



Leadership & Innovation in Healthcare

23 - 24 September 2016 | Grand Hyatt Singapore



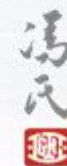
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Health Treasures from the Jungle



By: Dr.Ir. Willie Smits,
Masarang Foundation
www.masarang.hk



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But now the Anthropocene arrived





The Biodiversity Crisis



The Biodiversity Crisis



The Biodiversity Crisis



The Nutrient Crisis



The Energy Crisis



The Financial Crisis



The Financial Crisis

A photograph of a forest clearing. In the foreground, there is a large, messy pile of cut logs and branches, some of which are charred or darkened. The logs are of various sizes and are scattered across the ground. In the background, there is a dense forest of tall, thin trees with green foliage. The sky is visible through the trees, appearing overcast. The overall scene suggests a recent logging or clearing operation.

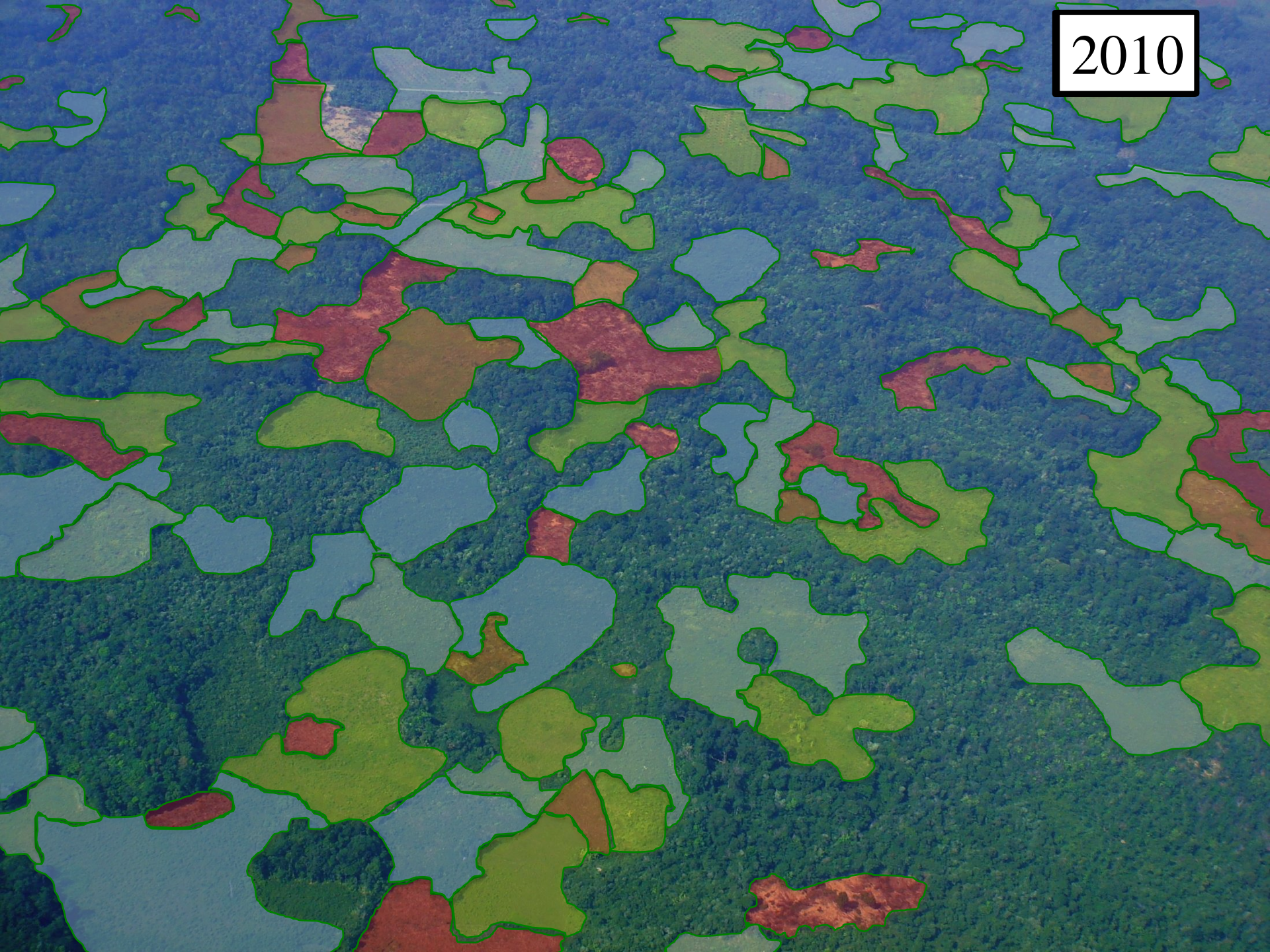
But we also need alternatives for
traditional slash & burn farming...

The image depicts a landscape after a forest fire. In the foreground and middle ground, numerous charred, blackened tree trunks and branches are scattered across the ground. Patches of bright green grass and small plants are growing between the charred wood, indicating regrowth. In the background, a dense forest of tall, thin trees stands, some with green foliage and others appearing bare or sparsely leaved. The sky is a pale, overcast blue.

Still the world's most used
form of agricultural practice



2010



A wide-angle photograph of a grassy hill under a cloudy sky. The hill is covered in green grass, but numerous thin, vertical tree stumps are scattered across its surface, indicating a recent deforestation. In the background, a range of low mountains or hills is visible under a blue sky with white clouds. The foreground shows a field of tall, green grass.

Eventually this vicious cycle leads to complete loss of forest and nutrients



2007

2010

2013

2014

2014

To reduce fire risks as well as emissions we have to help local people with alternatives

Alternatives are absolutely needed!

>100 Million people impacted

100.000 early deaths from smoke

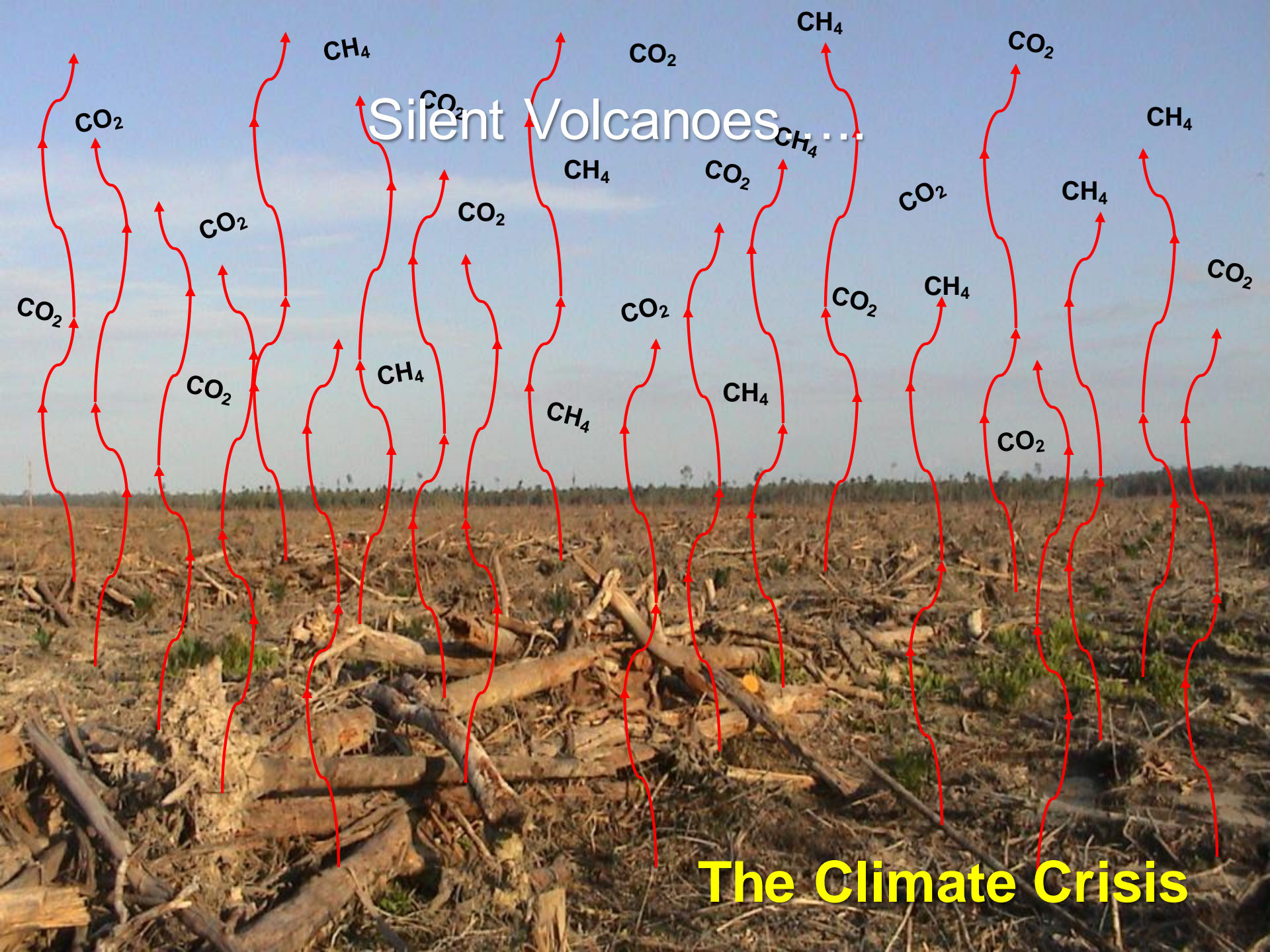
Economic loss 26 Billion USD

Food imports (2.5 M tons of rice)

3% of world's 2015 CO₂ emissions

Indonesia 2015

Silent Volcanoes...



The Climate Crisis



Loss of Culture and Knowhow

We must show people
nature's true value



Saving Nature through the
Empowerment of Local People

**The Tengkwang (Illipe Nut)
Zero Waste Village Factory:
Tembak, West-Kalimantan**



Tengkawang (Illipe) trees



Mark boundaries of the common owned forests, provide food security & medicines



Gave important income to the local people until recently. Produce healthier natural fat



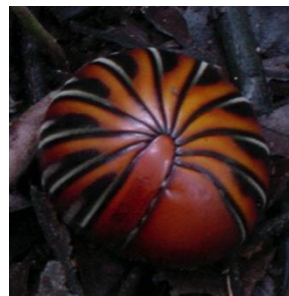
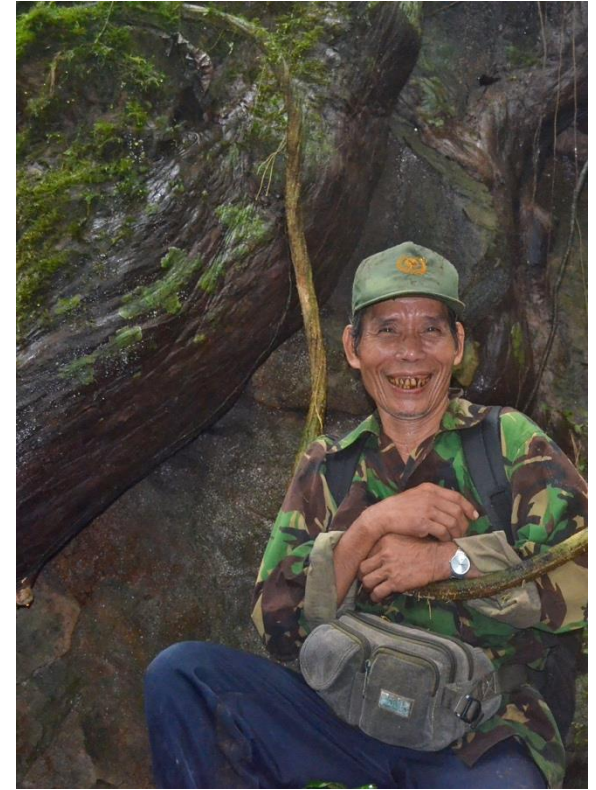
Agarwood & Resins



For Perfumes and Medicinal Uses



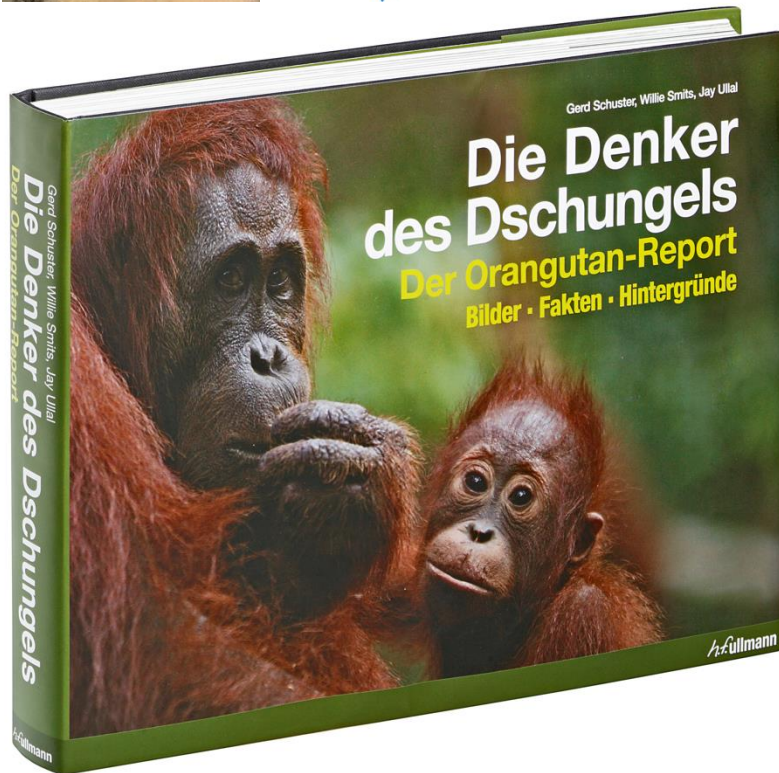
My Friend Medicine-man Apui



Potential useful plants from just a few days expedition to Mount Saran



Thinkers of the Jungle



Fordia splendissima
(Fabaceae)



Charcoal



Nutrient-rich Clay

**Sharing and passing on
knowledge is a lesson
from the past and the
solution for our future**



Only when we can
help people survive
from the natural
habitat will other
precious beings like
orangutans also
have a chance to
survive in their
natural habitat





Sugar Palms and Health

by: Dr.Ir. Willie Smits¹⁾

Preparations for a program to
help local people and obtain
valuable data on the health
effects of palm sugar

1) Head ITM University Tomohon

Effect after five days treatment with oil borenga produced with copper seed oil



Sugar Palm Potential for human health, but also for environmental protection and food security



A dense tropical rainforest with lush green foliage and tall trees. The scene is filled with various types of plants, including large ferns and thick tree trunks, creating a vibrant and complex natural environment.

**Investing in the future means
protecting the past!**

Nature knows best



Year 1: Jobs

Year 2-3: Crops

Year 4-5:
Carbon, Water,
Biodiversity

Year 8: Air Temperature down C, Air Humidity up, Cloud cover up 11.5%, rainfall up 25%, 137 species of Birds, 8 species of primates, 3000 people getting income.



Tembak, West Kalimantan



Thank
You IDSmed !!! 😊

Klinik Orangutan Sintang



Sintang, West Kalimantan



Tasikoki Clinic, North Sulawesi

***There is still time and there are still opportunities
to clean up the mess man has created***



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