

# PROJECT IMPLEMENTATION

## *Capacity Building on Forest and Land Fire Management in Indonesia*

**ITTO PP-A/56-340-1**

**JAN 2021 – JUNE 2022**

*presented in*

**58<sup>th</sup> Session of ITTC**



# Project site map

*Capacity Building on Forest and Land Fire Management in Indonesia*

## CENTRAL KALIMANTAN



## SOUTH KALIMANTAN



Those 3 provinces are categorized as fire-prone provinces and burn every years



## SOUTH SUMATERA



**11**

Local Fire Stations



**788**

Manggala Agni



**173**

Masyarakat Peduli Api



**8**

Villages



**31**

Institutions



**12**

Companies

## OBJECTIVE

To **improve prevention** of forest and land fire through **strengthening management and technical capacity** of stakeholders at three targeted provinces and national level

## INDICATORS

- 1) Community in 8 villages in 3 provinces apply best practice agriculture (land preparation without burning)
- 2) Capacity of Forest and Land Fire Brigade (*Manggala Agni*) & officials in 3 provinces improved
- 3) Proven technology on reporting and detection of forest fires and forest burnt area to support Monitoring System available
- 4) Personal protective clothing properties and safety equipment of Manggala Agni in target location available
- 5) Main stakeholder awareness in three provinces on forest fire prevention improved

## OUTPUT

- 1) Best agricultural practices applied by Fire Care Community (MPA)/Local communities
- 2) Management capacity to address forest and land fires problems strengthened
- 3) Cooperation among local institution, private sector and communities for forest and land fire prevention strengthened



## **Applied land preparation without burning for community**

- Provide Module: Development of zero burning practices (land preparation without burning) for the community
- Implement training of zero-burning practices (PLTB) for community
  - The alternative approach emphasized on utilization of biomass waste resulting from land clearing
  - Integrated Charcoal Technology for making charcoal, compost, and liquid smoke, and also its utilization in the farming
  - The alternative did not significantly change the process of agricultural practices that were usually applied by farmers
- Develop Demonstration plots of zero-burning practices (PLTB) by community
- Implement training of community economic empowerment and develop fish farming (aquacultures) for community
- Accompanied by Agriculture/Fisheries extension, Village Govt., Manggala Agni, Army, Police





# Key achievements

*Capacity Building on Forest and Land Fire Management in Indonesia*

## Improving capacity of Fire Brigades & officials

- Provide Module: Procedure for Forest and Land Fire Brigade
- Implement technical training of fire management, Occupational Health & Safety, animal evacuation, and fire mechanics
- Implement socialization and training of Burnt-area calculation and Fire-prone mapping
- Implement training of System Monitoring and Reporting Technology for Fire Prevention Patrol (*SMART Patrol Information System*)
- Revitalize fire safety clothes and fire equipment





# Key achievements

*Capacity Building on Forest and Land Fire Management in Indonesia*

## Revitalize fire safety clothes and fire equipment

ITEM	INITIAL	PROCURED
Safety Coats	480	1,110
Safety Shoes	480	580
Waterpumps	4	16
Motorcycles	3	8
GPS	6	7
Handy Talkie	-	58
Portable Oxygen	-	90



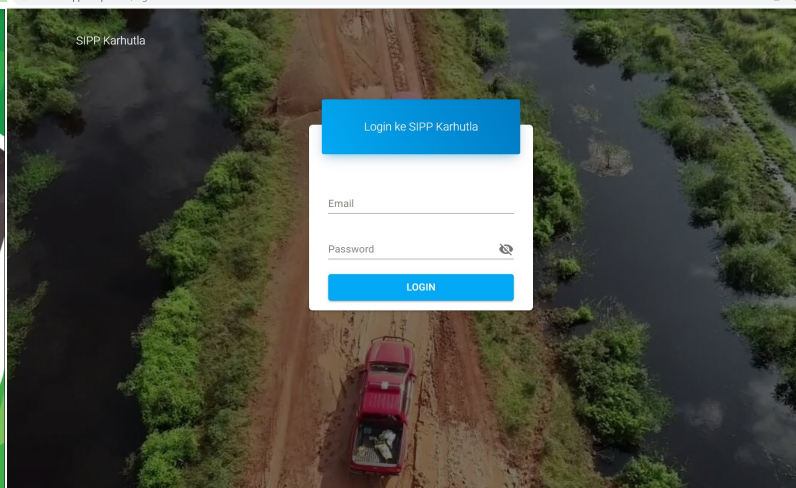
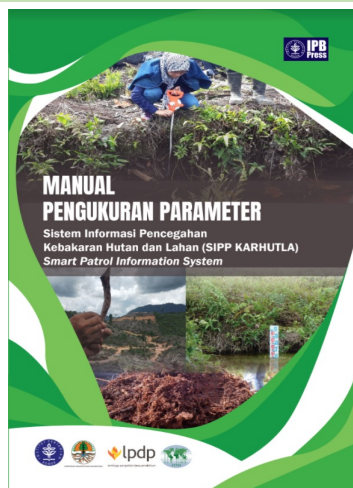


# Key achievements

*Capacity Building on Forest and Land Fire Management in Indonesia*

## Development of SMART Patrol application

- System Monitoring and Reporting Technology for Fire Prevention Patrol (SMART Patrol Information System)
- Platform: android mobile & web-based
- The apps had been applied in Sumatra and Kalimantan regions, and subsequently in the entire Indonesia



Username

Password

LOGIN





# Key achievements

Capacity Building on Forest and Land Fire Management in Indonesia

## Strengthen synergy and collaboration among stakeholders

- Implemented in various levels: central, regional, an site /village level
- Involved: Government (Central, Provinces, Districts), Army, Police, villages, private sector, universities, communities, fire brigades/Manggala Agni
- Signed Declaration of understanding and commitment in fire prevention



### RUMUSAN HASIL DIALOG

Pada hari ini tanggal Dua Puluh Empat bulan Maret tahun Dua Ribu Dua Puluh Dua bertempat di Kota Palangkaraya, Kalimantan Tengah, kami yang bertandatangan di bawah ini, telah melakukan dialog dan diskusi dalam rangka mendorong upaya pencegahan kebakaran hutan dan lahan di Provinsi Kalimantan Tengah, khususnya Kabupaten Pulang Pisau.

Berdasarkan hasil dialog dan diskusi, kami secara bersama-sama memiliki kesepakatan dan komitmen untuk:

1. Mendukung upaya pencegahan dan penanggulangan kebakaran hutan dan lahan
2. Meningkatkan sinergi dan kolaborasi dengan para pihak dalam upaya pencegahan dan penanggulangan kebakaran hutan dan lahan
3. Mendorong partisipasi masyarakat yang lebih besar dan nyata dalam upaya pencegahan dan penanggulangan kebakaran hutan dan lahan, salah satunya dalam bentuk pengembangan praktik pertanian lahan tanpa bakar oleh masyarakat
4. Mendorong pemberdayaan dan/atau peningkatan ekonomi masyarakat
5. Melakukan pendampingan terhadap masyarakat secara berkesinambungan, baik dalam aspek partisipasi masyarakat maupun pemberdayaan dan/atau ekonomi masyarakat
6. Kesepahaman dan komitmen tersebut di atas, dilaksanakan melalui kegiatan-kegiatan yang ada dalam organisasi stakeholder

Danikian Rumusan Hasil Dialog ini disusun dan disepakati dengan penuh kesadaran dan tanggung jawab bersama, serta untuk dapat dipergunakan sebagaimana mestinya dengan penuh tanggung jawab dan saling menghormati antar para pihak.

Palangkaraya, 24 Maret 2022

<p>BPEO Kab. Pulang Pisau</p> <p>Tekson, S.Sos Kepala Bidang Pencegahan &amp; Kesiapsiagaan Dinas Pertanian Kab. Pulang Pisau</p> <p>Tata Ali Sumitra, S.Hut. Kepala Bidang Perkebunan PT. Industri Forest Plantation</p> <p>Danar</p>	<p>Balai PPKHL Wil. Kalimantan</p> <p>Johny Santoso, S.Hut., M.A. Kepala Balai PPKHL Wil. Kalimantan KPMF Kahayan Hilir</p> <p>Joko Liepento, S.Hut., M.Si Kepala KPMF PT. Mentang Kencana Mas</p> <p>Anwar Siddiq Koordinator Sustainability</p>	<p>Dinas Lingkungan Hidup Kab. Pulang Pisau</p> <p>Veronica Lenny P. Kabid pengendalian Pencemaran &amp; Kerusakan Lingkungan PT Best Agro</p> <p>Tutyono Humas PT. Antang Sewit Perkasa</p> <p>Dani Sastryadi Asisten EHS</p>
--	---	--



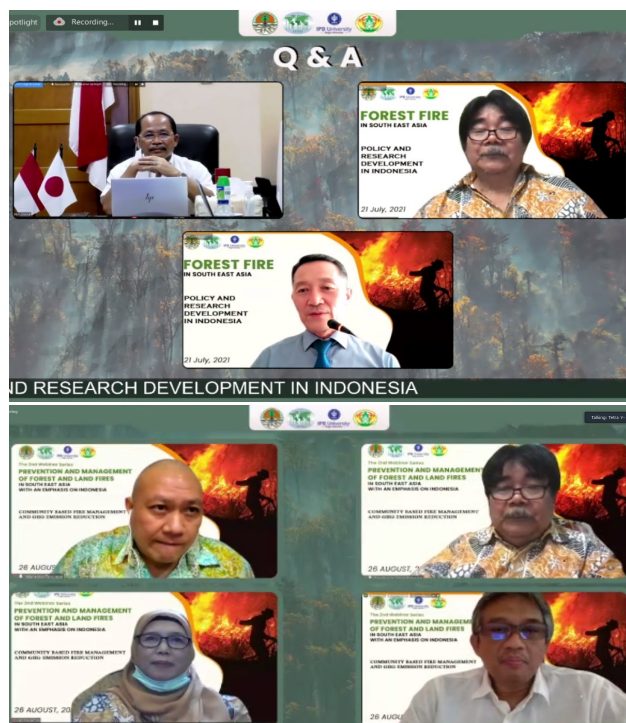


# Key achievements

Capacity Building on Forest and Land Fire Management in Indonesia

## Organized international fire webinars

- Arranged virtually using zoom and YouTube platform
- Sharing policies, innovation, and experiences on good practices of fire prevention; and also strengthen network
- Presented prominent fire experts/academics/bureaucrats



## Lessons learned

1. The huge-complex works of fire management require synergy and collaboration from all stakeholders including Government, *Manggala Agni*, private sector, communities/*Masyarakat Peduli Api*, universities, NGOs, and even international agencies.
2. Considering the national policy on burning prohibition; communities and farmers require alternative technologies, approaches, and practices to meet that prohibition policy and accomplish their farming tasks.
3. Community participation in fire prevention should be encouraged, assisted, and accompanied continuously by Government and other stakeholders.
4. Community economic empowerment is required to increase income of local communities and as an incentive to participate in fire prevention program.
5. Fire brigades (*Manggala Agni*) should be trained periodically to maintain and improve their capacities in fire management.
6. Fire equipment should be revitalized over time to meet needed of quality and of quantity.



To ensure sustainability of the project benefits that have been achieved:

1. Ministry of Environment and Forestry, Regional Agencies, Local Fire Stations, and *Manggala Agni* have also steadily assisted and accompanied the communities in implementing integrated land preparation without burning practices. They have applied and will improve knowledge and skills from delivered training; they have utilized and will maintain the SMART Patrol Information System and safety equipment, in their daily activities on fire control.
2. Involve and strengthen synergy and collaboration of all stakeholders, including their resources contribution and support, to implement fire management more effectively and efficiently in the field considering the enormous needed resources, and limited owned resources by each institution. The synergy and collaboration have also been utilized to support community participation in fire prevention through zero burning practices and community economic empowerment.
3. Encourage communities to participate more active in fire prevention initiative, continue to manage and scale up the demonstration plots of integrated land preparation without burning, apply the knowledge and skills on integrated land preparation without burning practices. They also are expected to disseminate the alternative technology for preparing (agricultural) land in connection with national policy on burning prohibition to other and wider communities.

1. The project was well formulated with strong adherence to the ITTO Manual for project formulation: origin of the project was clear, the key problem addressed was relevant, and deeply analyzed involving stakeholders to reveal the cause and effect relationship which had been used as the basis for constructing the project design.
2. Regarding the national policy on burning prohibition, communities should be provided with alternative approaches to zero burning practices, improved their economic empowerment and encouraged to actively participate in fire prevention.
3. Fire brigades (*Manggala Agni*), officials and other stakeholders should continuously improve their management and technical capacity through periodic participation in various training.
4. Fire equipment of *Manggala Agni* and other stakeholders should be provided and continuously revitalized in terms of quantity and quality in order to adequately support the implementation of fire management.
5. Synergy and collaboration in the implementation of fire management among the main stakeholders should be continuously strengthened to increase their contributions.
6. Good communication and understanding among Executing Agency, Project Management Unit, Agencies of FLFM, and Local Fire Stations in the field were the critical points of successful project implementation to achieve the specific objective; in addition to the cooperation, commitment, and support from those parties involved in the project implementation.





ITTO PP-A/56-340-1

## Capacity Building on Forest and Land Fire Management in Indonesia

Highest appreciation and gratitude to:

- Government of Japan
- International Tropical Timber Organization (ITTO)
- Ministry of Environment and Forestry, including Executing Agency, Local Fire Stations, and *Manggala Agni*

***Doumo Arigatou Gozaimasu***  
***Terima kasih***  
***Thank you***



ITTO MOEF Kebakaran



ITTO Fire Project@FireItto



Itto Dalkarhutla@ittodalkarhutla