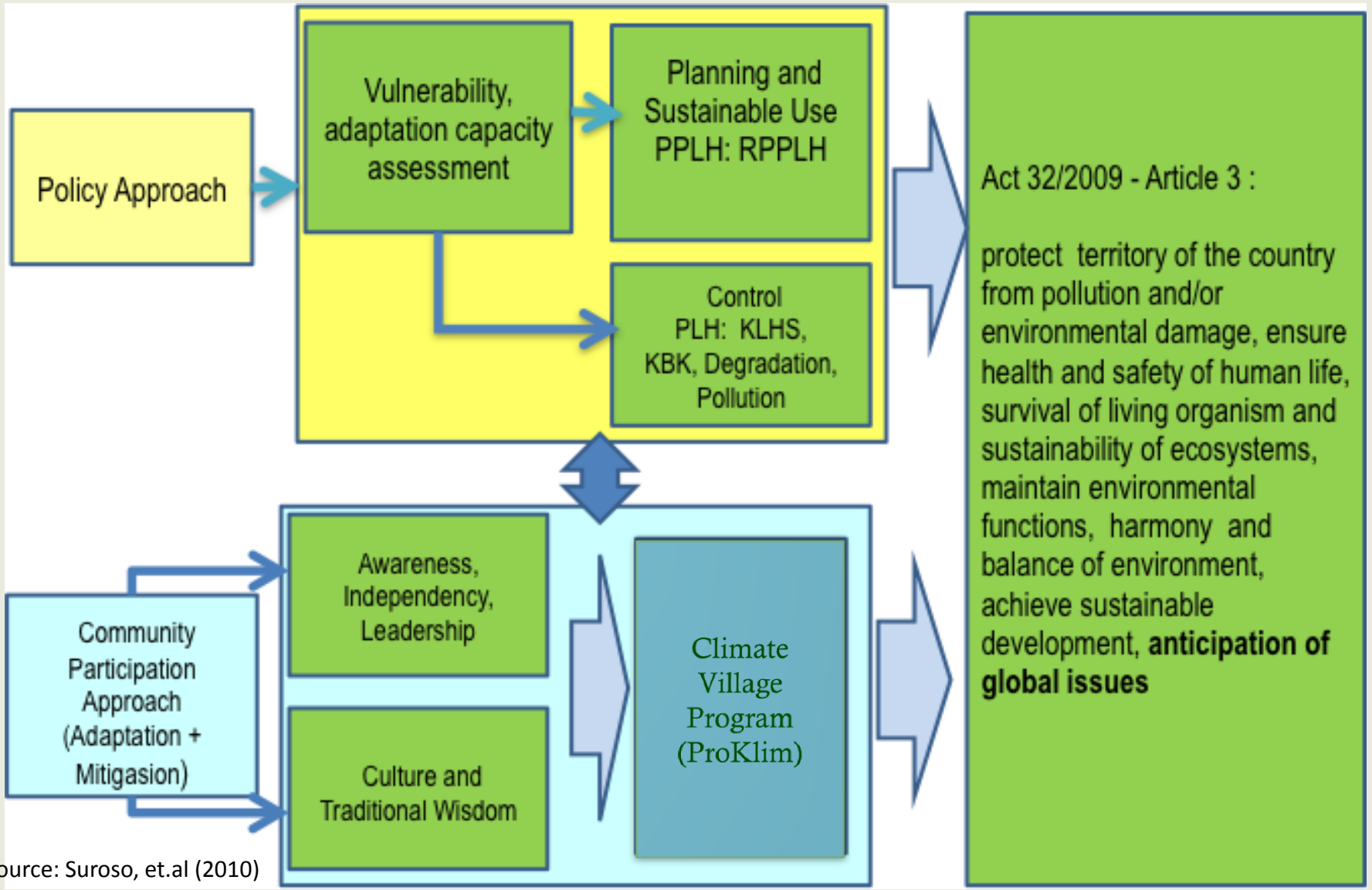
Climate Change Assessment Process: Adaptation and Mitigation



Vulnerability and Adaptation Assessment Process



Indonesia: Adaptation Implementation Framework



Source: Suroso, et.al (2010)

Different Level of Actions



Government

- Development of policies and program → national- and regional-level



Community

- Local initiatives in combating climate change → plenty, scattered



Private Sector

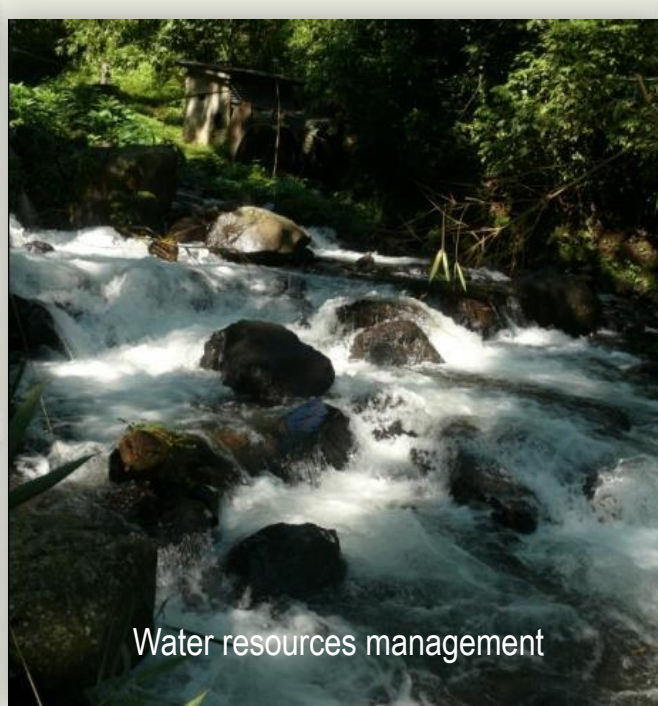
- Community development and CSR activities



Local Initiatives and Activities



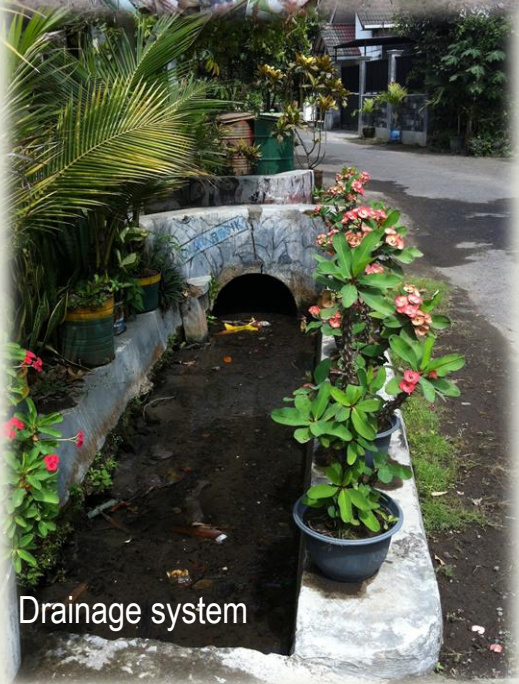
Water catchment



Water resources management



Water resource protection



Drainage system



Water resource management and cultivation system





waste management



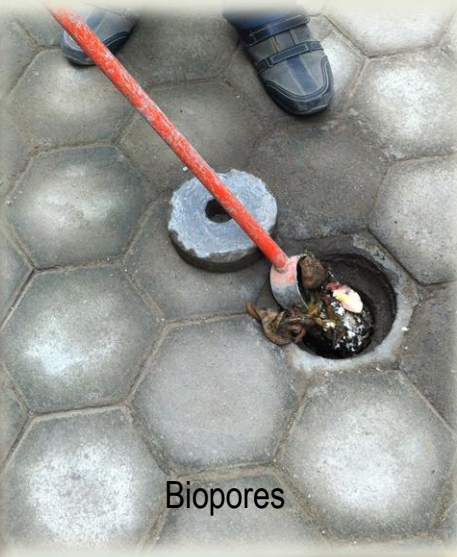
composting



Practical training (community to community)



Water efficiency



Biopores



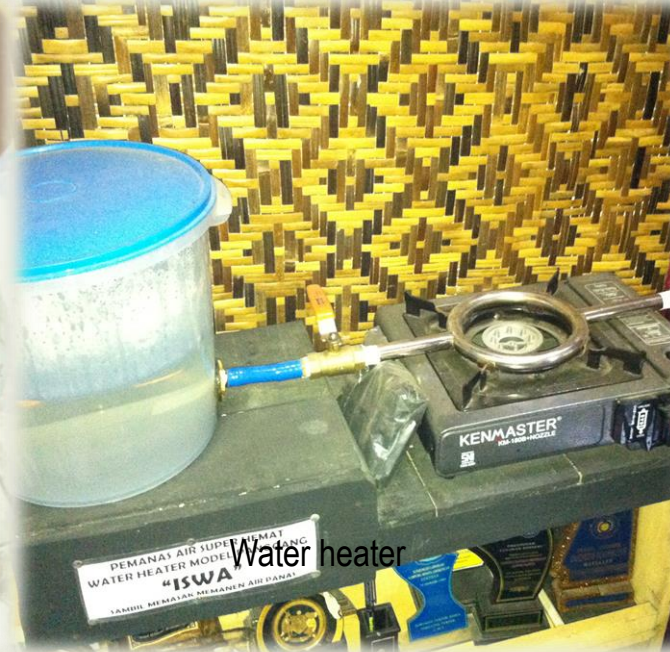
Water harvesting



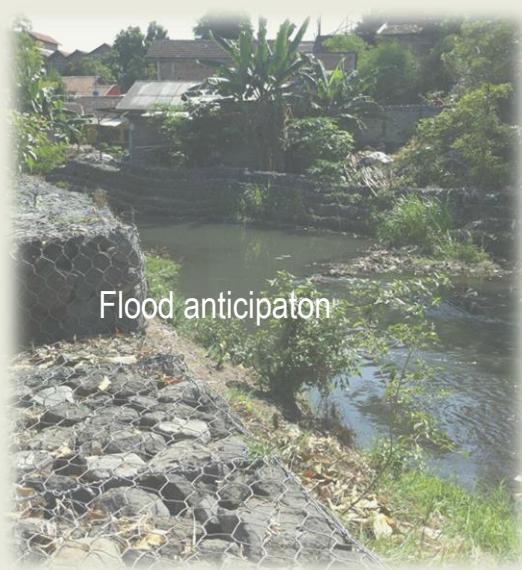
Vector management



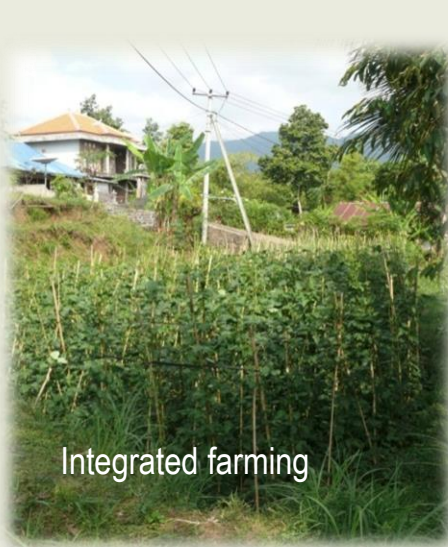
Food keeper...



Water heater



Flood anticipation



Integrated farming



Dryland management



Energy-efficient cookstove



Biogas



Micro-hydro



Wastewater management



Organic fertilizer from cattle



Cattle urine for bio-pesticide



Land terrace



Mix-farming



Absorption wells



Innovation well-system in a dry area



Traditional housing



Rock-terraces for anticipating landslide



Yard optimization (herbal medicine)



Mangrove plantation...and alternative incomes for local community



Sea wall or other construction for anticipating sea level rise

Program Kampung Iklim (ProKlim)

Legal base: Minister Regulation No. 19/2012 regarding Climate Village Program (Program Kampung Iklim)

is a program to recognize active participation of local communities in implementing actions of climate change mitigation and adaptation, which contributes to the achievement of national green house gas reduction target and increases the community resilience to the climate change impact.

Components

Adaptation activities

Mitigation activities

Community and sustainability

Criteria

- The existing mitigation and adaptation activities in a specific area;
- The continuity of mitigation and adaptation activities;
- The contribution of concrete activities in achieving the GHG emission reduction target and in enhancing the community resilience to the climate change impact;
- The availability of local community institutions and supports on sustainability of the activities.

Activities (60%)

Adaptation

Mitigation

Local Community and Sustainability Aspects (40%)

Related to proponents who are conducting the activities

Ensure the sustainability of activities

ProKlim's Components

Adaptation activities, i.a.:

- Management of drought, floods and landslide
- Enhancement of food security
- Anticipation to sea level rise, and other risks/hazards in coastal area
- Management of climate-related diseases

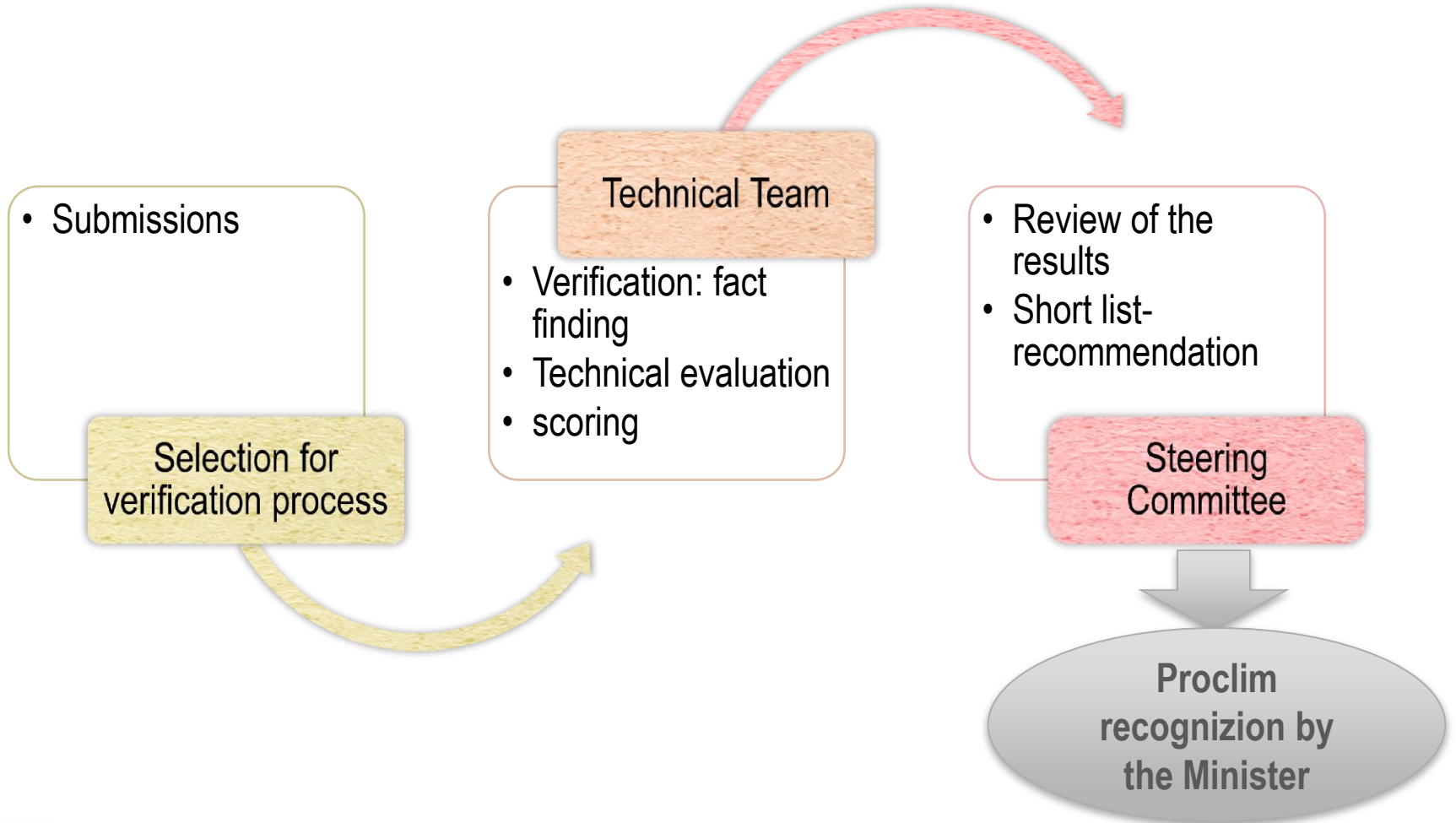
Mitigation activities, i.a.:

- Management of waste and solid waste
- Liquid waste treatment and utilization
- Energy consumption (e.g. energy efficiency, renewable energy)
- Reducing emission from agriculture activities
- Forest conservation
- Management of land and forest fire

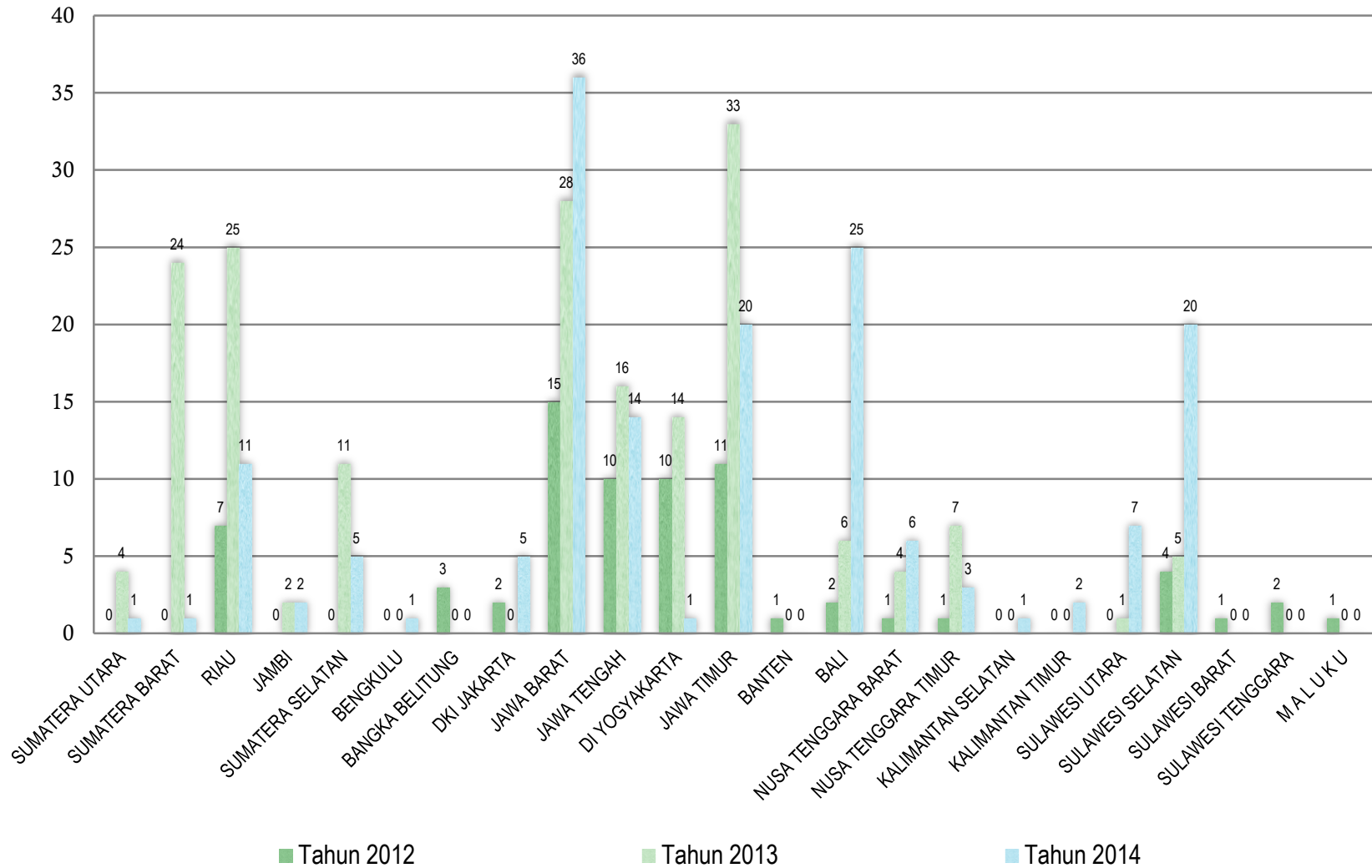
Local Community and Sustainability Aspects, i.a.:

- Availability of local organization to manage and implement the activities
- Adoption of local policies, traditional ethics and other local knowledge to support the implementation of activities
- Community dynamics (e.g.: community self sustain, self finance scheme, gender participation)
- Local community capacities to implement the activities
- External support from governments
- External support from private sectors, NGOs, universities and other
- Continual improvement of existing activities
- Positive impacts (economic benefits, environmental benefits, and/or minimize the impact of climate extreme events)

Mechanism



ProKlim: Year 2012-2014 Implementation (by province)



ProKlim 2012

No	Location	District	Province
1.	<i>Dusun Sukunan</i>	<i>Sleman</i>	<i>DIY</i>
2.	<i>Desa Jetis Lor</i>	<i>Pacitan</i>	<i>Jawa Timur</i>
3.	<i>Desa Sambangan</i>	<i>Buleleng</i>	<i>Bali</i>
4.	<i>Dukuh Gatak II</i>	<i>Bantul</i>	<i>DIY</i>
5.	<i>Dukuh Serut</i>	<i>Bantul</i>	<i>DIY</i>
6.	<i>Desa Mukti Jaya</i>	<i>Rokan Hilir</i>	<i>Riau</i>
7.	<i>Desa Nglegi</i>	<i>Gunung kidul</i>	<i>DIY</i>
8.	Desa Kerta	Gianyar	Bali
9.	Desa Kembang	Pacitan	Jawa Timur
10.	Kelurahan Jomblang	Kota Semarang	Jawa Tengah
11.	Desa Mekarjaya	Cianjur	Jawa Barat

Trophy and Certificate

Certificate

ProKlim 2013

No	Location	District	Province
1	<i>Dusun Sukawangi</i>	<i>Tasikmalaya</i>	<i>Jawa Barat</i>
2	<i>Desa Burno</i>	<i>Lumajang</i>	<i>Jawa Timur</i>
3	<i>Desa Gekbrong</i>	<i>Cianjur</i>	<i>Jawa Barat</i>
4	<i>Dusun Bendrong</i>	<i>Malang</i>	<i>Jawa Timur</i>
5	Dusun Semanding	Nganjuk	Jawa Timur
6	Desa Lamajang	Bandung	Jawa Barat
7	Nagari Sarik Alahan Tigo	Solok	Sumatera Barat
8	Desa Jabung	Magetan	Jawa Timur
9	Desa Cupang	Cirebon	Jawa Barat
10	Desa Mambal	Badung	Bali

No	Location	District	Province
11	Desa Sirnaresmi	Sukabumi	Jawa Barat
12	Dusun Mangempang I	Gowa	Sulawesi Selatan
13	Desa Taman	Badung	Bali
14	Dusun Ngiprak	Lamongan	Jawa Timur
15	Kampung Kuta	Ciamis	Jawa Barat
16	Desa Jarak	Jombang	Jawa Timur
17	Desa Selat	Buleleng	Bali
18	Desa Baha	Badung	Bali
19	Desa Sangeh	Badung	Bali
20	Kampung Kiarasanding	Bandung	Jawa Barat

Trophy and Certificate

Certificate

Sukunan Village, Sleman District, Yogyakarta Province

Adaptation and mitigation activities

- Water reservoir (embung) and water
- Absorption wells and biopores.
- Revegetation.
- Protection and management of water resources
- Water use efficiency by designing traditional shower
- Crop cultivation and fertilizer system (land management, composting).
- Zero burning technique.
- Management of indigenous species.
- Yard optimization: traditional medicines.
- Vector management and public sanitation.
- Integrated waste management, including waste separation, utilization, 3R.
- Communal wastewater treatment.
- Water management for agricultural activities.
- Operationalization of biogas, treatment of livestock waste.
- Traditional innovation: such as design of ovitrap (for intercepting its life cycle), natural refrigerator, water heater.

Potential climate risks

- Drought caused by elongated dry season.
- Potential risk of water scarcity in the area.
- Changing of rain season threatens agricultural productivity.
- Un-managed waste emits greenhouse gasses.

Emission reduction potential, from:

- Livestock activities: cattle 0.00004 Gg CH₄/year (0.84 ton CO₂/year), sheep 0.00000528 Gg CH₄/year (0.11088 ton CO₂/year), poultry 0.0000348 Gg CH₄/year (0.7308 ton CO₂/year).
- Chemical fertilizer reduction by 25%: 0,601375 ton CO₂/year.

Benefits

- Water security.
- Waste reduction.
- Food security.
- Alternative income.
- Enhancement of carbon stock.
- Appropriate public sanitation.

ProKlim as a part of global actions and UNFCCC

Adaptation
Component



National
Adaptation
Plans
(NAPs)

- Proklim and its implementation as input for the development of NAPs related to developing countries' action and its role for policy development.

Nairobi Work
Programme
(NWP)

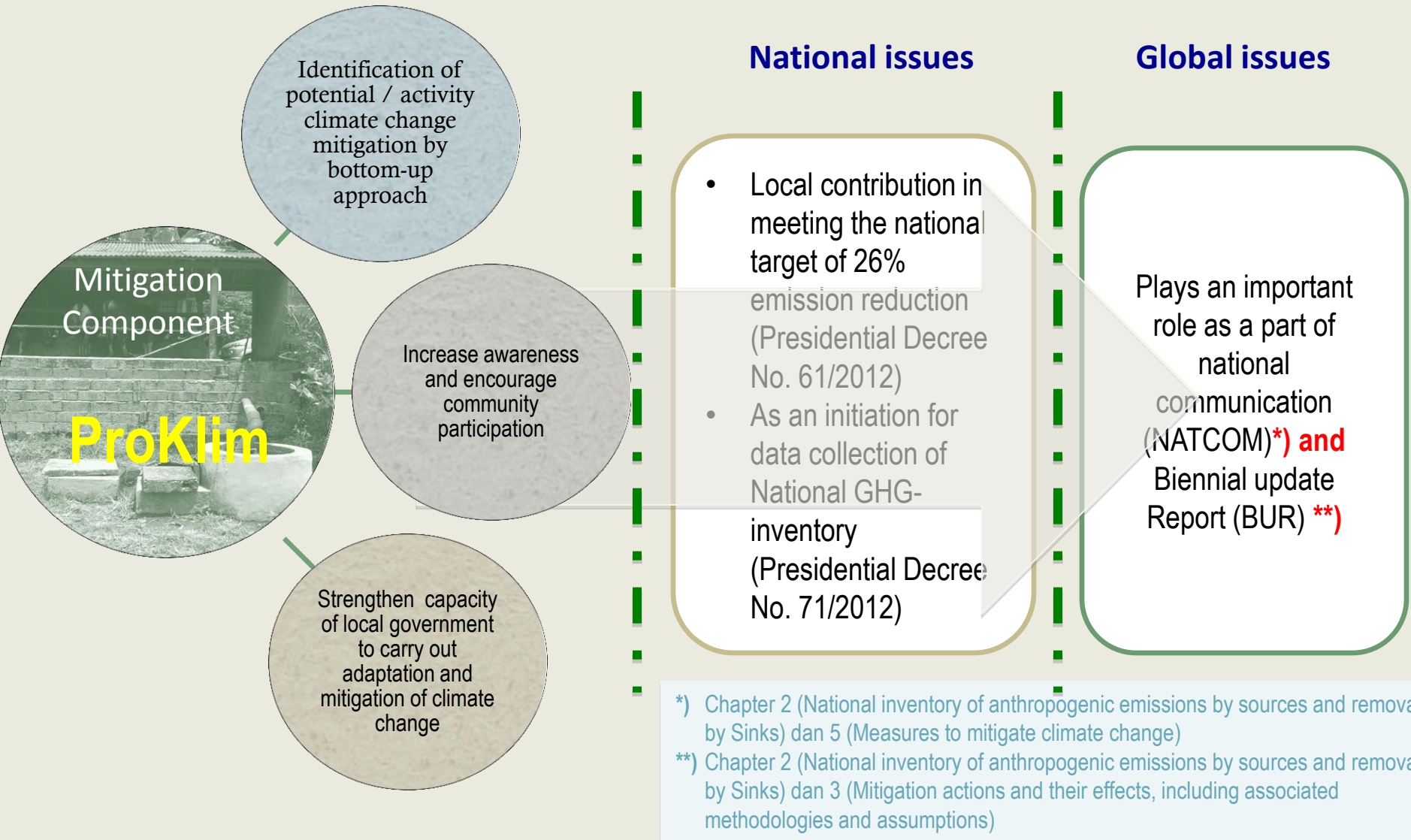
- Proklim as an input for strengthening adaptation actions, in particular "**Adaptation planning and practice**" at local-level.
- Its implementation could be submitted as a part of NWP, related to **concrete actions on adaptation** which will be potentially supported by developed countries.

Loss and
Damage
(LnD)

- The implementation of ProKlim draws vulnerability in the area and will play an important role for baseline-setting in terms of insurance mechanism for the losses and damages caused by the climate change.

*Cancun
Adaptation
Framework
(CAF)*

ProKlim as a part of global actions and UNFCCC



Development of supporting tools...



Dengan banyaknya permintaan, maka batas waktu pengusulan ProKlim Tahun 2014 diperpanjang sampai dengan tanggal 20 Juni 2014.

PROGRAM KAMPUNG IKLIM (ProKlim)

Latar Belakang

Persoalan perubahan iklim sudah menjadi fenomena lingkungan yang nyata dan diakui sebagai salah satu ancaman terbesar bagi kehidupan manusia. Laporan *Intergovernmental Panel on Climate Change (IPCC)* Kelompok Kerja-1 yang diluncurkan pada bulan September 2013 terkait dengan penyusunan *Assesment Report ke-5 (AR5)*, menyebutkan bahwa kenaikan suhu permukaan bumi di wilayah Asia Tenggara pada abad ini berkisar antara 0,4-1°C dan diperkirakan akan terus meningkat antara 1,5-2°C pada periode 30 tahun mendatang.



Perubahan suhu yang terjadi saat ini diyakini sebagai akibat terjadinya akumulasi **gas rumah kaca** (GRK) di atmosfer. Berbagai kegiatan manusia dalam pembangunan menyebabkan konsentrasi Gas Rumah Kaca (GRK) di atmosfer semakin bertambah, termasuk penggunaan bahan bakar fosil, proses penguraian sampah dan limbah, penggunaan pupuk kimia serta pembakaran jerami. Keberadaan GRK di atmosfer menyebabkan radiasi gelombang panjang sinar matahari terperangkap sehingga suhu bumi menjadi naik dan mengakibatkan perubahan iklim. Peningkatan GRK di atmosfer diperparah oleh berkurangnya luas hutan atau deforestasi yang mempunyai kemampuan untuk menyerap CO₂.

adaptasi.menlh.go.id → ProKlim

Conclusion

- *Not re-inventing the wheel:*
 - ProKlim is not a new issue in combating climate change.
 - Various local initiatives on climate change adaptation and mitigation existed, which have been conducted by the community.
- Lack of understanding on the concept of climate change adaptation and mitigation.
- Active participation of local community is crucial for implementing climate change adaptation and mitigation.
- There is a need to quantify adaptation and mitigation action, as well as quantification of its benefit for the community including their contribution for meeting the 26%-emission reduction target in 2020 compare to business as usual
 - GHG inventory in local-level (ProKlim's coverage area);
 - Projection of potential emission reduction.
- Benefits for the community by conducting adaptation-mitigation activities:
 - Increase the environment quality (water resources, soil fertility, etc)
 - Avoid and/or decrease the loss and impact of climate-related disaster;
 - Increase the social-economy level, e.g.: having alternative income.



***Thank you
and have a good day...***

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Ph/Fax. 021 8590 4934**